

January 30, 2024

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Dear McKnight Brain Research Foundation Trustees,

I am honored to share this report regarding the UAB Evelyn F. McKnight Brain Institute's critical work in 2023. Our institute's achievements over the past year—including the expansion of McKnight faculty across UAB; the highly successful McKnight Inter-Institutional meeting last May; and the growth of the Brain Health Advocacy Mission, including funding from the McCance Center for Brain Health at Mass General Brigham; among many others—have been greatly enhanced by your generosity. We are truly grateful for all that the McKnight Brain Research Foundation does to support our faculty.

If you have any questions or need any additional information, please do not hesitate to contact me or Katie McDowell, Senior Director of Advancement Communications at (205) 934-2392, or by email at [kmcdow@uab.edu](mailto:kmcdow@uab.edu). On behalf of everyone who continues to benefit from the McKnight Brain Research Foundation's generosity and partnership, thank you for all that you do.

Sincerely,



Tom Brannan  
Vice President for Advancement  
and Strategic Initiatives

TIB/kcm

# The Evelyn F. McKnight Brain Institute

Preserving memory, enhancing life

## Annual Report

2023



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January 29, 2024

Board of Trustees, The McKnight Brain Research Foundation

It is with great pleasure that we submit our 2023 Annual Report for The Evelyn F. McKnight Brain Institute (MBI) at UAB.

We are proud to report robust research and programmatic activities in 2023. We continue to have significant representation and collaboration across multiple UAB units, including the Heersink School of Medicine, the Graduate School, College of Arts and Sciences, School of Engineering, School of Health Professions, School of Nursing, School of Public Health, Callahan Eye Hospital, and School of Optometry. After a notable number of retirements and relocations in 2022, we added 13 new MBI members in the past year; we now have 62 full-time faculty, the highest number since the founding of UAB McKnight in 2004. We are especially pleased that our membership is ethnically and racially diverse, consistent with UAB's mission of including underrepresented groups in its research enterprise both as investigators and study participants.

We remain firmly committed to addressing age-related memory and cognitive decline through: pre-clinical research to identify mechanisms as underlying targets for intervention; the conduct of translational studies that establish proof-of-principle in human models; and the implementation of clinical trials that demonstrate safety and efficacy for mitigating memory and cognitive decline. The literature clearly shows that the most effective way to address these age-related changes is through primary prevention via risk factor management and lifestyle changes. To this end, our Brain Health Advocacy Mission (BHAM), the collaboration between UAB McKnight and UAB Family and Community Medicine, has completed its initial, pilot project goal of enrolling 100 participants in primary care settings and are followed for one year. Based on our findings of their baseline characteristics, we have initiated the BHAM Registry in which we will conduct long-term follow-up. Critically, we are leveraging this platform as a source of enrollment for targeted, interventional studies to improve brain health-related outcomes. In 2023, we received a pilot grant from the McCance Center for Brain Health at Mass General Brigham, matched by the UAB McKnight Endowment, to enroll BHAM Registry participants into a study to determine whether high or medium intensity exercise has a more favorable effect on hypertension, the most prominent vascular risk factor for age-related cognitive decline. This 2023 Annual Report documents this initiative and many others by our MBI investigators addressing the aims and objectives of the McKnight mission.

The grants in the appendix reflect member awards that directly address McKnight goals or contribute methodologically, mechanistically, or technologically toward applications that will advance McKnight objectives in the future. We anticipate continuing within this overall framework in 2024.



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**HEERSINK**  
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## Institute FY23 At-a-Glance

- **Summary of Major Achievements - Scientific, Programmatic, Outreach, or Training, Since Last Year**

The UAB McKnight Brain Institute (MBI) hosted the 14<sup>th</sup> Annual McKnight Brain Research Foundation Inter-Institutional meeting on May 3 – 5, 2023. Titled, “Prevention and Mitigation of Cognitive Decline: From the Bench to Community Engagement,” the program featured a broad range of interests and scientific advances across the four MBIs, with emphasis on translating science to community implementation and engagement. Day One began with a tribute to *Ralph Sacco, MD*, the late Executive Director of the Miami MBI, by the new Miami Director, *Dr. Tatjana Rundek*. Then, **Dr. Steven Austad** set the tone of the meeting with his opening lecture, “Translating the Biology of Aging into the Community.” There was a comprehensive update of the McKnight Brain Aging Registry (MBAR), after which Dr. Philip Gorelick, an invited speaker from the Northwestern Feinberg School of Medicine, focused on optimizing brain health.



Thursday afternoon began with a session on “Implementing Successful Aging into the Community,” which introduced a workshop on implementation science, featuring extraordinary presentations by *Drs. Heidi Hamann* from the Univ. of Arizona (Fundamentals), **Dr. George Howard** from UAB (Randomized Controlled Trials), and *Fern Webb* from the Univ. of Florida (Diverse and Underserved Populations). We were thrilled to have Dr. M. Joycelyn Elders, 15<sup>th</sup> Surgeon General of the United States, as our featured dinner speaker at the historic Florentine Ballroom in downtown Birmingham. On Day Two of the scientific program, there were sessions on “Pre-Clinical Models for Intervention: Mechanisms and Outcomes” and “Optical Coherence Tomography Angiography: A Novel Biomarker for Aging.” Reflecting on Birmingham’s unique position in the Civil Rights Movement as a context for UAB’s commitment to the underserved, the post-meeting activities included a visit to the Birmingham Civil Rights Institute and a tour of the 16<sup>th</sup> Street Baptist Church.



Our most important initiative remains the **Brain Health Advocacy Mission (BHAM)**. With definitive evidence that a lifelong, proactive approach to risk factors and lifestyle management prevents later-life cognitive decline, our partnership with primary care clinics represents an ideal mechanism for BHAM into our community. We are now in our second year of our collaboration with UAB Department of Family and Community Medicine and UAB Division of General Internal Medicine, in which we have implemented a process of brain care, a “first of its kind” program in the United States. Our model is based on the 2021 AHA Scientific Statement entitled, “A Primary Care Agenda for Brain Health,” chaired by **Dr. Ronald Lazar**.

As a first step, we have completed enrollment in our IRB-approved, pilot protocol under the supervision of **Pamela Bowen, PhD, CRNP, FNP-BC, BBA** and **Roy Martin, PhD**, serving as brain health advocates in three UAB Family and Community clinics in the Metro-Birmingham area. They are working with individual patients and family members for a one-year participation period. As an outcome measure, we are using the McCance Brain Care Score (BCS) instrument. The application of this tool resulted from an ongoing collaboration among UAB McKnight, the McCance Center for Brain Health at Mass General Brigham, and Yale School of Medicine, and now with published validation (Singh et al, *Frontiers of Neurology*, 2023). For the BHAM pilot study, 100 participants were enrolled (two-thirds representing African American/Black participants). We have learned that our population (mean age, 45 years old) is at the high end of memory and cognitive risk, with 56% having hypertension, 17% having diabetes, and 63% considered obese. We have designed individualized programs with each participant, allowing them to choose their preferred targets at achievable starting points toward improving their brain health. Our first major manuscript regarding BHAM is now under review.



Based on our pilot data, we have initiated a larger, Registry study of BHAM, with revision of the BCS that includes measures reflecting social-emotional elements. We have also added additional measures of stress and anxiety because 25% of our original cohort reported a history of being treated for anxiety and/or depression. Unfortunately, access to mental health services in our region is lacking. When an individual scores on the poorer end of our metrics for social determinants of health and elects to address stress or anxiety as a brain health target, we now can offer them a stress management consultation session with **Amy Knight, PhD**, a new member of UAB McKnight, who is a neuropsychologist with expertise in brief interventions for these issues.

A major impetus for the launch of the Registry is to establish a platform from which to enroll participants into research studies to improve and maintain brain health. In February 2023, we received our first extramural funding, with a \$150,000 grant from the McCance Center for Brain Health, matched with the UAB McKnight Endowment to underwrite the PEDAL study. The aim of this project (**Dr. Pamela Bowen, PI**) is to conduct a pilot, randomized controlled trial to determine whether high- or moderate-intensity aerobic exercise is more effective in increasing retinal vascular density, as assessed by Optical Coherence Tomography Angiography, associated with the reduction of hypertension. We have learned from our ongoing DECLARE protocol, a study involving off-site exercise funded by the MBRF, that a major obstacle to recruitment in our community is access to equipment, either at home or at a fitness center. To this end, we are supplying each PEDAL participant with a stationary bicycle that is assembled and delivered to their home. We monitor adherence to the assigned intervention arm with a heart rate monitor worn during exercise and linked to smart phone applications which transmit data for review.

With retirements and institutional relocations, the 2022 UAB McKnight membership fell to the lowest level since Dr. Lazar became Director in 2017. To revitalize our commitment to McKnight's goals and objectives, we recruited 13 new members (faculty) in 2023, representing the UAB Heersink School of Medicine (**Drs. Kenneth Boockvar, Abbi Hernandez, Caesar Hernandez, Raymond Jones, Amy Knight, Junghee Lee, Elizabeth Lucas, Virendra Mishra, and Daniel Tyrrell**), UAB School of Public Health (**Dr. Kelley Pettee Gabriel**), UAB School of Nursing (**Dr. David Vance**), and UAB School of Optometry (**Dr. Edmund Arthur**). Department affiliations include the Division of Gerontology, Geriatrics and Palliative Care (Medicine), Division of Neuropsychology (Neurology),

Department of Psychiatry and Behavioral Neurobiology, Department of Epidemiology, Division of Advanced Medical Imaging Research (Radiology), and Division of Molecular and Cellular (Pathology). Among our new members, we were proud to announce that **Dr. Keith McGregor**, Associate Professor and Director of Research in the Department of Clinical and Diagnostic Sciences - UAB School of Health Professions, is taking a leadership role in re-invigorating UAB McKnight's commitment to the development of new interventions for the prevention and mitigation of age-related memory and cognitive decline. In addition, he will serve, along with **Dr. Kristina Visscher**, as UAB's representatives on the **Cognitive Aging and Memory Intervention (CAMI) Core Pilot Grant Program**. His work investigates age-related decline in motor control and its implications for stroke rehabilitation. He employs multimodal imaging (TMS, fMRI, MRS, DWI) and neurostimulation techniques (rTMS, tDCS). Dr. McGregor's research has shown that aging is associated with decreased levels of cortical inhibition, which affects cognition and motor control, including motor learning. However, a significant facet of this aging-related phenomenon is that individual differences in physical activity level appear to mitigate changes in cortical communication. His research has shown that lifestyle interventions can lessen or even reverse aging-related declines in behavioral performance in motor and cognitive domains.

Age-related memory and cognitive decline arise not only from direct neuronal changes, but also from systemic disease and conditions that secondarily impact the brain. Cardiac sources represent one of the most common contributors to adverse brain health, with aortic stenosis a highly prevalent condition in older age. Just prior to leaving Columbia Univ. in 2017, **Dr. Lazar** received a grant, jointly funded by the National Institute of Neurological Disorders and Stroke (NINDS) and the National Institute of Aging (NIA), to study the impact of altered cerebral hemodynamics on memory and cognition in the setting of severe aortic valve stenosis. This project was transferred to UAB where 80% of the data were collected. It had always been presumed that a stenotic valve resulted in reduced cerebral blood flow (CBF) and that valve replacement would improve cerebral hemodynamics and furthermore, cognitive function. Described in a 2023 paper published in the *European Heart Journal Open (Eur Heart J Open)*, **Dr. Lazar**, **Dr. Adam Gerstenecker**, and others found, for the first time, that among 42 individuals with severe aortic stenosis about to undergo transcatheter aortic valve replacement (TAVR) both cognition and cerebral blood flow, measured on transcranial Doppler, were within the normal range, with no change after valve replacement. Thus, our data showed that impaired flow across the stenotic valve is not sufficient to exceed the brain's autoregulatory capacity to adapt to changes in cerebral perfusion. The relevance to the UAB McKnight enterprise is that prevention and mitigation of age-related cognitive change involves risk factor reduction and lifestyle modification that promote a healthier cardiovascular system.

UAB McKnight faculty, **Drs. Virginia Howard** and **Michael Crowe**, are senior investigators in the REasons for Geographic and Racial Differences in Stroke (REGARDS) study, an NINDS/NIA-funded project originally designed to examine risk factors for incident stroke in a population-based study enriched for African American Blacks. REGARDS later generated important information relating to incident, age-related cognitive decline in the absence of frank neurological events, a focus led by **Dr. Virginia Wadley**. In new work published in the *Journal of the American Geriatrics Society*, Drs. Howard and Crowe and others examined trajectories of cognitive change before and after retirement in Black and White adults. Data were from 2226 members of the REGARDS study who retired around the time when an occupational ancillary survey was administered. Cognitive function was an average of z-scores for tests of verbal fluency, memory, and global function. The authors found that participants had cognitive stability as they approached retirement; however, participants had cognitive decline in the years right after retirement. Of particular note was that the age-related cognitive decline observed immediately following retirement was almost three times steeper in White compared with Black individuals, and twice as large in men compared with women. Black women showed very little post-retirement cognitive decline, and White men experienced the highest rate of

cognitive decline once they retired. From these findings, the authors concluded that lifelong structural inequalities, including occupational segregation and other social determinants of cognitive health, may obscure the role of retirement in cognitive aging. (Anzel et al., *J Am Geriatr Soc.* 2023 Sep;71(9):2769-2278)

With an increased prevalence of cognitive decline associated with the aging of the population, novel interventions are needed to address this major public health issue. **Drs. David Vance, Victor Del Bene, Visscher, Pariya Fazeli**, and colleagues conducted a systematic review published in *Neuropsychology Review* to determine whether olfactory training (OT) improves cognition and brain function (evidence for altered brain morphology and connectivity that supports cognition). OT consists of repeated exposure to odorants over time with the intended neuroplastic effect of improving or remediating olfactory functioning. Declines in olfaction parallel declines in cognition in various pathological conditions and aging. Research suggests a dynamic neural connection exists between olfaction and cognition. Across three databases (MEDLINE, Scopus, & Embase), the authors identified 18 articles. Overall, the reviewed studies provided emerging evidence that OT is associated with improved global cognition, and in particular, verbal fluency and verbal learning/memory. OT is also associated with increases in the volume/size of olfactory-related brain regions, including the olfactory bulb and hippocampus, and altered functional connectivity. Interestingly, these positive effects were not limited to patients with smell loss (i.e., hyposmia & anosmia) but normosmic (i.e., normal ability to smell) participants benefitted as well. (Vance et al., *Neuropsychol Rev.* 2023 Feb 2:1-37)

**Farah Lubin, PhD**, is a recipient of a 2023 MBRF Inter-Institutional Cognitive Aging and Memory Intervention (CAMI) Core Pilot Grant to study how neuronal O-GlcNAc transferase (OGT) expression and O-GlcNAcylation ameliorate cognitive impairments in aged mice. Inter-institutional MBI co-investigators include *Drs. Jennifer Bizon, Tom Foster, and Sara Burke* from the Florida MBI. The proposed pilot studies will begin to determine if O-GlcNAc signaling is a metabolic target of the ketogenic diet (KD) that regulates glucose metabolism. Few studies have explored the research idea that restoring proper O-GlcNAc homeostasis in the aging brain could lead to normalization of the aberrant energy metabolism that leads to restoration of memory function with age. The long-term goal of this proposal is to identify and characterize the ability of KD therapy to restore O-GlcNAc signaling in association with memory improvements with age. Additional experiments outlined for a future NIH proposal will investigate the molecular and cellular mechanisms through which O-GlcNAc signaling might be involved in the age-related memory modifying effects of KD therapy. Collectively, these proposed pilot studies include combinations of experiments to gain an understanding of the O-GlcNAc signaling mechanisms involved in metabolic control of cell-type specific gene transcription profiles in memory deficits associated with aging. The investigators propose that identification of the underlying metabolic mechanisms triggered by KD therapy will lead to novel, more palatable, age-preventing therapeutic interventions for memory deficits.

**Drs. Del Bene, Lazar (PI), David Geldmacher, and George Howard**, in addition to other UAB institutional leaders, are addressing the complex issue of the aging physician. As the population of the United States ages, so too does its workforce. With aging comes possible changes in cognition that can impact an older adult's competence, including that of healthcare providers. Current normative data for neuropsychological measures, however, are adjusted for age and are meant to represent the average cognitive ability of the general population. Given that age-adjusted norms do not predict real world occupational functioning and medical professionals are likely to possess cognitive ability above that of the general population, the generalizability of current neuropsychological norms for this population may not be valid. To address this gap, the team received a grant from the UAB Health Services Foundation General Endowment Fund, which has resulted in the neuropsychological assessment of 190 UAB practicing physicians aged 35 – 65



years old, with the goal of establishing a normative cognitive dataset to serve as an empirical basis for determining cognitive skills, among other metrics of fitness, to practice. These data are currently in analysis, leading to a planned DELPHI consensus conference of cognitive specialists and representatives of cognitive and procedural medical groups, who will then establish competency thresholds that will define criteria for physician impairment.

## *The Most Important, Relevant Scientific Achievements of the Past Year*

*(The descriptions of the Scientific Achievements below are adaptations of the abstracts of the publications)*

The MBIs at UAB, Univ. of Miami, Univ. of Florida, and Univ. of Arizona, under the rubric of the McKnight Brain Aging Registry (MBAR), published their first major paper led by **Dr. Kristina Visscher** (senior author) and her graduate student, Sara Nolin (now Dr. Sara Nolin, first author), with **Drs. Geldmacher** and **Wadley** as co-authors. Their goal was to evaluate the construct validity of the NIH Toolbox Cognitive Battery (NIH TB-CB) in the healthy oldest-old (85+ years old). Their MBAR sample consisted of 179 individuals, 85 to 99 years of age, screened for memory, neurological, and psychiatric disorders. Using previous research methods on a sample of 85+ y/o adults, they conducted confirmatory factor analyses on models of NIH TB-CB and same domain standard neuropsychological measures, hypothesizing that the five-factor model (Reading, Vocabulary, Memory, Working Memory, and Executive/Speed) would have the best fit, consistent with younger populations. They also evaluated demographic and computer-use predictors of NIH TB-CB composite scores. The findings suggest that the six-factor model (Vocabulary, Reading, Memory, Working Memory, Executive, and Speed) had a better fit than alternative models. NIH TB-CB tests had good convergent and discriminant validity, though tests in the executive functioning domain had high inter-correlations with other cognitive domains. Computer use was strongly associated with higher NIH TB-CB overall and fluid cognition composite scores. The authors concluded that NIH TB-CB is a valid assessment for the oldest-old samples, with relatively weak validity in the domain of executive functioning. Overall, the NIH TB-CB could be useful for testing cognition in the oldest-old and the impact of aging on cognition in older populations. (Nolin et al., *J Int Neuropsychol Soc.* 2023 Jul;29(6):605-614).

**Drs. Lazar, G. Howard, V. Howard**, and collaborators from the McCance Center for Brain Health at Mass General Brigham, Yale School of Medicine, and Univ. of Toronto sought to evaluate the predictive validity of the Brain Care Score (BCS), designed to promote behavior changes and a healthy lifestyle, with risk of incident dementia and stroke. It was hypothesized that a higher score represents better brain health. BCSs were derived from the United Kingdom Biobank (UKB) baseline evaluation for participants aged 40–69 years, recruited between 2006–2010. Associations of BCS and risk of subsequent incident dementia and stroke were estimated using Cox proportional hazard regression, adjusted for sex assigned at birth and stratified by age groups at baseline. The BCS (median: 12; interquartile range (IQR): 11–14) was derived for 398,990 UKB participants (mean age: 57; females: 54%). There were 5,354 incident cases of dementia and 7,259 incident cases of stroke recorded during a median follow-up of 12.5 years. A five-point higher BCS at baseline was associated with a 59% (95% confidence interval (CI): 40-72%) lower risk of dementia among participants aged <50. Among those aged 50–59, the figure was 32% (95%CI: 20-42%), and 8% (95%CI: 2-14%) for those aged >59 years. A five-point higher BCS was associated with a 48% (95%CI: 39-56%) lower risk of stroke among participants aged <50, 52% (95%CI, 47-56%) among those aged 50–59, and 33% (95%CI, 29-37%) among those aged >59. It was concluded that the BCS has clinically relevant and statistically significant associations with risk of dementia and stroke in approximately 0.4 million UK people. Future research includes investigating the feasibility, adaptability, and implementation of the BCS for patients and providers worldwide. (Singh et al., *Front Neurol.* 2023 Dec 1;14:1291020)

**Dr. Visscher**, Associate Director of UAB McKnight, and colleagues studied how experience-dependent plasticity is altered by aging, using macular degeneration (MD) as a model to compare younger vs older ages. MD causes central vision loss, forcing individuals to learn to use peripheral

vision for daily tasks. To compensate, many patients develop a preferred retinal locus (PRL), an area of peripheral vision used more often than equivalent regions of spared vision. Thus, associated portions of cortex experience increased use, while portions of cortex associated with the lesion are deprived of sensory input. Prior research has not well examined the degree to which structural plasticity depends on the amount of use across the visual field. In their recent publication, cortical thickness, neurite density, and orientation dispersion were measured at portions of cortex associated with the PRL, the retinal lesion, and a control region in participants with MD, as well as age-matched, gender-matched, and education-matched controls. MD participants had significantly thinner cortex in both the cortical representation of the PRL (cPRL) and the control region, compared with controls, but no significant differences in thickness, neurite density, or orientation dispersion were found between the cPRL and the control region as functions of disease or onset. This decrease in thickness is driven by a subset of early-onset participants whose patterns of thickness, neurite density, and neurite orientation dispersion are distinct from matched control participants. These results suggest that people who develop MD earlier in adulthood may undergo more structural plasticity than those who develop it late in life. (Defenderfer et al., *Hum Brain Mapp.* 2023 Jul;44(10):4120-4135)

**Dr. Thomas Buford** and investigators from the Univ. of Florida, Univ. of Central Arkansas, North Carolina A&T Univ., and Washington Univ. in St. Louis had previously shown that in individuals with knee pain, ethnic/race group differences were observed in bilateral temporal lobe thickness, areas of the brain associated with risk for Alzheimer's disease, and related dementias. The purpose of this new study was to determine if socioenvironmental factors reduce or account for previously observed ethnic/race group differences and explore if a combined effect of socioenvironmental risk and chronic pain severity on temporal lobe cortices is evident. Their sample was comprised of 147 adults (95 women, 52 men), 45-85 years of age, who self-identified as non-Hispanic Black (n = 72) and non-Hispanic White (n = 75), with knee pain with/at risk for osteoarthritis. Measures included demographics, health history, pain questionnaires, cognitive screening, body mass index, individual- and community-level socioenvironmental factors (education, income, household size, marital and insurance status, and area deprivation index), and brain imaging. They computed a summative socioenvironmental risk index. Regression analyses showed that with the inclusion of socioenvironmental factors, the model was significant ( $p < .001$ ), and sociodemographic (ethnic/race) group differences were not significant ( $p = .118$ ). Additionally, findings revealed an additive stress load pattern indicating thinner temporal lobe cortices with greater socioenvironmental risk and chronic pain severity ( $p = .048$ ). Thus, combined socioenvironmental risk factors and higher chronic pain severity were associated with thinner temporal lobes, bilaterally. (Antoine et al., *Brain Behav.* 2023 Dec;13(12):e3330)

**Dr. Elizabeth Lucas**, a new faculty member in the UAB MBI, and her team engaged in a pre-clinical study addressing sex differences in socioemotional behavior and hippocampal aging. Socioemotional health is positively correlated with improved cognitive and physical aging. Despite known sex differences in socioemotional behaviors and the trajectory of aging, the interactive effects between sex and aging on socioemotional outcomes are poorly understood. They performed the most comprehensive assessment of sex differences in socioemotional behaviors in C57Bl/6J mice across aging to date. Compared to males, females exhibited decreased anxiety-like behavior and social preference but increased social recognition. With age, anxiety-like behavior, cued threat memory generalization, and social preference increased in both sexes. To investigate potential neural mechanisms underlying these behavioral changes, the team analyzed transcriptional neuropathology markers in the ventral hippocampus and found age-related changes in genes related to activated microglia, angiogenesis, and cytokines. Sex differences emerged in the timing, direction, and magnitude of these changes, independent of reproductive senescence in aged females. These novel findings reveal critical sex differences in trajectories of ventral hippocampal aging that may

contribute to sex- and age-related differences in socioemotional outcomes. (Baumgartner et al., *Neurobiol Aging*. 2023 Oct;130:141-153)

**Drs. Abbi Hernandez** and **Sara Burke** (Florida MBI) and colleagues from the Univ. of Tennessee have been exploring pre-clinical models of diet interventions to reduce the occurrence of age-related cognitive decline. Age-related cognitive decline has been linked to distinct patterns of cellular dysfunction in the prelimbic cortex (PL) and the CA3 subregion of the hippocampus. Because more complex cognitive domains require both structures, selectively targeting a neurobiological change in one region, at the expense of the other, is not likely to restore normal behavior in older animals. One change with age that both the PL and CA3 share, however, is a reduced ability to utilize glucose, which can produce aberrant neural activity patterns. Their study used a ketogenic diet (KD) intervention, which reduces the brain's reliance on glucose, and has been shown to improve cognition, as a metabolic treatment for restoring neural ensemble dynamics in aged rats. Expression of the immediate-early genes *Arc* and *Homer1a* were used to quantify the neural ensembles that were active in the home cage prior to behavior, during a working memory/biconditional association task, and a continuous spatial alternation task. These investigators found that aged rats on the control diet had increased activity in CA3 and less ensemble overlap in PL between different task conditions than did the young animals. In the PL, the KD was associated with increased activation of neurons in the superficial cortical layers, establishing a clear link between dietary macronutrient content and frontal cortical activity. The KD did not lead to any significant changes in CA3 activity. These observations suggest that the availability of ketone bodies may permit the engagement of compensatory mechanisms in the frontal cortices that produce better cognitive outcomes. (Hernandez et al., *Front Aging Neurosci*. 2023 Dec 14;15:1274624)

Delirium, especially among older adults, is a predictor of later cognitive decline, even in the absence of neurodegenerative and other brain disease. **Drs. Roy Martin, Thomas Buford, and Richard Kennedy** and others at UAB sought to study whether delirium predicts occurrence of hospital-associated disability (HAD) or functional decline after admission, among hospitalized older adults. UAB medical records were surveilled for 33,111 older adults  $\geq 65$  years old, admitted from 1/1/2015 to 12/21/2019. Delirium was defined as a score  $\geq 2$  on the Nursing Delirium Screening Scale (NuDESC) during hospital admission. HAD was defined as a decline on the Katz Activities of Daily Living (ADL) scale from hospital admission to discharge. Generalized linear mixed models were used to examine the association between delirium and HAD, adjusting for covariates and repeated observations with multiple admissions. They performed multivariate and mediation analyses to examine strength and direction of association between delirium and HAD. The investigators found that one-fifth (21.6%) of older adults developed HAD during hospitalization and experienced higher delirium rates compared to those not developing HAD (24.3% vs 14.3%,  $P < .001$ ). Age, presence of delirium, Elixhauser Comorbidity Score, admission cognitive status, admission ADL function, and length of stay were associated (all  $P < .001$ ) with incident HAD. Mediation analyses found 46.7% of the effect of dementia and 16.7% of the effect of comorbidity was due to delirium ( $P < .001$ ). Delirium significantly increased the likelihood of HAD within a multivariate predictor model that included comorbidity, demographics, and length of stay. For dementia and comorbidity, mediation analysis showed a significant portion of their effect attributable to delirium. Overall, these findings suggest that reducing delirium rates may diminish HAD rates. (Freeman et al., *J Am Med Dir Assoc*. 2023 Apr;24(4)533-540)

Although the McKnight enterprise does not focus on pathological causes of memory and cognitive decline, disease models can provide important insight into the aging process and its associated risk factors, including the social determinants of health. **Drs. Karlene Ball and Michael Crowe** and investigators from Johns Hopkins, UPenn, UNC-Chapel Hill, Univ. of Florida, Univ. of Pittsburgh, Univ. of Michigan, and Univ. of Washington examined whether social determinants of health (SDoH)



are associated with Alzheimer's disease and related dementias (ADRD) risk and the effects of cognitive training over a 20-year follow-up period. Data were obtained from 1605 participants in Dr. Ball's ACTIVE study. SDoH measures were created using baseline data at the individual and neighborhood level. Incident ADRD was defined using administrative claims data (1999-2019). Cause-specific hazard models estimated associations between SDoH and claims-based diagnosed ADRD. Higher scores on neighborhood and built environment were associated with lower ADRD risk. Trained participants obtained a greater degree of protection from ADRD when they had higher scores for SDoH domains associated with health care and education access. However, there were fewer significant SDoH moderation effects on cognitive training than expected. The authors concluded that future work should continue to explore culturally tailored cognitive training interventions to reduce ADRD risk associated with SDoH that disproportionately affects racially diverse aging population. (Rebok et al., *J Aging Health*. 2023 Oct;35(9\_suppl):40S-50S).

## *Current MBI budget and Endowment Investment Report*

*(This Report section will be provided separately when updated, after addressing the initial review from the MBRF Finance Committee)*

## Collaborative Programs with McKnight Institutes and Non-McKnight Institutes

### McKnight Collaborations

#### **Lazar, Ronald**

Co-Chaired with *Dr. Levin* (Miami MBI) the MBRF Cognitive Aging and Memory Intervention (CAMI) Core Inter-Institutional Pilot Program that requested letters of intent and proposals for pilot studies to support interventions to reduce age-related memory loss and cognitive decline. The Board of Trustees of the MBRF approved funding for three projects.

Hosted the **14th Annual McKnight Brain Research Foundation Inter-Institutional Meeting** on May 3 – 5, 2023. Titled, “Prevention and Mitigation of Cognitive Decline: From the Bench to Community Engagement.” See Summary of Major Achievements (above) for more details.

Principal Investigator. “Improving Age-Related Cognitive Decline with Exercise in Hypertensive Older Adults: A Pilot Study to Investigate A Retinal Microvascular Biomarker and the Role of IGF (DECLARE). McKnight Brain Research Foundation. 5/1/2021 – 4/30/2024. Collaborators: **UAB - Lazar** (PI), **Buford**, Girkin, Norling; UMiami - *Wang* (site-PI).

#### **Hernandez, Abbi**

Collaboration with *Dr. Sara Burke* (Florida MBI) and colleagues from the Univ. of Tennessee to explore pre-clinical models of diet interventions to reduce the occurrence of age-related cognitive decline.

#### **Lubin, Farah**

2023 MBRF CAMI Core Pilot grant, entitled, “Ketogenic Diet Improvement of Age-Related Memory Impairments, Nominates Cell-type Specific O-GlcNAc Deficiencies in the Aged Hippocampus,” with Univ. of Florida collaborators *Drs. Bizon, Foster, and Burke*.

#### **Visscher, Kristina**

UAB representative to the McKnight Brain Aging Registry (MBAR).

#### **Visscher, Kristina and Keith McGregor**

UAB representatives on the MBRF CAMI Core Committee.

### Non-McKnight Collaborations

#### **Lazar, Ronald**

Principal Investigator (MPI). ARCADIA CSI (Cognition and Silent Infarcts). National Institute of Neurological Disorders and Stroke (NINDS)/NIH. 7/1/2019 – 6/30/2024. Collaborators: **UAB - Lazar** (MPI), **G. Howard**; Stanford - *Lansberg* (MPI), MD Anderson-Wintermark; Yale - *Sheth*; UWashington - *Tirschwell*; UCincinnati – *Broderick*.

Co-Investigator. “Genetic Contribution to Brain Arterial Dilatation and its Role in Cognition and Dementia.” National Institute of Aging (NIA)/NIH. 8/15/2018 – 4/30/2024. Collaborator: Columbia Univ. - *Gutierrez* (PI).

Co-Investigator. AIDS and Aging Research. NIA/NIH. 8/7/2020 – 8/6/2025 Collaborators: **UAB - Austad** (MPI), **Saag**, Willig, Porter, Thielen; Rush - Landay; UWashington - Crane (MPI), Lober, Delaney, Whitney; Wake Forest - Kritchevsky (MPI), High; Beth Israel Lahey - Bergeron.

A “Brain Care Score” To Predict Risk for Incident Cognitive Decline and Stroke. Collaborators: **UAB - Lazar, G. Howard, V. Howard**; Harvard (Mass General) - Rosand, Chemali, Westover, Singh, Gutierrez-Martinez, Ouyang; Yale - Kernan, Sheth.

Principal Investigator (MPI). “Carotid Revascularization and Medical Management for Asymptomatic Carotid Stenosis Trial – Hemodynamics (CREST-H). NINDS/NIH. 8/1/2022 – 7/31/2027. Collaborators: **UAB – G. Howard**; Columbia - Marshall (MPI); UCLA - Liebeskind (MPI); Mayo/Jacksonville - Meschia (MPI); UWashington - Tirschwell; Yale - Sheth.

### **Visscher, Kristina**

Working with Dr. Lesley Ross at Clemson Univ. on a project funded by NIA/National Institute of Child Health and Human Development (NICHD), examining the impact of speed of training on brain health and cognition for older adults.

Working with Dr. Aaron Seitz at Univ. of California, Riverside and Nick Turk-Browne at Yale, on a study funded by NIH/National Eye Institute (NEI), examining the mechanisms of learning in adults with macular degeneration.

## *Honors, Awards, and New Grants*

### **Lazar, Ronald**

- Co-Principal Investigator (**Bowen, PI, Arthur, Co-I**). “An Exercise Intervention to Improve Overall Brain Health: PEDAL (Physical Education for an Active Lifestyle) Study.” 2/1/2023 – 1/31/2025. The McCance Center for Brain Health (Mass General Brigham).
- Appointment to the American Stroke Association National Advisory Committee of the American Heart Association (AHA).

### **Arrant, Andrew**

- Named a James A. Pittman Scholar by the UAB Heersink School of Medicine.

### **Arthur, Edmund**

- Principal Investigator. “Quantifying differences in the retinal peripheral capillary free zones in diabetic retinopathy.” Genentech Career Development Award for URM Emerging Vision Scientists.

### **Asif, Irfan**

- Selected to serve on the American Board of Family Medicine (ABFM) Sports Assessment Committee.

### **Austad, Steven**

- Received the Lifetime Contributions Award, Longevity Summit Dublin 2023, Dublin, Ireland.

### **Ball, Karlene**

- Recipient of the 2023 UAB Minority Health & Health Equity Research Center (MHERC) Excellence in Mentoring Award.

### **Boockvar, Kenneth**

- Appointment to the UAB Gwen McWhorter Professorship.

### **Bowen, Pamela**

- Awarded Associate Professor with Tenure.

### **Buford, Thomas**

- Named Associate Dean for Research in the UAB Heersink School of Medicine.

### **Del Bene, Victor**

- Appointment as StrokeNet Fellow for the StrokeNet StrokeBelt Regional Coordinating Center, NINDS/NIH.

### **Gabriel, Kelley Pettee**

- Recipient of a Distinguished Faculty Investigator Award in the UAB School of Public Health.
- Appointment to Associate Dean for Research in the UAB School of Public Health.



**Gamble, Karen**

- MPI. “Medications for opioid use disorder differentially modulate intrinsically photosensitive retinal ganglion cell function, sleep, and circadian rhythms: implications for treatment.” 9/20/23 - 8/31/2027. National Institute on Drug Abuse (NIDA)/NIH.

**Gray, Michelle**

- She is the subject of a children’s book, “Be Fearless,” in a series that highlights accomplished scientists from underrepresented groups with ties to Alabama.

**Gross Gutierrez, Alecia**

- Awarded Full Professor

**Hernandez, Abbi**

- Promotion to Assistant Professor in the Division of Gerontology, Geriatrics and Palliative Care, UAB Department of Medicine.

**Hernandez, Caesar**

- Promotion to Assistant Professor in the Division of Gerontology, Geriatrics and Palliative Care, UAB Department of Medicine.

**Howard, George**

- Named “2023 Leading Stroke Scientist” by the American Stroke Association/American Heart Association.

**Howard, Virginia**

- R01 Subaward PI (BostonU - Romero, PI). “Precursors of Stroke Incidence and Prognosis.” 9/9/2023 – 8/31/2028. NINDS/NIH.

**Kennedy, Richard**

- R21 MPI. “Comprehensive Assessment of Delirium Risk due to Medications.” 12/2023 - 11/2025. NIA/NIH.
- Elected Fellow of the Gerontological Society of America (GSA).

**Lee, Junghee**

- Principal Investigator (**Lahti**, MPI). “Multidimensional Aging Trajectories in mid- to late-life psychosis (MAP). 12/1/2023 – 11/30/2027. National Institute of Mental Health (NIMH)/NIH.

**Lubin, Farah**

- First faculty member appointed to the Triton Endowed Professorship in Neurobiology, established by the UA Board of Trustees.
- Received rank of Distinguished Professor.
- Appointment as PI of T32 Training Program in Neurobiology of Cognition and Cognitive Disorders.
- Principal Investigator. “The role of lncRNA Neat1 in AD and related memory deficits.” NIA/NIH, 4/15/2023 – 3/31/2028.

**McGregor, Keith**

- Appointment as Member of the American Congress of Rehabilitation Medicine Cognition in Aging Task Force.

**Tyrrell, Daniel**

- Awarded Agilent University Relations Program 2023 gift for project entitled, “Imaging, Detecting, and Enumerating a Novel T Cell Subset in Thick Tissue Cross Sections in the Aging Brain.”

**Visscher, Kristina**

- Co-Principal Investigator (R01: **Pariya Wheeler**, PD/PI), Examining the Effect of High-Intensity Exercise to Attenuate Cognitive Function Limitations and Train Exercise Habits in Older People Living with HIV (HEALTH-Cog), 4/1/2023 – 3/31/2028. NIA/NIH.

**Wheeler, Pariya Fazeli**

- Recipient of the 2023 Distinguished Scholar Alumni Award, UAB Department of Psychology.
- Recipient of the 2023 MHERC Excellence in Mentoring Award.
- Principal Investigator. “Examining the Effect of High-Intensity Exercise to Attenuate Cognitive Function Limitations and Train Exercise Habits in Older People Living with HIV (HEALTH-Cog).” 5/15/2023 - 4/30/2028. NIA/NIH.

*Technology Transfer (Patents/applications; Revenue generated from technology)*

None

*Were any funds used for a Prohibited Purpose during the report period?*

No

*Do you recommend any modification to the Purpose or Mandates in the Gift Agreement?*

No

*Did all activities during the report period further the Purpose?*

Yes

### *Additional Comments*

(items that are not covered elsewhere in the report, including any negative events, loss of full-time employees (FTEs), impending departures, space, or budget that could have an impact on carrying out the Gift Agreement.)

None

A handwritten signature in cursive script, appearing to read "Ronald M. Lazar, PhD".

Ronald M. Lazar, PhD, FAHA, FAAN  
Professor of Neurology and Neurobiology  
Evelyn F. McKnight Endowed Chair for Learning and Memory in Aging  
Director, UAB Evelyn F. McKnight Brain Institute  
Director, Division of Neuropsychology  
Department of Neurology

## Appendix 1 – McKnight Faculty List

List of McKnight Affiliate Faculty, their area of focus, and Department Affiliation, including a list of post-doctoral and pre-doctoral trainees involved only in the aims related to cognitive decline and memory loss and contribute methodologically, mechanistically, or technologically toward applications that address McKnight objectives in the future.

| McKnight Affiliate Faculty<br>2023                                                           |                                                                                                        |                                              |                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Faculty                                                                                      | Area of Focus                                                                                          | Dept Affiliation                             | Post-Doctoral and Pre-Doctoral Trainees                                                                                                                                                                                                              |
| Lazar, Ronald M<br><a href="mailto:rlazar@uabmc.edu">rlazar@uabmc.edu</a>                    | Cognitive Resilience and Recovery in Aging, Brain Health, Cerebral hemodynamics, Neurovascular Disease | Neurology                                    | <u>Pre-Doc</u><br>Amani Norling, MS (Exercise)<br>Randall Walden (Imaging)<br>Terina Myers (Exercise)<br><u>Undergrad</u><br>Trevor Starling (Brain Health)<br>Angela Ly (Exercise)<br>Gitanjali Alapati (Exercise)<br>Rashmi Nakkina (Brain Health) |
| Allendorfer, Jane<br><a href="mailto:jallendorfer@uabmc.edu">jallendorfer@uabmc.edu</a>      | Exercise and epilepsy                                                                                  | Neurology                                    | <u>Post-Doc</u><br>Christina Mueller (Imaging and neural inflammation)                                                                                                                                                                               |
| Arrant, Andrew<br><a href="mailto:andrewarrant@uabmc.edu">andrewarrant@uabmc.edu</a>         | Frontotemporal dementia                                                                                | Neurology                                    |                                                                                                                                                                                                                                                      |
| Arthur, Edmund<br><a href="mailto:earthur@uab.edu">earthur@uab.edu</a>                       | Advanced retinal imaging for diabetes and dementia                                                     | Optometry                                    | <u>Pre-Doc</u><br>Swetha Ravichandran (Retinal Biomarkers and preclinical neurological diseases)                                                                                                                                                     |
| Asif, Irfan<br><a href="mailto:iasif@uab.edu">iasif@uab.edu</a>                              | Primary care                                                                                           | Family and Community Medicine                |                                                                                                                                                                                                                                                      |
| Austad, Steven N<br><a href="mailto:austad@uab.edu">austad@uab.edu</a>                       | Molecular and organismal biology of aging                                                              | Biology                                      |                                                                                                                                                                                                                                                      |
| Ball, Karlene K<br><a href="mailto:kball@uab.edu">kball@uab.edu</a>                          | Aging-related cognitive function                                                                       | Psychology                                   |                                                                                                                                                                                                                                                      |
| Benveniste, Etty<br><a href="mailto:tika@uab.edu">tika@uab.edu</a><br>Emeritus               | Immune/nervous system interactions                                                                     | Cell, Developmental and Integrative Biology  |                                                                                                                                                                                                                                                      |
| Bolding, Mark<br><a href="mailto:mbolding@uabmc.edu">mbolding@uabmc.edu</a>                  | Visual cognition, MRI, neuroimaging                                                                    | Radiology                                    |                                                                                                                                                                                                                                                      |
| Boockvar, Kenneth<br><a href="mailto:kboockvar@uabmc.edu">kboockvar@uabmc.edu</a>            | Improve care for frail, older people                                                                   | Gerontology, Geriatrics, and Palliative Care |                                                                                                                                                                                                                                                      |
| Bowen, Pamela<br><a href="mailto:pbowen@uab.edu">pbowen@uab.edu</a>                          | Exercise and physical activity                                                                         | Nursing                                      |                                                                                                                                                                                                                                                      |
| Bradley, Virginia Wadley<br><a href="mailto:vwadley@uab.edu">vwadley@uab.edu</a><br>Emeritus | Mild cognitive impairment, comorbid cerebrovascular disease                                            | Gerontology, Geriatrics, and Palliative Care |                                                                                                                                                                                                                                                      |
| Brenner, Michael<br><a href="mailto:michaelb@uab.edu">michaelb@uab.edu</a><br>Emeritus       | Glial Cell Biology, Alexander Disease                                                                  | Neurobiology                                 |                                                                                                                                                                                                                                                      |
| Buford, Thomas<br><a href="mailto:twbuford@uab.edu">twbuford@uab.edu</a>                     | Exercise and aging                                                                                     | Center for Exercise Medicine                 | <u>Pre-Doc</u><br>Fitz Dodds (Aging, head injuries, autonomic function)                                                                                                                                                                              |
| Crowe, Michael<br><a href="mailto:mgcrowe@uab.edu">mgcrowe@uab.edu</a>                       | Gerontology, Cognitive Aging and Dementia                                                              | Psychology                                   |                                                                                                                                                                                                                                                      |

|                                                                                              |                                                                                                                                                                                        |                                                |                                                                                     |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------|
| Knight, Amy<br><a href="mailto:ajknight@uabmc.edu">ajknight@uabmc.edu</a>                    | Behavioral health, stress management                                                                                                                                                   | Neurology                                      |                                                                                     |
| Knight, David C<br><a href="mailto:knighfdc@uab.edu">knighfdc@uab.edu</a>                    | Human imaging approach to investigating memory                                                                                                                                         | Psychology                                     |                                                                                     |
| Lahti, Adrienne<br><a href="mailto:alahti@uab.edu">alahti@uab.edu</a>                        | Neuroimaging                                                                                                                                                                           | Psychiatry and Behavioral Neurobiology         |                                                                                     |
| Landefeld, Seth<br><a href="mailto:sethlandefeld@uab.edu">sethlandefeld@uab.edu</a>          | Geriatrics and Health Care Research                                                                                                                                                    | Medicine                                       |                                                                                     |
| Lee, Junghee<br><a href="mailto:jungheele@uab.edu">jungheele@uab.edu</a>                     | Social Cognitive and Affective Neuroscience, Clinical Neuroscience                                                                                                                     | Psychiatry and Behavioral Neurobiology         |                                                                                     |
| Lester, Robin A J<br><a href="mailto:nicotine@uab.edu">nicotine@uab.edu</a>                  | Nicotinic receptors in CNS function                                                                                                                                                    | Neurobiology                                   |                                                                                     |
| Lokken, Kristine<br><a href="mailto:kristinelokken@uabmc.edu">kristinelokken@uabmc.edu</a>   | Clinical psychology, neuropsychology                                                                                                                                                   | Psychiatry and Behavioral Neurobiology         |                                                                                     |
| Lubin, Farah<br><a href="mailto:flubin@uab.edu">flubin@uab.edu</a>                           | Signal transduction mechanisms in memory and memory disorders                                                                                                                          | Neurobiology                                   | Post-Doc<br>Anna Schreiber (Epigenetics)<br>Pre-Doc<br>Ashleigh Irwin (Epigenetics) |
| Lucas, Elizabeth<br><a href="mailto:elizabethlucas@uabmc.edu">elizabethlucas@uabmc.edu</a>   | Behavioral Neuroendocrinology, Systems Neuroscience, Women's Mental Health                                                                                                             | Psychiatry and Behavioral Neurobiology         | Post-Doc<br>Nina Baumgartner (Sex differences, memory processes, and aging)         |
| Marson, Daniel C<br><a href="mailto:dmarson@uabmc.edu">dmarson@uabmc.edu</a><br>Emeritus     | Neuropsychology                                                                                                                                                                        | Neurology                                      |                                                                                     |
| Martin, Roy<br><a href="mailto:rmartin@uab.edu">rmartin@uab.edu</a>                          | Neuropsychology                                                                                                                                                                        | Neurology                                      |                                                                                     |
| McGregor, Keith<br><a href="mailto:kmmcgreg@uab.edu">kmmcgreg@uab.edu</a>                    | Aging-related declines in motor control and implications for stroke rehabilitation                                                                                                     | Department of Clinical and Diagnostic Sciences |                                                                                     |
| Mishra, Virendra<br><a href="mailto:virendrarmishra@uabmc.edu">virendrarmishra@uabmc.edu</a> | Developing and applying novel computational tools using machine learning and AI to identify biomarkers predicting dementia or cognitive decline due to aging and repeated head impacts | Radiology                                      | Pre-Doc<br>Krishna Bodempudi (Imaging)                                              |
| Parpura, Vladimir<br><a href="mailto:vlad@uab.edu">vlad@uab.edu</a>                          | Imaging approaches to investigating synaptic and glial cell function                                                                                                                   | Neurobiology                                   |                                                                                     |
| Powell, Craig M<br><a href="mailto:craigpow@uab.edu">craigpow@uab.edu</a>                    | Cognitive dysfunction                                                                                                                                                                  | Neurobiology                                   |                                                                                     |
| Pozzo-Miller, Lucas<br><a href="mailto:lucaspm@uab.edu">lucaspm@uab.edu</a>                  | Mechanisms controlling dendritic spine morphology                                                                                                                                      | Neurobiology                                   |                                                                                     |
| Roberson, Erik<br><a href="mailto:eroberson@uabmc.edu">eroberson@uabmc.edu</a>               | Age-related neurodegenerative disorders                                                                                                                                                | Neurology                                      |                                                                                     |
| Saag, Michael<br><a href="mailto:msaag@uabmc.edu">msaag@uabmc.edu</a>                        | Infectious diseases, Blood equality, Hepatitis, Antiretroviral                                                                                                                         | Infectious Diseases                            |                                                                                     |
| Standaert, David<br><a href="mailto:dstandaert@uab.edu">dstandaert@uab.edu</a>               | Aging, Neurodegeneration, Translational Neuroscience                                                                                                                                   | Neurology                                      |                                                                                     |

|                                                                                         |                                                                                    |              |                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Theibert, Anne<br><a href="mailto:theibert@uab.edu">theibert@uab.edu</a>                | PI-3 Kinase signal transduction in neuronal cell biology                           | Neurobiology |                                                                                                                                                                                        |
| Thyme, Summer B<br><a href="mailto:sthyme@uab.edu">sthyme@uab.edu</a>                   | Neuropsychiatric and neurodevelopmental disorders                                  | Neurobiology |                                                                                                                                                                                        |
| Tyrrell, Daniel<br><a href="mailto:danieltyrrell@uabmc.edu">danieltyrrell@uabmc.edu</a> | Age-related vascular changes promote cardiovascular and neurodegenerative diseases | Pathology    | <u>Pre-Doc</u><br>Md Akkas Ali (Immunity and Aging)                                                                                                                                    |
| Ubogu, Eroboghene<br><a href="mailto:ubogu@uab.edu">ubogu@uab.edu</a>                   | Inflammatory neuropathies                                                          | Neurology    |                                                                                                                                                                                        |
| Vance, David<br><a href="mailto:devance@uab.edu">devance@uab.edu</a>                    | Neuroplasticity, neurocognitive aging, neurocognitive remediation, aging with HIV  | Nursing      | <u>Pre-Doc</u><br>Alexandra Jacob (Aging, Cognition, and HIV)<br>Hathaichanok Phaowiriya (Aging, Cognition, and HIV)                                                                   |
| Visscher, Kristina M<br><a href="mailto:kmv@uab.edu">kmv@uab.edu</a>                    | Human imaging approaches to investigating memory                                   | Neurobiology | <u>Post-Doc</u><br>Pinar Demirayak (Vision and Aging)<br>Matt Defenderfer (Vision and Aging)<br><u>Pre-Doc</u><br>Elam Cutts (Vision and Aging)<br>Madeline Ragland (Vision and Aging) |
| Wadiche, Jacques<br><a href="mailto:jwadiche@uab.edu">jwadiche@uab.edu</a>              | Synaptic plasticity and function in the cerebellum                                 | Neurobiology |                                                                                                                                                                                        |
| Wadiche, Linda<br><a href="mailto:lwadiche@uab.edu">lwadiche@uab.edu</a>                | Adult neurogenesis in the dentate gyrus                                            | Neurobiology |                                                                                                                                                                                        |
| Wheeler, Pariya Fazeli<br><a href="mailto:plfazeli@uab.edu">plfazeli@uab.edu</a>        | Cognitive aging, gerontology                                                       | Nursing      |                                                                                                                                                                                        |
| Wilson, Scott<br><a href="mailto:livvy01@uab.edu">livvy01@uab.edu</a>                   | Ubiquitin/proteasome system in neuronal function                                   | Neurobiology |                                                                                                                                                                                        |

## Appendix 2 – Top 20 Publications

Top 20 publications for FY23 relevant to the MBRF.

Akinyelure OP, Jaeger BC, Oparil S, Carson AP, Safford MM, **Howard G**, Muntner P, Hardy ST. Social Determinants of Health and Uncontrolled Blood Pressure in a National Cohort of Black and White US Adults: the REGARDS Study. *Hypertension*. 2023 Jul;80(7):1403-1413. doi: 10.1161/HYPERTENSIONAHA.122.20219. Epub 2023 Apr 21. PMID: 37082942; PMCID: PMC10330022.

Andel R, Veal BM, **Howard VJ**, MacDonald LA, Judd SE, **Crowe M**. Retirement and cognitive aging in a racially diverse sample of older Americans. *J Am Geriatr Soc*. 2023 Sep;71(9):2769-2778. doi: 10.1111/jgs.18475. Epub 2023 Jul 19. PMID: 37465869; PMCID: PMC10526697.

Antoine LH, Tanner JJ, Mickle AM, Gonzalez CE, Kusko DA, Watts KA, Rumble DD, Buchanan TL, Sims AM, Staud R, Lai S, Deshpande H, Phillips B, **Buford TW**, Aroke EN, Redden DT, Fillingim RB, Goodin BR, Sibille KT. Greater socioenvironmental risk factors and higher chronic pain stage are associated with thinner bilateral temporal lobes. *Brain Behav*. 2023 Dec;13(12):e3330. doi: 10.1002/brb3.3330. Epub 2023 Nov 20. PMID: 37984835; PMCID: PMC10726852.

Baptista LC, Zumbro EL, Graham ZA, **Hernandez AR**, Buchanan T, Sun Y, Yang Y, Banerjee A, Verma A, Li Q, Carter CS, **Buford TW**. Multiomics profiling of the impact of an angiotensin (1-7)-expressing probiotic combined with exercise training in aged male rats. *J Appl Physiol* (1985). 2023 May 1;134(5):1135-1153. doi: 10.1152/jappphysiol.00508.2022. Epub 2023 Mar 9. PMID: 36892893; PMCID: PMC10125028.

Baumgartner NE, Biraud MC, **Lucas EK**. Sex differences in socioemotional behavior and changes in ventral hippocampal transcription across aging in C57Bl/6J mice. *Neurobiol Aging*. 2023 Oct;130:141-153. doi: 10.1016/j.neurobiolaging.2023.05.015. Epub 2023 Jun 26. PMID: 37524006; PMCID: PMC10629502.

Defenderfer MK, Demirayak P, Fleming LL, DeCarlo DK, Stewart P, **Visscher KM**. Cortical plasticity in central vision loss: Cortical thickness and neurite structure. *Hum Brain Mapp*. 2023 Jul;44(10):4120-4135. doi: 10.1002/hbm.26334. Epub 2023 May 17. PMID: 37195035; PMCID: PMC10258531.

**Del Bene VA**, **Geldmacher DS**, **Howard G**, Brown C, Turnipseed E, Fry TC, Jones KA, **Lazar RM**. A rationale and framework for addressing physician cognitive impairment. *Front Public Health*. 2023 Aug 25;11:1245770. doi: 10.3389/fpubh.2023.1245770. PMID: 37693707; PMCID: PMC10485616.

**Fazeli PL**, Hopkins C, **Vance DE**, Wadley V, Li P, Turan B, Wang DH, **Bowen PG**, Clay OJ. (2023). Cognitive prescriptions for reducing dementia risk factors among Black/African Americans: feasibility, acceptability, and preliminary efficacy. *Ethnicity & Health*. 2023;29:1,1-24, DOI: 10.1080/13557858.2023.2231669.

Freeman H, **Martin RC**, Whittington C, Zhang Y, Osborne JD, O'Leary T, Vickers JK, Flood KL, Skains RM, Markland AD, **Buford TW**, Brown CJ, **Kennedy RE**. Delirium Mediates Incidence of Hospital-Associated Disability Among Older Adults. *J Am Med Dir Assoc*. 2023 Apr;24(4):533-540.e9. doi: 10.1016/j.jamda.2023.02.006. Epub 2023 Mar 15. PMID: 36931323; PMCID: PMC10370492.



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## Appendix 3 – Top 10 Presentations

Top 10 presentations at scientific or public meetings for FY23 relevant to the MBRF.

**Austad, Steven.** Biology of Aging Symposium IV 2023: Toward the Biology of Healthy Longevity, Montreal, Canada.

**Boockvar, K.** “Prescribing for delirium prevention across care settings.” American Geriatrics Society Annual Meeting, Long Beach, CA.

**Gamble, Karen.** “Salty Secrets Unveiled: Exploring the Circadian Connection to High Salt Diets.” Gordon Research Conference on Chronobiology, Lewiston, ME.

**Hernandez, Abbi.** “The gut microbiome as a therapeutic target for cognitive aging and Alzheimer’s Disease.” Oklahoma Geroscience Symposium, Oklahoma City, OK.

**Lokken, K., Hansel Robinson, J., Kennedy, R., Vance, D. E., Lazar, R. M., Martin, R. C., Greenfield, M. J., Fazeli Wheeler, P., & Gerstenecker, A.** “Two dominant post-COVID subtypes in patients seeking treatment for “brain fog” through a post-COVID treatment clinic.” International Neuropsychological Society, San Diego, CA.

**Lubin, Farah.** “The role of the lncRNA Neat1 in memory formation and associated memory deficits with aging.” Session SYM12 - The Emerging Noncoding RNA-Centric Biology of Neuronal Plasticity and Its Disorders. Society for Neuroscience, Washington, DC.

**McGregor, K.M.,** Novak, T. S., Champion, G., Nocera, C. J. R. Symposium: Neurophysiological Mechanisms in Aging: Individual Differences and Response to Exercise. American Congress of Rehabilitation Medicine, Atlanta, GA.

Martinez-Amezcu, P., Dooley, E., Pompeii, L., Evenson, K. R., Rippon, B., Windham, B. G., Mosley, T., Schrack, J., **Pettee Gabriel, K.,** Palta, P. “Accelerometer-derived daily steps, cognition, and cognitive impairment in U.S. community-dwelling older adults: the Atherosclerosis Risk in Communities Study.” American Heart Association EPI|Lifestyle 2023, Boston, MA.

**Tyrrell, Daniel.** Advances in Aging, Immunity, and Chronic Inflammatory Diseases. Inflammation, aging, and cardiovascular disease. NIH Workshop, Advances in Aging, Immunity and Chronic Inflammatory Diseases. Bethesda, MD.

**Visscher, Kristina.** “Plasticity of cortical representation of central and peripheral vision.” Systems Vision Symposium, Tübingen Germany.

## Appendix 4 – Highlights of website, media, and social media

FY23 Highlights of website development, media coverage, and/or social media audience development.

- The UAB McKnight website received 5,560 hits in FY2023.
- **Dr. Lazar's** paper, "A Primary Care Agenda for Brain Health," first published online in March 2021, resulted in the following 2023 Altmetric Attention Scores and prominence:
  - In the top 5% of all research outputs scored by Altmetric.
  - High Attention Score compared to outputs of the same age (99th percentile).
  - High Attention Score compared to outputs of the same age and source (99th percentile).
  - 11,468 downloads
- **Lazar, Ronald.** "Personalized Brain Health." The Rotary, Birmingham Chapter, 5/2023.
- **Lazar, Ronald.** "Personalized Brain Health." UABMed Podcast. 6/2023.
- **Lazar, Ronald.** "Personalized Brain Health." UAB Alumni Society, Atlanta Chapter, 11/2023.
- **Lazar, Ronald.** "Personalized Brain Health." Neuroscience Café, Hoover, AL, 12/2023.
- **Bowen, Pamela.** "Bowen Receives Grant to Study Exercise, Brain Health Connection." UAB Research Matters, 9/6/2023.
- **Hernandez, Abbi.** "Metabolic interventions for cognitive resilience." The Metabolic Link Podcast.
- **McGregor, Keith.** Featured in "'Dr. Impossible' aims to bring brain tech to the people." UAB Reporter, 5/1/2023.
- **Vance, David.** "Mixed Results with Cognitive Training in HIV" (by Fran Lowry). Medscape, Monday, November 3, 2023. Mixed Results With Cognitive Training in HIV (medscape.com).
- **Wheeler, Pariya Fazeli.** Check out our recent article on #Health #Behavior #Intervention for #Black and #AfricanAmerican patients with high risks for #AlzheimersDisease. Click the link in the tweet below to read more! X, 7/31/2023.



## Evelyn F. McKnight Brain Institute Extramural Awards Summary

The Evelyn F. McKnight Brain Institute currently has active extramural awards of \$36,717,890 in direct awards and \$45,103,457 in total awards broken down as follows:

|                          | Direct            | Indirect         | Total             |
|--------------------------|-------------------|------------------|-------------------|
| Federal                  | 27,225,429        | 6,002,938        | 33,228,367        |
| Foundations Philanthropy | 2,240,666         | 322,574          | 2,563,240         |
| Industry                 | 713,459           | 214,080          | 927,539           |
| Institutions             | 5,000,857         | 1,798,668        | 6,799,525         |
| Misc Non-Federal         | 13,293            | 6,447            | 19,740            |
| NP Agency/Assoc          | 524,186           | 40,860           | 565,046           |
| State                    | 1,000,000         | -                | 1,000,000         |
| <b>Total</b>             | <b>36,717,890</b> | <b>8,385,567</b> | <b>45,103,457</b> |

A detailed report of grant awards is attached.

## Appendix 5 – Active Extramural Awards

| PI Name             | Project Title                                                                                                                                | Sponsor Name                                                           | Sponsor Type             | Project Start Date | Project End Date | Direct Awarded for Currently Active Increments | Indirect Awarded for Currently Active Increments | Total Awarded for Currently Active Increments |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------|--------------------|------------------|------------------------------------------------|--------------------------------------------------|-----------------------------------------------|
| Allendorfer, Jane B | Exercise for Memory Rehabilitation in Epilepsy                                                                                               | National Institute of Child Health and Human Development/NIH/DHHS      | Federal                  | 04/10/2021         | 03/31/2026       | 419,864                                        | 194,882                                          | 614,746                                       |
| Arrant, Andrew E    | Mechanisms of Thalamocortical Dysfunction and Social Deficits in FTD due to GRN Mutations                                                    | National Institute of Neurological Disorders and Stroke/NIH/DHHS       | Federal                  | 07/01/2022         | 06/30/2027       | 287,923                                        | 127,519                                          | 415,442                                       |
| Arrant, Andrew E    | Investigating the Role of Progranulin in Synucleinopathy                                                                                     | American Parkinson Disease Association                                 | NP Agency/Assoc          | 09/01/2023         | 08/31/2024       | 68,182                                         | 6,818                                            | 75,000                                        |
| Arthur, Edmund      | Quantifying Differences in the Retinal Peripheral Capillary Free Zones in Diabetic Retinopathy                                               | Association for Research in Vision and Ophthalmology                   | NP Agency/Assoc          | 02/13/2023         | 02/12/2025       | 50,000                                         | -                                                | 50,000                                        |
| Asif, Irfan M       | Value Based Medical Student Education Training Program                                                                                       | Health Resources and Services Administration/DHHS                      | Federal                  | 07/01/2020         | 06/30/2024       | 1,622,355                                      | 127,645                                          | 1,750,000                                     |
| Asif, Irfan M       | Non-Contact Vitals Monitoring for Potential COVID-19 Positive Patients                                                                       | SOUTHERN RESEARCH INSTITUTE                                            | Institutions             | 06/10/2021         | 06/09/2024       | -                                              | -                                                | -                                             |
| Asif, Irfan M       | Community Health Access and Rural Transformation (CHART) Model - Community Transformation Track                                              | Centers for Medicare and Medicaid Services/DHHS                        | Federal                  | 07/01/2021         | 06/30/2028       | -                                              | -                                                | -                                             |
| Asif, Irfan M       | Advancing CU2RE: The UAB Center for Excellence in Primary Care Education                                                                     | Health Resources and Services Administration/DHHS                      | Federal                  | 09/30/2023         | 06/30/2024       | 3,792,592                                      | 207,407                                          | 3,999,999                                     |
| Austad, Steven N    | Comparative Bioenergetics of Aging - Core A - Administrative Program Enrichment Core                                                         | National Institute on Aging/NIH/DHHS                                   | Federal                  | 09/15/2020         | 05/31/2025       | 170,848                                        | 82,861                                           | 253,709                                       |
| Austad, Steven N    | Comparative Bioenergetics of Aging - Core E - Comparative Data Analytics Core                                                                | National Institute on Aging/NIH/DHHS                                   | Federal                  | 09/15/2020         | 05/31/2025       | 119,233                                        | -                                                | 119,233                                       |
| Austad, Steven N    | A New Translational Rat Model for Evaluating Anti-aging Interventions                                                                        | BOARD OF TRUSTEES OF THE UNIVERSITY OF OKLAHOMA HEALTH SCIENCES CENTER | Institutions             | 07/15/2022         | 06/30/2024       | 87,500                                         | 42,438                                           | 129,938                                       |
| Ball, Karlene K     | Deep South Resource Center for Minority Aging Research (RCMAR) - Research Education Core (REC)                                               | National Institute on Aging/NIH/DHHS                                   | Federal                  | 09/01/2023         | 06/30/2028       | 234,560                                        | 16,829                                           | 251,389                                       |
| Ball, Karlene K     | Effect of Autonomous Assistance on Crew Member Performance, Situational Awareness, and Interaction in a Closed Hatched Simulated Environment | University of Michigan                                                 | Institutions             | 07/01/2023         | 12/31/2024       | 1,513,911                                      | 386,089                                          | 1,900,000                                     |
| Benveniste, Ety     | HSF-GEF Research Acceleration Award - Benveniste                                                                                             | UNIVERSITY OF ALABAMA HEALTH SERVICES FOUNDATION                       | Foundations Philanthropy | 09/01/2014         | 08/31/2027       | -                                              | -                                                | -                                             |
| Benveniste, Ety     | Innate and Adaptive Immunity in Parkinson Disease - Project 2: Validating the JAK/STAT Pathway as a Novel Therapeutic Strategy in PD         | National Institute of Neurological Disorders and Stroke/NIH/DHHS       | Federal                  | 09/30/2018         | 07/31/2024       | -                                              | -                                                | -                                             |

| PI Name           | Project Title                                                                                          | Sponsor Name                                                      | Sponsor Type     | Project Start Date | Project End Date | Direct Awarded for Currently Active Increments | Indirect Awarded for Currently Active Increments | Total Awarded for Currently Active Increments |
|-------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------|--------------------|------------------|------------------------------------------------|--------------------------------------------------|-----------------------------------------------|
| Boockvar, Kenneth | DEploying High ValuE LONgitudinal Population-Based dAta in Dementia Research (DEVELOP AD Research)     | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI                           | Institutions     | 12/01/2022         | 05/31/2023       | 56,376                                         | 27,342                                           | 83,718                                        |
| Boockvar, Kenneth | U.S. Deprescribing Research Network                                                                    | NORTHERN CALIFORNIA INSTITUTE FOR RESEARCH AND EDUCATION - NEW    | NP Agency/Assoc  | 12/01/2022         | 07/31/2023       | 21,793                                         | 10,570                                           | 32,363                                        |
| Bowen, Pamela G   | An Exercise Intervention to Improve Overall Brain Health                                               | MCCANCE CENTER FOR BRAIN HEALTH                                   | NP Agency/Assoc  | 02/01/2023         | 01/31/2025       | 65,255                                         | 13,051                                           | 78,306                                        |
| Buford, Thomas    | ACES - ACE Inhibitors Combined with Exercise for Hypertensive Seniors                                  | National Institute on Aging/NIH/DHHS                              | Federal          | 09/15/2017         | 05/31/2025       | -                                              | -                                                | -                                             |
| Buford, Thomas    | Interconnections Among Cognition, Pain, and Physical Function in Aging                                 | National Institute on Aging/NIH/DHHS                              | Federal          | 08/01/2020         | 05/31/2025       | 97,092                                         | 7,767                                            | 104,859                                       |
| Buford, Thomas    | Comparative Bioenergetics of Aging - Comparative Bioenergetics of Aging (Diversity Supplement)         | National Institute on Aging/NIH/DHHS                              | Federal          | 09/15/2020         | 05/31/2024       | 96,732                                         | 42,952                                           | 139,684                                       |
| Buford, Thomas    | Interdisciplinary Training in Pathobiology and Rehabilitation Medicine                                 | National Institute of Child Health and Human Development/NIH/DHHS | Federal          | 09/04/2012         | 04/30/2028       | 376,540                                        | 26,283                                           | 402,823                                       |
| Buford, Thomas    | ANG1-7 as an Intervention for Alzheimer's Disease.                                                     | National Institute on Aging/NIH/DHHS                              | Federal          | 02/01/2023         | 01/31/2025       | 175,762                                        | 20,879                                           | 196,641                                       |
| Buford, Thomas    | Reuniting the Brain and Body to Understand Cognitive Aging: The Nexus of Geroscience and Neuroscience. | MCKNIGHT BRAIN RESEARCH FOUNDATION                                | Misc Non-Federal | 05/01/2022         | 04/30/2024       | -                                              | -                                                | -                                             |
| Crowe, Michael    | Aging in Puerto Rico: Longitudinal Follow-Up of the PREHCO Study                                       | National Institute on Aging/NIH/DHHS                              | Federal          | 09/01/2019         | 04/30/2024       | 556,245                                        | 40,071                                           | 596,316                                       |
| Day, Jeremy J.    | Enhancer RNA Regulation of Experience-dependent Neuroepigenetic Processes                              | National Institute of Mental Health/NIH/DHHS                      | Federal          | 07/01/2018         | 03/31/2024       | -                                              | -                                                | -                                             |
| Day, Jeremy J.    | Amphetamine in Adolescence Disrupts Frontal Cortex Development                                         | McGill University                                                 | Misc Non-Federal | 09/30/2020         | 07/31/2025       | 13,293                                         | 6,447                                            | 19,740                                        |
| Day, Jeremy J.    | Reelin Signaling and Function in Cocaine Response                                                      | National Institute on Drug Abuse/NIH/DHHS                         | Federal          | 07/01/2021         | 04/30/2026       | 390,365                                        | 179,215                                          | 569,580                                       |
| Day, Jeremy J.    | Role of Gadd45b in Cocaine-driven Epigenetic and Behavioral Dynamics                                   | National Institute on Drug Abuse/NIH/DHHS                         | Federal          | 05/01/2022         | 03/31/2027       | 437,605                                        | 202,090                                          | 639,695                                       |
| Day, Jeremy J.    | Estradiol-mediated Gene Signatures in Hippocampal Memory                                               | National Institute of Mental Health/NIH/DHHS                      | Federal          | 05/09/2022         | 04/30/2024       | 96,832                                         | 7,747                                            | 104,579                                       |



| PI Name                | Project Title                                                                                                                                                                      | Sponsor Name                                                               | Sponsor Type             | Project Start Date | Project End Date | Direct Awarded for Currently Active Increments | Indirect Awarded for Currently Active Increments | Total Awarded for Currently Active Increments |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------|--------------------|------------------|------------------------------------------------|--------------------------------------------------|-----------------------------------------------|
| Day, Jeremy J.         | Leveraging Single-cell Epigenomics for Targeted Manipulation of Drug-activated Ensembles                                                                                           | McKnight Foundation                                                        | Foundations Philanthropy | 02/01/2022         | 01/31/2025       | 93,636                                         | 6,364                                            | 100,000                                       |
| Day, Jeremy J.         | Contributions of KCNQ2/3 Channels to Medium Spiny Neuron Excitability and Cocaine Reward                                                                                           | National Institute on Drug Abuse/NIH/DHHS                                  | Federal                  | 05/01/2023         | 04/30/2026       | 70,765                                         | -                                                | 70,765                                        |
| De Miranda, Briana     | The role of adaptive immune activation in solvent-induced Parkinson's neurodegeneration                                                                                            | DOD - ARMY MEDICAL RESEARCH ACQUISITION ACTIVITY                           | Federal                  | 08/01/2023         | 07/31/2026       | 172,420                                        | 77,440                                           | 249,860                                       |
| De Miranda, Briana     | Environmental Exposures Accelerate Senescence and Influence Parkinson's Neurodegeneration                                                                                          | Parkinson's Foundation                                                     | Foundations Philanthropy | 07/01/2023         | 06/30/2026       | 89,966                                         | 8,997                                            | 98,963                                        |
| De Miranda, Briana     | Cdk5 Inhibition as a Protective Mechanism Against Environmental Toxicant Induced Parkinson's Disease                                                                               | American Parkinson Disease Association                                     | NP Agency/Assoc          | 09/01/2023         | 08/31/2024       | 69,068                                         | 5,932                                            | 75,000                                        |
| Dobrunz, Lynn          | Effects of NPY on Hippocampal Circuit Function                                                                                                                                     | National Institute of Mental Health/NIH/DHHS                               | Federal                  | 07/15/2020         | 04/30/2025       | 452,610                                        | 206,615                                          | 659,225                                       |
| Dobrunz, Lynn          | Development and Validation of an NPY- Sensitive Microelectrode for Measuring NPY Release from Hippocampal                                                                          | UNIVERSIDAD ANA G MENDEZ - GURABO CAMPUS                                   | Institutions             | 09/21/2021         | 08/31/2024       | -                                              | -                                                | -                                             |
| Edwards, Lloyd J.      | Building and InnovatinG: Digital heAlth Technology and Analytics (BIGDATA) - Methodologic Core                                                                                     | National Institute of Arthritis & Musculoskeletal & Skin Diseases/NIH/DHHS | Federal                  | 09/15/2020         | 07/31/2024       | 156,478                                        | 69,463                                           | 225,941                                       |
| Edwards, Lloyd J.      | Carotid Revascularization and Medical Management for Asymptomatic Carotid Stenosis Trial - Hemodynamics (CREST-H)                                                                  | Columbia University                                                        | Institutions             | 08/01/2022         | 07/31/2027       | 62,784                                         | 30,450                                           | 93,234                                        |
| Edwards, Lloyd J.      | CREST-2 Statistical and Data Coordinating Center - (SDCC)                                                                                                                          | National Institute of Neurological Disorders and Stroke/NIH/DHHS           | Federal                  | 09/01/2022         | 08/31/2026       | 1,024,786                                      | 386,674                                          | 1,411,460                                     |
| Gabriel, Kelley Pettee | Leveraging the 24-Hour Movement Paradigm to Preserve Cognitive Function and Prevent Alzheimer's Disease: The Multi-Ethnic Study of Atherosclerosis (MESA) 24H-ACT Study            | Columbia University                                                        | Institutions             | 05/01/2021         | 04/30/2025       | 100,195                                        | 48,594                                           | 148,789                                       |
| Gabriel, Kelley Pettee | 24-hour Activity Cycles to Optimize Cognitive Resilience to Alzheimer's Disease in African Americans: The Jackson Heart Study                                                      | National Institute on Aging/NIH/DHHS                                       | Federal                  | 09/15/2020         | 05/31/2024       | 636,490                                        | 77,826                                           | 714,316                                       |
| Gabriel, Kelley Pettee | Young Adult and Midlife Transitions in Physical Activity and Sedentary Behavior with Heart Failure Risk and Progression: Coronary Artery Risk Development in Young Adults (CARDIA) | National Heart, Lung, and Blood Institute/NIH/DHHS                         | Federal                  | 08/01/2020         | 07/31/2024       | 796,660                                        | 142,186                                          | 938,846                                       |
| Gabriel, Kelley Pettee | The Role of 24-hour Activity Cycles in Preserving Cognitive Function and Preventing Alzheimer's Disease and Related Dementias                                                      | Columbia University                                                        | Institutions             | 06/01/2022         | 05/31/2025       | 796,660                                        | 142,186                                          | 938,846                                       |
| Gamble, Karen Lynnette | Circadian Dysfunction and Neurodegenerative Disease                                                                                                                                | National Institute of Neurological Disorders and Stroke/NIH/DHHS           | Federal                  | 04/01/2018         | 03/31/2024       | -                                              | -                                                | -                                             |

| PI Name                | Project Title                                                                                                                                                                                                                 | Sponsor Name                                                     | Sponsor Type | Project Start Date | Project End Date | Direct Awarded for Currently Active Increments | Indirect Awarded for Currently Active Increments | Total Awarded for Currently Active Increments |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------|--------------------|------------------|------------------------------------------------|--------------------------------------------------|-----------------------------------------------|
| Gamble, Karen Lynnette | The Nigral Molecular Clock and Vulnerability to Neurodegeneration                                                                                                                                                             | National Institute of Neurological Disorders and Stroke/NIH/DHHS | Federal      | 07/15/2018         | 04/30/2024       | -                                              | -                                                | -                                             |
| Gamlin, Paul D         | Development of AAV-CRISPR/CAS9-Based Therapies for Cone Rod Dystrophy                                                                                                                                                         | University of Florida^                                           | Institutions | 06/01/2019         | 05/31/2024       | -                                              | -                                                | -                                             |
| Gamlin, Paul D         | Engineering AAV For Safe and Efficient Gene Delivery To The Human Retina                                                                                                                                                      | University of Florida^                                           | Institutions | 09/01/2019         | 05/31/2024       | 140,753                                        | 68,265                                           | 209,018                                       |
| Gamlin, Paul D         | Neural Control of Choroidal Function                                                                                                                                                                                          | National Eye Institute/NIH/DHHS                                  | Federal      | 09/01/2023         | 04/30/2028       | 386,896                                        | 158,767                                          | 545,663                                       |
| Geldmacher, David      | A Placebo-controlled, Double-blind, Parallel-Group, Bayesian Adaptive Randomization Design and Dose Regimen-finding Study to Evaluate Safety, Tolerability and Efficacy of BAN2401 in Subjects With Early Alzheimer's Disease | EISAI, INC.                                                      | Industry     | 06/18/2013         | 06/17/2024       | -                                              | -                                                | -                                             |
| Geldmacher, David      | Innate and Adaptive Immunity in Parkinson Disease - Project 5: Innate and Adaptive Immunity in Lewy Body Dementia                                                                                                             | National Institute of Neurological Disorders and Stroke/NIH/DHHS | Federal      | 09/30/2018         | 07/31/2024       | -                                              | -                                                | -                                             |
| Geldmacher, David      | UAB Alzheimer's Disease Research Center - Clinical Core                                                                                                                                                                       | National Institute on Aging/NIH/DHHS                             | Federal      | 09/01/2020         | 07/31/2024       | -                                              | -                                                | -                                             |
| Geldmacher, David      | Global Alzheimer's Platform Trial-Ready Cohort for Preclinical/Prodromal Alzheimer's Disease                                                                                                                                  | University of Southern California                                | Institutions | 05/15/2019         | 04/30/2024       | -                                              | -                                                | -                                             |
| Geldmacher, David      | Phase 3b Open-Label, Multicenter, Safety Study of BIIB037 (aducanumab) in Subjects with Alzheimer's disease Who Had Previously Participated in the Aducanumab Studies 221AD103, 221AD301, 221AD302 and 221AD205               | BIOGEN MA INC                                                    | Industry     | 10/09/2014         | 10/08/2024       | 5,698                                          | 1,709                                            | 7,407                                         |
| Geldmacher, David      | Global Alzheimer's Platform Trial-Ready Cohort for Preclinical/Prodromal Alzheimer's Disease                                                                                                                                  | University of Southern California                                | Institutions | 05/15/2019         | 04/30/2024       | -                                              | -                                                | -                                             |
| Geldmacher, David      | A Randomized, Double-blind, Placebo-Controlled, Parallel-Group, Multicenter Study to Assess the Efficacy and Safety of JNJ-63733657, an Anti-tau Monoclonal Antibody, in Participants with Early Alzheimer's Disease          | JANSSEN RESEARCH & DEVELOPMENT, LLC                              | Industry     | 02/17/2021         | 02/05/2025       | 258,239                                        | 77,471                                           | 335,710                                       |
| Geldmacher, David      | Autoimmune Features of Neurodegenerative Disorders                                                                                                                                                                            | Columbia University                                              | Institutions | 08/01/2020         | 07/31/2024       | -                                              | -                                                | -                                             |

| PI Name                    | Project Title                                                                                                                                                                                                                      | Sponsor Name                                                      | Sponsor Type             | Project Start Date | Project End Date | Direct Awarded for Currently Active Increments | Indirect Awarded for Currently Active Increments | Total Awarded for Currently Active Increments |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------|--------------------|------------------|------------------------------------------------|--------------------------------------------------|-----------------------------------------------|
| Geldmacher, David          | SEMA4D Blockade Safety and Brain Metabolic Activity in Activity in Alzheimer's Disease (AD): A Multi-Center, Randomized, Double-Blind, Placebo-Controlled Safety and Biomarker Study of Pepinemab Anti-SEMA4D Antibody in Early-AD | VACCINEX, INC.                                                    | Industry                 | 10/07/2022         | 10/06/2024       | 87,343                                         | 26,203                                           | 113,546                                       |
| Geldmacher, David          | Alzheimer's Disease Neuroimaging Initiative (ADNI 4)                                                                                                                                                                               | University of Southern California                                 | Institutions             | 09/15/2022         | 07/31/2024       | 266,193                                        | 129,104                                          | 395,297                                       |
| Geldmacher, David          | Combination Anti-Amyloid Therapy for Preclinical Alzheimer's Disease                                                                                                                                                               | University of Southern California                                 | Institutions             | 06/01/2022         | 05/31/2024       | 8,418                                          | 4,082                                            | 12,500                                        |
| Geldmacher, David          | Diverse VCID: White Matter Lesion Etiology of Dementia in Diverse Populations                                                                                                                                                      | University of California, Davis                                   | Institutions             | 09/01/2022         | 08/31/2026       | 79,500                                         | 38,558                                           | 118,058                                       |
| Geldmacher, David          | Alzheimer's Clinical Trials Consortium (ACTC) (U24)                                                                                                                                                                                | University of Southern California                                 | Institutions             | 09/15/2023         | 08/31/2024       | 222,366                                        | 107,848                                          | 330,214                                       |
| Gerstenecker, Adam         | Investigating the Impact of Cognition on Capacity in Multiple Sclerosis                                                                                                                                                            | National Institute of Child Health and Human Development/NIH/DHHS | Federal                  | 09/12/2018         | 02/29/2024       | -                                              | -                                                | -                                             |
| Goldberg, Matthew S        | Efficacy of Parkin Gene Delivery Towards Mitigation of aSyn PFF-induced Degeneration                                                                                                                                               | Fox (Michael J.) Foundation for Parkinson's Research              | Foundations Philanthropy | 09/20/2022         | 09/19/2024       | 21,858                                         | 3,279                                            | 25,137                                        |
| Goldberg, Matthew S        | Advancing Biological Understanding of PINK1 and Parkin Mouse and Rat Models of PD                                                                                                                                                  | Fox (Michael J.) Foundation for Parkinson's Research              | Foundations Philanthropy | 01/01/2023         | 12/31/2024       | 151,729                                        | 22,759                                           | 174,488                                       |
| Gray, Michelle             | Exploring the Contribution of Astrocytes to Huntington Disease                                                                                                                                                                     | National Institute of Neurological Disorders and Stroke/NIH/DHHS  | Federal                  | 08/01/2015         | 06/30/2025       | 355,145                                        | 159,143                                          | 514,288                                       |
| Gray, Michelle             | Connexin 43 Modulates Regulated Exocytosis                                                                                                                                                                                         | National Institute of General Medical Sciences/NIH/DHHS           | Federal                  | 06/01/2022         | 05/31/2024       | -                                              | -                                                | -                                             |
| Gross Gutierrez, Alecia K. | Photoreceptor Disk Formation and Retinal Degenerations                                                                                                                                                                             | National Eye Institute/NIH/DHHS                                   | Federal                  | 02/25/2020         | 02/24/2025       | -                                              | -                                                | -                                             |
| Gross Gutierrez, Alecia K. | Photoreceptor Disk Formation and Retinal Degenerations                                                                                                                                                                             | National Eye Institute/NIH/DHHS                                   | Federal                  | 09/01/2020         | 05/31/2024       | 316,787                                        | 139,847                                          | 456,634                                       |
| Hernandez, Abigail L       | Influence of Gut on Metabolism and Cognition in Alzheimer's Disease                                                                                                                                                                | NIH - National Institutes of Health/DHHS                          | Federal                  | 09/01/2022         | 07/31/2026       | 167,650                                        | 81,310                                           | 248,960                                       |
| Hernandez, Caesar          | The Impact of Normative Aging and Alzheimer's Disease on Fear Based Disorders and Amygdala Dysfunction                                                                                                                             | National Institute on Aging/NIH/DHHS                              | Federal                  | 08/01/2023         | 07/31/2026       | 175,861                                        | 73,138                                           | 248,999                                       |
| Herskowitz, Jeremy H       | Identifying Therapeutic Targets That Confer Synaptic Resilience to Alzheimer's Disease                                                                                                                                             | National Institute on Aging/NIH/DHHS                              | Federal                  | 09/30/2018         | 04/30/2024       | -                                              | -                                                | -                                             |

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|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Day, Jeremy<br><a href="mailto:jjday@uab.edu">jjday@uab.edu</a>                                    | Epigenetic mechanisms in memory formation                                 | Neurobiology                                 |                                                                                                             |
| De Miranda, Briana<br><a href="mailto:brianademiranda@uabmc.edu">brianademiranda@uabmc.edu</a>     | Environmental toxicants                                                   | Neurology                                    |                                                                                                             |
| Del Bene, Victor<br><a href="mailto:vdelbene@uab.edu">vdelbene@uab.edu</a>                         | Cognitive impairment, dystonia, deep brain stimulation                    | Neurology                                    |                                                                                                             |
| Dobrunz, Lynn<br><a href="mailto:dobrunz@uab.edu">dobrunz@uab.edu</a>                              | Regulation of short-term synaptic plasticity in the hippocampus           | Neurobiology                                 |                                                                                                             |
| Edwards, Lloyd J<br><a href="mailto:ljedward@uab.edu">ljedward@uab.edu</a>                         | Longitudinal data analysis, health disparities                            | Biostatistics                                |                                                                                                             |
| Gabriel, Kelley Pettee<br><a href="mailto:gabrielk@uab.edu">gabrielk@uab.edu</a>                   | Physical activity and chronic disease epidemiology                        | Epidemiology                                 |                                                                                                             |
| Gamble, Karen<br><a href="mailto:karengamble@uabmc.edu">karengamble@uabmc.edu</a>                  | Environmental modulation of circadian clock function in mammalian system  | Psychiatry and Behavioral Neurobiology       | Post-Doc<br>Ruan Macedo de Moraes (Circadian Rhythms)<br>Pre-Doc<br>Alana Colafrancesco (Circadian Rhythms) |
| Gamlin, Paul<br><a href="mailto:pgamlin@uab.edu">pgamlin@uab.edu</a>                               | Cell biology and systems neuroscience of vision and visual disorders      | Ophthalmology                                |                                                                                                             |
| Gavin, Cristin<br><a href="mailto:cfgavin@uab.edu">cfgavin@uab.edu</a>                             | Cellular and molecular mechanisms of structural and functional plasticity | Neurobiology                                 |                                                                                                             |
| Geldmacher, David<br><a href="mailto:dgeldmacher@uabmc.edu">dgeldmacher@uabmc.edu</a>              | Aging-related memory disorders and visual cognition                       | Neurology                                    |                                                                                                             |
| Gerstenecker, Adam<br><a href="mailto:atgers@uab.edu">atgers@uab.edu</a>                           | Functional activity, decisional capacity, cognitive impairment dementia   | Neurology                                    |                                                                                                             |
| Goldberg, Matthew S<br><a href="mailto:mattgoldberg@uabmc.edu">mattgoldberg@uabmc.edu</a>          | Mechanisms of neurodegeneration                                           | Neurology                                    |                                                                                                             |
| Gray, Michelle<br><a href="mailto:mccgray@uab.edu">mccgray@uab.edu</a>                             | Neurogenetics, glial function, Huntington's disease                       | Neurology                                    |                                                                                                             |
| Gross Gutierrez, Alecia K<br><a href="mailto:agross@uab.edu">agross@uab.edu</a>                    | Signal transduction mechanisms in the CNS                                 | Neurobiology                                 |                                                                                                             |
| Hernandez, Abbi<br><a href="mailto:abigailhernandez@uabmc.edu">abigailhernandez@uabmc.edu</a>      | Diet, gut microbiome, and cognition and age-related disease               | Gerontology, Geriatrics, and Palliative Care |                                                                                                             |
| Hernandez, Caesar<br><a href="mailto:caesarmh@uab.edu">caesarmh@uab.edu</a>                        | Intersection of neuropsychiatric disorder and trajectories of aging       | Gerontology, Geriatrics, and Palliative Care | Pre-Doc<br>Macy McCuiston (Neuroengineering)                                                                |
| Herskowitz, Jeremy H<br><a href="mailto:jeremyherskowitz@uabmc.edu">jeremyherskowitz@uabmc.edu</a> | Amyloid beta effects on neurons                                           | Neurology                                    |                                                                                                             |
| Howard, George<br><a href="mailto:ghoward@uab.edu">ghoward@uab.edu</a>                             | Stroke and aging                                                          | Biostatistics                                |                                                                                                             |
| Howard, Virginia<br><a href="mailto:vjhoward@uab.edu">vjhoward@uab.edu</a>                         | Cardiovascular disease, stroke, and aging                                 | Epidemiology                                 |                                                                                                             |
| Jones, Raymond<br><a href="mailto:raymondjones@uabmc.edu">raymondjones@uabmc.edu</a>               | Vascular morbidities and heart-brain connection                           | Gerontology, Geriatrics, and Palliative      |                                                                                                             |
| Kennedy, Richard E<br><a href="mailto:rekenned@uab.edu">rekenned@uab.edu</a>                       | Aging                                                                     | Gerontology, Geriatrics, and Palliative      |                                                                                                             |

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|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|--------------|--------------------|------------------|------------------------------------------------|--------------------------------------------------|-----------------------------------------------|
| Herskowitz, Jeremy H | Tau-mediated Synaptic Dysfunction in Age-related Neurodegenerative Diseases                                                                  | National Institute on Aging/NIH/DHHS                              | Federal      | 09/07/2023         | 08/31/2025       | 40,703                                         | -                                                | 40,703                                        |
| Herskowitz, Jeremy H | Systems Genetic Analysis of Cognitive Resilience Using Multi-Parent Crosses                                                                  | University of Michigan                                            | Institutions | 08/15/2023         | 08/31/2028       | 185,223                                        | 89,833                                           | 275,056                                       |
| Howard, George       | Long-Term Observational Extension of Participants in the CREST-2 Randomized Clinical Trial                                                   | MAYO CLINIC                                                       | Institutions | 09/01/2021         | 08/31/2026       | 254,239                                        | 123,305                                          | 377,544                                       |
| Howard, George       | Carolina Consortium to Improve Blood Pressure Control in Vulnerable Populations                                                              | EAST CAROLINA UNIVERSITY                                          | Institutions | 11/01/2022         | 10/31/2024       | 42,918                                         | -                                                | 42,918                                        |
| Howard, George       | A Longitudinal Cohort Study to Evaluate Cardiovascular Risk Factors and Disease in Haiti -2                                                  | Weill (Joan and Sanford I.) Medical College of Cornell University | Institutions | 08/25/2023         | 06/30/2028       | 12,955                                         | 6,283                                            | 19,238                                        |
| Howard, Virginia J   | Cerebral Small Vessel Disease Burden and Racial Disparity in Vascular Cognitive Impairment and Alzheimer's Disease and its Related Dementias | University of Cincinnati                                          | Institutions | 09/15/2021         | 05/31/2026       | 290,085                                        | 140,691                                          | 430,776                                       |
| Howard, Virginia J   | Precursors of Stroke Incidence and Prognosis                                                                                                 | BOSTON UNIVERSITY MEDICAL CAMPUS                                  | Institutions | 09/09/2023         | 08/31/2028       | 254,551                                        | 109,877                                          | 364,428                                       |
| Howard, Virginia J   | Structural Racism and Biological Embodiment of Risk in Breast Cancer Mortality                                                               | Duke University                                                   | Institutions | 09/23/2022         | 08/31/2027       | 39,727                                         | 19,268                                           | 58,995                                        |
| Howard, Virginia J   | Advancing the Study of Stroke in Women Through the Integration of Basic, Clinical, and Socioeconomic Perspectives                            | National Institute of Neurological Disorders and Stroke/NIH/DHHS  | Federal      | 09/11/2023         | 07/31/2024       | 28,733                                         | -                                                | 28,733                                        |
| Kennedy, Richard E.  | In Silico Screening of Medications for Slowing Alzheimer's Disease Progression                                                               | National Institute on Aging/NIH/DHHS                              | Federal      | 09/15/2017         | 03/31/2024       | -                                              | -                                                | -                                             |
| Kennedy, Richard E.  | Automating Delirium Identification and Risk Prediction in Electronic Health Records                                                          | National Institute on Aging/NIH/DHHS                              | Federal      | 02/15/2019         | 12/31/2024       | -                                              | -                                                | -                                             |
| Kennedy, Richard E.  | Comprehensive Assessment of Delirium Risk due to Medications                                                                                 | National Institute on Aging/NIH/DHHS                              | Federal      | 12/01/2023         | 11/30/2025       | 150,000                                        | 64,990                                           | 214,990                                       |
| Kennedy, Richard E.  | Kennedy Tusc IPA                                                                                                                             | TUSCALOOSA VA MEDICAL CENTER                                      | Federal      | 07/06/2023         | 07/06/2025       | 25,097                                         | -                                                | 25,097                                        |
| Lahti, Adrienne C.   | Predoxal Training in Multifaceted Translational Approach to Mental Illness                                                                   | National Institute of Mental Health/NIH/DHHS                      | Federal      | 06/01/2023         | 05/31/2028       | 78,798                                         | 5,191                                            | 83,989                                        |
| Lazar, Ronald M      | Genetic Contribution to Brain Arterial Dilatation and its Role in Cognition and Dementia                                                     | Columbia University                                               | Institutions | 08/15/2018         | 04/30/2024       | -                                              | -                                                | -                                             |

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| Lazar, Ronald M     | Arcadia CSI (Cognition and Silent Infarcts)                                                                                                                                            | Stanford University                                              | Institutions     | 07/01/2019         | 06/30/2024       | 181,656                                        | 88,103                                           | 269,759                                       |
| Lazar, Ronald M     | The Effect of Vascular Risk Factors on Risk of Alzheimer's Disease and Related Dementias after Stroke (STROKE COG)                                                                     | University of Michigan                                           | Institutions     | 09/01/2020         | 08/31/2024       | 41,278                                         | 20,020                                           | 61,298                                        |
| Lazar, Ronald M     | Improving Age-Related Cognitive Decline with Exercise in Hypertensive Older Adults: A Pilot Study to Investigate A Retinal Microvascular Biomarker and the Role of IGF                 | MCKNIGHT BRAIN RESEARCH FOUNDATION                               | Misc Non-Federal | 05/01/2021         | 04/30/2024       | -                                              | -                                                | -                                             |
| Lazar, Ronald M     | Carotid Revascularization and Medical Management for Asymptomatic Carotid Stenosis Trial - Hemodynamics (CREST-H) CR                                                                   | Columbia University                                              | Institutions     | 08/01/2022         | 07/31/2027       | 26,525                                         | 12,866                                           | 39,391                                        |
| Lee, Junghee        | Disrupted Social Preference in Early Psychosis: A Longitudinal Multimodal Neuroimaging Study                                                                                           | National Institute of Mental Health/NIH/DHHS                     | Federal          | 03/01/2020         | 02/29/2024       | -                                              | -                                                | -                                             |
| Lee, Junghee        | Determining the Role of Social Reward Learning in Social Anhedonia in first-episode Psychosis using Motivational Interviewing as a Probe in a Perturbation-based Neuroimaging Approach | National Institute of Mental Health/NIH/DHHS                     | Federal          | 01/01/2023         | 10/31/2027       | 557,407                                        | 104,967                                          | 662,374                                       |
| Lubin, Farah D      | UAB Neuroscience Roadmap Scholars Program                                                                                                                                              | National Institute of Neurological Disorders and Stroke/NIH/DHHS | Federal          | 09/30/2014         | 07/31/2025       | 250,000                                        | 20,000                                           | 270,000                                       |
| Lubin, Farah D      | Long Non-coding RNA Regulation in Astrocytes Within the Aging Brain                                                                                                                    | National Institute on Aging/NIH/DHHS                             | Federal          | 04/15/2021         | 03/31/2026       | 250,000                                        | 121,250                                          | 371,250                                       |
| Lubin, Farah D      | UAB Research Training Program in Neurobiology of Cognition and Cognitive Disorders                                                                                                     | National Institute of Neurological Disorders and Stroke/NIH/DHHS | Federal          | 07/01/2008         | 06/30/2028       | 291,194                                        | 17,648                                           | 308,842                                       |
| Lubin, Farah D      | The Role of lncRNA Neat1 in Alzheimer's Disease and Related Memory Deficits                                                                                                            | National Institute on Aging/NIH/DHHS                             | Federal          | 04/15/2023         | 03/31/2028       | 450,094                                        | 207,016                                          | 657,110                                       |
| Lucas, Elizabeth    | A Sex-Specific Circuit for Emotional Memory                                                                                                                                            | National Institute of Mental Health/NIH/DHHS                     | Federal          | 10/01/2022         | 03/31/2025       | 240,154                                        | 116,475                                          | 356,629                                       |
| Mishra, Virendra R. | Towards Generating a Multimodal and Multivariate Classification Model from Imaging and Non-Imaging Measures for Accurate Diagnosis and Monitoring of Dementia in Parkinsons Disease    | National Institute of Neurological Disorders and Stroke/NIH/DHHS | Federal          | 09/01/2020         | 06/30/2025       | 1,047,794                                      | 406,728                                          | 1,454,522                                     |
| Powell, Craig M.    | Molecular and Cellular Basis of Neurodevelopmental Disorders                                                                                                                           | National Institute of Mental Health/NIH/DHHS                     | Federal          | 03/10/2020         | 01/31/2025       | 445,872                                        | 209,106                                          | 654,978                                       |
| Powell, Craig M.    | Preliminary Functional Studies of an Understudied NDD Gene in Mice                                                                                                                     | National Institute of Mental Health/NIH/DHHS                     | Federal          | 07/01/2023         | 06/30/2024       | 100,000                                        | 48,500                                           | 148,500                                       |

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|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------|--------------------|------------------|------------------------------------------------|--------------------------------------------------|-----------------------------------------------|
| Powell, Craig M.      | Contract 36C24723P0936 and Purchase Order (PO) 521-D37114                                                                                                                                                                              | VETERANS ADMINISTRATION                                          | Federal                  | 06/13/2023         | 06/12/2027       | 4,800                                          | -                                                | 4,800                                         |
| Pozzo-Miller, Lucas D | Role of The Hippocampal-mPFC Pathway in Social Memory Deficits in Autism                                                                                                                                                               | National Institute of Mental Health/NIH/DHHS                     | Federal                  | 04/01/2019         | 01/31/2024       | -                                              | -                                                | -                                             |
| Pozzo-Miller, Lucas D | The Role of CHD7 in ACC Neurons                                                                                                                                                                                                        | MEDICAL COLLEGE OF GEORGIA                                       | Institutions             | 09/07/2022         | 07/31/2027       | -                                              | -                                                | -                                             |
| Roberson, Erik        | Toward Therapeutic Approaches to TREM2-R47H in Alzheimer's Disease                                                                                                                                                                     | Alzheimer's Drug Discovery Foundation                            | Foundations Philanthropy | 04/01/2019         | 03/31/2024       | -                                              | -                                                | -                                             |
| Roberson, Erik        | A Phase II/III Randomized, Double-Blind, Placebo-Controlled, Cognitive Endpoint, Multicenter Study of Potential Disease Modifying Therapies in Individuals at Risk for and with Dominantly Inherited Alzheimer's Disease ("Protocol"). | Washington University                                            | Institutions             | 07/01/2018         | 05/31/2024       | -                                              | -                                                | -                                             |
| Roberson, Erik        | UAB Alzheimer's Disease Research Center - Admin Core                                                                                                                                                                                   | National Institute on Aging/NIH/DHHS                             | Federal                  | 09/01/2020         | 07/31/2024       | -                                              | -                                                | -                                             |
| Roberson, Erik        | The Progranulin C-Terminal Domain and AAV-Progranulin Gene Therapy for Frontotemporal Dementia                                                                                                                                         | National Institute on Aging/NIH/DHHS                             | Federal                  | 09/01/2020         | 08/31/2024       | 48,740                                         | -                                                | 48,740                                        |
| Roberson, Erik        | The Cause and Effect of Reduced $\beta$ -glucocerebrosidase Activity in the Setting of Progranulin Deficiency                                                                                                                          | National Institute on Aging/NIH/DHHS                             | Federal                  | 07/01/2021         | 06/30/2025       | 49,176                                         | -                                                | 49,176                                        |
| Roberson, Erik        | ARTFL LEFFTDS Longitudinal Frontotemporal Lobar Degeneration (ALLFTD) - Clinical Core                                                                                                                                                  | MAYO CLINIC                                                      | Institutions             | 09/15/2019         | 06/30/2024       | -                                              | -                                                | -                                             |
| Roberson, Erik        | Circadian Changes in Network Excitability and Alzheimer Disease Pathogenesis                                                                                                                                                           | National Institute on Aging/NIH/DHHS                             | Federal                  | 09/15/2021         | 05/31/2026       | 543,414                                        | 239,908                                          | 783,322                                       |
| Roberson, Erik        | UAB Training Program in Neurodegeneration                                                                                                                                                                                              | National Institute of Neurological Disorders and Stroke/NIH/DHHS | Federal                  | 07/01/2017         | 06/30/2027       | 199,293                                        | 12,762                                           | 212,055                                       |
| Roberson, Erik        | Cross Sectional and Longitudinal Racial Disparity in Molecular Biomarkers of Alzheimer Disease                                                                                                                                         | Washington University                                            | Institutions             | 04/01/2022         | 03/31/2023       | 111,784                                        | 54,216                                           | 166,000                                       |
| Roberson, Erik        | Alzheimer's Gut Microbiome Project                                                                                                                                                                                                     | Duke University                                                  | Institutions             | 09/01/2021         | 08/31/2022       | 25,000                                         | 12,125                                           | 37,125                                        |
| Roberson, Erik        | Omic Profiling of Vulnerable Synapses in Age-Related Neurodegeneration                                                                                                                                                                 | National Institute on Aging/NIH/DHHS                             | Federal                  | 09/01/2020         | 03/31/2027       | 65,950                                         | 5,276                                            | 71,226                                        |
| Saag, Michael S       | Determinants and Outcomes of Nicotine Metabolism Ratoin in HIV + Smokers                                                                                                                                                               | University of Pennsylvania                                       | Institutions             | 02/10/2020         | 01/31/2024       | -                                              | -                                                | -                                             |

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|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------|--------------------|------------------|------------------------------------------------|--------------------------------------------------|-----------------------------------------------|
| Saag, Michael S         | Genes, Substance use, and HIV Outcomes in People Living with HIV Across the US                                                                                                                                                                        | UNIVERSITY OF WASHINGTON                                         | Institutions             | 06/01/2019         | 02/29/2024       | -                                              | -                                                | -                                             |
| Saag, Michael S         | CFAR Network of Integrated Clinical Systems (CNICS)                                                                                                                                                                                                   | National Institute of Allergy and Infectious Diseases/NIH/DHHS   | Federal                  | 09/01/2021         | 08/31/2026       | 5,889,523                                      | 519,789                                          | 6,409,312                                     |
| Saag, Michael S         | Genetic Predisposition and Pharmacogenomics of HIV-Associated Cognitive Impairment - Supplement                                                                                                                                                       | ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI                          | Institutions             | 07/01/2023         | 06/30/2024       | 35,000                                         | 16,975                                           | 51,975                                        |
| Standaert, David George | APDA Advanced Center for Parkinson Disease Research at UAB                                                                                                                                                                                            | American Parkinson Disease Association                           | NP Agency/Assoc          | 09/01/2008         | 08/31/2024       | 100,000                                        | -                                                | 100,000                                       |
| Standaert, David George | UAB Cannabidiol Program                                                                                                                                                                                                                               | ALABAMA DEPARTMENT OF COMMERCE                                   | State                    | 04/01/2014         | 06/30/2024       | -                                              | -                                                | -                                             |
| Standaert, David George | Innate and Adaptive Immunity in Parkinson Disease - Core A: Administrative Core                                                                                                                                                                       | National Institute of Neurological Disorders and Stroke/NIH/DHHS | Federal                  | 09/30/2018         | 07/31/2024       | -                                              | -                                                | -                                             |
| Standaert, David George | Innate and Adaptive Immunity in Parkinson Disease - Project 1: Role of Innate Immune Cells in Human Parkinson Disease                                                                                                                                 | National Institute of Neurological Disorders and Stroke/NIH/DHHS | Federal                  | 09/30/2018         | 07/31/2024       | -                                              | -                                                | -                                             |
| Standaert, David George | Innate and Adaptive Immunity in Parkinson Disease - Project 3: LRRK2 Mediated Macrophage Responses in PD                                                                                                                                              | National Institute of Neurological Disorders and Stroke/NIH/DHHS | Federal                  | 09/30/2018         | 07/31/2024       | -                                              | -                                                | -                                             |
| Standaert, David George | The Edmond J. Safra Fellowship in Movement Disorders 2019 Program                                                                                                                                                                                     | Fox (Michael J.) Foundation for Parkinson's Research             | Foundations Philanthropy | 07/01/2019         | 06/30/2026       | 8,441                                          | -                                                | 8,441                                         |
| Standaert, David George | Alabama Project on Alzheimer Disease and Related Disorders                                                                                                                                                                                            | ALABAMA INNOVATION FUND                                          | State                    | 10/01/2020         | 09/30/2022       | 1,000,000                                      | -                                                | 1,000,000                                     |
| Standaert, David George | An Open-Label Extension of Study M15-741 to Evaluate The Safety and Tolerability of 24-hour Daily Exposure of Continuous Subcutaneous Infusion of ABBV-951 in Subjects with Parkinson's Disease                                                       | ABBVIE INC                                                       | Industry                 | 11/16/2020         | 11/15/2024       | 110,309                                        | 33,092                                           | 143,401                                       |
| Standaert, David George | A Phase 1B, Adaptive, Multi-Center, Randomized, Double Blind, Placebo-Controlled, Parallel Design Study to Investigate the Safety, Tolerability, Pharmacokinetics and Pharmacodynamics of RO7486967 in Participants with Early Idiopathic Parkinson's | Genentech                                                        | Industry                 | 06/08/2022         | 02/29/2024       | 251,122                                        | 75,336                                           | 326,458                                       |
| Standaert, David George | The Edmond J. Safra Visiting Nurse Faculty Program at Parkinson's Foundation                                                                                                                                                                          | National Parkinson Foundation, Inc.                              | Foundations Philanthropy | 10/03/2022         | 10/02/2024       | -                                              | -                                                | -                                             |
| Standaert, David George | Global Parkinson's Genetics Program Clinical Contribution Agreement                                                                                                                                                                                   | Fox (Michael J.) Foundation for Parkinson's Research             | Foundations Philanthropy | 11/02/2022         | 11/01/2028       | -                                              | -                                                | -                                             |



| PI Name                 | Project Title                                                                                                                                                                                                  | Sponsor Name                                                     | Sponsor Type             | Project Start Date | Project End Date | Direct Awarded for Currently Active Increments | Indirect Awarded for Currently Active Increments | Total Awarded for Currently Active Increments |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------|--------------------|------------------|------------------------------------------------|--------------------------------------------------|-----------------------------------------------|
| Standaert, David George | Patient Experience with ABBV-951 for treatment of Advanced Parkinson's Disease (aPD)                                                                                                                           | ABBVIE INC                                                       | Industry                 | 12/29/2022         | 12/28/2027       | 748                                            | 269                                              | 1,017                                         |
| Standaert, David George | APDA Information and Referral Center at University of Alabama at Birmingham                                                                                                                                    | American Parkinson Disease Association                           | NP Agency/Assoc          | 01/01/2023         | 08/31/2024       | 75,000                                         | -                                                | 75,000                                        |
| Standaert, David George | The Parkinson's Progression Markers Initiative (PPMI) 2.0 Clinical - Establishing a Deeply Phenotyped PD Cohort                                                                                                | Fox (Michael J.) Foundation for Parkinson's Research             | Foundations Philanthropy | 09/09/2021         | 09/08/2034       | 1,703,494                                      | 255,444                                          | 1,958,938                                     |
| Standaert, David George | Longitudinal 18F-DPA-714 Imaging in a Parkinson Disease Cohort                                                                                                                                                 | Fox (Michael J.) Foundation for Parkinson's Research             | Foundations Philanthropy | 10/01/2023         | 09/30/2024       | 171,542                                        | 25,731                                           | 197,273                                       |
| Thyme, Summer B.        | New Algorithms for In Silico Discovery of Small Molecule Drugs Targeting Schizophrenia-Associated Genes                                                                                                        | ALKERMES, INC.                                                   | Industry                 | 07/01/2021         | 06/30/2024       | -                                              | -                                                | -                                             |
| Thyme, Summer B.        | Role of VRK2 Kinase in Brain Development and Function                                                                                                                                                          | National Center for Advancing Translational Sciences/NIH/DHHS    | Federal                  | 06/01/2022         | 05/31/2024       | -                                              | -                                                | -                                             |
| Tyrell, Daniel J        | Cerebrovascular Mitochondrial Function in Aging and Ischemic Injury                                                                                                                                            | National Institute on Aging/NIH/DHHS                             | Federal                  | 04/01/2021         | 08/31/2025       | 166,668                                        | 80,834                                           | 247,502                                       |
| Ubogu, Eroboghene E.    | Validation of Fibroblast-Derived PI16 As A Novel Target for Pain Treatment                                                                                                                                     | UNIVERSITY OF TEXAS (M.D. ANDERSON CANCER CENTER)                | Institutions             | 09/30/2020         | 08/31/2024       | 82,125                                         | 39,829                                           | 121,954                                       |
| Ubogu, Eroboghene E.    | Open-Label Extension of The ARGX-113-1802 Trial to Investigate The Long-Term Safety, Tolerability, and Efficacy of Subcutaneously Administered Efgartigimod with rHuPH20 in Patients with Chronic Inflammatory | ARGENX BVBA                                                      | Industry                 | 08/18/2021         | 08/17/2024       | -                                              | -                                                | -                                             |
| Ubogu, Eroboghene E.    | UAB MDA CARE CENTER                                                                                                                                                                                            | Muscular Dystrophy Association                                   | NP Agency/Assoc          | 07/01/2022         | 06/30/2025       | 30,000                                         | -                                                | 30,000                                        |
| Vance, David E          | Executive Function Training to Reduce Cognitive Intra-Individual Variability in Adults with HIV                                                                                                                | National Institute on Aging/NIH/DHHS                             | Federal                  | 09/01/2022         | 05/31/2024       | 150,000                                        | 72,750                                           | 222,750                                       |
| Visscher, Kristina M    | Characterization of Multiple Factors in Training and Plasticity in Central Vision Loss                                                                                                                         | National Eye Institute/NIH/DHHS                                  | Federal                  | 03/01/2021         | 02/28/2025       | 476,432                                        | 117,337                                          | 593,769                                       |
| Visscher, Kristina M    | New Methods to Quantify and Train Eye Movement Strategies in Macular Degeneration                                                                                                                              | University of California, Riverside                              | Institutions             | 02/01/2022         | 01/31/2024       | 83,135                                         | 40,321                                           | 123,456                                       |
| Wadiche, Jacques I.     | AMPA Function in Synaptic and Extrasynaptic Membranes                                                                                                                                                          | National Institute of Neurological Disorders and Stroke/NIH/DHHS | Federal                  | 09/15/2019         | 06/30/2024       | 288,388                                        | 134,667                                          | 423,055                                       |
| Wadiche, Linda S.       | Inhibitory Neural Circuits in Dentate Function                                                                                                                                                                 | National Institute of Neurological Disorders and Stroke/NIH/DHHS | Federal                  | 06/15/2018         | 04/30/2024       | -                                              | -                                                | -                                             |

| PI Name                | Project Title                                                                                                                                                                    | Sponsor Name                                                     | Sponsor Type    | Project Start Date | Project End Date | Direct Awarded for Currently Active Increments | Indirect Awarded for Currently Active Increments | Total Awarded for Currently Active Increments |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------|--------------------|------------------|------------------------------------------------|--------------------------------------------------|-----------------------------------------------|
| Wadiche, Linda S.      | Newborn Neurons In The Adult Hippocampal Network                                                                                                                                 | National Institute of Neurological Disorders and Stroke/NIH/DHHS | Federal         | 03/01/2019         | 02/29/2024       | 281,707                                        | 122,673                                          | 404,380                                       |
| Wheeler, Pariya Fazeli | Testing the Efficacy and Mechanisms of an Adapted Resilience Building Intervention in People Aging with HIV                                                                      | National Institute on Aging/NIH/DHHS                             | Federal         | 08/15/2022         | 05/31/2024       | 205,070                                        | 88,170                                           | 293,240                                       |
| Wheeler, Pariya Fazeli | Evaluation of Neurobiological Mechanisms Mediating the Effect of Immune Activation on Neurocognitive Impairment and the Role of Psychosocial Factors Among Women Living with HIV | National Institute of Mental Health/NIH/DHHS                     | Federal         | 09/13/2022         | 06/30/2027       | 547,920                                        | 124,348                                          | 672,268                                       |
| Wheeler, Pariya Fazeli | Neurocognitive Trajectories in Older Adults with COVID-19 in the Deep South                                                                                                      | National Academy of Neuropsychology                              | NP Agency/Assoc | 05/01/2022         | 04/30/2024       | 44,888                                         | 4,489                                            | 49,377                                        |
| Wheeler, Pariya Fazeli | Examining the Effect of High-Intensity Exercise to Attenuate Cognitive Function Limitations and Train Exercise Habits in Older People Living with HIV (HEALTH-Cog)               | National Institute on Aging/NIH/DHHS                             | Federal         | 05/15/2023         | 04/30/2028       | 565,843                                        | 209,209                                          | 775,052                                       |
| Wilson, Scott M        | The Role of ESCRTs in Regulating Nervous System Function                                                                                                                         | National Institute of Neurological Disorders and Stroke/NIH/DHHS | Federal         | 12/01/2019         | 11/30/2024       | 199,563                                        | 96,788                                           | 296,351                                       |
| <b>TOTAL</b>           |                                                                                                                                                                                  |                                                                  |                 |                    |                  | <b>36,717,890</b>                              | <b>8,385,567</b>                                 | <b>45,103,457</b>                             |

FY23 new MBI at UAB members, n=13



**Edmund Arthur, OD, PhD, FAAO**  
Assistant Professor, UAB School of  
Optometry



**Kelley Pettee Gabriel, MS, PhD, FACS, FAHA**  
Professor, Associate Dean for Research,  
UAB Department of Epidemiology



**Kenneth Boockvar, MD, MS**  
Professor and Division Director, UAB  
Medicine - Division of Gerontology,  
Geriatrics, and Palliative Care



**Abbi Hernandez, PhD**  
Assistant Professor, UAB Medicine - Division  
of Gerontology, Geriatrics, and Palliative  
Care



**Caesar Hernandez, MS, PhD**  
Assistant Professor, UAB Medicine - Division  
of Gerontology, Geriatrics, and Palliative  
Care



**Amy Knight, PhD**  
Associate Professor, UAB Department of  
Neurology, Division of Neuropsychology



**Raymond Jones, PhD**  
Assistant Professor, UAB Medicine - Division  
of Gerontology, Geriatrics, and Palliative  
Care



**Junghee Lee, PhD**  
Associate Professor, Geropsychiatry  
Research Chair, UAB Department of  
Psychiatry and Behavioral Neurobiology



**Elizabeth Lucas, PhD**

Assistant Professor, UAB Department of  
Psychiatry and Behavioral Neurobiology



**Virendra Mishra, PhD**

Associate Professor, UAB Department of  
Radiology - Division of Advanced Medical  
Imaging Research



**Keith McGregor, PhD**

Associate Professor, Director of Research,  
UAB Department of Clinical and Diagnostic  
Sciences



**Daniel Tyrrell, PhD**

Assistant Professor, UAB Department of  
Pathology - Molecular and Cellular



**David Vance, PhD, MGS, MS**  
Professor, UAB School of Nursing, Office of  
Research and Scholarship

## Appendix 6 – New Faculty CVs

**Edmund Arthur, OD (2014), PhD (2018), FAAO (2019)**

Department of Optometry and Vision Science  
UAB School of Optometry | The University of Alabama at Birmingham  
1716 University Blvd | Birmingham, AL 35294  
HPB 519 | earthur@uab.edu | (205) 996-6576  
<https://www.researchgate.net/profile/Edmund-Arthur>  
<https://www.uab.edu/optometry/home/people/faculty/edmund-arthur>

### CAREER OBJECTIVES:

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Research: early detection and diagnosis of ocular and age-related brain diseases.

Clinical and didactic teaching: Ocular Disease Detection and Diagnosis; Vision Science; Epidemiology and Biostatistics; Geometric and Visual Optics.

### QUALIFICATIONS:

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**PhD**, Vision Science with Biostatistics Minor, 2018

Indiana University Bloomington, Indiana, United States.

Thesis: Neural and vascular changes in the eyes of diabetic patients

**OD**, 2014, graduated with distinction.

Kwame Nkrumah University of Science and Technology (KNUST), Ghana

### PROFESSIONAL EXPERIENCE:

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#### Research Appointments:

2022 – Present      **Assistant Professor (Tenure track)**, Department of Optometry and Vision Science, UAB School of Optometry, University of Alabama at Birmingham

2020 - 2021      **Research Associate III**, College of Pharmacy, Department of Biomedical and Pharmaceutical Sciences, George and Anne Ryan Institute for Neuroscience  
University of Rhode Island

**Responsibilities:** imaging study participants, image processing, image analysis, performing neuropsychological evaluations, APOE genotyping, Gait Assessment, Actigraphy, writing and revising manuscripts, an aid for grant writing, and statistical analysis of data, leading independent projects in the lab, supervising trainees, etc.

#### Postdoctoral Training:

2019 - 2020      **Postdoctoral Research Fellow**, College of Pharmacy, Department of Biomedical and Pharmaceutical Sciences, George and Anne Ryan Institute for Neuroscience  
University of Rhode Island

**Responsibilities:** imaging study participants, image processing, image analysis, performing neuropsychological evaluations, APOE genotyping, Gait Assessment, Actigraphy, writing and revising manuscripts, an aid for grant writing, and statistical analysis of data, etc.

2018-2019      **Postdoctoral Research Associate**, Bascom Palmer Eye Institute, McKnight Vision Research Center, University of Miami

**Responsibilities:** imaging subjects, image processing, image analysis, writing and revising manuscripts, an aid for grant writing, and statistical analysis of data.



## Academic Appointments:

- 2023                    **Investigator**, Evelyn F. McKnight Brain Institute, University of Alabama at Birmingham
- 2023                    **Guest Lecturer**, Public Health Optometry, Biology and Pathology of Ocular Diseases, UAB School of Optometry
- 2022                    **Associate Scientist**, Comprehensive Neuroscience Center, University of Alabama at Birmingham
- 2022                    **Associate Scientist**, Vision Science Research Center, University of Alabama at Birmingham
- 2022                    **Associate Scientist**, Center for Clinical and Translational Science (CCTS), University of Alabama at Birmingham
- 2022                    **Guest Lecturer** for Public Health Optometry, Visual Optics (Lab instructor as well), and Biology and Pathology of Ocular Diseases at UAB School of Optometry
- 2015 – 2018           **Associate Instructor** in Vision Science, Epidemiology, Geometric Optics, and Visual Optics, Indiana University Bloomington
- Responsibilities:** teaching professional students, conducting review sessions, providing technology support to instructors, proctoring and grading exams
- 2015, 2017           **Instructor** in professional Optometry program for retinal OCT and partial Coherence Interferometry based biometry measurements.  
Indiana University Bloomington
- Responsibilities:** teaching professional students to operate and interpret results from retinal OCT and Partial Coherence Interferometry based biometry instruments
- 2017                    **Lecturer** in professional Optometry program on “Survival Analysis” for the Introduction to Epidemiology and Optometric Research Course  
Indiana University Bloomington
- Responsibilities:** preparing teaching materials to teach “Survival Analysis”

## Clinical Experience:

- 2017                    **Clinical Shadowing**, Atwater Eye Center, Retinal Disease Clinic  
Indiana University Bloomington
- Responsibilities:** observing patient care and management in the Retinal Disease Clinic under the supervision of the Head of the clinic and participating in the discussion of disease management, aided in the operation of the Goldmann Visual Field
- 2014                    **Clinical Externship**, St. Dominic’s Hospital, Eastern Region – Ghana
- Responsibilities:** patient eye examination and management under supervision of the Optometrist and Ophthalmologist in charge of the clinic, training of ophthalmic nurses in taking visual acuity, and involved in the co-management of patients in general medical care



2012, 2013

**Clinical Vacation Attachment**, St. Dominic's Hospital, Eastern Region – Ghana

**Responsibilities:** patient eye examination and management under supervision, training of ophthalmic nurses in assessing visual acuity, and involved in the co-management of patients in general medical care

## **RESEARCH SUPPORT:**

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### **Funded:**

NIH/NIA R21 AG079794

\$408,375 (PI: E Arthur) 2023-2025

“Characterizing retinal tissue oxygenation, structure, and function in Alzheimer's disease.”

The goal of this proposal is to quantify and characterize the peripheral capillary free zone (CFZ) as a biomarker of Alzheimer's disease as well as investigate the association of the CFZ with retinal structure and function using Optical Coherence Tomography Angiography.

**Role: PI**

Genentech Career Development Award for URM Emerging Vision Scientists \$100,000 (PI: E Arthur) 2023-2025

“Quantifying differences in the retinal peripheral capillary free zones in diabetic retinopathy.” The goal of this proposal is to use non-invasive optical coherence tomography angiography to develop the peripheral capillary free zone as a novel retinal vascular biomarker for early diabetic retinopathy detection and disease monitoring.

**Role: PI**

UAB Comprehensive Diabetes Research Center Pilot Grant \$45,000 (PI: E Arthur) 2023-2024

“Quantifying Differences in the Retinal Peripheral Capillary Free Zones in Diabetic Retinopathy.” The goal of this proposal is to characterize and quantify the retinal peripheral capillary free zones as a biomarker for early diabetic retinopathy detection as well its association with retinal structure and function (via electroretinogram) across the disease spectrum.

**Role: PI**

UAB Integrative Center for Aging Research (ICAR) Pilot Grant \$25,000 (PI: E Arthur) 2022-2023

“Characterizing and quantifying changes in the retinal peripheral capillary free zones in diabetic retinopathy.” The goal of this proposal is to use non-invasive optical coherence tomography angiography to develop the peripheral capillary free zone as a novel retinal vascular biomarker for early diabetic retinopathy detection and disease monitoring to prevent vision loss and promote independence among underserved patients within the Black Belt of Alabama.

**Role: PI**

Evelyn F. Mcknight Brain Institute

\$300,000 (PI: R Lazar/P Bowen) 2023-2025

“An Exercise Intervention to Improve Overall Brain Health: the PEDAL Study.” The goal of this proposal is to investigate the effect of exercise on brain health and OCTA metrics such as foveal avascular zone (FAZ), vessel density, and retinal peripheral capillary free zones (perivascular spaces).

**Role: Co-I (15% FTE)**

## **HONORS AND AWARDS:**

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- Honorarium received from Springer Healthcare for contribution of expert opinion article, April 2020

- **Fellow of the American Academy of Optometry (FAAO) from the American Academy of Optometry (AAO), October 2019**
- **Outstanding Research Scientist Poster Presentation from the Institute for Neural Engineering, University of Miami, May 2019**
- **Indiana University School of Optometry Class of 2020 Associate Instructor of the year from the Indiana University Optometry Students' Association (IUOSA), February 2018**
- **Johnson & Johnson Vision Care Student Travel Fellowship Grant from the American Academy of Optometry (AAO), August 2017**
- **Irvin M Borish Student Travel Fellowship Grant from the American Academy of Optometry (AAO), September 2015**

#### PEER REVIEWED PUBLICATIONS:

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- **Arthur E**, Ravichandran S, Snyder PJ, Alber J, Strenger J, Bittner AK, Khankan R, Adams SL, Putnam NM, Lypka KR, Piantino JA. Retinal mid-peripheral capillary free zones are enlarged in cognitively unimpaired older adults at high risk for Alzheimer's disease. *Alzheimer's Research & Therapy*. 2023;15:1-5.
- Lee AK, Collier MK, Thompson LI, Popescu D, **Arthur E**, Correia S, Salloway SP, Alber J. The Effects of Subjective Cognitive Decline on APOE Genotype Disclosure in the Butler Hospital Alzheimer's Prevention Registry. *The Journal of Prevention of Alzheimer's Disease*. 2023:1-0.
- Alber J, Popescu D, Thompson LI, Tonini GM, **Arthur E**, Oh H, Correia S, Salloway SP, Lee AK. Safety and Tolerability of APOE Genotyping and Disclosure in Cognitively Normal Volunteers from the Butler Alzheimer's Prevention Registry. *Journal of Geriatric Psychiatry and Neurology*. 2022 May;35(3):293-301.
- **Arthur E**, Alber J, Thompson LI, Sinoff S, Snyder PJ. OCTA reveals remodeling of the peripheral capillary free zones in normal aging. *Sci Rep* 11, 15593 (2021). <https://doi.org/10.1038/s41598-021-95230-0>
- Alber J, **Arthur E**, Goldfarb D, Drake J, Boxerman JL, Silver B, Ott BR, Johnson LN, Snyder PJ. The relationship between cerebral and retinal microbleeds in Cerebral Amyloid Angiopathy (CAA): A pilot study. *Journal of the Neurological Sciences*. 2021:117383. <https://doi.org/10.1016/j.jns.2021.117383>
- Alber J, **Arthur E**, Sinoff S, DeBuc DC, Chew EY, Douquette L, Hatch WV, Hudson C, Kashani A, Lee CS, Montaquila S, Mozdbar S, Cunha LP, Tayyari F, Stavern GV, Snyder PJ. A recommended "minimum data set" framework for SD-OCT retinal image acquisition and analysis from the Atlas of Retinal Imaging in Alzheimer's Study (ARIAS). *Alzheimer's & Dementia: Diagnosis, Assessment & Disease Monitoring*. 2020;12:e12119. <http://dx.doi.org/10.1002/dad2.12119>
- Cho KA, Rege A, Jing Y, Chaurasia A, Guruprasad A, **Arthur E**, DeBuc DC. Portable, non-invasive video imaging of retinal blood flow dynamics. *Scientific Reports*. 2020;10:1-11. <https://doi.org/10.1038/s41598-020-76407-5>
- Alber J, Maruff P, Santos CY, Ott BR, Salloway SP, Yoo DC, Noto RB, Thompson LI, Goldfarb D, **Arthur E**, Song A, Snyder PJ. Disruption of cholinergic neurotransmission, within a cognitive challenge paradigm, is indicative of A $\beta$ -related cognitive impairment in preclinical Alzheimer's disease

after a 27-month delay interval. *Alzheimer's Research & Therapy*. 2020;12:1-9.  
<https://doi.org/10.1186/s13195-020-00599-1>

- Alber J, Goldfarb D, Thompson LI, **Arthur E**, Hernandez K, Cheng D, DeBuc DC, Cordeiro F, Provetti-Cunha L, den Haan J, Van Stavern GP, Salloway SP, Sinoff S, Snyder PJ. Developing retinal biomarkers for the earliest stages of Alzheimer's disease: What we know, what we don't, and how to move forward. *Alzheimer's Dement*. 2020;16:229–243. <https://doi.org/10.1002/alz.12006>
- **Arthur E**, Somfai GM, Kostic M, Oropesa S, Mendoza-Santiesteban C, and Cabrera DeBuc D Distinguishing cognitive impairment by using singularity spectrum and lacunarity analysis of the retinal vascular network. *Neurophotonics*. 2019;6:041109. <https://doi.org/10.1117/1.NPh.6.4.041109>
- **Arthur E**, Elsner AE, Sapoznik KA, Papay JA, Muller MS, Burns SA. Distances from capillaries to arterioles or venules measured using OCTA and AOSLO. *Invest Ophthalmol Vis Sci*. 2019;60:1833–1844. <https://doi.org/10.1167/iovs.18-25294>
- **Arthur E**, Young SB, Elsner AE, Baskaran K, Papay JA, Muller MS, Gast TJ, Haggerty BP, Clark CA, Malinovsky VE, Brahm SG, Litvin TV, Ozawa GY, Cuadros JA. Central macular thickness in diabetic patients: a sex-based analysis. *Optom Vis Sci*. 2019;96:266-275. doi:10.1097/OPX.0000000000001363
- Cabrera DeBuc D, Somfai GM, **Arthur E**, Kostic M, Oropesa S, Mendoza-Santiesteban C. Investigating Multimodal Diagnostic Eye Biomarkers of Cognitive Impairment by Measuring Vascular and Neurogenic Changes in The Retina. *Front Physiol*. 2018;9:1721. doi: 10.3389/fphys.2018.01721.
- **Arthur E**, Papay JA, Haggerty BP, Clark CA, Elsner AE. Subtle changes in diabetic retinas localised in 3D using OCT. *Ophthalmic Physiol Opt*. 2018;38:477-491. doi: 10.1111/opo.12578.
- **Arthur E**, Sadik AA, Kumah DB, Osaie EA, Mireku FA, Asiedu FY, Ablordeppey RK. Postoperative Corneal and Surgically Induced Astigmatism following Superior Approach Manual Small Incision Cataract Surgery in Patients with Preoperative Against-the-Rule Astigmatism. *J Ophthalmol*. 2016;2016:9489036. doi: 10.1155/2016/9489036.

#### BOOK CHAPTERS PUBLISHED:

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- DeBuc DC, Somfai GM, Szatmáry G, **Arthur E**, Jimenez JA, Santiesteban CM, Grzybowski A. (2020) Seeing the Brain Through the Eye: What Is Next for Neuroimaging and Neurology Applications. In: Grzybowski A., Barboni P. (eds) OCT and Imaging in Central Nervous System Diseases. Springer, Cham. [https://doi.org/10.1007/978-3-030-26269-3\\_5](https://doi.org/10.1007/978-3-030-26269-3_5). Print ISBN: 978-3-030-26268-6. Online ISBN: 978-3-030-26269-3
- Kostic M, Somfai GM, **Arthur E**, DeBuc DC. (2020) Pediatric Neuro-Ophthalmology and OCT. In: Grzybowski A., Barboni P. (eds) OCT and Imaging in Central Nervous System Diseases. Springer, Cham. [https://doi.org/10.1007/978-3-030-26269-3\\_22](https://doi.org/10.1007/978-3-030-26269-3_22). Print ISBN: 978-3-030-26268-6. Online ISBN: 978-3-030-26269-3

#### INVITED EXPERT OPINION ARTICLES:

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Early Detection of Alzheimer's Disease: Promising New Methods?. Springer Healthcare.  
<https://www.neurodiem.com/news/early-detection-of-alzheimers-disease-promising-new-methods-4kJ9b4YhOYlvv52uTLsr22>. April 26, 2020.

#### MANUSCRIPTS UNDER REVIEW:

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- Dominique Popescu, Jessica Alber, **Edmund Arthur**, Louisa Thompson, Stephen Correia, Athene Lee. APOE genotype disclosure influences decisions about future planning but not adoption of healthy lifestyle

changes in cognitively unimpaired individuals. Journal of Geriatric Psychiatry and Neurology. 2023. Under Review.

#### INVITED PRESENTATIONS/LECTURES:

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|               |                                                                                                                                              |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| May 2023      | 14 <sup>th</sup> Annual McKnight Brain Research Foundation Inter-Institutional Meeting<br>Title: Retinal Perivascular Spaces in Normal Aging |
| November 2022 | Alabama UDALL Center and Alzheimer's Disease Research Center (ADRC) Retreat<br>Title: Retinal Biomarker Development for Alzheimer's Disease  |
| August 2022   | Vision Science Research Center (VSRC) Seminar<br>Title: Retinal Biomarker Development in Preclinical Alzheimer's Disease                     |

#### CONFERENCE PRESENTATIONS:

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- **Edmund Arthur**, Peter J. Snyder, Jessica Alber, et al. Enlargement of Retinal Periarteriole Capillary Free Zones in Cognitively Unimpaired Older Adults at High Risk for Alzheimer's Disease. Association for Research in Vision and Ophthalmology (ARVO). April 2023.
- Swaminathan A, Emrani S, **Arthur E**, Strenger J, Salloway SP, Correia S, Thompson LI. Comparing the accuracy of the DCTclock and Montreal Cognitive Assessment to detect cognitive impairment and cerebral amyloid status in older adults. Alzheimer's & Dementia. 2022 Dec;18:e069272.
- **Edmund Arthur**, Jessica Alber, Louisa I Thompson, Jennifer Strenger, Catrina Montgomery, Stuart Sinoff, Stephen P. Salloway, and Peter J Snyder. Peripapillary retinal nerve fiber layer and macular outer retinal layers are reduced in cognitively unimpaired older adults at high risk of AD. Preliminary Results from a Five -Year Longitudinal Study. Alzheimer's Association International Conference (AAIC). July 2022.
- **Edmund Arthur**, Jessica Alber, Louisa I. Thompson, Jennifer Strenger, Stuart Sinoff, and Peter J. Snyder. Blue autofluorescence imaging reveals retinal inclusion bodies in cognitively normal older adults at high risk for Alzheimer's disease. American Academy of Optometry Annual Conference in Boston, MA. November 2021.
- Dominique L Popescu, Jessica Alber, Louisa I Thompson, **Edmund Arthur**, Hwamee Oh, Stephen Correia, Stephen P. Salloway, and Athene KW Lee. The impact of APOE genotype disclosure on lifestyle behaviors and decisions about future directives. Alzheimer's Association International Conference (AAIC). July 2021. (<https://alz.confex.com/alz/2021/meetingapp.cgi/Paper/55553>)
- Jennifer Strenger, Jessica Alber, **Edmund Arthur**, Peter J Snyder, Stuart Sinoff, Stephen Correia, Stephen P. Salloway, and Louisa I Thompson. Validation of a 4-item subjective cognitive decline screening questionnaire in cognitively normal older adults. Alzheimer's Association International Conference (AAIC). July 2021. (<https://alz.confex.com/alz/2021/meetingapp.cgi/Paper/56505>).
- **Edmund Arthur**, Jessica Alber, Louisa I. Thompson, Stuart Sinoff, and Peter J. Snyder. OCTA reveals remodeling of the peripheral capillary free zones in cognitive normal aging. *Optom Vis Sci* 2020;97:E-abstract 200029. (<https://www.aaopt.org/detail/knowledge-base-article/papers-investigations-into-retinal-findings-in-the-aging-eye-and-patients-with-diabetes>)
- Delia Cabrera DeBuc, **Edmund Arthur**, William Feuer, Patrice Persad, Gabor Mark Somfai, Maja Kostic, Susel Oropesa, Mendoza-Santiesteban C. Investigating predictive models for earlier diagnosis of cognitive impairment using multimodal eye biomarkers: Development of new models and analysis

- Jessica Alber, **Edmund Arthur**, Louisa I. Thompson, Danielle Goldfarb, Brian M. Fernandez, Stephen P. Salloway, Stuart Sinoff, Peter J. Snyder. The atlas of retinal imaging in Alzheimer's study (ARIAS): Study design and objectives. Poster presentation at 2020 Alzheimer's Association International Conference (AAIC 2020). July, 2020.
- Ryan Aker, **Edmund Arthur**, Louisa I. Thompson, Paul T. Maruff, Peter J. Snyder, Jessica Alber. Development of the Snellen Memory Test (SMT): An episodic memory test to screen for AD risk in a clinical optometry/ophthalmology setting. Poster presentation at 2020 Alzheimer's Association International Conference (AAIC 2020). July, 2020.
- Delia Cabrera DeBuc, **Edmund Arthur**, Gabor Mark Somfai, Maja Kostic, Susel Oropesa, Carlos Mendoza Santiesteban. Distinguishing cognitive impairment with multifractal complexity of the retinal vascular network. *Investigative Ophthalmology & Visual Science*. 2019 Jul 22;60(9):159-159. (<https://iovs.arvojournals.org/article.aspx?articleid=2745942&resultClick=1>)
- Cho Kyoung-A., **Edmund Arthur**, Yici Jing, Amit Guruprasad, Seyed Hamed Haghshenas, Abhishek Rege, and Delia Cabrera DeBuc. Comparison of Retinal Blood Velocity Measurements using Non-invasive Retinal Imagers. *Investigative Ophthalmology & Visual Science*. 2019 Jul 22;60(9):5734-5734. (<https://iovs.arvojournals.org/article.aspx?articleid=2746792&resultClick=1>)
- Delia Cabrera DeBuc, **Edmund Arthur**, Gabor Mark Somfai, Maja Kostic, Susel Oropesa, Carlos Mendoza-Santiesteban. P3-109: Investigating the Local Distortion of the Fractal Complexity of the Retinal Vascular Alterations in Cognitive Impaired Patients. *Alzheimer's & Dementia*. 2019;15:P971-P972. (<https://alz-journals.onlinelibrary.wiley.com/doi/abs/10.1016/j.jalz.2019.06.3137>)
- Maja Kostic, **Edmund Arthur**, Delia Cabrera DeBuc. Feasibility and user-friendliness of a low-cost OCT device. *Retina World Congress 2019*, Ft. Lauderdale, FL, USA.
- Delia Cabrera DeBuc, **Edmund Arthur**. Recent Developments of Retinal Image Analysis in Alzheimer's disease and Potential AI Applications. In: Carneiro G., You S. (eds) *Computer Vision – ACCV 2018 Workshops*. ACCV 2018. Lecture Notes in Computer Science, vol 11367. Springer, Cham. ([https://doi.org/10.1007/978-3-030-21074-8\\_21](https://doi.org/10.1007/978-3-030-21074-8_21))
- Delia Cabrera DeBuc, Gabor Mark Somfai, **Edmund Arthur**, Maja Kostic, Susel Oropesa, Carlos Mendoza Santiesteban. Investigating Multivariate Eye Biomarkers as Distinctive Eye-Brain Signatures of Cognitive Impairment in Alzheimer's Disease. *International Symposium on Pathomechanisms of Amyloid Diseases 2018*, University of Miami, Miami, FL, USA.
- Ann E. Elsner, Shrin E. Hassan, Elli J. Kollbaum, Bryan P. Haggerty, **Edmund Arthur**, Matthew S. Muller. Simultaneous viewing of retinal stimuli during high contrast retinal imaging. *OSA Fall Vision Meeting 2017*. (<http://jov.arvojournals.org/article.aspx?articleid=2667380&resultClick=1>)
- **Edmund Arthur**, Kaitlyn A. Sapoznik, Ann E. Elsner. Comparison of difference in perfusion distances between capillaries and arterioles or venules using OCTA (Hot Topics Session). *Optom Vis Sci* 2017;94:E-abstract 170043. (<https://www.aaopt.org/detail/knowledge-base-article/comparison-of-difference-in-perfusion-distances-between-capillaries-and-arterioles-or-venules-using-octa>)
- Ann E. Elsner, Matthew S. Muller, Joel A. Papay, **Edmund Arthur**, Stephen A. Burns. Design Considerations in Decreasing the Cost of Adaptive Optics Retinal Imaging. *Frontiers in Optics/Laser Science Conference (FiO/LS) 2017*. (<https://doi.org/10.1364/FIO.2017.JTu2A.69>)

- **Edmund Arthur**, Joel A. Papay, Bryan P. Haggerty, Christopher A. Clark, Ann E. Elsner. Subtle changes in diabetic retinas localized in 3D using OCT. *Invest. Ophthalmol. Vis. Sci.* 2017;58(8):98. (<http://iovs.arvojournals.org/article.aspx?articleid=2637201&resultClick=1>)
- Matthew S. Muller, Ann E. Elsner, **Edmund Arthur**, Kaitlyn A. Sapoznik, Joel A. Papay, Stephen A. Burns. Metrics of tissue oxygenation in the retina using adaptive optics and OCT-A technology. *Invest. Ophthalmol. Vis. Sci.* 2017;58(8):2003. (<http://iovs.arvojournals.org/article.aspx?articleid=2637212&resultClick=1>)
- **Edmund Arthur**, Stuart B. Young, Karthikeyan Baskaran, Ann E. Elsner, Matthew S. Muller, Thomas J. Gast, Bryan P. Haggerty, Christopher A. Clark, Shane G. Brahm, Taras V. Litvin, Glen Y. Ozawa, Jorge A. Cuadros. Individual Retinal Layer Thickness in Diabetic Patients with Clinically Significant Macular Edema: A Gender Based Analysis. *Optom Vis Sci* 2016;93: E-abstract 160012. (<https://www.aaopt.org/detail/knowledge-base-article/individual-retinal-layer-thickness-diabetic-patients-clinically-significant-macular-edema-gender>)
- **Edmund Arthur**, Joel A. Papay, Bryan P. Haggerty, Christopher A. Clark, Ann E. Elsner. Perifoveal vessels and structural changes visualized in deeper layers of diabetic retinas. *Invest. Ophthalmol. Vis. Sci.* 2016;57(12):4239. (<http://iovs.arvojournals.org/article.aspx?articleid=2562494&resultClick=1>)
- **Edmund Arthur**, Joel A. Papay, Bryan P. Haggerty, Christopher A. Clark, Ann E. Elsner. 3D feature of Spectral Domain Optical Coherence Tomography (SD-OCT) as a novel technique to detect perifoveal vessels. *Optom Vis Sci* 2015;92:E-abstract 150073. (<https://www.aaopt.org/detail/knowledge-base-article/3d-feature-spectral-domain-optical-coherence-tomography-sd-oct-novel-technique-detect-perifoveal>)

#### PUBLISHED MATERIALS IN MEDIA:

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- **URI, BayCare in Florida and Butler Hospital team up to test retinal scanning for early detection of Alzheimer's disease.** 6<sup>th</sup> January 2020. <https://today.uri.edu/news/uri-baycare-in-florida-and-butler-hospital-team-up-to-test-retinal-scanning-for-early-detection-of-alzheimers-disease/?fbclid=IwAR2OwQN3H2gFbYBxcHIfRu6pL6EZhiBBDLWtcYfeYnSjSGIam9dF64ERTc>
- **ARIAS: Zooming in On Eye-based Biomarkers for Alzheimer's.** Alzforum: Networking for a cure. 30<sup>th</sup> April 2019. <https://www.alzforum.org/news/conference-coverage/arias-zooming-eye-based-biomarkers-alzheimers>

#### PROFESSIONAL ORGANIZATIONS:

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- **Member**, American Academy of Optometry (AAO), Membership no. 74683. May 2015 – present.
- **Postdoctoral Membership**, Alzheimer's Association International Society to Advance Alzheimer's Research and Treatment (ISTAART), Membership no. 100019363605. July 2020 – present.
- **Member**, Association for Research in Vision and Ophthalmology (ARVO). December 2015 – present.

#### VOLUNTEER AND COMMUNITY WORK:

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|      |                                                                                                        |
|------|--------------------------------------------------------------------------------------------------------|
| 2023 | <b>Member</b> , American Academy of Optometry (AAO) Fellowship Admittance Committee (Scientific Route) |
| 2023 | <b>Member</b> , ASCO Diversity and Cultural Competency Committee                                       |
| 2023 | <b>Member</b> , UAB Vision Science Graduate Program Admission Committee                                |

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2023        | <b>Member, UAB Conflict of Interest Review Board</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 2023        | <b>Peer Reviewer, <i>Scientific Reports</i></b> , number of manuscripts: 1. <b><i>Investigative Ophthalmology and Visual Science</i></b> , number of manuscripts: 1. <b><i>Optometry and Vision Science</i></b> , number of manuscripts reviewed: 1. <b><i>Journal of Clinical Medicine</i></b> , number of manuscripts reviewed: 2. <b><i>Movement Disorders</i></b> , number of manuscripts reviewed: 1. <b><i>Translational Vision Science &amp; Technology</i></b> , number of manuscripts reviewed: 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 2023        | <b>Reviewer, NIH Study Section, Clinical Neuroscience and Neurodegeneration (CNN) Study Section</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 2018 – 2022 | <b>Peer Reviewer, <i>Nature Scientific Reports</i></b> , number of manuscripts reviewed: 3. <b><i>Investigative Ophthalmology and Visual Science</i></b> , number of manuscripts reviewed: 7 (received exceptional good review on two occasions). <b><i>BMC Ophthalmology</i></b> , number of manuscripts reviewed: 4. <b><i>Optometry and Vision Science</i></b> , number of manuscripts reviewed: 2. <b><i>Alzheimer's &amp; Dementia: Diagnosis, Assessment &amp; Disease Monitoring (DADM)</i></b> , number of manuscripts reviewed: 5. <b><i>Alzheimer's &amp; Dementia: The Journal of the Alzheimer's Association</i></b> , number of manuscripts reviewed: 1. <b><i>Journal of Alzheimer's Disease</i></b> , number of manuscripts reviewed: 1. <b><i>Alzheimer's Association International Conference (AAIC) 2021 abstract review team member</i></b> , number of abstracts reviewed: 30. <b><i>Translational Vision Science &amp; Technology</i></b> , number of manuscripts reviewed: 2. <b><i>Ophthalmology Science</i></b> , number of manuscript reviewed: 1. <b><i>Alzheimer's Association International Conference (AAIC) 2022 abstract review team member</i></b> , number of abstracts reviewed: 30. <a href="https://publons.com/researcher/3474503/edmund-arthur/">https://publons.com/researcher/3474503/edmund-arthur/</a> |
| 2019 – 2021 | <b>Volunteer, Butler Hospital Memory and Aging Program, Providence, RI</b><br><br><b>Responsibilities:</b> imaging study participants, image processing, image analysis, performing neuropsychological evaluations, APOE genotyping, Gait Assessment, Actigraphy, writing and revising manuscripts, an aid for grant writing, and statistical analysis of data, etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 2013        | <b>Member of Eye Care Team, Christ Evangelistic Ministry Medical Outreach, Techiman-Ghana</b><br><br><b>Responsibilities:</b> providing free eye screening, medications and reading glasses to the people of Techiman and its environs, providing free eye screening for school children and training teachers on how to identify children with vision problems.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 2012 – 2013 | <b>Head of Health and Outreach Committee, Optometry Students Association of Ghana</b><br><br><b>Responsibilities:</b> authenticating and signing various letters and budgets brought before the Committee, chairing meetings of the Health and Outreach Committee, participating in vision screening exercises organized by the health and outreach committee, and approving semester's activities drafted for the Committee by the Organizing Secretary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2012        | <b>Vision Aid Overseas (VAO – UK) Training Program</b><br><br><b>Responsibilities:</b> patient eye examination and management under supervision during a two-week vision screening program at Bortianor; a small fishing community near Accra- the capital city of Ghana in January 2012. Patient eye examination and management                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

under supervision during a two-week vision screening program at Mamprobi - a suburb in Accra in August 2012.

## **GRADUATE STUDENTS:**

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PhD Swetha Ravichandran, M.Optom  
Dissertation title *Novel Retinal Biomarker Development in Early Alzheimer's disease*  
Award Won *Alzheimer's of Central Alabama Lindy Harrell Predoctoral Scholar Award*  
2023-2025, \$50,000 for stipend and travel.

## **REFEREES:**

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- Peter J. Snyder, PhD  
[pjsnyder@uri.edu](mailto:pjsnyder@uri.edu)
- Arthur Bradley, PhD  
[bradley@indiana.edu](mailto:bradley@indiana.edu)
- Stephen P. Salloway, MD, MS  
[SSalloway@butler.org](mailto:SSalloway@butler.org)
- Jessica Alber, PhD  
[jalber@uri.edu](mailto:jalber@uri.edu)



## **KENNETH BOOCKVAR, MD, MS**

**ADDRESS:** University of Alabama, Birmingham  
933 19<sup>th</sup> Street South  
Birmingham, AL 35205  
Tel: 205-934-1468  
kboockvar@uabmc.edu

### **APPOINTMENTS:**

|              |                                                                                                                                       |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------|
| 1997-99      | Consulting Physician, Amsterdam Nursing Home                                                                                          |
| 2000-06      | Assistant Professor, Departments of Geriatrics and Medicine, Mount Sinai School of Medicine                                           |
| 2000-22      | Attending Physician, The Mount Sinai Hospital                                                                                         |
| 2000-22      | Attending Physician, The New Jewish Home                                                                                              |
| 2002-22      | Attending Physician, James J. Peters Veterans Affairs Medical Center                                                                  |
| 2007-14      | Associate Professor, Departments of Geriatrics and Medicine, Mount Sinai School of Medicine                                           |
| 2007-22      | Associate Director for Research, Geriatrics Research, Education, and Clinical Center, James J. Peters Veterans Affairs Medical Center |
| 2010-22      | Director of Clinical Studies, Jewish Home Lifecare                                                                                    |
| 2014-22      | Professor, Department of Geriatrics and Palliative Medicine, Icahn School of Med at Mount Sinai                                       |
| 2018-22      | Anna A. Greenwall Professor of Geriatrics and Adult Development, Mount Sinai and The New Jewish Home                                  |
| 2020-22      | Director (Acting), Geriatrics Research, Education, and Clinical Center, James J. Peters Veterans Affairs Medical Center               |
| 2022-present | Director, Division of Gerontology, Geriatrics, and Palliative Care, University of Alabama, Birmingham                                 |
| 2022-present | Director, Integrative Center for Aging Research, University of Alabama, Birmingham                                                    |
| 2023-present | Physician-Investigator, Geriatrics Research, Education, and Clinical Center, Birmingham Veterans Affairs Health Care System           |

### **EDUCATION:**

|         |                                                                                                                          |
|---------|--------------------------------------------------------------------------------------------------------------------------|
| 1985-89 | Harvard University, BA, Chemistry                                                                                        |
| 1989-93 | Duke University School of Medicine, MD                                                                                   |
| 1997-99 | Weill Graduate School of Medical Sciences, Cornell University, MS,<br>Health Services Research and Clinical Epidemiology |

### **TRAINING:**

|           |                                                                                               |
|-----------|-----------------------------------------------------------------------------------------------|
| 1993-96   | Internship and Residency in Internal Medicine, Columbia-Presbyterian Medical Center           |
| 1996-97   | Chief Residency in Internal Medicine, Columbia-Presbyterian Medical Center                    |
| 1997-99   | Fellowship in General Internal Medicine, New York Hospital, Cornell University Medical Center |
| 1999-2000 | Fellowship in Geriatric Medicine and Gerontology, UCLA-VA Multicampus Program                 |
| 2018      | Training Institute for Dissemination and Implementation Research in Health (TIDIRH)           |

### **LICENSE AND CERTIFICATION:**

|      |                                                        |
|------|--------------------------------------------------------|
| 1994 | New York State Medical License                         |
| 1996 | American Board of Internal Medicine (recertified 2016) |
| 1997 | Drug Enforcement Agency                                |
| 2000 | Geriatric Medicine (recertified 2020)                  |
| 2022 | Alabama State Medical License                          |

**MEMBERSHIP:**

Academy Health  
American College of Physicians  
American Geriatrics Society  
American Medical Directors Association

**AWARDS:**

|         |                                                                                                                                                                            |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1989-93 | Pickrell Scholar, Duke University School of Medicine                                                                                                                       |
| 1992    | Alpha Omega Alpha Honors Society, Duke University School of Medicine                                                                                                       |
| 1992    | Kass Fellow, Infectious Diseases Society of America                                                                                                                        |
| 1995    | Meltzer Fellow in Medical Ethics, Columbia-Presbyterian Medical Center                                                                                                     |
| 2000-02 | Hartford Center of Excellence Scholar, Mount Sinai School of Medicine                                                                                                      |
| 2001-03 | Mary and David Hoar Fellow, The New York Academy of Medicine                                                                                                               |
| 2002    | Award for Best Paper in Health Services Research, American Geriatrics Society annual meeting                                                                               |
| 2002-04 | Junior Faculty Scholar for Research on Health Outcomes in Geriatrics, Pfizer/American Geriatrics Society/Foundation for Health in Aging                                    |
| 2003    | Quality Improvement Award Finalist, Pfizer/American Medical Directors Association Foundation                                                                               |
| 2004    | Quality Improvement Award Recipient, Pfizer/Amer. Medical Directors Association Foundation                                                                                 |
| 2003-10 | Research Career Development Award, renewed as Advanced Research Career Development Award, Health Services Research and Development Service, Department of Veterans Affairs |
| 2008-10 | Exceptional Reviewer, for the journal Medical Care                                                                                                                         |
| 2014    | Top Reviewer for Journal of Hospital Medicine                                                                                                                              |
| 2016    | James J. Peters VA Physician Partner in Care Award                                                                                                                         |
| 2016    | Award for Best Paper in Best Practices in Nursing Homes and Hospitals, American Geriatrics Society annual meeting                                                          |
| 2017    | Best Paper International Medical Informatics Association (IMIA) Yearbook                                                                                                   |
| 2018    | Best Paper Award for Geriatrics Research (all categories), American Geriatrics Society annual meeting                                                                      |
| 2018    | Best of AcademyHealth issue of Health Services Research                                                                                                                    |
| 2018    | Greenwall endowed professorship, Icahn School of Med at Mount Sinai & New Jewish Home                                                                                      |

**GRANT FUNDING:**

Source: The New York Academy of Medicine/The New York Community Trust  
Role: Principal Investigator  
Title: Rehospitalization, Nursing Home Residence, and Fragmentation of Care in Patients with Hip Fracture  
Total Direct Amount/Dates: \$100,000/ Jul 2001-Jun 2003

Source: John A. Hartford Foundation  
Role: Scholar  
Title: Hospitalization Risk Following Admission to an Academic Nursing Home  
Total Direct Amount/Dates: \$30,000/ Jul 2001-Jun 2002

Source: Pfizer/American Geriatrics Society/Foundation for Health in Aging  
Role: Principal Investigator  
Title: Outcomes of Infection in Nursing Home Residents with and without Hospital Transfer  
Total Direct Amount/Dates: \$130,000/ Jul 2002-Dec 2004

Source: Veterans Affairs Health Services Research and Development Service (TRP 02-149)  
Role: Co-Investigator

Title: Program of Research on Serious Physical and Mental Illness  
Total Direct Amount/Dates: \$750,000/ Jul 2002-Jun 2007

Source: New York State Department of Health  
Role: Principal Investigator  
Title: Improving Continuity of Care and Medication Management when Nursing Home Residents with Dementia are Discharged to and Admitted from the Hospital: an Intervention Study  
Total Direct Amount/Dates: \$202,467/ Mar 2003-Aug 2005

Source: Veterans Affairs Health Services Research and Development Service (RCD 03-027-1)  
Role: Principal Investigator  
Title: Inter-Facility Communication and Adverse Events During Patient Transfer  
Total Direct Amount/Dates: \$510,000/ Jan 2004-Dec 2006

Source: Pfizer/American Medical Directors Association Foundation  
Role: Principal Investigator  
Title: N-of-1 medication trials for agitated behavior in residents with dementia  
Total Direct Amount/Dates: \$5,800/ Mar 2004-Apr 2005

Source: Veterans Affairs Health Services Research and Development Service (ARCD 03-027-1)  
Role: Principal Investigator  
Title: Continuity of Care for Pain, Depression, and Psychosis in Older Adults  
Total Direct Amount/Dates: \$562,000/ Jan 2007-Dec 2009

Source: Veterans Affairs Health Services Research and Development Service (IAB-05-204)  
Role: Principal Investigator  
Title: Reducing Transition Drug Risk after Patient Transfer  
Total Direct Amount/Dates: \$595,709/ Oct 2006-Sept 2010

Source: Veterans Affairs Health Services Research and Development Service (REA 08-260)  
Role: Associate Director  
Title: Center for Research on Health Care across Systems and Sites of Care  
Total Direct Amount/Dates: \$1,274,000/ Oct 2008-Sept 2012

Source: Veterans Affairs Office of Geriatrics and Extended Care  
Role: Principal Investigator  
Title: A Transitional Care Program to Reduce Hospital Use and Institutional Extended Care  
Total Direct Amount/Dates: \$607,562/ Jan 2010-Sept 2012

Source: Veterans Affairs Health Services Research and Development Service (PPO 10-064)  
Role: Co-Investigator  
Title: A Regional Health Information Organization Enhanced Care Transition Intervention  
Total Direct Amount/Dates: \$100,000/ Oct 2010-Sept 2011

Source: Veterans Affairs Office of Geriatrics and Extended Care  
Role: Co-Investigator  
Title: Care Transitions Intervention for Veterans in Primary Care (CTI-PACT)  
Total Direct Amount/Dates: \$496,655/ Oct 2012-Sept 2014

Source: Veterans Affairs Office of Geriatrics and Extended Care  
Role: Co-Investigator

Title: Enhancing Quality of Prescribing Practices for Veterans Discharged from the Emergency Department (EQUIPPED)

Total Direct Amount/Dates: \$189,466/ Oct 2013-Sept 2014

Source: Veterans Affairs Health Services Research and Development Service (IIR 10-146)

Role: Principal Investigator

Title: Implementing a Regional Data Exchange Tool to Improve Medication Use and Safety

Total Direct Amount/Dates: \$685,791/ Sept 2011-Feb 2015

Sources: Fan Fox and Leslie Samuels Foundation, NIH Mount Sinai Pepper Center, Jewish Home Lifecare

Role: Principal Investigator

Title: Elder Life Program to Improve Acute Illness Care and Prevent Delirium in Long-Term Care

Total Direct Amount/Dates: \$294,000/ Sept 2012-Feb 2015

Source: New York State Department of Labor (subcontract from Continuing Care Leadership Coalition)

Role: Principal Investigator

Title: Interventions to Reduce Acute Care Transfers (INTERACT) NY, and Caring Together Programs

Total Direct Amount/Dates: \$45,500/ Dec 2011-Dec 2016

Source: Veterans Affairs Health Services Research and Development Service (SDR 14-281-1)

Role: Co-Investigator

Title: Bridging care gaps: Information exchange between VA and non-VA sites of care

Total Direct Amount/Dates: \$180,000/ Jan 2015-Mar 2017

Source: National Institutes of Health/National Institute on Aging (R21 AG049289)

Role: Principal Investigator

Title: Multicomponent intervention to prevent delirium in nursing homes

Total Direct Amount/Dates: \$275,000/ Sept 2016-May 2019

Source: Donaghue Foundation Another Look Grant Program

Role: Principal Investigator

Title: Adverse effects of diuretics in nursing home residents with dementia

Total Direct Amount/Dates: \$159,507/ Nov 2016-Oct 2019

Source: Veterans Affairs Offices of Rural Health and Geriatrics and Extended Care

Role: Co-Investigator

Title: GRECC-Community Based Outpatient Clinic (CBOC) Connection (GRECC-Connect)

Total Direct Amount/Dates: \$1,630,710/ Oct 2012-Sept 2021

Source: Veterans Affairs Health Services Research and Development Service (IIR 14-049)

Role: Principal Investigator

Title: Regional data exchange to improve care for veterans after non-VA hospitalization

Total Direct Amount/Dates: \$1,156,711/ Feb 2016-Jan 2021

Source: Veterans Affairs Health Services Research and Development Service (SDR 19-150)

Role: Co-Investigator

Title: Improving Medication Use in Older Adults: the VIONE Program

Total Direct Amount/Dates: \$120,000/ Oct 2019-Mar 2021

Source: Veterans Affairs Health Services Research and Development Service (IIR-16-297)

Role: Co-investigator

Title: A Human Factors Investigation of Health Information Exchange: Tools to Support Providers' Coordination of Medications.

Total Direct Amount/Dates: \$1,200,000/ Mar 2018-Feb 2022

Source: Veterans Affairs Health Services Research and Development Service (121 HX003373-01A1)

Role: Co-investigator

Title: Optimizing Patient-Centered Routine Care at a Distance for Veterans with Chronic Conditions.

Total Direct Amount/Dates: \$ 179,778/ Jul 2021-Dec 2022

Source: National Institutes of Health/National Institute on Aging (R21 AG068612)

Role: Principal Investigator

Title: Behavioral and psychological symptoms of dementia and hypertension in nursing home residents.

Total Direct Amount/Dates: \$369,000/ Sept 2020-Aug 2022

Source: VA National Patient Safety Center

Role: Principal Investigator

Title: Center for Medication Safety in Aging

Total Direct Amount/Dates: \$1,365,950/ Oct 2018-Sep 2023

Source: Veterans Affairs Health Services Research and Development Service (IIR-14-049)

Role: Co-investigator

Title: Effect of Medication Management at Home via Pharmacy Home Televisits.

Total Direct Amount/Dates: \$1,200,000/ Oct 2019-Sep 2023

Source: National Institutes of Health/National Institute on Aging (R24 AG064025)

Role: Core Lead

Title: U.S. Deprescribing Research Network; Investigator Development Core

Total Direct Amount/Dates: \$5,000,000/ Sept 2019-Aug 2024

Source: National Institutes of Health/National Institute on Aging (P30 AG028741)

Role: Core Lead

Title: Pepper Center: Promoting Independence through Pain and Symptom Management; Pilot and Exploratory Studies Core

Total Direct Amount/Dates: \$3,997,140/ Jun 2010-May 2025

Source: National Institutes of Health/National Institute on Aging (P01 AG066605)

Role: Project Lead

Title: Deploying High Value Longitudinal Population-Based Data in Dementia (DEVELOP AD) Research; Unnecessary and harmful medication use in older adults with dementia

Total Direct Amount/Dates: \$1,874,909/ Sept 2020-Aug 2025

Source: National Institutes of Health/National Institute on Aging (R01 AG044518)

Role: Site Principal Investigator

Title: Better Assessment of Illness: Delirium Severity Measures for Person with and without Dementia (BASIL II)

Total Direct Amount/Dates: \$2,000,000/ Sept 2020-Sept 2025

## PEER-REVIEW ACTIVITIES:

### Editor

2012-16 Clinical Therapeutics (Geriatrics topic)

### Editorial Board

2003-06 Journal of the American Medical Directors Association

### Manuscript Review (1999-present, selected titles)

American Journal of Medicine  
Annals of Internal Medicine  
BMC Geriatrics  
BMJ Quality and Safety  
Cochrane Database of Systematic Reviews  
Health Affairs  
Health Services Research  
JAMA Internal Medicine  
JAMA Open  
Joint Commission Journal on Quality and Patient Safety  
Journal of Clinical Epidemiology  
Journal of General Internal Medicine  
Journals of Gerontology  
Journal of Hospital Medicine  
Journal of the American Geriatrics Society  
Journal of the American Medical Directors Association  
Medical Care  
The Gerontologist

### Grant Review (selected)

2003-05 Alberta Heritage Foundation for Medical Research: Programs in Health Services Research  
2006 Indiana Economic Development Corporation 21st Century Research and Technology Fund  
2007 The Wellcome Trust: Populations and Public Health Program  
2007 National Palliative Care Research Center: Junior Faculty and Pilot/ Exploratory Awards  
2008 Mount Sinai KL2 Clinical & Translational Research Career Development Award  
2009 NIH Challenge Grants Editorial Panels 3 and 26: ZRG1 HDM-G (58) and ZRG1 DM-P (58)  
2009 Alzheimer's Association Investigator Initiated Research Grants  
2012 CMS Innovations Initiative to Reduce Avoidable Hospitalizations among Nursing Facility Residents  
2012-14 VA Geriatrics Research, Education, and Clinical Center application review panel  
2016 NIH/National Institute on Aging "Collaborative Aging (in Place) Research using Technology (CART)" (U2C) Grant Review Panel  
2016-18 VA Health Services Research and Development HSR-3 Healthcare Informatics Scientific Merit Review Board  
2017-18 VA Health Services Research and Development HSR-1 Medical Care and Clinical Management; Health Professional Behavior Scientific Merit Review Board  
2017-present NIH/National Center for Advancing Translational Sciences CTSA Collaborative Innovation Award Review Panel  
2020-present VA Health Services Research and Development HSR-5 QUERI Scientific Merit Review Board  
2022 NIH/National Institute on Aging Special Emphasis Panel ZAG1 ZIJ-D (O3) Dementia Care

**TEACHING:**

| <b>Teaching Activity/Topic</b>                                                                               | <b>Level</b>   | <b>Role</b>        | <b>Learners</b> | <b>Time</b>       | <b>Years</b> |
|--------------------------------------------------------------------------------------------------------------|----------------|--------------------|-----------------|-------------------|--------------|
| Interactive Cases in Geriatrics, Weill Medical College/Cornell University                                    | Department     | Instructor         | 100             | 5 hours/<br>year  | 1997-99      |
| Physical Examination Course, Mount Sinai School of Medicine                                                  | Medical School | Preceptor          | 5               | 5 hours/<br>year  | 2000-01      |
| Breaking Bad News, Mount Sinai School of Medicine                                                            | Medical School | Preceptor          | 5               | 5 hours/<br>year  | 2000-01      |
| Journal Club, Dept of Geriatrics, Mount Sinai School of Medicine                                             | Department     | Instructor         | 15              | 10 hours/<br>year | 2000-02      |
| Inpatient Rounds, Acute Care for Elderly (ACE) Unit, The Mount Sinai Hospital                                | Department     | Teaching Attending | 10              | 1 month/<br>year  | 2000-02      |
| 3 <sup>rd</sup> Year Geriatrics Clerkship, Mount Sinai School of Medicine/ Long-term care                    | Medical School | Site Director      | 100             | 3 hours/<br>week  | 2001-05      |
| Core and Elective Curricula, Consortium of New York Geriatrics Education Ctrs                                | Regional       | Faculty            | 20              | 5 hours/<br>year  | 2008-15      |
| Inpatient Rounds, General Medical Unit, JJ Peters VA Medical Center                                          | Department     | Teaching Attending | 10              | 2 weeks/<br>year  | 2005-16      |
| Journal Club, The New Jewish Home                                                                            | Department     | Instructor         | 15              | 5 hours/<br>year  | 2000-present |
| Research Methods, Dept of Geriatrics, Mount Sinai School of Medicine                                         | Department     | Lecturer           | 20              | 5 hours/<br>year  | 2000-present |
| Medical and Allied Health professional trainees, JJ Peters VA Medical Center                                 | Department     | Lecturer           | 20              | 5 hours/<br>year  | 2002-present |
| Clinical Epidemiology and Health Services Research Masters Program, Weill Medical College/Cornell University | Division       | Lecturer           | 10              | 5 hours/<br>year  | 2009-present |

**LEADERSHIP:**

| <b>Organization</b>                                                                     | <b>Years</b> | <b>Role</b>                                       | <b>Accomplishments</b>                                                           |
|-----------------------------------------------------------------------------------------|--------------|---------------------------------------------------|----------------------------------------------------------------------------------|
| Reducing High Risk Polypharmacy Using Behavioral Economics (R01AG070054)                | 2023-present | Chair, Data safety and monitoring board (DSMB)    | Lead independent safety activities for this clinical trial                       |
| UAB Integrative Center for Aging Research                                               | 2022-present | Director                                          | Lead university-wide consortium of aging researchers                             |
| JJ Peters VA Medical Center Research Financial Conflict of Interest Committee           | 2010-22      | Chair                                             | Implement plans for investigators who have financial conflicts of interest       |
| Bronx Regional Health Information Organization (RHIO)                                   | 2008-22      | Chair, Research Committee; Member Executive Board | Facilitate implementation of and provider use of a Health Information Exchange   |
| The New Jewish Home Institutional Review Board (IRB)                                    | 2010-22      | Human Protections Officer                         | Administer and review research applications for human subjects risk              |
| JJ Peters VA Medical Center Medical Executive Committee                                 | 2013-22      | Member                                            | Help oversee clinical, research, and training operations of medical center       |
| American Medical Directors Association Transitions of Care Committee                    | 2011-20      | Member                                            | Contribute to annual meeting symposia, white papers                              |
| VA National Medication Reconciliation Workgroup                                         | 2007-present | Member                                            | Facilitate implementation of medication reconciliation; Analyzed national survey |
| Continuing Care Leadership Coalition (CCLC)                                             | 2007-2016    | Consultant                                        | Advise a nursing home advocacy and training organization on projects             |
| JJ Peters VA Medical Center Geriatrics Research Education and Clinical Center           | 2007- 22     | Associate Director - Research                     | Direct geriatrics research program with \$1.5 million annual expenditures        |
| NY State Workgroup: Medical Direction & Medical Care in Nursing Homes                   | 2010-12      | Member                                            | Develop standards for medical direction and medical care in nursing homes        |
| MSSM-VA Blue Ribbon Committee                                                           | 2010         | Member                                            | Made recommendations for procedures & policies across academic & VA campuses     |
| VA National Delirium Workgroup                                                          | 2006-12      | Member                                            | Author of letters promoting the concept of a mental status vital sign standard   |
| JJ Peters VA Medical Center REAP Program for Health Services Research                   | 2002-12      | Associate Director                                | Help direct health services research program with 13 investigators and staff     |
| JJ Peters VA Medical Center Research and Development Committee                          | 2004-12      | Member                                            | Review local research applications for scientific merit                          |
| JJ Peters VA Medical Center Patient Safety Committee                                    | 2005-06      | Co-leader subcommittee                            | Developed medication reconciliation protocol; praised in JCAHO review            |
| Mount Sinai School of Medicine Dept of Geriatrics Fellowship Program                    | 2001-present | Applicant Interviewer                             | Interview and evaluate geriatrics fellowship applicants                          |
| Mount Sinai School of Medicine 3 <sup>rd</sup> Year Medical Student Geriatrics Rotation | 2001-05      | Site Co-Director                                  | Directed rotation activities at the Jewish Home and Hospital                     |
| United States Department of Justice Civil Rights Division                               | 2002-04      | Consultant                                        | Reviewed documents from nursing home civil rights cases and wrote reports        |
| Columbia Univ School of Med Literature Reading Group: "Literature at Work"              | 1993-97      | Co-Founder                                        | Conducted lunchtime literary discussions with medical center staff and trainees  |
| Columbia Univ School of Medicine Dept of Medicine Grand Rounds                          | 1996-97      | Coordinator                                       | Invited and introduced nationally-known speakers at Medicine Grand Rounds        |
| Duke Univ School of Medicine Student Newspaper: "Shifting Dullness"                     | 1990-93      | Editor and Writer                                 | Produced 8-20 page monthly newsletter; Wrote monthly column                      |
| Duke Hospital Ethics Committee                                                          | 1992-93      | Member                                            | Developed hospital ethics policy and protocols; Provided consultation on cases   |



**MENTORSHIP:**

| <b>Mentee Name</b>   | <b>Level</b>    | <b>Years</b> | <b>Training Role</b>        | <b>Product</b>                                                                                                             | <b>Last Known Status</b>                                                                  |
|----------------------|-----------------|--------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Daniel Brodie, MD    | Medical Student | 1998-99      | Research project supervisor | Co-authored paper                                                                                                          | Professor, Pulmonary Medicine, Columbia University                                        |
| Anna Monias, MD      | Fellow          | 2000-02      | Research project supervisor | Co-authored papers (2); Co-authored abstracts (2); Small grant award                                                       | Staff Physician, Erickson Retirement Communities                                          |
| Isabel Polsky, MD    | Fellow          | 2001-02      | Research project supervisor | Co-authored abstract                                                                                                       | Geriatrics practice, Chicago, IL                                                          |
| Joseph Chiang, MD    | Medical Student | 2003         | Research project supervisor | Co-authored abstract; Am Fed Aging Research award                                                                          | Medical Director, Emergency Medicine, San Joaquin Gen Hos                                 |
| Cinthy Marturano, MD | Fellow          | 2003-04      | Research project supervisor | Co-authored paper; co-authored abstract                                                                                    | Associate Director, Geriatrics, Tufts Univ                                                |
| Hana Takusagawa, MD  | Medical Student | 2004         | Research project supervisor | Co-authored abstracts (2); Am Fed Aging Research award                                                                     | Ophthalmology Attending, Oregon Health & Sci Univ                                         |
| Melanie Suchanek, MD | Fellow          | 2004-06      | Research project supervisor | Co-authored abstract                                                                                                       | Geriatrics practice, Florida                                                              |
| Faraaz Shah, MD      | Medical Student | 2006-07      | Mentor                      | Co-authored paper; local presentation                                                                                      | Assistant Professor, Pulmonary Medicine, U. Pittsburgh, PA                                |
| Sophia Liu, MD       | Medical Student | 2006-08      | Mentor                      | Doris Duke Award; co-authored paper                                                                                        | Anesthesiology Practice, White Plains, NY                                                 |
| Michael Bogaisky, MD | Fellow          | 2006-07      | Research project supervisor | Local presentation                                                                                                         | Geriatrics Attending, Montefiore, NY                                                      |
| George Pourakis, MD  | Resident        | 2008         | Research project supervisor | Co-authored paper                                                                                                          | U.S. Public Health Service, NY                                                            |
| William Hung, MD     | Junior Faculty  | 2009-        | Mentor                      | AHRQ K08; multiple VA grants: HSRD pilot and IIR, T21, Rural Health; New York Academy of Medicine; Co-authored papers (14) | Professor, Geriatrics, Mount Sinai, NY                                                    |
| Hongsoo Kim, RN, PhD | Junior Faculty  | 2009-15      | Mentor                      | Fulbright Mid-Career Research award; Takemi Program in International Health; Co-authored papers (4)                        | Professor, Health Care Mgmt & Policy, School of Public Health, Seoul National Univ, Korea |
| Ruth Spinner, MD     | Fellow          | 2009-10      | Research project supervisor | Local presentation; research award                                                                                         | Medical Director, Jewish Home, NY                                                         |
| Ula Hwang, MD        | Junior Faculty  | 2009-        | Co-mentor                   | VA HSRD pilot grant; IIR grant                                                                                             | Professor, Emergency Medicine, Yale, CT                                                   |
| Karen Abrashkin, MD  | Resident        | 2010-12      | Research project supervisor | Quality improvement project award                                                                                          | Attending, Internal Medicine, Northwell Health, NY                                        |
| Melissa Garrido, PhD | Junior Faculty  | 2010-18      | Mentor                      | National Palliative Care Research Center career                                                                            | Associate Director, VA PEPREC,                                                            |

|                           |                  |         |                             |                                                                                  |                                                                     |
|---------------------------|------------------|---------|-----------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------|
|                           |                  |         |                             | development (CDA) award; VA HSRD CDA award; VA IIR grant; co-authored papers (3) | Associate Professor, Boston University, MA                          |
| Ravishankar Ramaswamy, MD | Fellow           | 2010-13 | Research project supervisor | Co-authored paper                                                                | Associate Professor, Geriatrics, Mount Sinai, NY                    |
| Dana Blumberg, MD         | Junior Faculty   | 2011-12 | Co-mentor                   | NIH K award                                                                      | Attending Physician, Ophthalmology, NY                              |
| Sanjum Sethi, MD          | Resident         | 2011-13 | Research project supervisor | Co-authored paper                                                                | Assistant Professor, Cardiology, Columbia Pres., NY                 |
| Sadie Sanchez, MD         | Resident         | 2011-14 | Research project supervisor | Co-authored paper                                                                | Occupational Med Practice, Denver, CO                               |
| Susanna O’Kula, MD        | Medical Student  | 2012-13 | Research project supervisor | Am Fed Aging Research award; co-authored paper                                   | Assistant Professor, Neurology, SUNY Downstate, NY                  |
| Sarah Redding, MD         | Fellow           | 2012-14 | Research project supervisor | Co-authored paper                                                                | Geriatrics Practice, Winston-Salem, NC                              |
| Stacie Deiner, MD         | Junior Faculty   | 2014-   | Mentor                      | NIA Beeson/K76 award; Co-authored papers (3)                                     | Professor, Anesthesiology, Dartmouth, NH                            |
| Pei Chen, MD              | Fellow           | 2014-15 | Mentor                      | Co-authored paper                                                                | Associate Professor, Geriatrics, UCSF                               |
| Haini Liao, MD, PhD       | Fellow           | 2014-16 | Mentor                      | Co-authored abstract                                                             | Attending Physician, Sutter Health, CA                              |
| Elizabeth Mann, MD        | Fellow           | 2014-17 | Mentor                      | Co-authored paper                                                                | Attending Physician, Dartmouth, NH                                  |
| Angela Laurio, PhD, RN    | Graduate Student | 2015-18 | PhD thesis committee member | Co-authored paper                                                                | Graduate student, Hunter College, NY                                |
| Jimmy Akrivos, PhD        | Graduate Student | 2016-18 | PhD thesis committee member |                                                                                  | Graduate student, Mount Sinai, NY                                   |
| Matthew Augustine, MD     | Junior Faculty   | 2017-   | Mentor                      | Emergency Medicine Foundation award; VA CDA application; Co-authored papers (2)  | Chief of Primary Care, JJP VA; Assistant Professor, Mount Sinai, NY |
| Wei Song, PhD             | Graduate Student | 2017-19 | Mentor                      | Co-authored papers (3)                                                           | Graduate student, University of Rochester, NY                       |
| Emily Franzosa, DrPH      | Junior Faculty   | 2020-   | Mentor                      | VA CDA; co-authored papers (5); VA SWIFT IVI award                               | Assistant Professor, Mount Sinai, NY                                |
| Abigail Baim-Lance, PhD   | Junior Faculty   | 2020-   | Mentor                      | Co-authored paper; VA HSRD Pilot award; VA SWIFT IVI award                       | Assistant Professor, Mount Sinai, NY                                |
| Himali Weerahandi, MD     | Junior Faculty   | 2020-   | Mentor                      | Co-authored papers (3); NHLBI K23                                                | Assistant Professor, NYU, NY                                        |
| Leah Blank, MD            | Junior Faculty   | 2021-   | Mentor                      | NIA K23                                                                          | Assistant Professor, Mount Sinai, NY                                |

## PUBLICATIONS:

### Original Research

1. Bowers, MD, Boockvar KS, Collinge, SK. Iridoid glycosides of *Chelone glabra* (Scrophulariaceae) and their sequestration by larvae of a sawfly, *Tenthredo grandis* (Tenthredinidae). *J. Chemical Ecology* 19 (4): 815-823 (1993).
2. Boockvar, KS, Granger, DL, Poston, RM, Maybodi, MM, Washington, MK, Hibbs, JB, Jr. Kurlander, RJ. Nitric oxide produced during murine listeriosis is protective. *Infection and Immunity* 62 (3): 1089-1100 (1994). PMC186228
3. Boockvar, KS, Brodie, HD, Lachs, MS. Nursing assistants detect behavior changes in nursing home residents that precede acute illness: development and validation of an illness warning instrument. *Journal of the American Geriatrics Society* 48 (9): 1086-1091 (2000).
4. Boockvar, KS, Lachs, MS. Development of definitions for acute illness in nursing home residents based on chart-recorded physical exam findings. *Journal of the American Medical Directors Association* 2: 279-284 (2001).
5. Boockvar, KS, Lachs, MS. Hospitalization risk following admission to an academic nursing home. *Journal of the American Medical Directors Association* 3: 130-135 (2002).
6. Halm EA, Magaziner J, Hannan EL, Wang JJ, Silberzweig, SB, Boockvar KS, Orosz GM, McLaughlin MA, Koval KJ, Siu AL. Frequency and impact of active clinical issues and new impairments on hospital discharge in patients with hip fracture. *Arch Intern Med* 163: 107-112 (2003).
7. Boockvar, KS, Halm, E, Penrod, J, Litke, A, Silberzweig, S, McLaughlin, M, Koval, K, Strauss, E, Magaziner, J, Siu, AL. Hospital readmissions after hospital discharge for hip fracture: surgical and non-surgical causes and effect on outcomes. *Journal of the American Geriatrics Society* 51 (3): 399-403 (2003).
8. Halm EA, Wang JJ, Boockvar KS, Penrod, JD, Silberzweig, SB, Magaziner J, Koval K, Siu, AL. Effects of blood transfusion on functional outcomes in hip fracture. *Transfusion* 43: 1358-65 (2003).
9. Boockvar, KS, Lachs, MS. Predictive value of nonspecific symptoms for acute illness in nursing home residents. *Journal of the American Geriatrics Society* 51: 1111-1115 (2003).
10. Boockvar, KS, Fishman, E, Kyriacou, CK, Monias, A, Gavi, S, Cortes, T. Adverse events due to discontinuations in drug use and dose changes in patients transferred between acute and long-term care facilities. *Archives of Internal Medicine* 164: 545-550 (2004).
11. Penrod, J, Boockvar, KS, Litke, A, Magaziner, J, Hannan, E, Halm, E, Silberzweig, S, Morrison, RS, Orosz, G, Koval, K, Siu, AL. Physical therapy and mobility two and six months after hip fracture. *Journal of the American Geriatrics Society* 52: 1114-1120 (2004). PMC1454714
12. Halm EA, Wang JJ, Boockvar KS, Penrod JD, Silberzweig SB, Magaziner J, Koval KJ, Siu AL. The effect of perioperative anemia on clinical and functional outcomes in patients with hip fracture. *J Ortho Trauma* 18(6):369-74 (2004). PMC1454739
13. Boockvar, KS, Litke, A, Penrod, J, Halm, E, Morrison, RS, Silberzweig, S, Magaziner, J, Koval, K, Siu, AL. Patient relocation in the six months after hip fracture: risk factors for fragmented care. *Journal of the American Geriatrics Society* 52: 1826-1831 (2004). PMC1447596

14. Boockvar, KS, Gruber-Baldini, A, Zimmerman, S, Burton, L, May, C, Magaziner, J. Outcomes of infection in nursing home residents with and without early hospital transfer. *Journal of the American Geriatrics Society* 53: 590-596 (2005).
15. Boockvar, KS, Fridman, B. Inter-facility transfer of patient information before and after HIPAA privacy measures. *Journal of the American Medical Directors Association*. 6:310-315 (2005).
16. Boockvar, KS, Marturano, C, Fridman, B. Ineffective communication of mental status information during care transfer of older adults. *Journal of General Internal Medicine*. 20: 1146-1150 (2005). PMC1490292
17. Siu, AL, Penrod, J, Boockvar, KS, Koval, K, Strauss, E, Morrison, RS. Early ambulation after hip fracture: effects on function and mortality. *Archives of Internal Medicine* 166: 766-771 (2006). PMC3045760
18. Siu, AL, Boockvar, KS, Penrod, J, Morrison, RS, Halm, E, Litke, A, Silberzweig, S, Teresi, J, Ocepek-Welikson, K, Magaziner, J. Effect of inpatient quality of care on functional outcomes in patients with hip fracture. *Medical Care* 44(9): 862-9 (2006). PMC3033757
19. Boockvar, KS, Carlson LaCorte, H, Giambanco, V, Fridman, B, Siu, A. Medication reconciliation for reducing drug discrepancy adverse events. *American Journal of Geriatric Pharmacotherapy* 4 (3): 236-243 (2006).
20. Boockvar, KS, Meier, D. Palliative care for frail older adults. *JAMA* 296 (18): 2245-53 (2006).
21. Boockvar, KS, Burack, O. Organizational relationships between nursing homes and hospitals and quality of care during hospital-nursing home patient transfer. *Journal of the American Geriatrics Society* 55 (7): 1078-84 (2007).
22. Zimmerman, S, Gruber-Baldini, A, Early, N, Hebel, J, Burton, L, Boockvar, KS, Taler, G, Quinn, C, Magaziner, J. Nursing home characteristics related to Medicare costs for residents with and without dementia. *Am J Alzheimer's Disease and Other Dementias*. 23(1):57-65 (2008).
23. Ross, J, Keyhani, S, Keenan, P, Bernheim, S, Penrod, J, Boockvar, KS, Krumholz, H, Siu, AL. Dual use of Veterans Affairs services and use of recommended ambulatory care. *Medical Care* 46(3):309-16 (2008).
24. Ross, J, Keyhani, S, Keenan, P, Bernheim, S, Penrod, J, Boockvar, KS, Krumholz, H, Siu, AL. Use of Recommended Ambulatory Services: Is the VA Quality Gap Narrowing? *Archives of Internal Medicine* 168 (9): 950-8 (2008).
25. Boockvar, KS, Gruber-Baldini, A, Stuart, B, Zimmerman, S, Magaziner, J. Medicare expenditures for nursing home residents triaged to nursing home or hospital for acute infection. *Journal of the American Geriatrics Society* 56 (7): 1206-12 (2008). PMC3766964
26. Boockvar, KS, Liu, S, Goldstein, N, Nebeker, J, Siu, AL, Fried, T. Prescribing discrepancies likely to cause adverse drug events after patient transfer. *Quality and Safety in Health Care* 18(1): 32-6 (2009). PMC2728360
27. Gruber-Baldini, A, Stuart, B, Zuckerman, I, Hsu, V, Boockvar, KS, Zimmerman, S, Kittner, S, Quinn, C, Hebel, J, May, C, Magaziner, J. Sensitivity of nursing home cost comparisons to method of dementia diagnosis ascertainment. *International Journal of Alzheimer's Disease* (2009). PMC2880523
28. Shah, F, Burack, O, Boockvar, KS. Perceived barriers to communication between hospital and nursing home at time of patient transfer. *Journal of the American Medical Directors Association* 11:239-245 (2010).

29. Boockvar, KS, Livote, E, Goldstein, N, Nebeker, J, Siu, AL, Fried, T. Electronic health records and adverse drug events after patient transfer. *Quality and Safety in Health Care* 19(5):e16 (2010). PMC2965207
30. Kim, H, Capezuti, E, Kovner, C, Zhao, Z, Boockvar, KS. Prevalence and Predictors of Adverse Events in Older Surgical Patients: Impact of the Present-on-Admission Indicator. *Gerontologist* 50(6):810-820 (2010).
31. Hung, W, Liu, S, Boockvar, KS. A prospective study of symptoms, function, and medication use during acute illness in nursing home residents: design, rationale and cohort description. *BMC Geriatrics* 10:47-54 (2010). PMC2916000
32. Kim, H, Ross, J, Melkus, G, Zhao, Z, Boockvar, KS. Scheduled and unscheduled hospital readmissions among patients with diabetes. *American Journal of Managed Care* 16: 760-7 (2010). PMC3024140
33. Kushniruk AW, Santos SL, Pourakis G, Nebeker JR, Boockvar KS. Cognitive analysis of a medication reconciliation tool: applying laboratory and naturalistic approaches to system evaluation. *Studies in Health Technology and Informatics*. 164:203-7 (2011).
34. Boockvar, KS, Blum, S, Kugler, A, Livote, E, Mergenhagen, K, Nebeker, J, Signor, D Sung, S, Yeh, J. Effect of admission medication reconciliation on adverse drug events from admission medication changes. *Archives of Internal Medicine* 171 (9): 860-1 (2011).
35. Boockvar, KS, Santos, S, Kushniruk, A, Johnson, C, and Nebeker, J. Medication reconciliation: Barriers and facilitators from the perspectives of resident physicians and pharmacists. *Journal of Hospital Medicine* 6: 329-337 (2011).
36. Hung, W, Ross, J, Boockvar, KS, Siu, A. Recent Trends of Chronic Disease, Impairment and Disability among Older Adults in the United States. *BMC Geriatrics* 11: 47 (2011).
37. Kim, H, Helmer, D, Zhao, Z, Boockvar, KS. Potentially Preventable Hospitalizations among Older Adults with Diabetes. *American Journal of Managed Care* 17 (11): e419-26 (2011).
38. Chester, JG, Harrington, MB, Rudolph, J, on behalf of the VA Delirium Working Group (Boockvar, KS, member). Serial administration of a modified Richmond Agitation and Sedation Scale for delirium screening. *Journal of Hospital Medicine* 7(5):450-3 (2012).
39. Hung, W, Ross, J, Boockvar, KS, Siu, A. Association of Chronic Diseases and Impairments with Disability in Older Adults: A Decade of Change? *Medical Care* 50: 501-507 (2012). PMC3353149
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41. Tena-Nelson, R, Santos, K, Weingast, E, Amrhein, S, Ouslander, J, Boockvar, KS. Reducing Potentially Preventable Hospital Transfers: Results from a Thirty Nursing Home Collaborative. *Journal of the American Medical Directors Association* 13(7):651-6 (2012).
42. Scandrett, KG, Anichini, MA, Berdes, C, Estabrook, S, Boockvar, KS, Saliba, D, Emanuel, L, Taylor, SL. Patient Safety in the Nursing Home: How Nursing Staff Assess and Communicate About Change in Condition. *Journal of Gerontological Nursing* 38 (11): 28-37 (2012).

43. Boockvar, KS, Signor, D, Ramaswamy, R, Hung WW. Delirium during Acute Illness in Nursing Home Residents. *Journal of the American Medical Directors Association* 14(9):656-60 (2013).
44. Hung, WW, Boockvar, KS, Barczi, SR, Rossi, MI, Caprio, T, Kochersberger, GG., Howe, J, Thielke, SM, Kramer, J. A Multi-site Geriatric Education Program for Rural Providers in the Veteran Healthcare System (GRECC-Connect). *Gerontology and Geriatrics Education* 35(1):23-40 (2014).
45. Garrido, M, Boockvar, KS. Perceived Symptom Targets of Antidepressants, Anxiolytics, and Sedatives: The Search for Modifiable Factors that Improve Adherence. *Journal of Behavioral Health Services & Research* 41(4): 529-538 (2014).
46. Sanchez, S, Sethi, SS, Santos, SL, Boockvar, KS. Implementing medication reconciliation from the planner's perspective: a qualitative study. *BMC Health Services Research* 14:290 (2014). PMC4226973
47. Garrido, M, Prigerson, HG, Penrod, JD, Jones, S, Boockvar, KS. Benzodiazepine and sedative-hypnotic use among older seriously ill veterans: Choosing wisely? *Clinical Therapeutics* 36(11):1547-1554 (2014).
48. Redding, SE, Liu, S, Hung, W, Boockvar, KS. Opioid interruptions, pain, and withdrawal symptoms in nursing home residents. *Clinical Therapeutics*; 36(11): 1555-1563 (2014).
49. Chen, P, Dowal, S, Schmitt, E, Habtemariam, D, Hshieh, T, Victor, R, Boockvar, KS, Inouye, SK. Hospital Elder Life Program in the real world: the many uses of the Hospital Elder Life Program website. *Journal of the American Geriatrics Society* 63(4): 797-803 (2015).
50. Kim, H, Hung, W, Paik, MC, Ross, JS, Zhao, Z, Kim GS, Boockvar, KS. Predictors and outcomes of unplanned readmission to a different hospital. *International Journal of Quality in Health Care* 27(6):513-9 (2015).
51. Boockvar, KS, Teresi, JA, Inouye, SK. Preliminary Data: an Adapted Hospital Elder Life Program to Prevent Delirium and Reduce Complications of Acute Illness in Long Term Care Delivered by Certified Nursing Assistants. *Journal of the American Geriatrics Society* 64(5):1108-13 (2016).
52. O'Kula, SS, Gottesman, E, Jones, S, Signor, D, Hung, WW, Boockvar, KS. Transitional Care Outcomes among Spanish/English, Bilingual Veterans. *Journal of the American Geriatrics Society* 64(5):1132-3 (2016).
53. Garrido, M, Prigerson, HG, Neupane, S, Penrod, JD, Johnson, CE, Boockvar, KS. Mental Illness and Mental Health Care Receipt among Seriously Ill Hospitalized Veterans. *J. Palliative Med* 20(3):247-252 (2017).
54. Lindquist, LA, Miller, RK, Saltsman, WS, Carnahan, J, Rowe, TA, Arbaje, AI, Werner, N, Boockvar, KS, Steinberg, K, and Baharlou, S. SGIM-AMDA-AGS Consensus Best Practice Recommendations for Transitioning Patients' Healthcare from Skilled Nursing Facilities to the Community. *J. General Internal Medicine* 32(2):199-203 (2017).
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58. Deiner, S, Liu, X, Lin, H-M, Sieber, F, Boockvar, K, Sano, M, Baxter, M. Subjective cognitive complaints in patients undergoing major non-cardiac surgery: a prospective single centre cohort trial. *British Journal of Anesthesia*. Jun; 122(6):742-750 (2019).
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60. Boockvar, KS, Song, W, Lee, S, Intrator, O. Hypertension treatment in U.S. long-term nursing home residents with and without dementia. *Journal of the American Geriatrics Society*. Oct;67(10):2058-2064 (2019).
61. Langhoff E, Laurio A, Siu AL, Boockvar KS, Bund L, Hung WW. Quality Tracking of Good Care: The VA and non-VA experience. *Population Health Management*. 23(1):92-100. (2020).
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65. Deiner, S, Liu, X, Lin, H-M, Sieber, F, Boockvar, K, Sano, M, Baxter, M. Does postoperative cognitive decline result in new disability after surgery? *Annals of Surgery*. 274(6):e1108-e1114 (2021).
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### **Editorials and Commentaries**

1. Flaherty, J, Rudolph, J, Shay, K, Kamholz, B, Boockvar, KS, Shaughnessy, M, Shapiro, R, Stein, J, Weir, C, and Edes, T. Delirium is a serious and unrecognized problem: Why assessment of mental status should be the sixth vital sign. Journal of the American Medical Directors Association. 8 (5): 273-5 (2007).
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### **Invited Papers**

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#### **White Papers, Guidelines, Directives**

1. Burke, R, Levy, C, Davidson, E, Boockvar, K, Steinberg, K, Saltsman, W, Levy, SM, Gonzalez, J, Baird, R, Parulekar, M, Lett, JE. Dementia in Care Transitions. White paper for the American Medical Directors Association. Feb 4, 2016.
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#### **Book Chapters**

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## Letters to Editor

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## Press

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#### **Abstracts (first, middle, or senior author)**

1. Nursing home staff rely on "atypical" signs in residents for detecting illness. Society of General Internal Medicine, Chicago, IL, 1998
2. Testing of a new scale for nursing assistants to record acute changes in status in nursing home residents. Society of General Internal Medicine, San Francisco, CA, 1999
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4. Measuring risk for inpatient hospitalization in newly admitted nursing home residents. American Geriatrics Society, Chicago, IL, 2001

5. Predictive value of nonspecific symptoms in nursing home residents. Gerontological Society of America, Chicago, IL, 2001.
6. Adverse drug events related to inter-institutional transfers. American Medical Directors Association, San Diego, CA, 2002.
7. Adverse drug events are common in both directions of hospital/nursing home transfer. American Geriatrics Society, Washington, DC, 2002.
8. Causes and consequences of hospital readmission after hospital discharge for hip fracture. American Geriatrics Society, Washington, DC, 2002.
9. Predictors of recovery and non-recovery of activities of daily living function after hospitalization. American Medical Directors Association, Orlando, FL, 2003.
10. Outcomes of infection in nursing home residents with and without early hospital transfer. American Geriatrics Society, Baltimore, MD, 2003.
11. N-of-1 medication trials for agitated behavior in residents with dementia. American Medical Directors Association, Phoenix, AZ, 2004
12. Inter-facility communication of patient health information before and after implementation of HIPAA privacy protection standards. American Geriatrics Society, Las Vegas, NV, 2004.
13. Mental status descriptions in inter-facility transfer documents: what do they convey? American Geriatrics Society, Las Vegas, NV, 2004.
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15. CNAs' observations of behavior and medication use: N-of-1 trial implications. American Geriatrics Society, Orlando, FL, 2005.
16. Discontinuation of standing opioid orders in individuals transferred from nursing home to hospital. American Geriatrics Society, Chicago, IL, 2006.
17. Predicting adverse drug events associated with patient transfer. Academy Health, Seattle, WA, 2006.
18. Organizational relationships between nursing homes and hospitals and quality of care during hospital-nursing home patient transfer. American Geriatrics Society, Seattle, WA, May 2007
19. Predictive value of prescribing discrepancies for adverse drug events after patient transfer. VA Health Services Research and Development Conference. Baltimore, MD, February 2008
20. Medication reconciliation in a computerized system: study of provider and computer interface. American Geriatrics Society, Washington, DC, May 2008.
21. Risk of harm from prescribing discrepancies at the time of nursing home-hospital transfer with and without a shared, across-site, electronic prescribing system. Academy Health, Washington, DC, June 2008.

22. Providers' approach to medication reconciliation in a computerized system. VA Health Services Research and Development Conference. Baltimore, MD, February 12, 2009.
23. Changes in functional status during acute illness episodes in nursing home residents. American Geriatrics Society, Chicago, IL, May 2009.
24. A quantitative and qualitative evaluation of medication reconciliation: effect on medication safety and barriers to provider adherence. VA National Medication Reconciliation Initiative, Salt Lake City, UT, May 2010.
25. A quantitative and qualitative evaluation of medication reconciliation: effect on medication safety and barriers to provider adherence. VA Office of Quality and Performance Systems Redesign Conference, San Francisco, CA June 2010.
26. Effect of admission medication reconciliation on adverse drug events in hospitalized veterans. VA Health Services Research and Development Conference, Washington, DC, February 16, 2011.
27. Cognitive analysis of a medication reconciliation tool: Applying laboratory and naturalistic approaches to system evaluation. Information Technology and Communications in Health Conference, Victoria, BC, February 24, 2011.
28. Delirium during acute illness in nursing home residents. American Geriatrics Society, National Harbor, MD, May 14, 2011.
29. A RHIO-enhanced care transitions intervention. VA Office of Quality and Performance Systems Redesign Conference, Las Vegas, NV, September 21, 2011.
30. Changes in functional status after acute illness in nursing home residents. American Medical Directors Association, San Antonio, TX, March 8, 2012.
31. Delirium during acute illness in nursing home residents. American Medical Directors Association, San Antonio, TX, March 9, 2012.
32. Nursing home improvement collaborative to reduce avoidable hospital transfers in New York City. American Geriatrics Society, Seattle, WA, May 4, 2012.
33. The Spanish-English Language Barrier as a Factor in Veterans' Care Transitions. American Geriatrics Society, Grapevine, TX May 4, 2013.
34. Choosing Wisely: Benzodiazepine and Sedative-Hypnotic Use among Older Seriously Ill Veterans. Gerontological Society of America, New Orleans, LA November 21, 2013
35. Adapting A Transitional Care Approach to Veterans in the Outpatient Setting (PACT). Gerontological Society of America, New Orleans, LA November 21, 2013
36. Opioid Interruptions, Pain, and Withdrawal Symptoms during Acute Illness in Nursing Home Residents. American Geriatrics Society, Orlando, FL, May 15, 2014
37. An Adapted Hospital Elder Life Program (HELP) to Prevent Delirium in Long-term Care. American Geriatrics Society, Orlando, FL, May 16, 2014
38. Innovative Approaches to Medication Reconciliation within the Veterans Health Administration: Designing the 'Magic Pill'. American Medical Informatics Association Annual Symposium, Washington, DC, November 17, 2014

39. Characteristics of patients receiving a multicomponent delirium-prevention intervention in the nursing home setting. American Geriatrics Society, Washington, DC, May 15, 2015
40. Availability and Impact of Non-VA Medication Information in a Regional Health Information Exchange Tool. VA Health Services Research and Development Conference, Philadelphia, PA, July 9, 2015
41. Barriers and Facilitators to VA Providers' Use of a Regional Health Information Exchange Tool to Access non-VA Patient Health Information. VA Health Services Research and Development Conference, Philadelphia, PA, July 8, 2015
42. Human Factors of Health Information Exchange: Barriers and Facilitators to Use of the VA's CPRS and a Regional Health Information Exchange. American Medical Informatics Association Annual Symposium, Chicago, IL, November 12, 2015.
43. An Adapted Hospital Elder Life Program to Prevent Delirium and Reduce Complications of Acute Illness in Long Term Care (HELP-LTC). American Medical Directors Association annual conference, Orlando, FL, March 17, 2016.
44. Adverse drug events and medication problems in Hospital-at-Home patients. American Geriatrics Society, Long Beach, CA, May 19, 2016.
45. One-year Outcomes of an Adapted Hospital Elder Life Program to Prevent Delirium in Long-term Care. American Geriatrics Society, Long Beach, CA, May 21, 2016.
46. Regional data exchange to improve care for veterans after non-VA hospitalization. VA Informatics Field Meeting, Indianapolis, IN, September 29, 2016.
47. Adaptation of HELP to the Nursing Home Setting: Preliminary Feasibility and Outcome Data. American Geriatrics Society, San Antonio, TX, May 18, 2017.
48. Event Notification in Support of Population Health: The Promise and Challenges from a Randomized Controlled Trial. MEDINFO 16<sup>th</sup> World Congress on Medical and Health Informatics. Hangzhou, China. August 21-25, 2017.
49. Even in Urban Environments, Distance matters for Older Veterans with Declining Health. Society of General Internal Medicine, Denver, CO, April 12, 2018.
50. Antihypertensive drug de-intensification and recurrent falls in long-term care. American Geriatrics Society, Orlando, FL, May 3, 2018.
51. Antihypertensive drug de-intensification and recurrent falls in long-term care: a propensity score analysis. AcademyHealth, Seattle, WA, June 25, 2018
52. Notifying VA Primary Care Providers of Acute Care Events outside the VA Health System: Perceptions from Veterans. American Medical Informatics Association Annual Symposium. San Francisco, CA, November 6, 2018
53. Preoperative Frailty increases the risk for postoperative delirium in major non-cardiac surgical patients. American Delirium Society. Boston, MA, June 16, 2019.
54. Hypertension Treatment in U.S. Nursing Home Residents With and Without Dementia. Gerontological Society of America. Austin, TX, November 17, 2019.

55. Goals of Care during the COVID-19 Pandemic: Implementing DNI, DNR, and DNH Orders in a Skilled Nursing Facility. American Medical Directors Association. March 12, 2021.
56. Medical and Nursing Care of Residents with COVID-19 in a Large Urban Nursing Home. American Geriatrics Society. May, 2021
57. Discharge Practices in Skilled Nursing Facilities affected by COVID-19. American Geriatrics Society. May 2021.
58. Depressive symptoms in nursing home residents with COVID-19. American Geriatrics Society. May 2021.
59. Rehabilitation Intensity in COVID-19 Patients in a Skilled Nursing Facility. American Geriatrics Society. May 2021.
60. Barriers and facilitators to implementation of clinical deprescribing tools: Lessons learned from a national, interprofessional deprescribing collaborative. American Geriatrics Society. May 2021.
61. DNR Linked to Reduced Depressive Symptoms in Nursing Home Residents During COVID-19 Illness. Gerontological Society of America. November 2021.
62. Variables impacting Nursing Home Goals of Care Discussions and Order Implementation During COVID-19. Gerontological Society of America. November 2021.
63. It was trial by fire: Recommendations for building a stronger nursing home workforce after COVID-19. Gerontological Society of America. November 2021.
64. Challenges Reported by Certified Nursing Assistants During COVID-19: A Qualitative Study. Gerontological Society of America. November 2021.
65. Rehabilitation intensity in COVID-19 patients in a skilled nursing facility. New York State Occupational Therapy Association Annual Meeting, November 2021.
66. Using clinical indicators to optimize therapeutic outcomes in geriatric patients with COVID-19. New York State Occupational Therapy Association Annual Meeting, November 2021.
67. Alerting Primary Care Teams to Out-of-Network Acute Care Events using Health Information Exchange: Impact on Timely Follow-Up. American Medical Informatics Association Annual Symposium. San Diego, CA, November 3, 2021.
68. Relationships between distressed behavior, blood pressure, and antihypertensive treatment in nursing home residents with dementia. American Geriatrics Society. May 2022.
69. Short-term delirium in nursing home residents after COVID-19 vaccination: a case series. American Geriatrics Society. May 2022.
70. Occupational, physical, and speech therapy intensities in COVID-19 patients in a skilled nursing facility. American Occupational Therapy Association Annual Meeting, San Antonio, TX
71. Using clinical indicators to optimize therapeutic outcomes in geriatric patients with COVID-19. American Occupational Therapy Association Annual Meeting, San Antonio, TX



72. Mitigating COVID-19-Related Complications to Promote Successful Rehabilitation and Discharge. Society for Post-Acute and Long-Term Care Medicine's Annual Conference March 9 – 12, 2023
73. Clinicians' user experience with VA's health information exchange technologies: Think-aloud during simulated medication reconciliation. VA HSR&D-QUERI National Meeting; February or March 2023: United States Department of Veterans Affairs; 2023

#### **LECTURES AND PRESENTATIONS:**

1. Nursing home staff rely on "atypical" signs in residents for detecting illness. Society of General Internal Medicine, Chicago, IL, 1998.
2. Developing and testing of a new instrument to screen for illness in nursing home residents. Society for Clinical Epidemiology and Health Care Research, Carmel, CA, 1999.
3. Into and out of the great unknown: transfers between hospital and nursing home. Research Methodology Core, Cornell University, New York, NY, 2000.
4. Predictive value of nonspecific symptoms in nursing home residents. Gerontological Society of America, Chicago, IL, 2001.
5. Acute illness, hospitalization, and resource use early in nursing home stay. Department of Health Policy Grand Rounds, Mount Sinai School of Medicine, New York, NY, 2001.
6. Improving continuity of care between nursing homes and hospitals. Medical Department Grand Rounds, The Jewish Home and Hospital, New York, NY, 2001.
7. Causes and consequences of hospital readmission after hospital discharge for hip fracture. American Geriatrics Society, Washington, DC, 2002.
8. Adverse events caused by transitions in care location. Research Methodology Core, Cornell University, New York, NY, 2002.
9. Epidemiology and prevention of falls in older adults. Geriatrics Symposium, Somerset Medical Center, Somerville, NJ, 2002.
10. Epidemiology and prevention of falls in older adults. Department of Medicine Grand Rounds. Bronx Veterans Affairs Medical Center, Bronx, NY, 2002.
11. Patient relocation during care of older adults. Department of Geriatrics Research Conference, Mount Sinai School of Medicine, New York, NY, 2003.
12. N-of-1 medication trials for agitated behavior in residents with dementia. American Medical Directors Association, Phoenix, AZ, 2004
13. Primary care of nursing home residents: Lessons for all. Division of General Internal Medicine Grand Rounds. Mount Sinai School of Medicine, New York NY, 2004.
14. Adverse drug events in patients transferred between nursing homes and hospitals. Annual Research Day, Bronx Veterans Affairs Medical Center, Bronx, NY 2004.

15. Harm from drug prescribing changes during care transfer. Invited speaker, Research Conference, Clinical Epidemiology Resource Center, VA Connecticut Health Care System, West Haven, CT, 2005.
16. Harm from drug prescribing changes during care transfer. Annual Research Day, Bronx Veterans Affairs Medical Center, Bronx, NY 2005.
17. Improving continuity of care for patients transferred between hospital and nursing home. Grand Rounds, Jewish Home and Hospital, Bronx, NY 2005.
18. Improving continuity of drug prescribing during transfer between nursing home and hospital. Symposium Organizer and Presenter, Jewish Home and Hospital and The New York Academy of Medicine, New York, NY 2005.
19. Outcomes of infection in nursing home residents with and without early hospital transfer. Center for Health Care Research and Policy, Case Western Reserve University/Metrohealth Medical Center, Cleveland, OH 2005.
20. Improving care for patients transferred between nursing home and hospital. Featured speaker, Inaugural Transitional Care Retreat, Columbia-Presbyterian Medical Center, New York, NY 2005.
21. Solutions for geriatrics providers: Improving care for patients transferred between care settings. Metropolitan Area Geriatrics Society, The New York Academy of Medicine, New York, NY 2006.
22. Improving care for patients transferred between care settings. Division of Geriatrics Grand Rounds, Cornell University, New York, NY, 2006.
23. Adverse drug events associated with patient transfer between sites of care. Division of Geriatrics Grand Rounds, University of Utah and Salt Lake City VA Geriatrics Research Education and Clinical Center, Salt Lake City, UT, 2006.
24. Care of the patient with a fractured hip. NICHE (Nurses Improving Care for Healthsystem Elders) Clinical Update Conference, New York, NY, 2/7/07.
25. Medication reconciliation for reducing drug discrepancy adverse events. VA Health Services Research and Development Career Development Conference. Washington, DC, February 2007
26. Medication reconciliation for reducing adverse drug events. Annual Research Day, James J. Peters Veterans Affairs Medical Center, Bronx, NY 5/14/07.
27. Palliative care for frail older adults. Pain Management and End-of-Life Care Continuing Medical Education Course. University of California, San Francisco, CA 6/8/07.
28. Palliative care for frail older adults. Geriatrics Research Education and Clinical Center Conference, San Francisco VA Medical Center, San Francisco, CA 6/8/07.
29. The Process of Patient Transfer: Measuring Quality of Care. Research Methodology Core, Cornell University, New York, NY, 9/14/07.
30. Continuity of care during healthcare transitions. Plenary Session, North Dakota Health Care Review Quality Forum. Fargo, ND, 10/10/07.

31. Medication reconciliation in a computerized system: study of provider and computer interface. Annual Research Day, James J. Peters Veterans Affairs Medical Center, Bronx, NY 5/13/08.
32. Continuity of care during healthcare transitions. Clinical and Technology Conference. Home Care Association of New York State, Albany, NY 11/5/08
33. Palliative care, end-of-life care, and the frail elderly. American College of Physicians Internal Medicine Annual Meeting, Philadelphia, PA, 4/25/09.
34. New directions in long-term care: A medical perspective. Talk followed by panel discussion. Bergen Regional Medical Center, Bergen, NJ, 12/17/09.
35. Improving transitions between hospital and nursing home. Jewish Home Lifecare Research Rounds, New York, NY, 3/23/10.
36. Career development awards: a step towards success in academic geriatrics: The awardee's perspective. American Geriatrics Society Annual Meeting, Orlando, FL, 5/14/10.
37. VA Medication Reconciliation Research Panel. VA National Medication Reconciliation Initiative Annual Meeting, Salt Lake City, UT, 5/19/10.
38. Medication management during transitions. Plenary Presentation, National Nurse Practitioner Week. Visiting Nurse Service of New York, New York, NY, 11/12/10.
39. Medication reconciliation: A quantitative and qualitative evaluation. VA Medication Reconciliation Journal Club, 3/18/11.
40. Transitional care and medication safety. Invited Presentation, Aging Institute, University of Pittsburgh, Pittsburgh, PA, 4/7/11.
41. Improving quality of care during healthcare transitions. Geriatrics Research, Education, and Clinical Center, VA Pittsburgh Healthcare System, Pittsburgh, PA, 4/8/11.
42. Fulfilling the promise of medication reconciliation. Institute for Safe Medication Practices-Canada, webinar with 403 callers across Canada, 6/14/11.
43. The evidence for INTERACT. Jewish Home Lifecare Research Rounds, New York, NY, 8/3/11.
44. Fulfilling the promise of medication reconciliation. High 5s Project, World Health Organization, webinar with callers from Canada, Australia, France, Netherlands, and Germany, 9/21/11.
45. Medication management during transitions. Invited Presentation, The Nurse Practitioner Association of New York State annual meeting. Saratoga Springs, NY, 10/29/11.
46. Use of health information exchange to improve care transitions. Division of Geriatrics Grand Rounds, Cornell University, New York, NY, 12/15/11.
47. Optimizing medication reconciliation during care transitions. Continuing Education Webinar, American Medical Directors Association, 12/20/11.

48. Use of health information exchange to improve care transitions. Work in Progress, VAMC Health Services Research and Development Center of Excellence, Indianapolis, IN, 1/13/12 (videoconference).
49. Reducing hospital transfers: Results from a 32-facility NY Collaborative. Jewish Home Lifecare Research Rounds, New York, NY, 1/24/12.
50. Optimizing medication reconciliation during care transitions. American Medical Directors Association annual meeting. San Antonio, TX, 3/8/12.
51. Optimizing medication reconciliation during care transitions. Talk followed by panel discussion during symposium on Managing Skilled Nursing Facility/Hospital Transitions. Sponsored by Aligning Forces for Quality, Merck, and Highmark Blue Shield. Harrisburg, PA, 3/22/12
52. Improving veterans transitions out of non-VA hospitals: a trial of HIE-enhanced care coordination. Work in Progress, VAMC Health Services Research and Development Center of Excellence, Indianapolis, IN, 4/20/12 (videoconference).
53. An evaluation of the INTERACT NY program. Continuing Care Leadership Coalition, New York, NY, 6/19/12.
54. Fulfilling the promise of medication reconciliation. Department of Medicine Grand Rounds, James J. Peters VA Medical Center, Bronx, NY, 11/15/12.
55. Hospital Elder Life Program (HELP) in extended care facilities. 11<sup>th</sup> International HELP Conference, Pittsburgh, PA, 4/4/13.
56. Fulfilling the promise of medication reconciliation. Annual Research Day, James J. Peters VA Medical Center, Bronx, NY, 5/17/13.
57. Initial experience with the Elder Life Program to prevent delirium in long-term care. Jewish Home Lifecare Research Rounds, New York, NY, 6/5/13.
58. INTERACT NY Phase 2 evaluation and insights from research on medication reconciliation. Continuing Care Leadership Coalition, New York, NY, 11/14/13.
59. Hospital Elder Life Program (HELP) in extended care facilities. 12<sup>th</sup> International HELP Conference, Pittsburgh, PA, 3/28/14.
60. Transitional Care: Issues and Interventions. Senior Living Business Interactive webcast, 4/17/14.
61. Insights from Research on Medication Reconciliation. VA Medication Use Crisis national webcast, 4/29/14.
62. Elder Life Program to prevent delirium in long-term care. Jewish Home Lifecare Research Rounds, New York, NY, 5/23/14.
63. Improving medication management during transitions. Clinical Developments in Geriatrics VA national webcast, 2/26/15.
64. Elder Life Program to prevent delirium in long-term-care. Jewish Home Lifecare Research Rounds, New York, NY, 4/14/15.

65. Rationale, design, and testing of a new care model to prevent delirium in long-term care. Research Methodology Core, Weill-Cornell Medical College, New York, NY, 12/4/15.
66. CCLC's 2012-13 Caring Together Quality Indicator Survey Program: Evaluation. Jewish Home Lifecare Research Rounds, New York, NY, 2/16/16.
67. Mental Status Information Transfer in Patients with Dementia. American Medical Directors Association annual conference, Orlando, FL, 3/18/16.
68. Preliminary Data: HELP-LTC to Prevent Delirium and Complications of Acute Illness in Nursing Home Residents. 14<sup>th</sup> International HELP Conference, Pittsburgh, PA, 4/8/16.
69. Improving Medication Management during Transitions. Department of Medicine, University of Nebraska Medical Center, Omaha, NE, 3/28/17.
70. Medication de-intensification in veterans with dementia and hypertension. VA Geriatrics and Extended Care Data Analysis Center Technical Meeting, Rochester, NY, 5/3/17.
71. The Future of Academic Geriatrics. Division of Geriatrics, University of Nebraska Medical Center, Omaha, NE, 6/6/17.
72. SGIM-AMDA-AGS Consensus Best Practice Recommendations for Transitioning Patients' Healthcare from Skilled Nursing Facilities to the Community, The New Jewish Home Research Rounds, New York, NY, July 2017
73. Best Practice Recommendations for Transitioning Patients' Healthcare from Skilled Nursing Facilities to the Community, Pennsylvania Medical Directors Association, Webinar, September, 2017.
74. Interdisciplinary Approaches for Preventing Delirium and Falls in the Nursing Home Setting, National Falls Prevention Conference, Philadelphia, PA, 11/15/17.
75. Falling and antihypertensive drug de-intensification in older vulnerable veterans, VA Geriatrics and Extended Care Data Analysis Center Webinar, 3/6/18.
76. Blood Pressure Treatment Intensity and Recurrent Falls in Long-Term Care, The New Jewish Home Research Rounds, New York, NY, 5/29/18.
77. Blood Pressure Treatment Intensity and Recurrent Falls in Long-Term Care, Continuing Care Leadership Coalition, Quality Improvement Committee, New York, NY, 9/13/18.
78. Geriatrics syndromes: Current and future approaches, Grand Rounds, Department of Internal Medicine, BronxCare, Bronx, NY, 10/25/18.
79. Medication Safety in Aging. University of Texas Health Science Center at San Antonio, Division of Geriatrics, San Antonio, TX, 3/21/19.
80. Medication Safety in Aging. VA Geriatrics and Extended Care Data Analysis Center Webinar, 4/2/19
81. Improving care through research and quality improvement. Weill-Cornell Medical College, research fellowship program 4/5/19.

82. Medication Safety in Aging. VA GRECC Connect Webinar, 5/31/19
83. Falls prevention in the nursing home. James J. Peters VA Community Living Center, Bronx, NY 8/14/19.
84. Blood Pressure Treatment Intensity and Outcomes in Long-Term Care, The New Jewish Home Research Rounds, New York, NY, 9/24/19.
85. Appropriate Prescribing and Deprescribing in Older Veterans, VA Geriatric Scholars Program webinar, 11/5/19.
86. Appropriate Prescribing & Deprescribing in Older Veterans. Department of Medicine Grand Rounds. Bronx Veterans Affairs Medical Center, Bronx, NY, 1/30/20.
87. Interventions to promote deprescribing in the VA. VA Pharmacy Benefits Management Academic Detailing, 5/4/21.
88. Assessment of dementia. VISN 2 GRECC educational conference. 9/23/21.
89. Behavioral and psychological symptoms in dementia (BPSD) and Hypertension in LTC. VA Geriatrics and Extended Care Data Analysis Center Webinar, 11/2/21.
90. “Mom has no energy:” Advancing Understanding of Non-Specific Symptoms in Older Adults. Division of Gerontology, Geriatrics, and Palliative Care Grand Rounds, University of Alabama, Birmingham, 2/24/22.
91. Deprescribing for delirium prevention across care settings. AGS CoCare Hospital Elder Life Program Preconference, Long Beach, CA, 5/3/23.

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## **EDUCATION**

- 1992-96 B.S. Department of Exercise and Sports Sciences, Ithaca College, School of Health Sciences and Human Performance, Ithaca, NY**  
Degree: Athletic Training/Exercise Science
- 1997-99 M.S. Department of Cardiopulmonary Sciences, Northeastern University, Bouvé College of Health Sciences, Boston, MA**  
Degree: Clinical Exercise Physiology
- 2002-06 Ph.D., Department of Epidemiology, University of Pittsburgh, Graduate School of Public Health, Pittsburgh, PA**  
Degree: Epidemiology  
Specialization: Physical Activity and Cardiovascular Epidemiology

## **POST-DOCTORAL TRAINING**

- 2006-08 Post-Doctoral Research Associate, Arizona State University, Mesa, AZ**  
Specialization: Physical Activity and Public Health
- 2007 Post-Doctoral Fellow.** Physical Activity and Public Health Course. Centers for Disease Control and Prevention and the University of South Carolina Prevention Research Center
- 2021-22 Healthcare Leadership Academy.** The University of Alabama at Birmingham. Collat School of Business. Collat Professional Education.

## **PROFESSIONAL EXPERIENCE**

- 1997-99 Graduate Teaching Assistant, Northeastern University, Boston, MA**  
Bouvé College of Health Sciences  
Department of Cardiopulmonary Sciences
- 2000-02 Clinical Instructor, Ithaca College, Ithaca, New York**  
School of Health Sciences and Human Performance  
Department of Exercise and Sports Sciences
- 2002-06 Graduate Student Researcher, University of Pittsburgh, Pittsburgh, PA**  
Graduate School of Public Health  
Department of Epidemiology
- 2005 Graduate Teaching Assistant, University of Pittsburgh, Pittsburgh, PA**

Graduate School of Public Health  
Department of Epidemiology

- 2006-08 Post-Doctoral Research Associate, Arizona State University, Mesa, AZ**  
Polytechnic Campus  
Department of Exercise and Wellness
- 2008-10 Assistant Professor (Tenure Track), University of Nebraska Medical Center, Omaha, NE**  
College of Public Health  
Department of Health Promotion, Social and Behavioral Health
- 2008-10 Associate Member, Eppley Cancer Center, Omaha, NE**  
Cancer Prevention and Control Program  
University of Nebraska Medical Center
- 2010-16 Assistant Professor of Epidemiology (Tenure Track), University of Texas Health Science Center at Houston, Austin, TX**  
Department of Epidemiology, Human Genetics and Environmental Sciences
- 2010-20 Investigator, Michael and Susan Dell Center for Healthy Living, Austin, TX**  
University of Texas School of Public Health in Austin
- 2015-17 Assistant Professor of Medicine (Clinical Education), The University of Texas at Austin, Austin, TX**  
Dell Medical School  
Department of Women's Health
- 2016-20 Associate Professor of Epidemiology (Tenured), University of Texas Health Science Center at Houston, Austin, TX**  
Department of Epidemiology, Human Genetics and Environmental Sciences
- 2017-20 Associate Professor of Medicine (Clinical Education), University of Texas at Austin, Austin, TX**  
Dell Medical School  
Department of Women's Health
- 2018-20 Coordinator of Research, University of Texas Health Science Center at Houston, Austin, TX**  
University of Texas School of Public Health in Austin  
Michael and Susan Dell Center for Healthy Living
- 2018-20 Associate Professor of Kinesiology, University of Texas at Austin, Austin, TX**  
College of Education  
Department of Kinesiology and Health Education



- 2020- Professor of Epidemiology (Tenured), The University of Alabama at Birmingham, Birmingham, AL**  
School of Public Health  
Department of Epidemiology
- 2020- Senior Scientist, Nutrition Obesity Research Center (NORC), The University of Alabama at Birmingham, Birmingham, AL**
- 2022- Senior Scientist, Integrative Center for Aging Research, The University of Alabama at Birmingham, Birmingham, AL**
- 2022- Senior Scientist, Center for Exercise Medicine, The University of Alabama at Birmingham, Birmingham, AL**
- 2022-23 Vice Chair for Research, Birmingham, AL**  
School of Public Health  
Department of Epidemiology
- 2023- Associate Dean for Research, Birmingham, AL**  
School of Public Health
- 2023- Senior Scientist, UAB Comprehensive Diabetes Center, The University of Alabama at Birmingham, Birmingham, AL**

#### **HONORS AND AWARDS**

- 2005** 3<sup>rd</sup> Place Student Research Competition – Doctoral Category. Graduate School of Public Health, University of Pittsburgh.
- 2006** 1<sup>st</sup> Place Doctoral Dissertation. Department of Epidemiology. Delta Omega National Honor Society – Omicron Chapter. University of Pittsburgh.
- 2010-20** Crystal Quill Award (multiple awards recognizing first-authored scientific publications), University of Texas School of Public Health, Austin Campus.
- 2011-** Fellow, American College of Sports Medicine.
- 2010-12** National Institutes of Health Clinical Loan Repayment Program. Epidemiology of Cardiovascular Risk Factors in Women: Physical Activity and Cardiovascular Disease. NIH-NHLBI.
- 2012-14** National Institutes of Health Clinical Loan Repayment Program. Epidemiology of Cardiovascular Risk Factors in Women: Physical Activity and Cardiovascular Disease. NIH-NHLBI. First Renewal.
- 2013** Grant Us Health Award, Michael and Susan Dell Center for Healthy Living

- 2014-15** National Institutes of Health Clinical Loan Repayment Program. The Epidemiology of Physical Activity and Sedentary Behavior on Health Outcomes in Adults. NIH-NHLBI. Second Renewal.
- 2019** Nomination, University of Texas School of Public Health Excellence in Teaching Award.
- 2019-** Fellow, American Heart Association
- 2021** The Steven N. Blair Award for Excellence in Physical Activity Research, American Heart Association EPI|Lifestyle 2021 Scientific Sessions
- 2023** Distinguished Faculty Investigator Award. The University of Alabama at Birmingham School of Public Health.

## **I. RESEARCH AND SCHOLARLY WORK**

### **A. RESEARCH GRANT SUPPORT**

#### **1. Active Grants as Key Personnel**

1. ***Functional Limitations and Disability among Middle-Aged Adults***  
 PI: Barrett Bowling at Duke University; Agency NIH-NIA; Type: R01AG062502  
 Period: 01/15/20 to 12/31/23  
 Role: Co-Investigator
2. ***Young adult and midlife transitions in physical activity and sedentary behavior with heart failure risk and progression: Coronary Artery Risk Development in Young Adults (CARDIA)***  
 PI: Kelley Pettee Gabriel; Agency NIH-NHLBI; Type: R01HL149796  
 Period: 08/01/20 to 07/31/24  
 Role: Principal Investigator
3. ***24-hour activity cycles to optimize cognitive resilience to Alzheimer's disease in African Americans: the Jackson Heart Study***  
 MPI: Kelley Pettee Gabriel (Contact) and Priya Palta at Columbia University; Agency NIH-NIA; Type R01AG067513  
 Period: 09/15/20 to 05/31/24  
 Role: Principal Investigator
4. ***The Study of Women Across the Nation (SWAN): The impact of midlife and the menopause transitions on health and functioning in early old age.***  
 PI: Maria Mori Brooks at the University of Pittsburgh; Agency NIH-NIA and NINR  
 Type: U19AG063720  
 Period: 09/30/2020 to 08/31/24  
 Role: Co-Investigator; Consortium PI
5. ***Collaborative Cohort of Cohorts for COVID19 Research (C4R)***  
 PI: Elizabeth Oelsner (Contact) and R. Graham Barr at Columbia University; Agency NIH

Type: RT122-312-0217571-66178  
Period: 10/01/2020 to 05/31/2022  
Role: Co-Investigator

6. ***Leveraging the 24-hour movement paradigm to preserve cognitive function and prevent Alzheimer's disease: The Multi-Ethnic of Atherosclerosis (MESA) 24-ACT Study***  
MPI: Priya Palta (Contact), Kelley Gabriel, & Keith Diaz at Columbia University: Agency NIH-NIA  
Type: R01AG071032  
Period: 05/01/21 to 04/30/25  
Role: Principal Investigator
7. ***Determinants and Cardiovascular Consequences of Disparities in Sleep and Circadian Rhythms between Black and White Adults***  
MPI: Mercedes Carnethon (Contact) & Kristen Knutson at Northwestern University: Agency NIH-NHLBI  
Type: R01 HL152442  
Period: 07/15/20 to 06/60/24  
Role: Co-Investigator
8. ***UAB Precision Nutrition Clinical Center***  
MPI: James Hill and Barbara Gower; Agency NIH-NICHD  
Type: UG1HD107688  
Period: 12/10/21 to 11/30/26  
Role: Co-Investigator
9. ***ENRICH Alabama: Improving cardiovascular health of women and children thorough a novel home visiting intervention***  
PI: Gareth Dutton; Agency NIH-NHLBI  
Type: UG3HL162973  
Period: 05/05/22 to 04/30/24  
Role: Co-Investigator
10. ***The role of 24-hour activity cycles in preserving cognitive function and preventing Alzheimer's disease and related dementias***  
MPI: Keith Diaz (Contact), Kelley Gabriel, & Priya Palta at Columbia University: Agency NIH-NIA  
RF1 AG077707  
Period: 06/01/22 to 05/31/25  
Role: Principal Investigator
11. ***Novel insights into osteoarthritis, pain and function: MOST 4***  
MPI: David Felson (Contact) & Tuhina Neogi; Agency NIH-NIA  
U19AG076471  
Period: 06/01/23 to 02/29/28  
Role: Co-Investigator
12. ***Coronary Artery Risk Development in Young Adults (CARDIA) – Field Centers***

MPI: CE Lewis (contact) and KP Gabriel; Agency NIH-NHLBI  
75N92023D00005  
Period: 07/01/23 to 06/30/33  
Role: Principal Investigator

13. ***Collaborative Cohort for Cohorts for COVID-19 Research (C4R) Extension***

RTI22-312-0217571-66178  
MPI: Oelsner & Barr; Agency NIH-NHLBI  
Period: 03/01/22 to 02/28/25  
Role: Co-Investigator

2. **Active Grants as Consultant:**

1. ***Dallas Hearts and Minds Study***

PI: Jarett Berry at University of Texas Southwestern  
Period: 01/01/22 to 12/31/22  
Role: Consultant

2. ***Evaluating standing as a health behavior to promote cardiovascular risk reduction in African Americans.***

PI: Keith Diaz at Columbia University; Agency NIH-NHLBI  
Type: R01 HL155190  
Period: 04/15/21 to 3/31/25  
Role: Consultant

3. **Active Training Grants as Mentor:**

1. ***24-hour movement profiles and pregnancy health (K99/R00)***

PI: Sylvia Badon at Kaiser Permanente Northern California; Agency NIH-NICHD; Type: K99HD100585  
Period: 08/01/19 to 07/31/24  
Role: Mentor

2. ***UAB cardiovascular disease predoctoral training program in biostatistics and epidemiology (T32)***

MPI: Hemant Tiwari and M. Ryan Irvin at the University of Alabama at Birmingham; Agency NHLBI; Type: T32HL155007  
Period: 12/01/20 to 11/30/25  
Role: Primary Mentor

3. ***Informing national guidelines on adolescent and young adult physical activity and sedentary behavior to prevent cardiovascular disease (K08)***

PI: Jason Nagata at the University of California, San Francisco; Agency NHLBI; Type: K08HL159350  
Period: 09/01/21 to 07/30/26  
Role: Mentor

4. ***Developing and validating VO2 prediction from the 6-Minute Walk Test and Associating with CVD Risk Factors: The CARDIA Study***  
 PI: Bjoern Hornikel: ACSM Foundation  
 Period: 07/01/22 to 06/30/23  
 Role: Mentor
  5. ***Multidimensional Rest-Activity Phenotypes and Multiple Chronic Conditions: The Dallas Heart 24-REACT Study***  
 PI: Erin Dooley at UAB; Agency: AHA Career Development Award  
 Period: 04/01/23 to 03/31/26  
 Role: Mentor
  6. ***Developing, validating, and implementing an epidemiological instrument to assess the effect of resistance training on measures of cardiometabolic disease.***  
 PI: Robert Booker at Northwestern University; Agency NHLBI; Type K99HL168338  
 Period: 09/01/23 to 08/31/2028  
 Role: Collaborator
  7. ***UAB Health Service Research Training Program (COERE T32)***  
 MPI: Michael Mugavero (contact) and Emily Levitan at UAB; Agency AHRQ; Type T32HS013852  
 Period: 2023-28  
 Role: Mentor
- 4. Completed Grants as Key Personnel:**
1. ***Blood flow and muscle soreness***  
 PI: Joseph Libonati at Northeastern University; Agency: Massachusetts Governor's Council of Physical Fitness;  
 Period: 1998 to 1999  
 Role: Co-Investigator
  2. ***Reduction of triglycerides in women on HRT***  
 PI: Lewis Kuller at University of Pittsburgh; Agency: NHLBI; Type: R01 HL066468  
 Period: 09/01/2001 to 06/30/2007  
 Role: Graduate Student Researcher
  3. ***Validation of objective physical activity measurement in mobile older adults***  
 PI: Kristi Storti at University of Pittsburgh; Agency: University of Pittsburgh; Type: Department of Epidemiology Small Grants Program  
 Period: 2004 to 2005  
 Role: Co-Investigator
  4. ***Third annual building healthy lifestyles conference: From research to practice***  
 PI: Barbara Ainsworth at Arizona State University; Agency: NHLBI; Type: R13 HL091657  
 Period: 10/01/2007 to 03/31/2008  
 Role: Co-Investigator

5. ***Evaluation of physical activity measures in middle-aged women***  
 PI: Kelley Pettee at Arizona State University; Agency: American College of Sports Medicine  
 Type: Paffenbarger-Blair Endowment for Epidemiology Research on Physical Activity  
 Period: 07/01/2007 to 06/30/2008  
 Role: Principal Investigator
6. ***Assessing the impact of a developmentally focused youth sport program for 3<sup>rd</sup>-5<sup>th</sup> grade girls***  
 PI: Elizabeth Racine at University of North Carolina at Charlotte; Agency: Girls on the Run International  
 Period: 05/01/2008 to 05/01/2009  
 Role: Co-Investigator
7. ***Interdisciplinary Healthy Heart Center: Linking Rural Populations by Technology. Weight maintenance through physical activity and social support in rural middle-aged women***  
 PI: Carol Pullen at University of Nebraska Medical Center: NINR; Type P20 NR011404  
 Period: 04/01/2009 to 06/30/2010  
 Role: Pilot Study Principal Investigator
8. ***The effect of leisure physical activity on breast density, a biomarker related to breast cancer***  
 PI: Kelley Pettee Gabriel at UTSPH; Agency: American Institute for Cancer Research; Type: Investigator Initiated Award  
 Period: 01/01/2011 to 12/31/2012  
 Role: Principal Investigator
9. ***U.S. military service status and mortality risk in men: The Cooper Center Longitudinal Study***  
 PI: Kelley Pettee Gabriel at UTSPH; Agency: Michael and Susan Dell Center for Healthy Living  
 Period: 10/01/2012 to 04/30/2013  
 Role: Principal Investigator
10. ***The impact of a coalition-driven, multi-component intervention on weight status, physical activity and healthy eating among economically disadvantaged community residents: A Comprehensive Evaluation Study***  
 PI: Alexandra Evans at UTSPH; Agency: Michael and Susan Dell Foundation  
 Period: 05/01/13 to 05/15/14  
 Role: Co-Investigator
11. ***From rest to run: Exploring the role of physical activity, sedentary behavior, and sleep in older women***  
 PI: Kelley Pettee Gabriel at UTSPH; Agency: UTSPH; Type: Front of the Envelope Award  
 Period: 01/01/2014 to 12/31/2014  
 Role: Principal Investigator
12. ***Tipping the scales to promote regular physical activity and improve health in midlife women: A systematic review***  
 PI: Kelley Pettee Gabriel at UTSPH; Agency: Michael & Susan Dell Center for Healthy Living  
 Period: 11/01/2014 to 04/30/2015

Role: Principal Investigator

13. ***Evaluating the utility of composite physical activity scores in population-based research studies***

PI: Kelley Pettee Gabriel at UTSPH; Agency: American Heart Association; Type: 14-BGIA-18520004

Period: 01/01/2014 to 12/31/16 (NCE)

Role: Principal Investigator

14. ***Using Smartphones to Promote Healthy Behaviors among Breast Cancer Survivors: A Pilot Study***

PI: Marlyn Allicock at UTSPH; UT Southwestern, American Cancer Society, Institutional Research Grants

Period: 06/01/15 to 05/31/16

Role: Co-Investigator

15. ***Study of Women's Health Across the Nation (SWAN) V***

PI: Maria Brooks at University of Pittsburgh; Agency: NIH-NIA; Type: U01 AG012553

Period: 07/01/2015 to 06/30/17

Role: Subcontract PI; Co-Investigator

16. ***10-year changes in objectively-measured physical activity and sedentary behavior in the CARDIA cohort***

PIs: Kelley Pettee Gabriel at UTSPH and Barbara Sternfeld/Steve Sidney at Kaiser Permanente Northern California; Agency: NHLBI; Type: R56 HL125423

Period: 09/15/2015 to 08/31/2017

Role: Principal Investigator (MPI)

17. ***The associations of mid- and late-life physical activity on falls in a large prospective study of older adults***

PIs: Kelley Pettee Gabriel and Lisa Pompeii at UTSPH; Agency: NIA; Type R56 AG049886

Period: 09/30/2015 to 08/31/2017

Role: Principal Investigator (MPI)

18. ***Behavioral science education – Cancer prevention and control***

PI: Patricia Mullen at UTSPH; Agency: NIH-NCI; Type: R25 CA057712-21

Period: 09/01/2013 to 08/31/2018

Role: Mentor

19. ***A prospective study of the impact of breast cancer on symptoms and functioning (Administrative Supplement)***

PI: Nancy Avis at Wake Forest University; Agency NIH-NCI; Type R01CA199137

Period: 07/01/16 to 06/30/18

Role: Co-Investigator; Consortium Principal Investigator

20. ***Law enforcement officer stress response surveillance study (LEO-STRESS) pilot.***

PI: Jennifer Gonzales at UTSPH; Agency: NIOSH through SWCEOH  
Period: 02/12/18 to 06/30/18  
Role: Co-Investigator

21. ***Effects of light rail transit on physical activity: A community-based natural experiment***

PI: Harold W. Kohl III at UTSPH; Agency: NIH-NIDDK; Type: R01 DK101593;  
Period: 09/12/13 to 06/30/19 (NCE)  
Role: Co-Investigator

22. ***Study of Women's Health Across the Nation (SWAN) V***

PI: Ellen Gold at University of California - Davis; Agency: NIH-NIA; Type: U01 AG012554  
Period: 01/01/2015 to 06/30/2020  
Role: Co-Investigator; Consortium Principal Investigator

23. ***UTSPH/GVSU Multimodal MCH Training Program***

MPI: Deanna Hoelscher and Courtney Byrd-Williams at UTSPH; Agency: Health Resources & Services Administration  
Period: 06/01/2014 to 05/31/2019  
Role: Mentor

24. ***Rural Disparities in Pediatric Obesity: the iAmHealthy Intervention***

PI: Ann Davis at University of Kansas Medical Center; Agency: NIH-NINR; Type R01NR016255  
Period: 11/01/2017 to 11/30/2021  
Role: Co-Investigator; Consortium PI

25. ***Cancer Prevention and Control Research Training and Development Program(T32)***

PI: Patricia Mullen at UTSPH; Agency: NIH  
Period: 09/01/2018 to 08/31/2023  
Role: Mentor

26. ***Michael and Susan Dell Center for Healthy Living; Promoting Healthy Children in a Healthy State***

PI: Deanna Hoelscher at UTSPH; Michael and Susan Dell Foundation  
Period: 09/01/2018 to 08/31/2023  
Role: Co-Investigator

27. ***Exploring the delivery and effects of the enhanced coach led Marathon Kids Model: A pilot study with Texas Elementary Schools***

PI: Andrew Springer at UTSPH; Marathon Kids  
Period: 09/01/2018 to 08/31/2019  
Role: Co-Investigator

28. ***National Center on Health, Physical Activity and Disability (NCHPAD) Supplement***

PI: James Rimmer at UAB; Agency CDC; Type: HHS1NU27DD001157-01-00  
Period: 04/01/18 to 03/31/21  
Role: Co-Investigator



29. ***Tau PET Imaging in Racially/Ethnically Diverse Middle-Aged Adults***  
 MPI: Adam Brickman and Jennifer Manly at Columbia University; Agency NIH-NIA; Type: RF1 AG058067-01A1S2  
 Period: 09/15/19 to 07/31/23  
 Role: Co-investigator (Research Concept and Design w. P. Palta); Consortium PI
  30. ***Coronary Artery Risk Development in Young Adults (CARDIA) Study – Birmingham Field Center***  
 PI: Cora E. Lewis; Agency NIH-NHLBI; Type: HHSN268201800007I  
 Period: 12/30/83 to 06/30/23  
 Role: Co-Investigator
- 5. Completed Grants as Consultant:**
1. ***Adolescent diet, hormones & breast cancer susceptibility***  
 PI: Joanne Dorgan at Fox Chase Cancer Center; Agency: NCI; Type: R01 CA104670  
 Period: 9/30/2005 to 6/30/2010  
 Role: Consultant
  2. ***Reduction of triglycerides in women on HRT (2-year renewal)***  
 PI: Lewis Kuller at University of Pittsburgh; Agency: NHLBI; Type: R01 HL066468  
 Period: 07/01/2007 to 05/31/2010  
 Role: Consultant
  3. ***Epidemiology of cardiovascular disease risk factors in women: Healthy Women Study***  
 PI: Lewis Kuller at University of Pittsburgh; Agency: NHLBI; Type: R01 HL028266  
 Period: 04/01/2009 to 03/31/2012  
 Role: Consultant
  4. ***Reducing sedentary behavior to prevent weight regain among breast cancer survivors***  
 PI: Christie Befort at University of Kansas Medical Center; Agency: The Heartland Institute for Clinical and Translational Research and The University of Kansas Medical Center Research Institute  
 Period: 06/01/2012 to 05/31/2013  
 Role: Consultant
  5. ***Coronary Artery Development in Young Adults (CARDIA) – Oakland, CA Site***  
 PI: Steve Sidney at Kaiser Permanente Northern California  
 Period: 01/01/2014 to 12/31/2014  
 Role: Consultant
  6. ***Group phone-based weight control among rural breast cancer survivors***  
 PI: Christie Befort at University of Kansas Medical Center; Agency: NCI; Type: R01 CA155014  
 Period: 08/01/2011 to 05/31/2016  
 Role: Consultant
  7. ***Interactive Diet and Activity Tracking (iDATA) Study: Harmonization and Free Text Coding***

PI: Information Management Services, Inc. (IMS); Agency: NCI; Contract #HHSN261201500002B  
Period: 09/22/15 to 09/21/2016  
Role: Consultant

8. ***Scale up evaluation of a physical activity program for adults with physical disability***

PI: James Rimmer at University of Alabama at Birmingham; Agency: NICHD; Type: R01  
HD085186  
Requested Period: 03/14/2016 to 01/31/2021  
Role: Consultant

**6. Completed Training Grants as Mentor:**

1. ***Physical activity and pregnancy for intergenerational obesity prevention (K01)***

PI: Samantha Ehrlich at University of Tennessee Knoxville; Agency: NIDDK; Type: K01 DK105106  
Period: 09/21/2015 to 07/31/20  
Role: Mentor

2. ***Physical Activity in Underserved Populations: Using Epidemiologic Assessments to Inform Local Intervention (K01)***

PI: Kelly Ylitalo at Baylor University; Agency: NIH-NIA; Type: K01 AG058754  
Period: 01/01/19 to 11/30/2023  
Role: Mentor

3. ***Adolescent and young adult physical activity trajectories and future cardiovascular disease risk (AHA Training Grant)***

PI: Jason Nagata at University of California San Francisco; Agency: AHA  
Period: 07/01/19 to 06/30/22  
Role: Mentor

**7. Pending Grants as Key Personnel:**

1. ***Novel applications for measurement of physical functioning, physical activity, and the environment to inform fall prevention***

PI: K Ylitalo at Baylor University; Agency: NIH-NIA  
Requested Period: 04/01/23 to 03/31/28  
Role: Co-Investigator / Consortium PI

2. ***Precision quantification of diurnal activity to promote cognitive health***

PI: J Goldsmith at Columbia University; Agency: NIH-NIA  
Requested Period: 04/01/24 to 03/31/29  
Role: Co-Investigator / Consortium PI

3. ***An optimal 24-hours to promote healthy brain aging and prevent ADRD in a diverse population of individuals with or at risk for type 2 diabetes: DPPOS 24H-ACT Study***

MPI: P Palta at University of North Carolina at Chapel Hill and K Gabriel; Agency: NIH-NIA  
Requested Period: 07/01/24 to 06/30/28  
Role: Principal Investigator

**8. Pending Training Grants as Mentor:**

**1. *Resistance exercise in the prevention and treatment of heart failure with preserved ejection fraction (HFpEF).***

PI: D McDonough; Agency NIH

Requested Period: 04/01/24 to 03/31/29

Role: Collaborator

**B. PUBLICATIONS**

**1. Peer-Reviewed Publications**

- 2001** 1. Libonati JR, Howell AK, Incanno NM, **Pettee KK**, Glassberg HL. 2001. Brief muscle hypoperfusion/hyperemia: an ergogenic aid? *Journal of Strength and Conditioning Research*. 15(3): 362-366. [PMID: 11710666].
- 2004** 2. Kriska AM, Delahanty LM, **Pettee KK**. 2004. Lifestyle intervention for the prevention of type 2 diabetes: translation and future recommendations. *Current Diabetes Reports*. 4(2): 113-118. [PMID: 15035971].
- 2006** 3. Kuller LH, Kinzel LS, **Pettee KK**, Kriska AM, Simkin-Silverman LR, Conroy MB, Averbach F, Pappert WS, Johnson BD. 2006. Lifestyle intervention and coronary heart disease risk factor changes over 18 months in postmenopausal women: the Women On the Move through Activity and Nutrition (WOMAN study) clinical trial. *Journal of Women's Health (Larchmt)*. 15(8): 962-974. [PMID: 17087620].
4. **Pettee KK**, Brach JS, Kriska AM, Boudreau R, Richardson C, Colbert LH, Satterfield S, Visser M, Harris TB, Ayonayon HN, Newman AB. 2006. Influence of marital status on physical activity levels among older adults. *Medicine and Science in Sports and Exercise*. 38(3): 541-546. [PMID: 16540843].
- 2007** 5. Conroy MB, Simkin-Silverman LR, **Pettee KK**, Hess R, Kuller LH, Kriska AM. 2007. Lapses and psychosocial factors related to physical activity in early postmenopausal women. *Medicine and Science in Sports and Exercise*. 39(10): 1858-1866. [PMID: 17909416].
6. **Pettee KK**, Larouere BM, Kriska AM, Johnson BD, Orchard TJ, Goodpaster BH, Conroy MB, Mackey RH, Underwood DA, Kuller LH. 2007. Associations among walking performance, physical activity, and subclinical cardiovascular disease. *Preventive Cardiology*. 10(3): 134-140. [PMID: 17617776].
7. **Pettee KK**, Kriska AM, Conroy MB, Johnson BD, Orchard TJ, Goodpaster GH, Averbach FM, Kuller LH. 2007. Discontinuing hormone replacement therapy: attenuating the effect on CVD risk with lifestyle changes. *American Journal of Preventive Medicine*. 32(6): 483-489. [PMCID: PMC2040271].
8. **Pettee KK**, Kriska AM, Johnson BD, Conroy MB, Mackey RH, Orchard TJ, Kuller LH. 2007. The relationship between physical activity and lipoprotein subclasses in

postmenopausal women: the influence of hormone therapy. *Menopause*. 14(1): 115-122. [PMID: 17023874].

- 2008**
9. Yankura DJ, Conroy MB, Hess R, **Pettee KK**, Kuller LH, Kriska AM. 2008. Weight regain and health-related quality of life in postmenopausal women. *Obesity (Silver Spring)*. 16(10): 2259-2265. [PMID: 18719654].
  10. **Pettee KK**, Storti KL, Conroy MB, Ainsworth BE. 2008. A lifestyle approach for primary cardiovascular disease prevention in peri- and early postmenopausal women. *American Journal of Lifestyle Medicine*. 2(5): 421-431.
  11. Storti KL, **Pettee KK**, Brach JS, Berlin J, Richardson CR, Kriska AM. 2008. Gait speed and step-count monitor accuracy in community-dwelling older adults. *Medicine and Science in Sports and Exercise*. 40(1): 59-64. [PMID: 18091020].
- 2009**
12. Debate RD, **Pettee Gabriel K**, Zwald M, Huberty J, Zhang Y. 2009. Changes in psychosocial factors and physical activity frequency among third- to eighth-grade girls who participated in a developmentally focused youth sport program: a preliminary study. *The Journal of School Health*. 79(10): 474-484. [PMID: 19751309].
  13. Lee CD, Jae S, Iribarren C, **Pettee KK**, Choi Y. 2009. Physical fitness and carotid atherosclerosis in men. *International Journal of Sports Medicine*. 30(9): 672-676. [PMID: 19569012].
  14. **Pettee Gabriel K**, Ainsworth BE. 2009. The Building Healthy Lifestyles Conference: modifying lifestyles to enhance physical activity, diet, and reduce cardiovascular disease. *American Journal of Lifestyle Medicine*. 3 (January Supplement): 6s-10s. [PMCID: PMC2848075].
  15. Ainsworth BE, **Pettee Gabriel K**. 2009. The Building Healthy Lifestyle Conference: modifying lifestyles to enhance physical activity, diet, and reduce cardiovascular disease: summary and conclusions. *American Journal of Lifestyle Medicine*. 3(1): 6s-10s. [PMCID: PMC2855200].
  16. **Pettee Gabriel KK**, McClain JJ, Lee CD, Swan PD, Alvar BA, Mitros MR, Ainsworth BE. 2009. Evaluation of physical activity measures used in middle-aged women. *Medicine and Science in Sport and Exercise*. 41(7): 1403-1412. [PMID: 19516161].
  17. **Pettee KK**, Ham SA, Macera CA, Ainsworth BA. 2009. The reliability of a survey question on television viewing and associations with health risk factors in US adults. *Obesity (Silver Spring)*. 17(3): 487-493. [PMID: 19238138].
  18. Newman MA, **Pettee KK**, Storti KL, Richardson CR, Kuller LH, Kriska AM. 2009. Monthly variation in physical activity levels in postmenopausal women. *Medicine and Science in Sports and Exercise*. 41(2): 322-327. [PMCID: PMC3880933].

19. DeBate RD, Huberty J, **Pettee KK**. 2009. Psychometric properties of the commitment to physical activity scale. *American Journal of Health Behavior*. 33(4): 425-434. [PMID: 19182987].
- 2010** 20. Storti KL, **Pettee Gabriel KK**, Underwood DA, Kuller LH, Kriska AM. 2010. Physical activity and coronary artery calcification in two cohorts of women representing early and late post-menopause. *Menopause*. 17(6): 1146-1151. [PMCID: PMC3645345].
21. Charlton ME, **Pettee Gabriel K**, Munsinger T, Schmaderer L, Healey KM. 2010. Program evaluation results of a structured, group exercise program in individuals with multiple sclerosis. *International Journal of MS Care*. 12: 92-96.
22. **Pettee Gabriel KK**, Rankin RL, Lee CD, Charlton ME, Swan PE, Ainsworth BE. 2010. Test-retest reliability and validity of the 400-meter walk test in healthy, middle-aged women. *Journal of Physical Activity & Health*. 7(5): 649-657. [PMID: 20864761].
23. **Pettee Gabriel KK**, McClain JJ, Schmid KK, Storti KL, High RR, Underwood DA, Kuller LH, Kriska AM. 2010. Issues in accelerometer methodology: the role of epoch length on estimates of physical activity and relationships with health outcomes in overweight, post-menopausal women. *The International Journal of Behavioral Nutrition and Physical Activity*. 7: 53. [PMCID: PMC2900223].
24. Dorgan JF, Liu L, Klifa C, Shepherd JA, Stanczyk FZ, Snetselaar LG, Van Horn L, Stevens VJ, Robson A, Kwiterovich PO, Lasser NL, Himes JH, **Pettee Gabriel K**, Kriska A, Ruder EH, Fang CY, Barton BA. 2010. Adolescent diet and subsequent serum hormones, breast density and bone mineral density in young women: results of the Dietary Intervention Study in Children (DISC) follow-up study. *Cancer Epidemiology, Biomarkers & Prevention*. 19(6): 1545-1556. [PMCID: PMC2883023].
25. Ciccolo JT, **Pettee Gabriel KK**, Macera CA, Ainsworth BE. 2010. Association between self-reported resistance training and self-related health in a national sample of US men and women. *Journal of Physical Activity & Health*. 7(3): 289-298. [PMID: 20551484].
- 2011** 26. Dorgan JF, Liu L, Barton BA, Deshmukh S, Snetselaar LG, Van Horn L, Stevens VJ, Robson AM, Lasser NL, Himes JH, Shepherd JA, Pourfarzib R, **Pettee Gabriel K**, Kriska A, Kwiterovich PO Jr. 2011. Adolescent diet and metabolic syndrome in young women: results of the Dietary Intervention Study in Children (DISC) follow-up study. *The Journal of Clinical Endocrinology and Metabolism*. 96(12): E1999-E2008. [PMCID: PMC3232612].
27. Whitfield G, **Pettee Gabriel KK**, Kohl III HW. 2011. When meeting physical activity guidelines is not enough: the interplay of sedentary and active behaviors. *Journal of the Japanese Association for Exercise Epidemiology*. 13(1): 30-35.

28. Racine EF, DeBate RD, **Pettee Gabriel KK**, High RR. 2011. The relationship between media use and psychological and physical assets among third- to fifth-grade girls. *The Journal of School Health*. 81(12): 749-755. [PMID: 22070506].
29. Conroy MB, Yang K, Elci OU, **Pettee Gabriel K**, Styn MA, Wang J, Kriska AM, Sereika SM, Burke LE. 2011. Physical activity self-monitoring and weight loss: 6-month results of the SMART trial. *Medicine and Science in Sports and Exercise*. 43(8): 1568-1574. [PMID: 21200337].
30. **Pettee Gabriel KK**, Conroy MB, Schmid KK, Storti KL, High RR, Underwood DA, Kriska AM, Kuller LH. 2011. The impact of weight and fat mass loss and increased physical activity on physical function in overweight, postmenopausal women: results from the Women on the Move Through Activity and Nutrition Study. *Menopause*. 18(7): 759-765. [PMCID: PMC3181090].
31. **Pettee Gabriel KK**, DeBate RD, High RR, Racine EF. 2011. Girls on the Run: A quasi-experimental evaluation of a developmentally focused youth sport program. *Journal of Physical Activity & Health*. 8(September supplement): S285-S294. [PMID: 21918243].
32. **Pettee Gabriel KK**, McClain JJ, Schmid KK, Storti KL, Ainsworth BE. 2011. Reliability and convergent validity of the past-week Modifiable Activity Questionnaire. *Public Health Nutrition*. 14(3): 435-442. [PMID: 20843404].
33. Mitros MR (\*), **Pettee Gabriel K**, Ainsworth BA, Lee CD, Herrmann S, Campbell K, Swan PD. 2011. Comprehensive evaluation of a single-stage submaximal treadmill walking protocol in healthy, middle-aged women. *European Journal of Applied Physiology*. 111(1): 47-56. [PMID: 20809230].  
\*Mentored First Author
- 2012 34. Dorgan JF, Klifa C, Shepard JA, Egleston BL, Kwiterovich PO, Himes JH, **Pettee Gabriel K**, Van Horn L, Snetselaar LG, Stevens VJ, Barton BA, Robson AM, Lasser NL, Deshmukh S, Hylton NM. 2012. Height, adiposity and body fat distribution and breast density in young women. *Breast Cancer Research*. 14(4): R107. [PMCID: PMC3680938].
35. Shuval K, Finley CE, Chartier KG, Balasubramanian B, **Pettee Gabriel K**, Barlow CE. 2012 Cardiorespiratory fitness, alcohol intake, and metabolic syndrome incidence in men. *Medicine and Science in Sports and Exercise*. 44(11): 2125-2131. [PMCID: PMC3475754].
36. Gibbs BB, Kinzel LS, **Pettee Gabriel KK**, Chang YF, Kuller LH. 2012. Short- and long-term eating habit modification and weight change in overweight, post-menopausal women: Results from the WOMAN Study. *Journal of the American Dietetic Association*. 112(9): 1347-1355. [PMCID: PMC3432933].

37. **Pettee Gabriel KK**, Matthews KA, Pérez A, Edmundowicz D, Kohl HW III, Hawkins MS, Janak JC, Kriska AM, Kuller LH. 2013. Self-reported and accelerometer-derived physical activity levels and coronary artery calcification progression in older women: results from the Healthy Women Study. *Menopause*. 20(2): 152-161. [PMCID: PMC3897237].
38. Wilkinson AV, Okeke N, Springer AE, Stigler MH, **Pettee Gabriel KK**, Bondy ML, Prokhorov AV, Spitz MR. 2012. Experimenting with cigarettes and physical activity among Mexican origin youth: a cross sectional analysis of the interdependent associations among sensation seeking, acculturation, and gender. *BMC Public Health*. 12: 332. [PMCID: PMC3441442].
39. Shuval K, Barlow CE, Chartier KG, **Pettee Gabriel KK**. 2012. Cardiorespiratory fitness, alcohol, and mortality in men: the Cooper Center longitudinal study. *American Journal of Preventive Medicine*. 42(5): 460-467. [PMID: 22516485].
40. Troiano R, **Pettee Gabriel KK**, Welk G, Owen N, Sternfeld B. 2012. Reported physical activity and sedentary behavior: Why do you ask? *Journal of Physical Activity & Health*. 9 (Supplement January): S68-S75. [PMID: 22287450].
41. Casas RS, **Pettee Gabriel KK**, Kriska AM, Kuller LH, Conroy MB. 2012. Association of leisure physical activity and sleep with cardiovascular risk factors in postmenopausal women. *Menopause*. 19(4): 413-419. [PMCID: PMC3291743].
42. **Pettee Gabriel KK**, McClain JJ, High RR, Schmid KK, Whitfield GP, Ainsworth BE. 2012. Patterns of accelerometer-derived estimates of physical inactivity in middle-aged women. *Medicine and Science in Sports and Exercise*. 44(1): 104-110. [PMID: 21685812].
43. **Pettee Gabriel KK**, Morrow JR, Woolsey AT. 2012. Framework for physical activity as a complex and multidimensional behavior. *Journal of Physical Activity & Health*. 9 (Supplement January): S11-S18. [PMID: 22287443].
44. Kuller LH, **Pettee Gabriel KK**, Kinzel LS, Underwood DA, Conroy MB, Chang Y, Mackey RH, Edmundowicz D, Sutton-Tyrrell K, Kriska AM. 2012. The Woman on the Move Through Activity and Nutrition Study: final 48-month results. *Obesity (Silver Spring)*. 20(3): 636-643. [PMCID: PMC3623568].
- 2013 45. Lambiase MJ, **Pettee Gabriel K**, Kuller LH, Matthews KA. 2013. Temporal relationships between physical activity and sleep in older women. *Medicine and Science in Sports and Exercise*. 45(12): 2362-2368. [PMCID: PMC3833970].
46. Shuval K, **Pettee Gabriel K**, Leonard T. 2013. TV viewing and BMI by race/ethnicity and socio-economic status. *PLOS One*. 8(5): e63579. [PMCID: PMC3655184].
47. Shuval K, Chiu CY, Barlow CE, **Pettee Gabriel K**, Kendzor DE, Businelle MS, Sugg Skinner C, Balasubramanian BA. 2013. Family history of chronic disease and meeting

public health guidelines for physical activity: the Cooper Clinic longitudinal study. *Mayo Clinic Proceedings*. 88(6): 588-592. [PMID: 23726398].

48. Hawkins MS, **Pettee Gabriel KK**, Conroy MB, Cooper J, Sutton-Tyrrell K. 2013. Physical activity intensity and cardiovascular risk by ankle-brachial index. *Vascular Medicine*. 18(2): 79-84. [PMID: 23535079].
49. **Pettee Gabriel K**, Klifa C, Pérez A, Kriska AM, High R, Snetselaar L, Dorgan J. 2013. Adolescent and young adult exposure to physical activity and breast density. *Medicine and Science in Sports and Exercise*. 45(8): 1515-1523. [PMID: 23377838].
50. Whitfield GP, **Pettee Gabriel KK**, Kohl III HW. 2013. Assessing sitting across contexts: development and validation of the Multi-context Sitting Time Questionnaire. *Research Quarterly for Exercise and Sport*. 84(3): 323-328. [PMCID: PMC3839055].
51. Smith HA, Storti KL, Arena VC, Kriska AM, **Pettee Gabriel KK**, Sutton-Tyrrell K, Hames K, Conroy MB. 2013. Association between accelerometer-derived physical activity and regional adiposity in young men and women. *Obesity (Silver Spring)*. 21(6): 1299-1305. [PMCID: PMC3716839].
52. Wilkinson AV, **Pettee Gabriel KK**, Dong Q, Shete S, Bondy ML, Spitz MR. 2013. Sensation seeking genes and physical activity in youth. *Genes, Brain, and Behavior*. 12(2): 181-188. [PMCID: PMC3581711].
53. Fang CY, Egleston BL, **Pettee Gabriel KK**, Stevens VJ, Kwiterovich Jr PO, Snetselaar LG, Longacre M, Dorgan JF. 2013. Depressive symptoms and serum lipid levels in young adult women. *Journal of Behavioral Medicine*. 36(2): 143-152. [PMCID: PMC3376669].
- 2014 54. Durand CP, Oluyomi A, Sener I, Knell G, **Pettee Gabriel K**, Kohl III HW. 2014. Transport-related physical activity: definitions, status and research directions. *Russian Journal of Preventive Medicine*. 17(N1): 55-60.
55. Hawkins M, **Pettee Gabriel K**, Cooper J, Storti KL, Sutton-Tyrrell K, Kriska AM. 2014. The impact of accelerometer-determined change in arterial stiffness in overweight or obese sedentary young adults. *Vascular Medicine*. 19 (4): 257-263. [PMID: 24879662].
56. Janak J (\*), **Pettee Gabriel K**, Oluyomi AO, Pérez A, Kohl III HW, Kelder SH. 2014. The association between physical fitness and academic achievement in Texas State House Legislative Districts: an ecologic study. *Journal of Physical Activity & Health*. 84(8): 533-542. [PMID: 25040122].  
\*Mentored First Author
57. **Pettee Gabriel K**, Sidney S, Jacobs DR, Quesenberry CP, Reis JP, Jiang SF, Sternfeld B. 2014. Convergent validity of a brief self-reported physical activity questionnaire. *Medicine and Science in Sports and Exercise*. 46(8): 1570-1577. [PMID: 24496119].



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59. Shuval K, Kohl HW III, Bernstein I, Cheng D, **Pettee Gabriel K**, Barlow CE, Yinghui L, DiPietro L. 2014. Sedentary behavior and physical inactivity assessment in primary care: the Rapid Assessment Disuse Index (RADI) Study. *British Journal of Sports Medicine*. 48(3): 250-255. [PMID: 24144532].
60. Whitfield GP, **Pettee Gabriel KK**, Kohl III HW. 2014. Sedentary and active: self-reported sitting time among marathon and half-marathon participants. *Journal of Physical Activity & Health*. 11(1): 165-172. [PMID: 23357808].
61. Shuval K, Finely CE, Barlow CE, **Pettee Gabriel K**, Leonard D, Kohl HW III. Sedentary behavior, cardiorespiratory fitness, physical activity, and cardiometabolic risk in men: the Cooper Center Longitudinal Study. *Mayo Clinic Proceedings*. 89(8): 1052-1062. [PMID: 25034308].
62. Lambiase MJ, **Pettee Gabriel K**, Kuller LH, Matthews KA. Sleep and executive function in older women: the moderating effect of physical activity. *The Journals of Gerontology. Series A, Biological Sciences and Medical Sciences*. 69(9): 1170-1176. [PMID: 24744391].
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- 2015 65. Bluethmann SM, Vernon SW, **Pettee Gabriel K**, Murphy CC, Bartholomew LK. 2015. Taking the next step: a systematic review and meta-analysis of physical activity and behavior change interventions for post-treatment breast cancer survivors. *Breast Cancer Research and Treatment*. Published Ahead of Press: January, 2015. [PMID: 25555831].
66. Hodge MG, Hovinga ME, Shepherd JA, Egleston BL, **Pettee Gabriel K**, Van Horn L, Robson AM, Snetselaar LG, Stevens VJ, Dorgan JF. 2015. Youth and young adult physical activity and body composition of young adult women: Findings from the Dietary Intervention Study in Children. *Pediatric Exercise Science*. 27(1): 140-50. [PMID: 25387239].

67. Whitfield GP, Kohrt WM, **Pettee Gabriel K**, Rahbar MH, Kohl HW III. 2015. Quantifying bone mineral density across a range of physical activity volume: NHANES 2007-10. *Medicine and Science in Sports and Exercise*. 47(2): 326-34. [PMID: 24870584]
68. Pérez A, **Pettee Gabriel K**, Nehme EK, Mandell DJ, Hoelscher DM. 2015. Measuring the bias, precision, accuracy, and validity of self-reported height and weight in assessing overweight and obesity status among adolescents using a surveillance system. *International Journal of Behavioral Nutrition and Physical Activity*. 12 (Supplement 1): S2. [PMC4659321].
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70. **Pettee Gabriel K**, Mason JM, Sternfeld B. 2015. Recent evidence exploring the associations between physical activity and menopausal symptoms in midlife women: perceived risks and possible health benefits. *Women's Midlife Health*. 1(1): 1-28. [PMC6214216].
71. Gibbs BB, **Pettee Gabriel K**, Reis J, Carnethon M, Jakicic J, Sternfeld B. 2015. Cross-sectional and longitudinal associations between objectively-measured sedentary time and metabolic disease: the Coronary Artery Risk Development in Young Adults (CARDIA) Study. *Diabetes Care*. 38(10): 1835-43. [PMID: 26156528].
72. Shuval K, Nguyen BT, Yaroch AL, Drope J, **Pettee Gabriel K**. 2015. Accelerometer-determined sedentary behavior and dietary quality among U.S. Adults. *Preventive Medicine*. 78(9): 38-43. [PMID: 26141247].
73. White DK, **Pettee Gabriel K**, Kim Y, Lewis CE, Sternfeld B. 2015. Do short spurts of physical activity benefit cardiovascular health? *Medicine and Science in Sports and Exercise*. 47(11): 2353-2358. [PMID: 25785930].
74. Shuval K, Barlow CE, Finley CE, **Pettee Gabriel K**, Schmidt MD, DeFina LF. 2015. Standing, Obesity, and Metabolic Syndrome: Findings from the Cooper Center Longitudinal Study. *Mayo Clinic Proceedings*. 90(11): 1524-1532. [PMID: 26422243].
75. Bluethmann SM, Basen-Enquist K, Vernon SW, Cox M, **Pettee Gabriel K**, Stansberry SA, Carmack CL, Blalock J, Demark-Wahnefried W. 2015. Grasping the 'teachable moment': Time since diagnosis, symptom burden and health behaviors in breast, colorectal and prostate cancer survivors. *Psycho-Oncology*. 24(10): 1250-1257. [PMID: 26060053].
76. Shuval K, Finley CE, Barlow CE, Nguyen BT, Njike V, **Pettee Gabriel K**. 2015. Independent and joint effects of sedentary behavior and cardiorespiratory fitness on all-cause mortality among healthy men. *BMJ Open*. 5(10): e008956. [PMC4636648].

- 2016** 77. Kendzor DE(†), Shuval K, **Pettee Gabriel K**, Businelle MS, Ma P, High RR, Cuate EL, Poonawalla IB, Rios DM, Demark-Wahnefried W, Swartz MD, Wetter DW. 2016. Impact of a mobile phone intervention to reduce sedentary behavior in a community sample of adults: A quasi-experimental evaluation. *Journal of Medical Internet Research*. 18(1), e19. [PMC4746437].  
† Kendzor and Shuval share first authorship
78. Woolf K, Bushman B, **Pettee Gabriel K**, Carter S. 2016. Promoting healthy lifestyles during the “change of life”: benefits of physical activity and nutrition throughout the menopausal transition. *ACSM’s Health and Fitness Journal*. 20(1): 20-28.
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‡ Al-shoaibi and Iyra share first authorship
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## 2. Manuscripts Submitted for Peer Review

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14. Perry A, Farber-Eger E, Gonzales T, Tanaka T, Robbins J, Murthy V, Stolze L, Zhao S, Colangelo L, Hou L, Lloyd-Jones D, Walker K, Ferrucci L, Watts E, **Pettee Gabriel K**, Hornikel B, Sidney S, Houstis N, Lewis G, Liu G, Thyagarajan B, Choi B, Washko G, Kalhan R, Wareham N, Gerszten R, Brage S, Wells Q, Naylor M. Proteomic architecture of fitness and implications for clinical risk profiles. Submitted October 20, 2023. *Nature Medicine*.
15. Kim K, Joyce B, Zheng Y, Nannini D, Wang J, Gordon-Larsen P, Bhatt A, **Pettee Gabriel K**, Shikany J, Hu M, Chen A, Reges O, Carnethon M, Lloyd-Jones D, Zhang K, Hou L. Associations of urban and blue green spaces with coronary artery calcification in Black individuals and disadvantages neighborhoods. Submitted November 15, 2023. *Circulation*.
16. Nagata JM, Weinstein S, Alsamman S, Lee CM, Dooley EE, Ganson KT, Testa A, Gooding HC, Kiss O, Baker F, **Pettee Gabriel K**. Association of physical activity and screen time with cardiovascular disease risk in the Adolescent Brain Cognitive Development Study. Submitted December 1, 2023. *International Journal of Behavioral Nutrition and Physical Activity*.

### 3. Non Peer-Reviewed Publications

- 2005** 1. Kriska AM, Delahanty LM, Hoskin M, Matulik M, Otto A, Pepe C, **Pettee K**, Pomeroy J, Semler L, Testaverde L, Venditti B, Wolf D. 2005. Fishes, whales, and fishing tips: hooking an active lifestyle. *Diabetes Spectrum*. 18: 114-118.

### 4. Pre-prints

- 2021** 1. Oelsner EC, Allen NB, Ali T, Anugu P, Andrews H, Asaro A, Balte PP, Barr RG, Bertoni A, Bon J, Boyle R, Chang AA, Chen G, Cole SA, Coresh J, Cornell E, Correa A, Couper D, Cushman M, Demmer RT, Elkind MS, Folsom AR, Fretts AM, **Pettee Gabriel K**, Gallo L,

Gutierrez Contreras J, Han MK, Henderson JM, Howard VJ, Isasi CR, Jacobs DR, Judd SE, Kamin Mukaz D, Kanaya AM, Kandula NR, Kaplan RC, Krishnaswamy A, Kinney GL, Kucharska-Newton A, Lee JS, Lewis CE, Levine DA, Levitan EB, Levy B, Make B, Malloy K, Manly JJ, Meyer KA, Min Y-I, Moll M, Moore WC, Mauger D, Ortega VE, Palta P, Parker MM, Phipatanakul W, Post W, Psaty BM, Regan EA, Ring K, Roger VL, Rotter JJ, Rundek T, Sacco RL, Schembri M, Schwartz DA, Seshadri S, Shikany JM, Sims M, Stukovsky KDH, Talavera GA, Tracy RP, Umans JG, Vasani RS, Watson K, Wenzel SE, Winters K, Woodruff PG, Xanthakis V, Zhang Y and Zhang Y. Collaborative Cohort of Cohorts for COVID-19 Research (C4R) Study: Study Design. medRxiv. 2021:2021.03.19.21253986.

## 5. Edited Book Chapters

- 2008** 1. **Pettee KK**, Tudor-Locke C, Ainsworth BE. 2008. Field assessment of physical activity and energy expenditure among adults. In *Sports Nutrition: Energy Metabolism and Exercise* (ISBN: 978-0-19-518300-9) edited by Wolinsky I, Driskell JA. CRC Press: Boca Raton, FL.
- 2009** 2. **Pettee KK**, Storti KL, Ainsworth BE, Kriska AM. 2009. Measurement of physical activity and inactivity in epidemiologic studies. In *Epidemiologic Methods in Physical Activity Studies* (ISBN-13: 978-0195183009) edited by Lee IM, Oxford University Press: New York, NY.
- 2010** 3. **Pettee Gabriel KK**. 2010. Health and television viewing. In *Leisure, Health, and Wellness: Making the Connections* (ISBN-13: 978-1-892132-89-5) edited by Payne L, Ainsworth B, Godbey G. Venture Publishing, Inc.: State College, Pennsylvania.
- 2012** 4. **Pettee Gabriel KK**, Gay JL. 2012. Physical activity and healthy adulthood. In *Physical Activity and Public Health Practice* (ISBN-13: 978-1439849514) edited by Ainsworth B and Macera C. CRC Press: Boca Raton, FL.

## 6. Special Journal Issues

- 2009** 1. **Pettee Gabriel KK**, Ainsworth BE. 2009. Physical activity, diet, and lifestyle factors related to cardiovascular disease. Supplement issue to the American Journal of Lifestyle Medicine for the *Proceedings of the 2008 Building Healthy Lifestyles Conference* edited by **Pettee Gabriel K**, Ainsworth BE. 3 (Suppl 1). Sage Publishing: Thousand Oaks, CA.

## 7. Internet Resources

- 2005** 1. **Pettee KK**, Richardson CR, Kriska AM. Physical activity epidemiology. Supercourse: Epidemiology, the Internet, and Global Health. Available online: [www.pitt.edu/~super1/lecture/lec16411/index.htm](http://www.pitt.edu/~super1/lecture/lec16411/index.htm).
- 2013** 2. **Pettee Gabriel K** & Whitfield GP. Accelerometer wear instructions. Available online: <https://www.youtube.com/watch?v=ZNo4NAPZJKE&hd=1>.

## 8. Reports

- 2007** 1. Nichols JF, **Pettee KK**, Ainsworth BE. 2007. Physiological and metabolic dimensions of

girls' physical activity in the *Tucker Center Research Report: Developing physical active girls: An evidence-based multidisciplinary approach*. 51-62.

## C. SCIENTIFIC ABSTRACTS AND PRESENTATIONS

### 1. Presentations at Scientific Conferences

- 2000** 1. Pettee KK, Incanno NM, Howell AK, Doherty TJ, Libonati JR. 2000. The effect of brachial artery blood flow on eccentrically-induced delayed onset muscle soreness of the elbow flexor group. American College of Sports Medicine: 47<sup>th</sup> Annual Meeting.
- 2004** 2. Newman MA, Storti KL, Pettee KK, Richardson CR, Boraz MA, Kriska AM. 2004. Seasonal variation of physical activity and fasting insulin levels in postmenopausal women: WOMAN clinical trial. American College of Sports Medicine: 51<sup>st</sup> Annual Meeting, Indianapolis, IN. *Medicine and Science in Sports and Exercise*, 36(5): S186.
- 2005** 3. Averbach FM, Kinzel LS, Johnson BD, Simkin-Silverman LR, Kriska AM, Pappert WS, Clark KS, Pettee KK, Buhari AM, Kuller LH. 2005. Do weight regain, maintenance, and loss have differential effects on cardiovascular risk factors in postmenopausal women? American Dietetic Association Annual Meeting. *Journal of American Dietetic Association*, 105(2): S91.
4. Conroy MB, Simkin-Silverman LR, Pettee KK, Hess R, Kriska AM, Kuller LH. 2005. Psychosocial correlates of physical activity after menopause. Society of Behavioral Medicine 26<sup>th</sup> Annual Meeting, Boston, MA. *Annals of Behavioral Medicine*, 30: S91.
5. Storti KL, Pettee KK, Brach JS, Richardson CR, Brown VL, Kriska AM. 2005. Accuracy of three commonly used activity monitors in community dwelling older adults. American College of Sports Medicine: 52<sup>rd</sup> Annual Meeting, Nashville, TN. *Medicine and Science in Sports and Exercise*, 37(5): S116.
6. Kriska AM, Pettee KK, Brach JS, Storti KL, Boraz MA, FitzGerald SJ, Newman MA, Conroy MB, Underwood DA, Kuller LH. 2005. Relationship between physical activity and coronary artery calcification in post-menopausal women. American College of Sports Medicine: 52<sup>rd</sup> Annual Meeting, Nashville, TN. *Medicine and Science in Sports and Exercise*, 37(5): S208.
7. Pettee KK, Brach JS, Kriska AM, Boudreau R, Richardson CR, Colbert LH, Satterfield S, Visser M, Rubin S, Ayonayon HN, Newman AB. 2005. Physical activity levels and marital status in the Health, Aging, and Body Composition Study. American College of Sports Medicine: 52<sup>rd</sup> Annual Meeting, Nashville, TN. *Medicine and Science in Sports and Exercise*, 37(5): S254.
- 2006** 8. Conroy MB, Kriska AM, Pettee KK, Buhari AM, Kuller LH. 2006. Impact of hormone therapy discontinuation on weight loss on and cardiovascular risk factors in overweight postmenopausal women. Society of General Internal Medicine, Los



Angeles, CA. *Journal of General Internal Medicine*, 21: S70.

9. Yankura D, Conroy M, Hess R, **Pettee K**, Kuller L, Kriska A. 2006. Impact of weight regain after initial successful weight loss on health-related quality of life after medicine. Society of Behavioral Medicine 27<sup>th</sup> Annual Meeting, San Francisco, CA. *Annals of Behavioral Medicine*, 31: S125.
10. Conroy M, Simkin-Silverman L, **Pettee K**, Hess R, Kuller L, Kriska. 2006. Consistent physical activity after menopause associated with better psychosocial profiles. Society of Behavioral Medicine 27<sup>th</sup> Annual Meeting, San Francisco, CA. *Annals of Behavioral Medicine*, 31: S15.
11. Storti KL, **Pettee KK**, El-Saed A, Takamiya T, Sekikawa K, Kriska AM. 2006. The association between leisure physical activity and lipoprotein subclasses in 40-49 year old men. American College of Sports Medicine: 53<sup>rd</sup> Annual Meeting, Denver, CO. *Medicine and Science in Sports and Exercise*, 38(5): S432.
12. **Pettee KK**, Conroy MB, Kuller LH, Johnson BD, Buhari AM, Kriska AM. 2006. The relationship between leisure physical activity, lipoprotein subclasses, and hormone therapy in postmenopausal women. American College of Sports Medicine: 53<sup>rd</sup> Annual Meeting, Denver, CO. *Medicine and Science in Sports and Exercise*, 38(5): S432.
- 2007 13. **Pettee KK**, Kriska AM, Conroy MB, Johnson BD, Orchard TJ, Goodpaster BH, Averbach FM, Kuller LH. 2007. Can a lifestyle intervention attenuate the effect of discontinuing hormone therapy on CVD risk factors? American Heart Association, Conference on Cardiovascular Epidemiology and Prevention: 47<sup>th</sup> Annual Meeting, Orlando, FL. *Circulation*. 115(8): e273 and American College of Sports Medicine: 54<sup>th</sup> Annual Meeting, New Orleans, LA. *Medicine and Science in Sports and Exercise*, 39(5): S231.
14. **Pettee KK**, Larouere BM, Kriska AM, Johnson BD, Orchard TJ, Goodpaster BH, Conroy MB, Mackey RH, Underwood DA, Kuller LA. 2007. Associations between walking performance, physical activity, and subclinical cardiovascular disease. American Heart Association, Conference on Cardiovascular Epidemiology and Prevention: 47<sup>th</sup> Annual Meeting, Orlando, FL. *Circulation*, 115(8): e249.
15. Kuller LH, Kriska AM, Kinzel LS, **Pettee KK**, Averbach FM, Pappert WS, Simkin-Silverman LR, Conroy MB, Buhari AM, Johnson BD. 2007. Increased use of lipid lowering therapy following cessation of hormone therapy: WOMAN study. American Heart Association, Conference on Cardiovascular Epidemiology and Prevention: 47<sup>th</sup> Annual Meeting, Orlando, FL. *Circulation*, 115(8): e263.
16. Ciccolo JT, **Pettee KK**, Macera CM, Ainsworth BE. 2007. The association between resistance training and self-rated health in a nationally representative sample of U.S. men and women. American College of Sports Medicine: 54<sup>th</sup> Annual Meeting,

New Orleans, LA. *Medicine and Science in Sports and Exercise*, 39(5): S242.

17. Abraham TL, McClain JJ, **Pettee KK**, Tudor-Locke C. 2007. Laboratory validation of two activity monitors for measuring time in sitting, standing, and walking behaviors. American College of Sports Medicine: 54<sup>th</sup> Annual Meeting, New Orleans, LA. *Medicine and Science in Sports and Exercise*, 39(5): S184-185.
- 2008 18. Kriska AM, Conroy MB, **Pettee KK**, Cauley JA, Kuller LH. 2008. Impact of physical activity and weight loss on bone mineral density in overweight postmenopausal women. International Osteoporosis Foundation World Congress on Osteoporosis. Bangkok, Thailand.
19. Rankin RL(\*), **Pettee KK**, Mitros ML, Leonard JL, Ainsworth BE. 2008. Accuracy of the long distance corridor (400m) walk in healthy, middle-aged women. American College of Sports Medicine: 55<sup>th</sup> Annual Meeting, Indianapolis, IN. *Medicine and Science in Sports and Exercise*, 40(5): S36.  
\*Mentored First Author
- 2009 20. **Pettee KK**, McClain JJ, Lee CD, Swan PD, Ainsworth BE. 2009. The convergent validity of physical activity questionnaires commonly used in middle-aged women. *Annals of Behavioral Medicine*, 37(Supplement): S81.
21. Debate RD, **Pettee KK**, Zwald M, Huberty J, Zhang Y. 2009. Changes in psychosocial factors and physical activity frequency among 3<sup>rd</sup> to 8<sup>th</sup> grade girls who participated in a developmentally focused youth sport program. *Annals of Behavioral Medicine*, 37(Supplement): S81 and *American Academy of Health Behavior* (poster of distinction).
22. DeBate RD, Huberty J, **Pettee KK**. 2009. Psychometric properties of the commitment to physical activity scale in a sample of 3<sup>rd</sup> – 8<sup>th</sup> grade girls. *Annals of Behavioral Medicine*, 37(Supplement): S129.
23. **Pettee KK**, McClain JJ, Storti KL, Lee CD, Ainsworth BE. 2009. Comparison of accelerometer and physical activity questionnaire data in middle-aged women. American College of Sports Medicine: 56<sup>th</sup> Annual Meeting, Seattle, WA. *Medicine and Science in Sports and Exercise*, 41(5): S310.
24. Mitros MR(\*), **Pettee KK**, Swan PD. 2008. Reliability and validity of a single-stage submaximal treadmill walking protocol in healthy, middle-aged women. Southwest Chapter of the American College of Sports Medicine Annual Meeting. October 23-24 in San Diego, CA.  
\*Mentored First Author
- 2010 25. **Pettee Gabriel K**, DeBate RD, High RR, Racine EF. Role of intervention dose on developmental assets in 3<sup>rd</sup>-5<sup>th</sup> grade girls: Results from an evaluation study of Girls

on the Run. American Public Health Association: 138<sup>th</sup> Annual Meeting, Denver, CO. November 6-10, 2010

26. **Pettee Gabriel K**, DeBate RD, High RR, Racine EF. Girls on the Run: Evaluation of a developmentally-focused youth sport program designed for 3<sup>rd</sup>-5<sup>th</sup> grade girls. American Public Health Association: 138<sup>th</sup> Annual Meeting, Denver, CO. November 6-10, 2010.
27. Conroy MB, Sereika SM, Styn MA, Elci OU, Wang J, Kriska AM, **Pettee Gabriel K**, Burke L. Associations Among Self-monitoring, Leisure Physical Activity, And Weight Loss: 6-month Results From The Smart Trial. American College of Sports Medicine: 57<sup>th</sup> Annual Meeting, Baltimore, MA. June 2-5, 2010.
28. Casas R, Conroy MB, Kriska AM, **Pettee Gabriel K**, Kuller LH. Association of Leisure Physical Activity and Sleep Quality with Cardiovascular Risk Factors in Postmenopausal Women. American College of Sports Medicine: 57<sup>th</sup> Annual Meeting, Baltimore, MA. June 2-5, 2010.
29. **Pettee Gabriel K**, Kriska AM, Schmid KK, Conroy MB, Underwood DA, Storti KL, Kuller LH. Longitudinal relationship between walking performance and body composition in overweight postmenopausal women: Results from the WOMAN Study. Joint Conference - 50th Cardiovascular Disease Epidemiology and Prevention - and - Nutrition, Physical Activity, and Metabolism, San Francisco, CA. March 2-5, 2010.
30. Conroy MB, **Pettee Gabriel K**, Kriska AM, Mackey R, Kuller LH. Early predictors of long-term success of weight loss: Results from the WOMAN Study. Joint Conference - 50th Cardiovascular Disease Epidemiology and Prevention - and - Nutrition, Physical Activity, and Metabolism, San Francisco, CA. March 2-5, 2010.
31. Storti KL, Kriska AM, **Pettee Gabriel K**, Conroy MB, Underwood DA, Kuller LH. Maintenance of modest improvements in physical activity and weight loss over time and cardiovascular disease risk factors: Results from the WOMAN Study. Joint Conference - 50th Cardiovascular Disease Epidemiology and Prevention - and - Nutrition, Physical Activity, and Metabolism, San Francisco, CA. March 2-5, 2010.
32. Storti KL, **Pettee Gabriel K**; Kriska AM, Sekikawa A. Association between objectively measured physical activity and subclinical atherosclerosis and metabolic risk factors among African American, Japanese American, and Korean Men. Joint Conference - 50th Cardiovascular Disease Epidemiology and Prevention - and - Nutrition, Physical Activity, and Metabolism, San Francisco, CA. March 2-5, 2010.
- 2011 33. **Pettee Gabriel KK**, McClain JJ, Schmid KK, High RR, Whitfield GP, Ainsworth BE. Patterns of accelerometer-derived estimates of sedentary behavior in middle-aged women. American College of Sports Medicine: 58<sup>th</sup> Annual Meeting, Denver, CO. May 31-June 4, 2011.

34. Bowles HR, **Pettee Gabriel KK**. The LEAD approach to evidence-based physical activity measure selection. Tutorial. American College of Sports Medicine: 58<sup>th</sup> Annual Meeting, Denver, CO. May 31-June 4, 2011.
35. Conroy MB, **Pettee Gabriel K**, Jones BL, Kuller LH, Kriska AM. Among objectively-measured physical activity, muscle strength and quality, and regional adiposity in post-menopausal women. Joint Conference - 51th Cardiovascular Disease Epidemiology and Prevention - and - Nutrition, Physical Activity, and Metabolism, Atlanta, GA. March 22-25, 2011.
- 2012** 36. **Pettee Gabriel KP**, Klifa C, Pérez A, Kriska AM, Dorgan JF. Adolescent and young adult exposure to physical activity and breast density: a biomarker for breast cancer risk. American Institute for Cancer Research Annual Research Conference on Food, Nutrition, Physical Activity and Cancer. Washington, D.C. November 1-2, 2012.
37. Befort C, Austin H, **Pettee Gabriel K**. Self-reported and accelerometer levels of physical activity and associations with weight loss among rural breast cancer survivors. Obesity Society Annual Scientific Meeting. San Antonio, TX. September 20-24, 2012.
38. Whitfield GP, **Pettee Gabriel KK**, Kohl HW III. Sedentary marathoners: The multi-context sitting time questionnaire and reported sitting among highly active runners. American College of Sports Medicine: 59<sup>th</sup> Annual Meeting, San Francisco, CA. May 29-June 2, 2012.
39. Hawkins M, **Pettee Gabriel K**, Cooper J, Storti K, Sutton-Tyrrell K, Kriska A. Change in total volume of physical activity and its relationship with change in arterial stiffness. American College of Sports Medicine: 59th Annual Meeting, San Francisco, CA. May 29-June 2, 2012.
40. Storti KL, Hawkins MS, Cooper JN, **Pettee Gabriel K**, Sutton-Tyrell K, Kriska AM. Physical activity change and its relationship with change in insulin resistance (HOMA-IR). American College of Sports Medicine: 59th Annual Meeting, San Francisco, CA. May 29-June 2, 2012.
41. Janak JC (\*), **Pettee Gabriel K**, Kohl HW, Kelder S. The Association Between Physical Fitness and Academic Achievement: An Ecologic Study". International Society for Behavioral Nutrition and Physical Activity: 2012 Annual Meeting. May 23-26, 2012.  
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42. Creamer M, Bowles HR, von Hofe B, **Pettee Gabriel K**, Kohl HW, Bauman A. Adaptation and evaluation of the Active Australia Survey for Internet-based self-administration. International Society for Behavioral Nutrition and Physical Activity: 2012 Annual Meeting. May 23-26, 2012.

43. Shuval K, Finley C, Chartier K, Balasubramanian B, **Pettee Gabriel K**, Barlow C. Cardiorespiratory Fitness, Alcohol Consumption and the Incidence of Metabolic Syndrome in Men: The Cooper Center Longitudinal Study. International Society for Behavioral Nutrition and Physical Activity: 2012 Annual Meeting. May 23-26, 2012.
- 2013** 44. **Pettee Gabriel KP**. The epidemiology of menopause. American College of Sports Medicine: 60<sup>th</sup> Annual Meeting, Indianapolis, IN. May 28 – June 1, 2013.
45. Lambaise MJ, **Pettee Gabriel KP**, Kuller LH, Matthews KA. Assessing The Bidirectional Relationship Between Physical Activity And Sleep In Elderly Women. American College of Sports Medicine: 60<sup>th</sup> Annual Meeting, Indianapolis, IN. May 28 – June 1, 2013.
- 2014** 46. Barlow CE(\*), Finley CE, Shuval K, Kendzor DE, Farrell SW, **Pettee Gabriel K**. The association between sitting time and estimated maximal VO2 level among adult men and women. American College of Sports Medicine. 61<sup>st</sup> Annual Meeting, Orlando, FL. May 27-31, 2014.  
*\*Mentored First Author*
47. Lambias MJ, **Pettee Gabriel K**, Kuller LH, Matthews KA. Sleep and executive function in older women: The moderating effect of physical activity. American College of Sports Medicine. 61<sup>st</sup> Annual Meeting, Orlando, FL. May 27-31, 2014.
- 2015** 48. Park ED, Meininger JC, Kang DH, **Pettee Gabriel K**, Association of cardiorespiratory fitness and adiposity with inflammatory biomarkers in young adults. American Heart Association, Epidemiology and Prevention | Lifestyle and Cardiometabolic Health 2015 Scientific Sessions. Baltimore, MD. March 3-6, 2015.
49. Barlow CE (\*), **Pettee Gabriel K**, Shuval K, Balasubramanian B, Kendzor DE, Finley CE, DeFina L. Does cardiorespiratory fitness modify the association between sitting time and obesity? American Heart Association, Epidemiology and Prevention | Lifestyle and Cardiometabolic Health 2015 Scientific Sessions. Baltimore, MD. March 3-6, 2015.  
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50. Rana JS, Murillo R, Quesenberry CP, Sorel ME, Sternfeld B, **Pettee Gabriel K**, Carnethon MR, Liu K, Reis JP, Allen NB, Lloyd-Jones D, Carr J, Sidney S. 25 year physical activity trajectories and development of subclinical coronary artery disease as measured by coronary artery calcium: The CARDIA Study. American Heart Association, Epidemiology and Prevention | Lifestyle and Cardiometabolic Health 2015 Scientific Sessions. Baltimore, MD. March 3-6, 2015.
51. Kats D, Palta P, **Pettee Gabriel K**, Champlain R, Heiss G, Evenson KR. 2015. Physical activity patterns from mid-life to older adulthood: The Atherosclerosis Risk in Communities (ARIC) Study. American Heart Association's Council on Epidemiology

and Prevention | Lifestyle and Cardiometabolic Health Scientific Sessions.  
Baltimore, MD. March 3-6, 2015.

52. Durand C, Oluyomi A, **Pettee Gabriel K**, Sener I, Hoelscher D, Knell G, Tang X, Kohl HW III. 2015. The effect of light rail transit on physical activity: design and methods of the Transport Related Activity in Neighborhoods (TRAIN) Study. American College of Sports Medicine – Transportation Research Board Annual Meeting. April 2015.
53. **Pettee Gabriel K**, Knell G, Durand C, Oluyomi A, Kohl HW III. 2015. Differences in accelerometer-determined sedentary time and physical activity by transportation-related characteristics. American College of Sports Medicine 62<sup>nd</sup> Annual Meeting. San Diego, CA. May 26-30, 2015.
54. Barone Gibbs B, **Pettee Gabriel K**, Reis JP, Carnethon M, Jakicic JM, Sternfeld B. 2015. Cross-sectional and longitudinal associations between objective-measured sedentary time and metabolic disease: The Coronary Artery Risk Development in Young Adults (CARDIA) Study. American College of Sports Medicine 62<sup>nd</sup> Annual Meeting. San Diego, CA. May 26-30, 2015.
55. Knell G(\*), **Pettee Gabriel K**, Durand C, Oluyomi A, Armstrong M, Kohl HW III. 2015. Obtaining accelerometer data through mail administration: The Houston Transport Related Activity in Neighborhoods (TRAIN) Study. American College of Sports Medicine 62<sup>nd</sup> Annual Meeting. San Diego, CA. May 26-30, 2015.  
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56. Lee J(\*), Lambiase M, Matthews KA, Kuller LH, **Pettee Gabriel K**. 2015. The associations between objectively-determined sleep, sedentary behavior, and physical activity in older women. American College of Sports Medicine 62<sup>nd</sup> Annual Meeting. San Diego, CA. May 26-30, 2015.  
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57. Shuval K, Barlow CE, Finley CE, **Pettee Gabriel K**, Schmidt MD, DeFina LF. 2015. Is Standing Associated With Obesity Irrespective Of Physical Activity And Cardiorespiratory Fitness? American College of Sports Medicine 62<sup>nd</sup> Annual Meeting. San Diego, CA. May 26-30, 2015.
58. Barlow CE(\*), Shuval K, Balasubramanian B, Kendzor DE, **Pettee Gabriel K**. 2015. Does cardiorespiratory fitness mitigate the association between sitting time and obesity. American College of Sports Medicine 62<sup>nd</sup> Annual Meeting. San Diego, CA. May 26-30, 2015.  
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59. Han H, **Pettee Gabriel K**, Kohl HW III. 2015. Patterns of physical activity and sedentary behaviors outside of a college physical education course. American College of Sports Medicine 62<sup>nd</sup> Annual Meeting. San Diego, CA. May 26-30, 2015.

60. Tang X, Oluyomi A, Durand C, Knell G, **Pettee Gabriel K**, Sener I, Kohl HW III. 2015. Land use and walkability around a newly built light rail transit line: The Houston TRAIN Study. American College of Sports Medicine 62<sup>nd</sup> Annual Meeting. San Diego, CA. May 26-30, 2015.
61. Shuval K, Nguyen BT, Yaroch YL, **Pettee Gabriel K**. 2015. Adhering to physical activity guidelines and dietary quality among U.S. adults by race/ethnicity and income. 36<sup>th</sup> Annual Meeting & Scientific Sessions of the Society for Behavioral Medicine. San Antonio, TX. April 22-25, 2015.
62. Demerath EW, Seals SR, Griswold M, **Pettee Gabriel K**, Pompeii L, Windham BG. 2015. Association of early age at natural menopause with objectively-measured physical function in 4,723 older women in the Atherosclerosis Risk in Communities (ARIC) Study. American Geriatrics Association 2015 Annual Meeting. National Harbor, MD. May 15-17, 2015.
63. Han H, **Pettee Gabriel K**, Kohl HW III. Application of the transtheoretical model to sedentary behaviors and its association with physical activity. American Academy of Health Behavior: 14<sup>th</sup> Annual Scientific Meeting. San Antonio, TX. March 15-18, 2015.
64. Han H, **Pettee Gabriel K**, Kohl HW III. Development of a transtheoretical model questionnaire for sedentary behaviors: evaluation of validity and reliability. American Academy of Health Behavior: 14<sup>th</sup> Annual Scientific Meeting. San Antonio, TX. March 15-18, 2015.
65. Carpenter KC, Pereira MA, Odegaard AO, Jacobs DR, Sternfeld B, Reis JP, **Pettee Gabriel K**. Sedentary behavior and CVD risk factors in Year 25 of the CARDIA Study. Experimental Biology 2015. Boston, MA. March 28-April 1, 2015.
- 2016** 66. Salvo D, Durand C, Oluyomi A, Hoelscher D, **Pettee Gabriel K**, Sener I, Kohl HW III. Geospatial characterization of green space availability and its association with neighborhood income and racial/ethnic composition in the Houston TRAIN Study target area. Active Living Research Conference 2016. Clearwater, FL. January 31-February 3, 2016.
67. **Pettee Gabriel K**, Pérez A, Lee J, Kohl HW III, Jacobs DR, Sternfeld B. The predictive ability and validity of a composite physical activity score in relation to adiposity measures: Coronary Artery Risk Development in Young Adults (CARDIA). American Heart Association's Council on Epidemiology and Prevention | Lifestyle and Cardiometabolic Health Scientific Sessions. Phoenix, AZ. March 1-4, 2016.
68. Barone Gibbs B, Carnethon M, Gary-Webb T, Jakicic J, **Pettee Gabriel K**, Rana J, Reis J, Sternfeld B, Lewis C. Cross-sectional and Longitudinal Associations of Objective Sedentary Time, Physical Activity, and Obesity: the CARDIA Study. American Heart Association's Council on Epidemiology and Prevention | Lifestyle and Cardiometabolic Health Scientific Sessions. Phoenix, AZ. March 1-4, 2016.

69. Knell G (\*), **Pettee Gabriel K**, Businelle M, Shuval K, Kendzor D. Convergent validity of ecological momentary assessment to assess free-living sedentary behaviour and physical activity. American College of Sports Medicine 63<sup>rd</sup> Annual Meeting. Boston, MA. June 1-4, 2016.  
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70. Salvo D, **Pettee Gabriel K**, Durand C, Oluyomi A, Hoelscher D, Sener I, Kohl HW III. Associations of individual and neighborhood level characteristics with leisure-time physical activity: The Houston TRAIN Study. American College of Sports Medicine 63<sup>rd</sup> Annual Meeting. Boston, MA. May 26-30, 2015. June 1-4, 2016.
71. Knell G (\*), Salvo D, **Pettee Gabriel K**, Durand C, Oluyomi A, Hoelscher D, Kohl HW III. Describing the methodology to estimate accelerometer return percentage from a study utilizing mail-based data collection. American College of Sports Medicine 63<sup>rd</sup> Annual Meeting. Boston, MA. June 1-4, 2016.  
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72. Tang X, Durand C, Salvo D, **Pettee Gabriel K**, Robertson M, Knell G, Porter A, Sener IN, Hoelscher DM, Kohl HW III. Application of theory of planned behavior to transit use: The Houston TRAIN Study. American College of Sports Medicine 63<sup>rd</sup> Annual Meeting. Boston, MA. June 1-4, 2016.
73. Salvo D, Durand C, **Pettee Gabriel K**, Oluyomi A, Hoelscher DM, Porter A, Kohl HW III. Individual and environmental correlates of domain-specific walking and bicycling among adults in a U.S. city: The Houston TRAIN Study. 6<sup>th</sup> International Congress on Physical Activity and Public Health. Bangkok, Thailand. November 16-19, 2016.
74. Peng T (\*), Pérez A, **Pettee Gabriel K**. Association between obesity and low back pain in adults: Data from the 2012 National Health Interview Survey. American Public Health Association 2016 Annual Meeting. Denver, CO. October 29-November 2, 2016.  
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75. Vidoni ML, Luo S, **Pettee Gabriel K**, Tanaka T, Simonsick EM, Day RS. A Homocysteine Metabolism Based Diet Pattern and Physical Function in Older Adults. 2016 Gerontology Society of America Annual Scientific Meeting, New Orleans, LA, November 16-20, 2016.
76. Knell G (\*), **Pettee Gabriel K**, Durand C, Salvo D, Kohl HW III. Relationship between physical activity and public transit use: Data from the Houston TRAIN Study. 6<sup>th</sup> International Congress on Physical Activity and Public Health. Bangkok, Thailand, November 16-19, 2016.  
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- 2017** 77. Song J, Basen-Enquist K, **Pettee Gabriel K**, Swartz M. The impact of informative wear time on modeling physical activity data measured using accelerometers. *Eastern North American Region (ENAR) International Biometric Society 2017*. Washington D.C. March 12-15, 2017.
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132. Burford K, Durand C, Zhang Y, **Pettee Gabriel K**, Knell G, Kohl HW. Associations between psychosocial factors and transit use status: The Houston Travel-Related Activities in Neighborhoods (TRAIN) Study. 2022 International Society of Behavioral Nutrition and Physical Activity. Phoenix, AZ. May 18 – 21, 2022.
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141. Leitzelar BN, Crawford S, Levine B, Ylitalo KR, Colvin AB, Greendale GA, **Pettee Gabriel K**, Avis NE. Physical activity and quality of life in breast cancer survivors from The Study of Women’s Health Across the Nation: Pink SWAN. 44<sup>th</sup> Annual Meeting & Scientific Sessions of the Society of Behavioral Medicine. Phoenix, AZ. April 26-29, 2023.
142. Peng T, Chen B, Brown HS, Douphrate D, Janak J, **Pettee Gabriel K**. Predictors of Utilization Frequency and Expenditure Level of Chiropractic Care in US Adults: Data from the Medical Expenditure Panel Survey. Association of Chiropractic Colleges – Research Agenda Conference. New Orleans, Louisiana. March 24-25, 2023.
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145. Gerber Y, **Pettee Gabriel K**, Jacobs DR, Liu JY, Rana JS, Sternfeld B, Carr JJ, Thompson PD, Sidney S. The relationship of cardiorespiratory fitness, physical activity, and coronary artery calcification to incident cardiovascular disease events in CARDIA participants. American Heart Association EPI|Lifestyle 2023. Boston, MA. February 28 – March 3, 2023.
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Artery Risk Development in Young Adults (CARDIA) Study. American Heart Association EPI|Lifestyle 2023. Boston, MA. February 28 – March 3, 2023.

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159. Lancaster B, Fleming K, Swinburne Romine R, Forseth B, Nelson E, Dreyer Gillette M, Faith M, Sullivan DK, **Pettee Gabriel K**, Dean K, Olalde M, Davis A. Effectiveness of a pediatric weight management intervention for rural youth (iAMHealthy): Primary outcomes of a randomized control trial. The Obesity Society Annual Meeting. Dallas, TX. October 14-17, 2023.

160. Roe LS, Yu T, Heilmann NZ, Sekel NM, Kolton KJ, Hughes J, Aaron K, Freeland KS, Cawthon PM, Glynn NW, **Pettee Gabriel K**, Nindl B, Caserotti P, Strotmeyer ES, Cauley JA. Applying novel analytic methods to 24-hour physical activity and sleep behaviors to determine associations with HR-pQCT parameters at the distal limbs in older adults: The Study of Muscle, Mobility and Aging (SOMMA). ASMBR 2023 Annual Meeting. Vancouver, BC, Canada. October 13-16, 2023.
161. Roe LS, Strotmeyer ES, Cawthon PM, Glynn NW, Ancoli-Israel S, Ensrud K, Redline S, Stone KL, **Pettee Gabriel K**, Bauer DC, Cauley JA. The association between 24-hour activity with incident fracture risk in the Osteoporotic Fractures in Men (MrOS) Study. ASMBR 2023 Annual Meeting. Vancouver, BC, Canada. October 13-16, 2023.
162. Burrows B, Sloane R, Faldowski R, Pieper C, Lewis CE, **Pettee Gabriel K**, Jacobs DR, Bowling CB. Development of a physical performance summary score in middle age: Findings from the CARDIA Function Ancillary Study. Gerontological Society of America (GSA) 2023 Annual Scientific Meeting. Tampa, FL. November 8-12, 2023.
163. Roe LS, Strotmeyer ES, Cawthon PM, Glynn NW, Ancoli-Israel S, Ensrud K, Redline S, Stone KL, **Pettee Gabriel K**, Cauley JA. Determining the association between the 24-hour composition of waking behaviors and sleep with recurrent falls. Gerontological Society of America (GSA) 2023 Annual Scientific Meeting. Tampa, FL. November 8-12, 2023.
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166. Hornikel B, Dooley EE, Bowling CB, Chen B, Martinez-Amezcuca P, Jacobs DR, Carnethon M, Sternfeld B, Lewis CE, Sidney S, Palta P, **Pettee Gabriel K**. Developing and validating VO2 prediction from 6-minute walk test (6MWT) and association with cardiovascular health and risk scores: Coronary Artery Risk Development in Young Adults (CARDIA). American Heart Association EPI|Lifestyle 2024. Chicago, IL. March 18-21, 2024.

167. Jones R, Hanks MJ, Armstrong ND, **Pettee Gabriel K**, Buford TW, Dooley EE. Activity behaviors and cardiometabolic health outcomes in people living with HIV. American Heart Association EPI|Lifestyle 2024. Chicago, IL. March 18-21, 2024.
168. Plante TB, Juraschek SP, Balte P, Krishnaswamy A, Mok Y, Allen N, **Pettee Gabriel K**, Xanthakis V, Norwood AF, Min YI, Gonzales S, Sortes-Alvarez, Talavera G, Daviglus M, Talegawkar S, Jin Y, Lloyd-Jones D, Elkind MSV, Rundek T, Gutierrez JD, Levitan E, Cushman M, Judd S, Wang H, Zakai N, Howard V, Pamir N, Safford M, Kamin Mukaz D, Fretts M, Oelsner EC. Risk of COVID-19 hospitalization or death by life's essential 8-quantified cardiovascular health in collaborative cohort of cohorts for COVID-19 research (C4R) participants without clinical cardiovascular disease. American Heart Association EPI|Lifestyle 2024. Chicago, IL. March 18-21, 2024.

## 2. Invited Presentations

- |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>2008</b> | <ol style="list-style-type: none"><li>1. Physical activity in middle-aged women. Promoting health in at-risk individuals collaborative. College of Nursing, University of Nebraska Medical Center. November 2008.</li><li>2. Current issues regarding physical activity research in middle-aged women: assessment and promotion/intervention. Division of Kinesiology, University of Michigan. March 2008.</li><li>3. Designing physical activity interventions to reduce CVD risk in peri- and early-postmenopausal women. Building Healthy Lifestyles Conference, Arizona State University. February 2008.</li></ol> |
| <b>2009</b> | <ol style="list-style-type: none"><li>4. Designing physical activity interventions in middle-aged women. College of Nursing, University of Nebraska Medical Center. March 2009.</li></ol>                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>2010</b> | <ol style="list-style-type: none"><li>5. A framework for physical activity as a complex and multidimensional behavior. Measurement of Active and Sedentary Behaviors: Closing the Gaps in Self-Report Methods. National Cancer Institute, Centers for Disease Control and Prevention, National Institutes of Health Office of Disease Prevention, American College of Sports Medicine, National Collaborative on Childhood Obesity Research. Meeting held in Bethesda, Maryland on July 21-23, 2010. Webinar archived on NCCOR website.</li></ol>                                                                      |
| <b>2011</b> | <ol style="list-style-type: none"><li>6. Applying a conceptual framework to physical activity research in middle-age and older adults. University of Pittsburgh, Graduate School of Public Health. Public Health in Aging Seminar: Center for Aging and Population Health.</li></ol>                                                                                                                                                                                                                                                                                                                                   |
| <b>2015</b> | <ol style="list-style-type: none"><li>7. The CARDIA Activity Study. CARDIA Steering Committee Meeting. Bethesda, MD. October 7-9, 2015.</li><li>8. The ARIC Physical Activity and Falls Study. ARIC Steering Committee Meeting. Bethesda, MD. November 16-17, 2015.</li></ol>                                                                                                                                                                                                                                                                                                                                          |

- 2016** 9. Physical Activity Trajectories in early mid-life and risk of functional decline in late mid-life. SWAN Steering Committee Meeting, Bethesda, MD. November 2-4, 2016.
- 2017** 10. Equipping the Physical Activity Workforce for Breakthroughs in Public Health Research. National Cancer Institute, Rockville, MD. October 23, 2017.
- 2018** 11. Putting It All Together: The Coronary Artery Risk Development in Young Adults (CARDIA) Fitness and Activity Ancillary Studies. Center for Energy Balance Research Seminar. MD Anderson, Houston, TX. March 15, 2018.
- 2020** 12. 24-hour movement cycle phenotype: Dallas Hearts and Minds Study. DHMS Summer Research Sessions. University of Texas Southwestern, Dallas, TX. August 12, 2020.
- 2020** 13. Physical activity and physical performance outcomes in women during the mid- to late- life transition: The Study of Women's Health Across the Nation (SWAN). Cross-cutting Cardiovascular Conversations Seminar. The University of North Carolina at Chapel Hill, Chapel Hill, NC. October 27, 2020.
- 2021** 14. Old school or new school? Part 2: A panel on current thinking and innovations in physical activity measurement. A virtual debate sponsored by the Physical Activity Special Interest Group. Society of Behavioral Medicine. 42<sup>nd</sup> Annual Meeting & Scientific Sessions [Virtual]. April 12-16, 2021.
15. 20-year changes in fitness: What can we learn from early adulthood? UAB NORC Seminar Series. May 25, 2021.
- 2022** 16. Physical activity for the prevention and control of hypertension. American Heart Association Hypertension Annual Meeting. San Diego, CA. September 7-10, 2022.
17. Declines in cardiorespiratory fitness from early adulthood to midlife are related to all-cause mortality and fatal and non-fatal cardiovascular disease. CARDIA Steering Committee Meeting. Bethesda, MD. October 20-21, 2022.
18. Declines in cardiorespiratory fitness from early adulthood to midlife are related to all-cause mortality and fatal and non-fatal cardiovascular disease. UNC Cardiovascular Epidemiology Seminar. [Virtual]. November 22, 2022.

## II. TEACHING ACTIVITIES

### A. COURSES TAUGHT AT THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

| YEAR |  | COURSE<br>NUMBER | COURSE NAME | ROLE | MODE | # of<br>STUDENTS | TEACHING<br>SCORE * |
|------|--|------------------|-------------|------|------|------------------|---------------------|
|------|--|------------------|-------------|------|------|------------------|---------------------|

|                |    |         |              |                        |           |    |      |
|----------------|----|---------|--------------|------------------------|-----------|----|------|
| <b>2020-21</b> | 1. | PUH 302 | Epidemiology | Lead Instructor (100%) | Remote    | 58 | 4.55 |
| <b>2021-22</b> | 2. | PUH 302 | Epidemiology | Lead Instructor (100%) | In-person | 50 | 4.05 |
| <b>2022-23</b> | 3. | PUH 302 | Epidemiology | Lead Instructor (100%) | In-person | 50 | 4.5  |

\* Denotes Student-determined, Instructor Effectiveness Score; Range 1.0 to 5.0 (high)

| <b>B. COURSES TAUGHT AT THE UNIVERSITY OF TEXAS SCHOOL OF PUBLIC HEALTH</b> |    |                      |                                                                                |                        |             |                      |                         |
|-----------------------------------------------------------------------------|----|----------------------|--------------------------------------------------------------------------------|------------------------|-------------|----------------------|-------------------------|
| <b>YEAR</b>                                                                 |    | <b>COURSE NUMBER</b> | <b>COURSE NAME</b>                                                             | <b>ROLE</b>            | <b>MODE</b> | <b># of STUDENTS</b> | <b>TEACHING SCORE *</b> |
| <b>2010-11</b>                                                              | 1. | PH 2610              | Fundamentals of Epidemiology                                                   | Lead Instructor (100%) | Online      | 21                   | 4.73                    |
| <b>2011-12</b>                                                              | 2. | PH 2610              | Fundamentals of Epidemiology                                                   | Lead Instructor (100%) | Online      | 34                   | 4.57                    |
|                                                                             | 3. | PH 2615              | Field Research Methods in Epidemiology (EPI II)                                | Lead Instructor (50%)  | ITV         | 38                   | 4.65                    |
| <b>2012-13</b>                                                              | 4. | PH 2998              | Measurement and Assessment of Physical Activity in Individuals and Populations | Co-Instructor (50%)    | ITV         | 14**                 | 5.0                     |
|                                                                             | 5. | PH 2615              | Field Research Methods in Epidemiology (EPI II)                                | Lead Instructor (50%)  | ITV         | 30                   | 4.95                    |
|                                                                             | 6. | PH 2610              | Fundamentals of Epidemiology                                                   | Lead Instructor (100%) | Online      | 29                   | 4.94                    |
| <b>2013-14</b>                                                              | 7. | PH 2615              | Field Research Methods in Epidemiology (EPI II)                                | Lead Instructor (50%)  | ITV         | 27                   | 5.0                     |
|                                                                             | 8. | PH 5400              | Physical Activity Assessment and Surveillance                                  | Lead Instructor (100%) | ITV         | 13                   | 5.0                     |

|                |     |         |                                                 |                        |        |     |      |
|----------------|-----|---------|-------------------------------------------------|------------------------|--------|-----|------|
| <b>2014-15</b> | 9.  | PH 2615 | Field Research Methods in Epidemiology (EPI II) | Lead Instructor (50%)  | ITV    | 34  | 4.96 |
|                | 10. | PH 2610 | Fundamentals of Epidemiology                    | Co-Instructor (50%)    | Online | 39  | 4.87 |
| <b>2015-16</b> | 11. | PH 2615 | Field Research Methods in Epidemiology (EPI II) | Lead Instructor (50%)  | ITV    | 34  | 5.0  |
|                | 12. | PH 5400 | Physical Activity Assessment and Surveillance   | Lead Instructor (100%) | ITV    | 6** | 5.0  |
| <b>2016-17</b> | 13. | PH2615  | Field Research Methods in Epidemiology (EPI II) | Lead Instructor (50%)  | ITV    | 43  | 4.83 |
|                | 14. | PH 5400 | Physical Activity Assessment and Surveillance   | Lead Instructor (100%) | ITV    | 6** | 5.0  |
| <b>2017-18</b> | 15. | PH2615  | Field Research Methods in Epidemiology (EPI II) | Lead Instructor (50%)  | ITV    | 39  | 4.97 |
|                | 16. | PH5400  | Physical Activity Assessment and Surveillance   | Lead Instructor (100%) | ITV    | 7   | 5.0  |
| <b>2018-19</b> | 17. | PH2615  | Field Research Methods in Epidemiology (EPI II) | Lead Instructor (50%)  | ITV    | 49  | 4.85 |
|                | 18. | PH5400  | Physical Activity Assessment and Surveillance   | Lead Instructor (100%) | ITV    | 2   | 5.0  |

\* Denotes Student-determined, Instructor Effectiveness Score; Range 1.0 to 5.0 (high)

\*\*Course also included students from the University of Texas at Austin; number not reflected here.

### C. COURSES TAUGHT AT DELL MEDICAL SCHOOL, THE UNIVERSITY OF TEXAS AT AUSTIN

| YEAR           |    | COURSE NAME          | ROLE                   | MODE      |
|----------------|----|----------------------|------------------------|-----------|
| <b>2016-17</b> | 1. | Research Methods I*  | Lead Instructor (100%) | In-person |
|                | 2. | Research Methods II* | Lead Instructor (100%) | In-person |
| <b>2017-18</b> | 3. | Research Methods I*  | Lead Instructor (100%) | In-person |
|                | 4. | Research Methods II* | Lead Instructor (100%) | In-person |
| <b>2018-19</b> | 5. | Research Methods I*  | Lead Instructor (100%) | In-person |

|                |    |                       |                        |           |
|----------------|----|-----------------------|------------------------|-----------|
|                | 6. | Research Methods II*  | Lead Instructor (100%) | In-person |
| <b>2019-20</b> | 7. | Research Methods I**  | Lead Instructor (100%) | In-person |
|                | 8. | Research Methods II** | Lead Instructor (100%) | In-person |

\* Learners include Obstetrics and Gynecology Resident Interns (PGY1).

\*\* Learners include Obstetrics and Gynecology Resident Interns (PGY1), Uro-Gynecology Fellows, and Dell Medical School Research Staff and Junior Faculty

#### D. COURSES TAUGHT AT ITHACA COLLEGE

| YEAR           |    | COURSE NUMBER | NAME                             | ROLE                   | MODE      |
|----------------|----|---------------|----------------------------------|------------------------|-----------|
| <b>2000-02</b> | 1. | 663-22000     | Kinesiology (Lecture and Lab)    | Lead Instructor (100%) | In-person |
|                | 2. | 663-12600     | Human Anatomy Lab                | Lead Instructor (100%) | In-person |
|                | 3. | 663-16200     | Introduction to Exercise Science | Lead Instructor (100%) | In-person |
|                | 4. | 663-32100     | Exercise Physiology Lab          | Lead Instructor (100%) | In-person |
|                | 5. | 663-26200     | Graded Exercise Testing          | Lead Instructor (100%) | In-person |
|                | 6. | 663-26200     | Exercise Leadership              | Lead Instructor (100%) | In-person |

\* # of Students or Teaching Scores Not Tracked

#### E. GUEST LECTURES

| YEAR           | LECTURE                                                                                      | INSTITUTION                           |
|----------------|----------------------------------------------------------------------------------------------|---------------------------------------|
| <b>2008-09</b> | EPIDEM 2151: Physical Activity Epidemiology. "Physical activity and cardiovascular disease". | University of Pittsburgh              |
|                | EPI 812: Chronic Disease Prevention and Control. "Physical activity epidemiology".           | University of Nebraska Medical Center |
|                | EPI 821: Advanced Epidemiology. "Error measurement".                                         | University of Nebraska Medical Center |
| <b>2009-10</b> | EPI 821: Advanced Epidemiology. "Error measurement".                                         | University of Nebraska Medical Center |
|                | PH-1498. Physical Activity Assessment. "Self-report physical activity measures".             | UTSPH / UT-Austin                     |
| <b>2013-14</b> | NSC 115. Women in Natural Sciences Seminar. "Public Health".                                 | UT-Austin                             |



|             |                                                                                                                                                              |                                     |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>2019</b> | Dell Medical School Resident Distinction Program.<br>"Research 101: Study Design".                                                                           | UT-Austin                           |
| <b>2020</b> | Physical activity and physical performance outcomes in women during the mid- to late- life transition: The Study of Women's Health Across the Nation (SWAN). | Indiana University of Pennsylvania  |
| <b>2022</b> | EPI 620. Coronary Artery Risk Development in Young Adults (CARDIA) Study                                                                                     | University of Alabama at Birmingham |

**F. INDIVIDUALIZED STUDY AT THE UNIVERSITY OF TEXAS SCHOOL OF PUBLIC HEALTH**

| YEAR           |     | STUDENT NAME         | LEVEL | TYPE OF TEACHING           | CREDIT HOURS |
|----------------|-----|----------------------|-------|----------------------------|--------------|
| <b>2010-11</b> | 1.  | Ashley Dixon         | MPH   | Practicum                  | 3            |
| <b>2011-12</b> | 2.  | Elizabeth Johnson    | MPH   | Practicum                  | 3            |
|                | 3.  | Shannon McCarty      | MPH   | Practicum                  | 3            |
|                | 4.  | Laura Bollich        | MPH   | Practicum                  | 3            |
|                | 5.  | Lindsay Dickey       | MPH   | Practicum                  | 3            |
|                | 6.  | Shannon McCarty      | MPH   | Independent Study          | 3            |
|                | 7.  | Judson Janak         | PhD   | Independent Study          | 3            |
|                | 8.  | Ashley Dixon         | MPH   | Thesis                     | 3            |
| <b>2012-13</b> | 9.  | Whitney Chlon        | MPH   | Practicum                  | 3            |
|                | 10. | Allison Pellerito    | MPH   | Practicum                  | 3            |
|                | 11. | Taylor Yardley       | MPH   | Practicum                  | 3            |
|                | 12. | Lauren Menasco-Davis | MPH   | Practicum                  | 3            |
|                | 13. | Karisha Schall       | MPH   | Practicum                  | 3            |
|                | 14. | Laura Bollich        | MPH   | Independent Study          | 3            |
|                | 15. | Trent Peng           | MS    | Independent Study          | 3            |
|                | 16. | Lindsay Dickey       | MPH   | Thesis / Independent Study | 6            |
|                | 17. | Allison Pellerito    | MPH   | Thesis / Independent Study | 6            |
| <b>2013-14</b> | 18. | Greg Knell           | PhD   | Independent Study          | 2            |
|                | 19. | Madeline Jeansonne   | MPH   | Thesis                     | 3            |
|                | 20. | Lauren Menasco-Davis | MPH   | Thesis / Independent Study | 6            |
|                | 21. | Judson Janak         | PhD   | Dissertation               | 3            |

|                |     |                      |     |                   |   |
|----------------|-----|----------------------|-----|-------------------|---|
|                | 22. | Erin Moffitt         | MPH | Independent Study | 3 |
|                | 23. | Erin Moffitt         | MPH | Practicum         | 3 |
|                | 24. | Madeline Jeansonne   | MPH | Independent Study | 3 |
|                | 25. | Lauren Menasco-Davis | MPH | Independent Study | 6 |
|                | 26. | Gregory Knell        | PhD | Independent Study | 1 |
|                | 27. | Joowon Lee           | PhD | Independent Study | 1 |
|                | 28. | Beth Wright          | PhD | Dissertation      | 9 |
| <b>2014-15</b> | 29. | Greg Knell           | PhD | Independent Study | 3 |
|                | 30. | Joowon Lee           | PhD | Independent Study | 6 |
|                | 31. | Erin Moffitt         | MPH | Independent Study | 3 |
|                | 32. | Trent Peng           | MS  | Independent Study | 1 |
|                | 33. | Traci Hise           | MPH | Practicum         | 3 |
|                | 34. | Luis Guevara         | MPH | Practicum         | 3 |
|                | 35. | Beth Wright          | PhD | Dissertation      | 6 |
|                | 36. | Trent Peng           | MS  | Thesis            | 5 |
|                | 37. | Abigail Cartus       | MPH | Practicum         | 3 |
|                | 38. | Amy Schneider        | MPH | Practicum         | 3 |
| <b>2015-16</b> | 39. | Trent Peng           | PhD | Independent Study | 2 |
|                | 40. | Joowon Lee           | PhD | Independent Study | 2 |
|                | 41. | Christopher Lee      | MPH | Practicum         | 3 |
|                | 42. | Abigail Cartus       | MPH | Thesis            | 6 |
|                | 43. | Amy Schneider        | MPH | Independent Study | 3 |
|                | 44. | Jessica Mason        | MPH | Independent Study | 3 |
|                | 45. | Meghann Adams        | MPH | Practicum         | 5 |
| <b>2016-17</b> | 46. | Taylor Johnson       | MPH | Practicum         | 3 |
|                | 47. | Shelbi Snyder        | MPH | Practicum         | 3 |
|                | 48. | Sarah Macias         | MPH | Practicum         | 3 |
|                | 49. | Taylor Johnson       | MPH | Independent Study | 3 |
|                | 50. | Shelbi Snyder        | MPH | Independent Study | 3 |
|                | 51. | Gregory Knell        | PhD | Dissertation      | 6 |

|                |     |                     |        |                   |    |
|----------------|-----|---------------------|--------|-------------------|----|
|                | 52. | Joowon Lee          | PhD    | Dissertation      | 12 |
|                | 53. | Taylor Johnson      | MPH    | Thesis            | 3  |
| <b>2017-18</b> | 54. | Jes-Terieu Howard   | MS     | Practicum         | 3  |
|                | 55. | Joowon Lee          | PhD    | Dissertation      | 3  |
|                | 56. | M'Lissa Quintanilla | MS     | Thesis            | 3  |
|                | 57. | Ellen Paddock       | MPH    | Independent Study | 1  |
|                | 58. | Ana Navarro         | MPH    | Independent Study | 1  |
|                | 59. | Adetoriola Odetunde | MPH    | Practicum         | 3  |
|                | 60. | Rachel Steinberg    | MPH    | Practicum         | 3  |
|                | 61. | Makenzie Harris     | MPH    | Practicum         | 3  |
|                | 62. | Juang Keeton        | MPH    | Practicum         | 3  |
|                | 63. | Ellen Paddock       | MPH    | Practicum         | 3  |
|                | 64. | Jordyn Pike         | MPH    | Practicum         | 3  |
|                | 65. | Erin Dooley         | PhD    | Independent Study | 1  |
|                | 66. | Ashleigh Johnson    | DrPH   | Independent Study | 1  |
| <b>2018-19</b> | 67. | Aghogho Evuarherhe  | MD/MPH | Practicum         | 1  |
|                | 68. | Katie Hansen        | MD/MPH | Practicum         | 1  |
|                | 69. | Katy Jackson        | MD/MPH | Practicum         | 1  |
|                | 70. | Brennan Lanier      | MD/MPH | Practicum         | 1  |
|                | 71. | Saloni Naik         | MD/MPH | Practicum         | 1  |
|                | 72. | Marisa Simon        | MD/MPH | Practicum         | 1  |
|                | 73. | Camden Underwood    | MPH    | Practicum         | 3  |
|                | 74. | Aghogho Evuarherhe  | MD/MPH | Independent Study | 2  |
|                | 75. | Katie Hansen        | MD/MPH | Independent Study | 2  |
|                | 76. | Katy Jackson        | MD/MPH | Independent Study | 2  |
|                | 77. | Brennan Lanier      | MD/MPH | Independent Study | 2  |
|                | 78. | Saloni Naik         | MD/MPH | Independent Study | 2  |
|                | 79. | Marisa Simon        | MD/MPH | Independent Study | 2  |
|                | 80. | Allen Hallett       | PhD    | Independent Study | 3  |
|                | 81. | Adetoriola Odetunde | MPH    | Independent Study | 1  |
|                | 82. | Erin Dooley         | PhD    | Independent Study | 2  |

**G. PRIMARY ACADEMIC ADVISOR THE UNIVERSITY OF TEXAS SCHOOL OF PUBLIC HEALTH**

| YEAR           |     | STUDENT NAME         | PROGRAM                                         | PROGRESS          |
|----------------|-----|----------------------|-------------------------------------------------|-------------------|
| <b>2010-11</b> | 1.  | Ashley Dixon         | MPH in Epidemiology                             | Graduated 05/2012 |
|                | 2.  | Laura Bollich        | MPH in Epidemiology                             | Graduated 05/2013 |
|                | 3.  | Shannon McCarty      | MPH in Epidemiology                             | Graduated 08/2012 |
| <b>2011-12</b> | 4.  | Lindsay Dickey       | MPH in Epidemiology                             | Graduated 08/2013 |
|                | 5.  | Elizabeth Johnson    | Customized MPH                                  | Graduated 08/2013 |
|                | 6.  | Taylor Yardley       | Customized MPH                                  | Graduated 08/2013 |
|                | 7.  | Erum Khalid          | Customized MPH                                  | Transferred       |
|                | 8.  | Lauren Menasco-Davis | MPH-MPAFF (Dual Degree with UT-Austin)          | Graduated 08/2014 |
|                | 9.  | Trent Peng           | MS in Epidemiology                              | Graduated 08/2015 |
|                | 10. | Judson Janak         | PhD in Epidemiology                             | Graduated 05/2014 |
| <b>2012-13</b> | 11. | Anthony Radosevich   | MPH in Epidemiology                             | Transferred       |
|                | 12. | Erin Moffitt         | MPH in Epidemiology                             | Graduated 05/2015 |
|                | 13. | Karisha Schall       | MPH in Epidemiology                             | Graduated 12/2014 |
|                | 14. | Luis Guevara         | MPH in Epidemiology                             | Graduated 05/2015 |
| <b>2013-14</b> | 15. | Lauren Hoffman       | Customized MPH                                  | Graduated 12/2015 |
|                | 16. | Meghann Adams        | MPH in Epidemiology                             | Graduated 08/2017 |
|                | 17. | Traci Hise           | MPH in Epidemiology                             | Graduated 05/2015 |
|                | 18. | Beth Wright          | PhD in Epidemiology                             | Graduated 05/2015 |
|                | 19. | Gregory Knell        | PhD in Epidemiology                             | Graduated 05/2017 |
|                | 20. | Joowon Lee           | PhD in Epidemiology                             | Graduated 12/2017 |
| <b>2014-15</b> | 21. | Abigail Cartus       | MPH in Epidemiology                             | Graduated 08/2016 |
|                | 22. | Amy Schneider        | MPH in Health Promotion and Behavioral Sciences | Graduated 05/2016 |
|                | 23. | Christopher Lee      | MPH in Epidemiology                             | Graduated 08/2016 |
| <b>2015-16</b> | 24. | Trent Peng           | PhD in Epidemiology                             | Graduated 05/2022 |
|                | 25. | M'Lissa Quintanilla  | MS in Epidemiology                              | Graduated 12/2017 |
|                | 26. | Sarah Macias         | MPH in Epidemiology                             | Graduated 05/2017 |
|                | 27. | Shelbi Snyder        | MPH in Epidemiology                             | Graduated 05/2018 |
|                | 28. | Taylor Johnson       | MPH in Epidemiology                             | Graduated 05/2017 |
|                | 29. | Ana Navarro          | MPH in Epidemiology                             | Graduated 05/2018 |
| <b>2016-17</b> | 30. | Minh Doan            | MPH in Epidemiology                             | Graduated 05/2018 |
|                | 31. | Kieran Jones         | MPH in Epidemiology                             | Transferred       |
|                | 32. | Tara McConville      | MPH in Epidemiology                             | Graduated 05/2018 |
| <b>2017-18</b> | 33. | Juang Keeton         | MPH in Epidemiology                             | Graduated 05/2019 |
|                | 34. | Adetoriola Odetunde  | MPH in Epidemiology                             | Graduated 05/2019 |
|                | 35. | Ellen Paddock        | MPH in Epidemiology                             | Graduated 12/2018 |
|                | 35. | Camden Underwood     | MPH in Epidemiology                             | Graduated 12/2018 |

|                |     |                    |                     |                   |
|----------------|-----|--------------------|---------------------|-------------------|
| <b>2018-19</b> | 36. | Jennifer Hale      | PhD in Epidemiology | Graduated 12/2021 |
|                | 37. | Aghogho Evuarherhe | MD/MPH              | Graduated 05/2020 |
|                | 38. | Katie Hansen       | MD/MPH              | Graduated 05/2020 |
|                | 39. | Katy Jackson       | MD/MPH              | Graduated 05/2020 |
|                | 40. | Brennen Lanier     | MD/MPH              | Graduated 05/2020 |
|                | 41. | Solani Naik        | MD/MPH              | Graduated 05/2020 |
|                | 42. | Marisa Simon       | MD/MPH              | Graduated 05/2020 |
|                | 43. | Krucial Styslinger | MD/MPH              | Graduated 05/2020 |
|                | 44. | Lindsey Teal       | MD/MPH              | Graduated 05/2020 |
|                | 45. | Megan Ward         | MD/MPH              | Graduated 05/2020 |
|                | 46. | Jackie Webb        | MD/MPH              | Graduated 05/2020 |
|                | 47. | Jessica Wenzel     | MD/MPH              | Graduated 05/2020 |
| <b>2019-20</b> | 48. | Kathleen Manuel    | MPH in Epidemiology | Graduated 05/2020 |
|                | 49. | Abiemwense Amadin  | MD/MPH              | Graduated 05/2021 |
|                | 50. | Hyun Jung          | MD/MPH              | Graduated 05/2021 |
|                | 51. | Christoffer Lam    | MD/MPH              | Graduated 05/2021 |
|                | 52. | Megan Lewis        | MD/MPH              | Graduated 05/2021 |
|                | 53. | Katharine McNiel   | MD/MPH              | Graduated 05/2021 |
|                | 54. | Ruth Sanchez       | MD/MPH              | Graduated 05/2021 |

#### H. PRIMARY ACADEMIC ADVISOR THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

|                |     |                   |                                           |                   |
|----------------|-----|-------------------|-------------------------------------------|-------------------|
| <b>2021-22</b> | 55. | Dirshani Dayaram  | MPH in Epidemiology                       | In progress       |
|                | 56. | Arnaz Avasia      | MPH in Epidemiology                       | Graduated 08/2023 |
|                | 57. | Christine Dunstan | MPH in Epidemiology                       | Graduated 04/2023 |
|                | 58. | Shardai Elie      | MPH in Epidemiology                       | Graduated 04/2023 |
|                | 59. | Isha Patel        | Advanced Bachelors to MPH in Epidemiology | In progress       |
|                | 60. | Nagham Shomali    | MPH in Epidemiology                       | Graduated 04/2023 |
| <b>2022-23</b> | 61. | Kian Kolahdouzan  | Advanced Bachelors to MPH in Epidemiology | In progress       |
|                | 62. | Bolade Ajoloko    | MPH in Epidemiology                       | In progress       |
|                | 63. | Kudratjot Brar    | MPH in Epidemiology                       | In progress       |
|                | 64. | Amarachi Ezebuio  | MPH in Epidemiology                       | In progress       |
|                | 65. | Stephanie Grundel | MPH in Epidemiology                       | In progress       |
|                | 66. | Hala Kalaji       | MPH in Epidemiology                       | In progress       |
| <b>2023-24</b> | 67. | Mehedi Hasan      | PhD in Epidemiology                       | In progress       |
|                | 68. | Taishayla Mckitt  | PhD in Epidemiology                       | In progress       |
|                | 69. | Prathiba Annan    | MPH in Epidemiology                       | In progress       |
|                | 70. | Amuktha Dasari    | Advanced Bachelors to MPH in Epidemiology | In progress       |
|                | 71. | Palak Desai       | Advanced Bachelors to MPH in Epidemiology | In progress       |

|  |     |                        |                                           |             |
|--|-----|------------------------|-------------------------------------------|-------------|
|  | 72. | Ayah Eltoum            | MPH in Epidemiology                       | In progress |
|  | 73. | Alexandra Johnson      | MPH in Epidemiology                       | In progress |
|  | 74. | Amanda Smith           | MPH in Epidemiology                       | In progress |
|  | 75. | Agasthya Vedre-Kayanam | Advanced Bachelors to MPH in Epidemiology | In progress |

**I. CHAIR OR MEMBER OF THESIS OR DISSERTATION COMMITTEE THE UNIVERSITY OF TEXAS  
SCHOOL OF PUBLIC HEALTH**

| YEAR           |     | STUDENT NAME                 | PROGRAM                              | ROLE   | PROGRESS          |
|----------------|-----|------------------------------|--------------------------------------|--------|-------------------|
| <b>2011-12</b> | 1.  | Ashley Dixon                 | MPH in Epidemiology                  | Chair  | Graduated 05/2012 |
|                | 2.  | Geoffrey Whitfield           | PhD in Epidemiology                  | Member | Graduated 05/2013 |
|                | 3.  | Beth Wright                  | PhD in Epidemiology                  | Chair  | Graduated 05/2015 |
|                | 4.  | Ho Han                       | PhD in Health Promotion <sup>1</sup> | Member | Graduated 12/2014 |
|                | 5.  | Eunduck Park                 | PhD in Nursing <sup>2</sup>          | Member | Graduated 08/2014 |
|                | 6.  | Shirley (Shelley) Bluethmann | PhD in Behavioral Sciences           | Member | Graduated 05/2014 |
| <b>2012-13</b> | 7.  | Lindsay Dickey               | MPH in Epidemiology                  | Chair  | Graduated 08/2013 |
|                | 8.  | Allison Pellerito            | MPH in Epidemiology                  | Chair  | Graduated 08/2013 |
|                | 9.  | Judson Janak                 | PhD in Epidemiology                  | Member | Graduated 05/2014 |
| <b>2013-14</b> | 10. | Madeline Jeansonne           | MPH in Epidemiology                  | Chair  | Graduated 08/2014 |
|                | 11. | Lauren Menasco-Davis         | MPAff-MPH                            | Chair  | Graduated 08/2014 |
| <b>2014-15</b> | 12. | Michelle Wilkinson           | PhD in Epidemiology                  | Member | Graduated 12/2016 |
|                | 13. | Trent Peng                   | MS in Epidemiology                   | Chair  | Graduated 08/2015 |
| <b>2015-16</b> | 14. | Debbie Rios                  | PhD in HPBS                          | Member | Graduated 12/2016 |
|                | 15. | Abigail Cartus               | MPH in Epidemiology                  | Member | Graduated 08/2016 |
|                | 16. | Jaejoon Song                 | PhD in Biostatistics                 | Member | Graduated 08/2017 |
| <b>2016-17</b> | 17. | Gregory Knell                | PhD in Epidemiology                  | Chair  | Graduated 05/2017 |

|                                                                                                                                                                                                                                  |     |                        |                        |                      |                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------|------------------------|----------------------|----------------------|
|                                                                                                                                                                                                                                  | 18. | Joowon Lee             | PhD in Epidemiology    | Chair                | Graduated<br>12/2017 |
|                                                                                                                                                                                                                                  | 19. | Taylor Johnson         | MPH in<br>Epidemiology | Chair                | Graduated<br>05/2017 |
|                                                                                                                                                                                                                                  | 20. | Samantha Kreis         | MPH in HPBS            | Member               | Graduated<br>05/2017 |
|                                                                                                                                                                                                                                  | 21. | Anna Porter            | PhD in Epidemiology    | External<br>Reviewer | Graduated<br>05/2017 |
| <b>2017-18</b>                                                                                                                                                                                                                   | 22. | M'Lissa<br>Quintanilla | MS in Epidemiology     | Chair                | Graduated<br>12/2017 |
|                                                                                                                                                                                                                                  | 23. | Eun Me Cha             | PhD in Epidemiology    | Member               | Graduated<br>05/2018 |
|                                                                                                                                                                                                                                  | 24. | Ellen Paddock          | MPH in<br>Epidemiology | Member               | Graduated<br>12/2018 |
| <b>2018-19</b>                                                                                                                                                                                                                   | 25. | Trent Peng             | PhD in Epidemiology    | Chair <sup>3</sup>   | Graduated<br>05/2022 |
|                                                                                                                                                                                                                                  | 26. | Ashleigh Johnson       | DrPH in HPBS           | Member               | Graduated<br>12/2020 |
|                                                                                                                                                                                                                                  | 27. | Erin Dooley            | PhD in HPBS            | Member               | Graduated<br>12/2020 |
| <b>2020-21</b>                                                                                                                                                                                                                   | 28. | Jennifer Hale          | PhD in Epidemiology    | Chair <sup>3</sup>   | Graduated<br>05/2022 |
| <sup>1</sup> University of Texas at Austin; <sup>2</sup> University of Texas Health Science Center at Houston, School of Nursing; <sup>3</sup> Transitioned to Research / Senior Dissertation supervisor after relocation to UAB |     |                        |                        |                      |                      |

**J. CHAIR OR MEMBER OF THESIS OR DISSERTATION COMMITTEE THE UNIVERSITY OF ALABAMA AT BIRMINGHAM**

| YEAR  |    | STUDENT NAME   | PROGRAM                 | ROLE   | PROGRESS    |
|-------|----|----------------|-------------------------|--------|-------------|
| 2023- | 1. | Rafeka Hossain | MSPH in<br>Epidemiology | Member | In progress |

**K. POST-DOCTORAL / JUNIOR FACULTY MENTORING**

|                |    |                                 |                                                      |                                             |
|----------------|----|---------------------------------|------------------------------------------------------|---------------------------------------------|
| <b>2016-20</b> | 1. | Julie Levasseur,<br>DO          | Dell Medical School                                  | Primary Mentor, Research                    |
| <b>2016-20</b> | 2. | Elise Hull, MD                  | Dell Medical School                                  | Primary Mentor, Research                    |
| <b>2018-20</b> | 3. | Joowon Lee, PhD                 | Boston University                                    | Career Mentor                               |
| <b>2019-20</b> | 4. | Casey Durand,<br>PhD            | Michael & Susan Dell<br>Center for Healthy<br>Living | Primary Mentor, Professional<br>Development |
| <b>2019-20</b> | 5. | Courtney Byrd-<br>Williams, PhD | Michael & Susan Dell<br>Center for Healthy<br>Living | Co-Mentor, Professional<br>Development      |
| <b>2019-</b>   | 6. | Kelly Ylitalo, PhD              | Baylor University                                    | Co-Mentor, Research (K01)                   |
| <b>2019-20</b> | 7. | Susan Davis, MD                 | Dell Medical School                                  | Co-Mentor, Research                         |

|              |     |                      |                                         |                               |
|--------------|-----|----------------------|-----------------------------------------|-------------------------------|
| <b>2019-</b> | 8.  | Jason Nagata, MD     | University of California, San Francisco | Co-Mentor, Research (AHA)     |
| <b>2019-</b> | 9.  | Sylvia Badon, PhD    | Kaiser Permanente Northern California   | Co-Mentor, Research (K99-R00) |
| <b>2021-</b> | 10. | Erin Dooley, PhD     | University of Alabama at Birmingham     | Primary Mentor                |
| <b>2021-</b> | 11. | Bjoern Hornikel, PhD | University of Alabama at Birmingham     | Primary Mentor                |
| <b>2023-</b> | 12. | Robert Booker, PhD   | Northwestern University                 | Research Mentor (K99-R00)     |

### **III. INTERNAL AND EXTERNAL PROFESSIONAL SERVICES**

#### **A. MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS**

**1994-08**      Member, National Athletic Trainer's Association  
**1996-08**      NATA Board Certified Athletic Trainer  
**1999-**          Member, American College of Sports Medicine  
**2008-09**      Member, American Public Health Association  
**2013-**          Member, American Heart Association  
**2016-20**      Member, UTHealth Consortium on Aging

#### **B. ASSOCIATE EDITOR**

**2010-14**      Public Health Nutrition  
**2017-18**      BMC Public Health

#### **C. AD-HOC REVIEWER FOR PEER-REVIEW PUBLICATIONS**

1. American Journal of Epidemiology
2. American Journal of Preventive Medicine
3. Annals of Family Medicine
4. BMC Public Health
5. BMC Research Notes
6. Circulation
7. Journal of Clinical Epidemiology
8. Journal of Clinical Endocrinology and Metabolism
9. Journal of Physical Activity and Health
10. Journal of Women's Health
11. Medicine and Science in Sports and Exercise
12. Preventive Medicine
13. Public Health Nutrition
14. The Scientific World Journal



15. Preventive Medicine Reports
16. Stroke
17. Neurology
18. Nature Communications
19. Hypertension Research
20. JAMA Cardiology
21. Journal of the American Heart Association

#### **D. PROFESSIONAL SERVICE AND COMMITTEES**

| <b>YEAR</b>    |    | <b>NAME OF COMMITTEE / SERVICE</b>                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>ROLE</b>                           |
|----------------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| <b>2002-06</b> | 1. | American Diabetes Association (Pittsburgh, Pennsylvania Chapter) and Working Hearts Group. University of Pittsburgh, Pittsburgh, Pennsylvania.                                                                                                                                                                                                                                                                                                                  | Educational Lectures to Lay Community |
| <b>2002-06</b> | 2. | National Diabetes Education Program and American Association of Diabetes Educators. Development of educational materials for national dissemination. University of Pittsburgh, Pittsburgh, Pennsylvania.                                                                                                                                                                                                                                                        | Consultant                            |
| <b>2002-06</b> | 3. | Project EXPORT. Development of educational materials for community dissemination. Center for Minority Health, University of Pittsburgh, Pittsburgh, Pennsylvania.                                                                                                                                                                                                                                                                                               | Consultant                            |
| <b>2006-08</b> | 4. | Building Healthy Lifestyles Conference. Arizona State University, Mesa, Arizona.                                                                                                                                                                                                                                                                                                                                                                                | Conference Coordinator                |
| <b>2007-08</b> | 5. | American Public Health Association Annual Meeting: Gerontological Health.                                                                                                                                                                                                                                                                                                                                                                                       | Abstract Reviewer                     |
| <b>2010</b>    | 6. | Optimizing the value of self-reported measures of active and sedentary behaviors. Measurement of Active and Sedentary Behaviors: Closing the Gaps in Self-Report Methods. National Cancer Institute, Centers for Disease Control and Prevention, National Institutes of Health Office of Disease Prevention, American College of Sports Medicine, National Collaborative on Childhood Obesity Research. Meeting held in Bethesda, Maryland on July 21-23, 2010. | Planning Committee / Expert Panelist  |
| <b>2010-15</b> | 7. | Physical Activity Resource Center for Public Health. University of Pittsburgh, Graduate School of Public Health, Department of Epidemiology                                                                                                                                                                                                                                                                                                                     | Executive Advisory Committee          |

|                |     |                                                                                                                                                                                        |                                      |
|----------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>2011-</b>   | 8.  | SHI-Women, Sport, and Physical Activity Committee. American College of Sports Medicine                                                                                                 | Member                               |
| <b>2013-22</b> | 9.  | Atherosclerotic Risk in Communities (ARIC) Study, Physical Function-Aging Working Group                                                                                                | Member                               |
| <b>2013-</b>   | 10. | Coronary Artery Risk Development in Young Adult (CARDIA) Study, Physical Activity and Fitness Working Group                                                                            | Member                               |
| <b>2014</b>    | 11. | Centers for Disease Control and Prevention / American College of Sports Medicine Roundtable for Physical Activity Surveillance. Meeting held in Atlanta, Georgia on August 17-19, 2014 | Participant                          |
| <b>2015-</b>   | 12. | Study of Women's Health Across the Nation (SWAN), Physical Functioning Committee                                                                                                       | Member                               |
| <b>2015-</b>   | 13. | Study of Women's Health Across the Nation (SWAN)                                                                                                                                       | Investigator                         |
| <b>2015-16</b> | 13. | 2016 Energy Balance and Cancer Research Retreat. Center for Energy Balance. MD Anderson Cancer Center.                                                                                 | Planning Committee Member            |
| <b>2015-</b>   | 14. | Atherosclerotic Risk in Communities (ARIC) Study Publications Committee.                                                                                                               | External Manuscript Reviewer         |
| <b>2016</b>    | 15. | American Heart Association. Go Red For Women Research Network. January 26-27, 2016. Dallas, TX.                                                                                        | Grant Reviewer                       |
| <b>2016</b>    | 16. | American Heart Association. Genomics and Translational Biology Observational / Epidemiology – Population 1. April 1, 2016. Dallas, TX.                                                 | Grant Reviewer                       |
| <b>2016-</b>   | 17. | Coronary Artery Risk Development in Young Adults (CARDIA) Study Presentations and Publications Committee                                                                               | External Manuscript Reviewer         |
| <b>2016</b>    | 18. | Cultivating Research Methodology as a Keystone Discipline for Physical Activity and Cancer Prevention. National Cancer Institute.                                                      | Planning Committee and Working Group |
| <b>2017</b>    | 19. | Equipping the Physical Activity Workforce for Breakthroughs in Public Health Research. National Cancer Institute                                                                       | Discussant                           |
| <b>2017-</b>   | 20. | Coronary Artery Risk Development in Young Adults (CARDIA)                                                                                                                              | Representative (Analysis Proposals)  |
| <b>2018-20</b> | 21. | Coronary Artery Risk Development in Young Adults (CARDIA) Physical Activity and Fitness Working Group                                                                                  | Co-Chair                             |
| <b>2018</b>    | 22. | Kidney, Nutrition, Obesity, and Diabetes (KNOD) NIH Study Section (June, 2018)                                                                                                         | Grant Reviewer (Ad Hoc)              |

|              |     |                                                                                                                      |                                              |
|--------------|-----|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <b>2018</b>  | 24. | American Heart Association. Fellowship Population. September 6, 2018. Dallas, TX via Teleconference                  | Member                                       |
| <b>2018-</b> | 25. | Jackson Heart Study Publications and Presentations Subcommittee                                                      | External Abstract and/or Manuscript Reviewer |
| <b>2019</b>  | 26. | Kidney, Nutrition, Obesity, and Diabetes (KNOD) NIH Study Section (February, 2019)                                   | Grant Reviewer (Ad Hoc)                      |
| <b>2019-</b> | 27. | Atherosclerotic Risk in Communities (ARIC) Study and Jackson Heart Study (JHS) Joint Physical Function Working Group | Member                                       |
| <b>2019-</b> | 28. | Jackson Heart Study Healthy Aging Working Group                                                                      | Member                                       |
| <b>2019-</b> | 29. | Atherosclerosis Risk in Communities (ARIC) Study Physical Activity Working Group                                     | Co-Chair                                     |
| <b>2019</b>  | 26. | Kidney, Nutrition, Obesity, and Diabetes (KNOD) NIH Study Section (October, 2019)                                    | Grant Reviewer (Ad Hoc)                      |
| <b>2019</b>  | 27. | Medical Research Council. United Kingdom Research and Innovation Future Leaders Fellowship Program                   | Grant Reviewer                               |
| <b>2020</b>  | 28. | Kidney, Nutrition, Obesity, and Diabetes (KNOD) NIH Study Section (February, 2020)                                   | Grant Reviewer (Ad Hoc)                      |
| <b>2020-</b> | 29. | Coronary Artery Risk Development in Young Adults (CARDIA) Physical Activity and Fitness Working Group                | Chair                                        |
| <b>2020-</b> | 30. | Coronary Artery Risk Development in Young Adults (CARDIA) Quality Control Subcommittee                               | Member                                       |
| <b>2020-</b> | 31. | Coronary Artery Risk Development in Young Adults (CARDIA) Publications and Presentations Subcommittee                | Member                                       |
| <b>2020-</b> | 32. | Coronary Artery Risk Development in Young Adults (CARDIA) Steering Committee                                         | Member                                       |
| <b>2020-</b> | 33. | Collaborative Cohort of Cohorts for COVID-19 Research (C4R) Sleep and Actimetry Working Group                        | Member                                       |
| <b>2020-</b> | 34. | Collaborative Cohort of Cohorts for COVID-19 Research (C4R) Workplan 2 Subcommittee                                  | Member                                       |
| <b>2021-</b> | 35. | Collaborative Cohort of Cohorts for COVID-19 Research (C4R) Cohort Coordinating Committee                            | Member; CARDIA Representative                |
| <b>2021</b>  | 36. | Cancer, Heart, and Sleep Epidemiology Panel B (CHSB) NIH Study Section (June, 2021)                                  | Grant Reviewer (Ad Hoc)                      |
| <b>2021</b>  | 37. | Neurological, Aging, and Musculoskeletal Epidemiology (NAME) NIH Study Section (July, 2021)                          | Grant Reviewer (Ad Hoc)                      |
| <b>2021</b>  | 38. | Time-Sensitive Obesity Review (ZDK1 GRB-1 (J2) 1) NIH Study Section (August, 2021)                                   | Grant Reviewer (Ad Hoc)                      |

|              |     |                                                                                                                                                                        |                                   |
|--------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| <b>2021-</b> | 39. | The Cooper Institute Prevention Research Summit                                                                                                                        | Advisory Member                   |
| <b>2021</b>  | 40. | Risk Prevention and Lifestyle Change, Behavioral Medicine, Psychosocial Development, and Behavioral Health Outcomes (ZRG1 RPHB C 90) NIH Study Section (December 2021) | Grant Reviewer (Ad Hoc)           |
| <b>2022-</b> | 41. | Atherosclerotic Risk in Communities (ARIC) Study, Health in Aging Working Group                                                                                        | Member                            |
| <b>2022</b>  | 42. | Nutrition for Precision Health Physical Measures Working Group                                                                                                         | Member                            |
| <b>2022</b>  | 43. | Digestive Diseases and Nutrition C Study Section (DDK-C M1 2) NIH Study Section (March 2022)                                                                           | Grant Reviewer (Ad Hoc)           |
| <b>2022</b>  | 44. | Multi-Component Application (P01) Special Emphasis Panel ZAG1 ZIJ-D (M5) (March 2022)                                                                                  | Grant Reviewer (Ad Hoc)           |
| <b>2022</b>  | 45. | Optimal Instruments for Measurement of Dietary Intake, Physical Activity, and Sleep Among Adults (NHLBI)                                                               | Co-Chair – Physical Activity Lead |
| <b>2022</b>  | 46. | Lifestyle Health Behavior (LHB) NIH Study Section (October 2022)                                                                                                       | Grant Reviewer (Ad Hoc)           |
| <b>2022</b>  | 47. | American Heart Association; 2023 EPI   Lifestyle Conference                                                                                                            | Abstract Reviewer                 |
| <b>2022</b>  | 48. | ENRICH Intervention PA/Sleep Workgroup                                                                                                                                 | Member                            |
| <b>2023</b>  | 49. | Multicenter Osteoarthritis Study (MOST) Steering Committee                                                                                                             | Member                            |
| <b>2023-</b> | 50. | American Heart Association; LIFESTYLE Physical Activity Committee (Council on Lifestyle and Cardiometabolic Health)                                                    | Member                            |
| <b>2023-</b> | 51. | Lifestyle Health Behavior (LHB) NIH Study Section                                                                                                                      | Chartered Member                  |
| <b>2023-</b> | 52. | Coronary Artery Risk Development in Young Adults (CARDIA) Physical Function and Aging Working Group                                                                    | Co-Chair                          |
| <b>2023-</b> | 53. | Coronary Artery Risk Development in Young Adults (CARDIA) Executive Committee                                                                                          | Member                            |

#### **E. UTHEALTH INTERNAL SERVICE AND COMMITTEES**

| <b>YEAR</b>    |    | <b>NAME OF COMMITTEE / SERVICE</b>                                                                                       |               | <b>ROLE</b> |
|----------------|----|--------------------------------------------------------------------------------------------------------------------------|---------------|-------------|
| <b>2010-12</b> | 1. | Admissions Faculty Representative                                                                                        | Austin Campus | Member      |
| <b>2010-15</b> | 2. | Academic Affairs Committee                                                                                               | Austin Campus | Member      |
| <b>2011-12</b> | 3. | CEPH re-accreditation site visit for “Leadership related to Admissions, Diversity, Student Affairs, and Career Services” | UTSPH         | Participant |
| <b>2012-13</b> | 4. | Doctoral Student Compact Committee                                                                                       | UTSPH         | Member      |
| <b>2012-20</b> | 5. | Physical Activity and Health Concentration                                                                               | UTSPH         | Faculty     |
| <b>2012-20</b> | 6. | Maternal and Child Health Concentration                                                                                  | UTSPH         | Faculty     |

|                              |     |                                                                                        |                                                |                 |
|------------------------------|-----|----------------------------------------------------------------------------------------|------------------------------------------------|-----------------|
| <b>2012-14, 2015-16</b>      | 7.  | PhD Preliminary Exam Committee                                                         | EHGES                                          | Member          |
| <b>2012-15</b>               | 8.  | Scientific Advisory Council Planning Committee                                         | Michael & Susan Dell Center for Healthy Living | Member          |
| <b>2013-16 &amp; 2017-19</b> | 9.  | Faculty Council                                                                        | UTSPH                                          | Member          |
| <b>2013-20</b>               | 10. | Physical Activity and Health Concentration                                             | UTSPH                                          | Co-Director     |
| <b>2014-16</b>               | 11. | Front of the Envelope Application Review Committee                                     | UTSPH                                          | Member          |
| <b>2014-16</b>               | 12. | School-wide Program and Curriculum Review Committee                                    | UTSPH                                          | Member          |
| <b>2015-18</b>               | 13. | Leadership Team                                                                        | Austin Campus                                  | Member          |
| <b>2016-18</b>               | 14. | Dual-Degree Committee                                                                  | UTSPH/ARC                                      | Member          |
| <b>2016-19</b>               | 15. | EHGES Faculty Search Committee                                                         | EHGES                                          | Member          |
| <b>2016-20</b>               | 16. | Dell Medical School, Department of Women's Health Resident Research Committee          | UT-DMS/DWH                                     | Member          |
| <b>2016-18</b>               | 17. | Reuel A. Stallones Lectureship Committee                                               | EHGES                                          | Member          |
| <b>2017-18</b>               | 18. | Concentration Travel Scholarship                                                       | UTSPH                                          | Reviewer        |
| <b>2017-20</b>               | 19. | Dell Medical School Innovation, Leadership, and Discovery Subcommittee                 | UT-DMS/Austin Campus                           | Member          |
| <b>2018-20</b>               | 20. | Society for Women and Leadership                                                       | Austin Campus                                  | Faculty Sponsor |
| <b>2018-20</b>               | 21. | Dell Medical School, Department of Women's Health Educational Programming Committee    | UT-DMS/DWH                                     | Member          |
| <b>2018-20</b>               | 22. | Dell Medical School, Department of Women's Health Resident Research Curriculum Meeting | UT-DMS/DWH                                     | Member          |
| <b>2018-19</b>               | 23. | Austin Faculty (Nutrition Sciences) Search Committee                                   | Austin Campus                                  | Member          |
| <b>2018-20</b>               | 24. | Michael and Susan Dell Center for Healthy Living Executive Committee                   | Austin Campus                                  | Member          |
| <b>2019</b>                  | 25. | UTHealth School of Public Health PRIME Funding Awards                                  | UTSPH                                          | Reviewer        |
| <b>2019-20</b>               | 26. | UTHealth/MD Anderson Population Health Initiative: Education Committee                 | UTSPH                                          | Member          |

#### **F. UAB INTERNAL SERVICE AND COMMITTEES**

|                |    |                                                                                                                |              |        |
|----------------|----|----------------------------------------------------------------------------------------------------------------|--------------|--------|
| <b>2020-23</b> | 1. | Research Advisory Committee                                                                                    | SOPH         | Member |
| <b>2020</b>    | 2. | Junior Faculty Mentoring Lunches Planning Committee                                                            | SOPH         | Member |
| <b>2020-</b>   | 3. | Center for Engagement in Disability Health and Rehabilitation Sciences (CEDHARS) Multidisciplinary Focus Group | SOPH         | Member |
| <b>2021-</b>   | 4. | Graduate Curriculum Integration Committee                                                                      | Epidemiology | Member |

|              |    |                                                                 |      |         |
|--------------|----|-----------------------------------------------------------------|------|---------|
| <b>2021-</b> | 5. | Lister Hill Center for Health Policy Research<br>Advisory Board | SOPH | Member  |
| <b>2022-</b> | 6. | Undergraduate Degree Oversight Committee                        | SOPH | Member  |
| <b>2023-</b> | 7. | Research Advisory Committee                                     | SOPH | Co-Lead |
| <b>2023-</b> | 8. | Executive Committee                                             | SOPH | Member  |
| <b>2023-</b> | 9. | Research Advisory Committee                                     | UAB  | Member  |

# Abbi Hernandez, M.S., Ph.D.

Department of Medicine, Division of Gerontology, Geriatrics and Palliative Care  
University of Alabama at Birmingham  
AbigailHernandez@uabmc.edu | Office: 205-975-5018

## EDUCATION

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|      |                                                                                                               |
|------|---------------------------------------------------------------------------------------------------------------|
| 2018 | Ph.D. Biomedical Science (concentration: Neuroscience)<br>University of Florida<br>Advisor: Dr. Sara N. Burke |
| 2018 | Graduate Certificate: Biomedical Scientists as Educators<br>University of Florida                             |
| 2013 | M.S. Biomedical Science (concentration: Neuroscience)<br>Florida Atlantic University                          |
| 2012 | B.S. Biological Science (minor: Biotechnology)<br>Florida Atlantic University                                 |
| 2012 | B.A. Chemistry<br>Florida Atlantic University                                                                 |

## ACADEMIC APPOINTMENTS AND RESEARCH EXPERIENCE

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### Assistant Professor

Aug 2023-present

University of Alabama at Birmingham, Department of Medicine, Division of Gerontology, Geriatrics, and Palliative Care

### Postdoctoral Fellow

Feb 2020-2023

University of Alabama at Birmingham, Department of Medicine, Division of Gerontology, Geriatrics, and Palliative Care  
Laboratory of Dr. Christy Carter and Dr. Thomas Buford

### Postdoctoral Associate

Aug 2018-Jan 2020

Postdoctoral Teaching Fellow Aug 2018-June 2019

University of Florida, Department of Neuroscience; Laboratory of Dr. Sara N. Burke

### Graduate Student (PhD) / Pre-doctoral Fellow

May 2014-Aug 2018

University of Florida, Department of Neuroscience; Laboratory of Dr. Sara N. Burke

### Graduate Student (MS)

Jan 2013-May 2014

Florida Atlantic University; Laboratory of Dr. Robert Stackman

### Undergraduate Student Research

Jan-Aug 2010

Florida Atlantic University; Laboratory of Dr. David Binninger

## FUNDING

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### Current:

**4R00AG078402-03, National Institutes of Health Pathway to Independence Award (R00), NIA (2023-2026; PI)**

Influence of gut on metabolism and cognition in Alzheimer's disease

**McKnight Brain Research Foundation Cognitive Aging and Memory Intervention Core Inter-institutional Pilot Program (2021-2024; PI)**

Reuniting the Brain and Body to Understand Cognitive Aging: The Nexus of Geroscience and Neuroscience

**Completed:**

**1K99AG078400-01, National Institutes of Health Pathway to Independence Award (K99), NIA (2022-2023; PI)**

Influence of gut on metabolism and cognition in Alzheimer's disease

**Nathan Shock Center Pilot Grant (2021-23; PI)**

Impact of Regional Microbiome Specificity on Age- and Alzheimer's Disease-Related Metabolic Impairment

**Scholar Award, NIH National REACT (Rehabilitation Research Resource to Enhance Clinical Trials) (2020; PI)**

Investigating the Effects of Age and Diet on Microbiome and Inflammation

**T32HD071866, NIH National Center for Medical Rehabilitation Research (2020-2022; Trainee)**

Interdisciplinary Training in Pathobiology and Rehabilitation Medicine

**McKnight Brain Institute Training Enhancement Opportunity Award (2018-19; Trainee)**

Postdoctoral Teaching Fellowship, McKnight Brain Institute

**McKnight Brain Institute Training Enhancement Opportunity Award (2018; Trainee)**

Predocutorial Teaching Fellowship, McKnight Brain Institute

**1F31AG058455, Ruth L. Kirschstein Predocutorial Individual National Research Service Award, NIA (2017-2018; PI)**

Metabolic Mechanisms for Treating Cognitive Aging

**Board of Education Summer Fellowship, University of Florida (2014; Trainee)**

**PEER-REVIEWED PUBLICATIONS**

(IN REVERSE CHRONOLOGICAL ORDER, 22 TOTAL, H-INDEX: 11, I10-INDEX: 11, 460 CITATIONS)

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22. **Hernandez, Abbi R.**, Sun, Yi, Banerjee, Anisha, Yang, YouFeng, Verma, Amrisha, Li, Qihong, Baptista, Liliana, Buford, Thomas W., Carter, Christy S., (2023). *Angiotensin (1-7) delivered orally via probiotic in combination with exercise: Sex dependent influence on healthspan*. J. Gerontol. Ser. A.

21. Baptista, L. C., Zumbro, E. L., Graham, Z. A., **Hernandez, A. R.**, Buchanan, T., Sun, Y., Yang, Y., Banerjee, A., Verma, A., Li, Q., Carter, C. S., & Buford, T. W. (2023). *Multimomics profiling of the impact of an angiotensin (1-7)-expressing probiotic combined with exercise training in aged male rats*. Journal of Applied Physiology, 134(5), 1135-1153.

20. Smith, Samantha M., Garcia, Elena L., Davidson, Caroline, Thompson, John, Lovett, Sarah, Ferekides, Nedi, Federico, Quinten, Bumanglag, Argyle V., **Hernandez, Abbi R.**, Abisambra, Jose F., & Burke, Sara N. (2023). *Paired Associates Learning is Disrupted After Unilateral Parietal Lobe Controlled Cortical Impact in Rats: A Trial-by-Trial Behavioral Analysis*. Behavioural Brain Research.

19. **Hernandez, Abbi R.**, Watson, Cory, Federico, Quinten P., Fletcher, Rachel, Brotgandel, Armen, Buford, Thomas W., Carter, Christy S., Burke, Sara N. (2022). *Twelve Months of Time-Restricted Feeding Improves Cognition and Alters Microbiome Composition Independent of Macronutrient Composition*. Nutrients.

18. **Hernandez, Abbi R.**, Kemp, Keri M., Burke, Sara N., Buford, Thomas W., Carter, Christy S., (2022). *Influence of Aging, Macronutrient Composition and Time-Restricted Feeding on the Fischer344 x Brown Norway Rat Gut Microbiota*. Nutrients.



17. **Hernandez, Abbi R**, Jessica M. Hoffman, Caesar M. Hernandez, Constanza J. Cortes, Patricia Jumbo-Lucioni, Mark G. Baxter, Karyn A. Esser, Andrew C. Liu, Lori L. McMahon, Jennifer L. Bizon, Burke, Sara N., Buford, Thomas W., Carter, Christy S., (2022). *Reuniting the Body “Neck Up and Neck Down” to Understand Cognitive Aging: The Nexus of Geroscience and Neuroscience*. J Gerontol A Biol Sci Med Sci.
16. Hernandez Caesar M., Jackson Nateka L., **Hernandez Abbi R.**, McMahon Lori L., (2022) *Impairments in fear extinction memory and basolateral amygdala plasticity in the TgF344-AD rat model of Alzheimer’s disease are distinct from non-pathological aging*. eNeuro.
15. Hernandez, Caesar M., **Hernandez, Abbi R.**, Hoffman, Jessica M., King., Peter H., McMahon, Lori L., Buford, Thomas W., Carter, Christy S., Bizon, Jennifer L., Burke, Sara N. (2022). *A Neuroscience Primer for Integrating Geroscience with the Neurobiology of Aging*. J Gerontol A Biol Sci Med Sci.
14. Hoffman, Jessica M., Hernandez, Caesar M., **Hernandez, Abbi R.**, Bizon, Jennifer L., Burke, Sara N., Carter, Christy S., Buford, Thomas W (2022). *Bridging the gap: A geroscience primer for neuroscientists with potential collaborative applications*. J Gerontol A Biol Sci Med Sci.
13. **Hernandez, Abbi R.**, Banerjee, Anisha, Carter, Christy S., Buford, Thomas W. (2021). *Angiotensin (1-7) Expressing Probiotic as a Potential Treatment for Dementia*. Frontiers in Aging, section Aging, Metabolism and Redox Biology.
12. **Hernandez, Abbi R**, Leah M. Truckenbrod, Maya E. Barrett, Katelyn N. Lubke, Benjamin J. Clark, and Sara N. Burke. (2020) *Age-related alterations in prelimbic cortical neuron Arc expression vary by behavioral state and cortical layer*. Frontiers in Aging Neuroscience.
11. **Hernandez, Abbi R**, Steven P. Winesett, Quinten P. Federico, Sonora A. Williams, Sara N. Burke, David J. Clark, (2020). *A Cross-Species Model of Dual-Task Walking in Young and Older Humans and Rats*. Frontiers in Aging Neuroscience.
10. **Hernandez, Abbi R.**, Truckenbrod, Leah M., Federico, Quinten P., Campos, Keila T., Moon, Brianna M., Ferekides, Nedi, Hoppe, Meagan, D’Agostino, Dominic P., Burke, Sara N., (2020). *Metabolic Switching is Impaired by Aging and Facilitated by Ketosis Independent of Glycogen*. Aging.
9. **Hernandez, Abbi R.**, Truckenbrod, Leah M., Campos, Keila T., Williams, Sonora A., Burke, Sara N. (2019) *Sex Differences in Age-related Impairments Vary across Cognitive and Physical Assessments in Rats*. Behavioral Neuroscience.
8. **Hernandez, Abbi R.**, Hernandez, Caesar M., Truckenbrod, Leah, Campos, Keila, Bizon, Jennifer L., Burke, Sara N. (2019). *Age and ketogenic diet have dissociable effects on synapse-related gene expression across hippocampal subregions*. Frontiers in Aging Neuroscience.
7. **Hernandez, Abbi R.**, Hernandez, Caesar M., Campos, Keila, Truckenbrod, Leah, Federico, Quinten, Moon, Brianna, McQuail, Joseph A., Maurer, Andrew P., Bizon, Jennifer L., Burke, Sara N., (2018). *A ketogenic diet improves cognition and has dissociable biochemical effects in hippocampus and prefrontal cortex*. Frontiers in Aging.
6. **Hernandez, Abbi R.**, Reasor, Jordan E., Truckenbrod, Leah M., Campos, Keila T., Federico, Quinten P., Fertil, Kaeli E., Lubke, Katelyn N., Johnson, Sarah A., Clark, Benjamin J., Maurer, Andrew P., Burke, Sara N., (2018). *Dissociable effects of advanced age on prefrontal cortical and medial temporal lobe ensemble activity*. Neurobiol. Aging.
5. **Hernandez, Abbi R**, Hernandez, Caesar M., Campos, Keila, Truckenbrod, Leah, Sakarya, Yasmin, McQuail, Joseph A., Carter, Christy S., Bizon, Jennifer L., Maurer, Andrew P., Burke, Sara N., (2018). *The Antiepileptic Ketogenic Diet Alters Hippocampal Transporter Levels and Reduces Adiposity in Aged Rats*. J. Gerontol. Ser. A.

4. **Hernandez, Abbi R.**, Reasor, Jordan E., Truckenbrod, Leah M., Lubke, Katelyn N., Johnson, Sarah A., Bizon, Jennifer L., Maurer, Andrew P., Burke, Sara N., (2017). *Medial prefrontal-perirhinal cortical communication is necessary for flexible response selection*. Neurobiol. Learn. Mem.
3. Maurer, Andrew P., Johnson, Sarah A., **Hernandez, Abbi R.**, Reasor, Jordan, Cossio, Daniella M., Fertal, Kaeli E., Mizell, Jack M., Lubke, Katelyn N., Clark, Benjamin J., Burke, Sara N., (2017). *Age-related Changes in Lateral Entorhinal and CA3 Neuron Allocation Predict Poor Performance on Object Discrimination*. Front. Syst. Neurosci.
2. Rayaprolu Sruti, D'Alton Simon, Crosby K, Moloney Christina, **Hernandez Abbi**, Howard J, Gallego-Irardi C, Borchelt David, Lewis, Jada, (2016). *Heterogeneity of Matrin-3 expression in the developing and aging murine central nervous system*. Journal of Comparative Neurology.
1. **Hernandez, Abbi R.**, Maurer, Andrew P., Reasor, Jordan E., Turner, Sean M., Barthle, Sarah E., Johnson, Sarah A., Burke, Sara N., (2015). *Age-related impairments in object-place associations are not due to hippocampal dysfunction*. Behav. Neurosci.

## OTHER PUBLICATIONS

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4. **Hernandez, Abbi R.**, Marrett, Maya E., Lubke, Katelyn N., Maurer, Andrew P., Burke, Sara N., (2023). A long-term ketogenic diet in young and aged rats has dissociable effects on prelimbic cortex and CA3 ensemble activity. BioRxiv, doi: <https://doi.org/10.1101/2023.02.18.529095>.
3. Fletcher, Rachel, Meagan Hoppe, Joseph A. McQuail, Caesar M. Hernandez, **Abbi R. Hernandez**, (2023). Ketogenic Diet-Induced Alterations in Neuronal Signaling-Related Proteins Are Not Due to Differences in Synaptosome Protein Levels. SSRN Scholarly Paper. Rochester, NY. <https://doi.org/10.2139/ssrn.4505765>.
2. **Hernandez, Abbi R.**, Burke, Sara N., (2018). *Age-related changes in 'hub' neurons*. Aging.
1. **Hernandez, Abbi R.**, (2018). *The role of prefrontal cortical-medial temporal lobe interactions and metabolism in cognitive aging*. Ph.D. Dissertation, University of Florida.

## INVITED TALKS

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Metabolic Intermediates of the Gut-Brain-Axis in TgF344-AD Rat Model. Southeastern Neurodegenerative Disease Conference (SENDCon) Atlanta, USA, October 2023.

Metabolism as an intermediary between the gut microbiome and central nervous system in aging and Alzheimer's Disease. Comprehensive Neuroscience Center at UAB, Birmingham, AL, September 2023.

The gut microbiome as a therapeutic target for cognitive aging and Alzheimer's Disease. Oklahoma Geroscience Symposium, Oklahoma City, Oklahoma, April 2023.

The gut microbiome as a therapeutic target for cognitive aging and Alzheimer's disease. The Integrative Center for Aging Research Seminar Series, UAB. Birmingham, AL, January 2023.

12 months of time-restricted feeding improves cognition and alters microbiome composition independent of macronutrient composition. Winter Conference on Brain Research Conference. Snowbird, UT, January 2023.

Reuniting the Brain and Body to Understand Cognitive Aging. McKnight Brain Research Foundation Annual Inter-Institutional Meeting. Tucson, AZ, March 2022.

## **ABSTRACTS AND CONFERENCE PRESENTATIONS**

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### **Peer-Reviewed Conference Presentations**

Alzheimer's disease-inflicted microbiome alterations may be ameliorated by a ketogenic, time restricted diet in rats. UAB Microbiome symposium. Birmingham AL, January 2021.

Improving Metabolic Health and Cognition in Aged Rats Through a Meal-fed Ketogenic Diet. UAB Center for Exercise Medicine 7<sup>th</sup> Annual Symposium, Birmingham AL, September 2019.

Age-Related Alterations in Biconditional Associations and Underlying PFC-MTL Circuitry. Florida Consortium on the Neurobiology of Cognition, Gainesville, FL May 2019

Metabolic Treatments for Cognitive Aging. McKnight Inter-Institutional Meeting, Gainesville, FL April 2019

Utilizing the Ketogenic Diet to Restore Metabolic and Neurobiological Health in Aged Rats. September 2018. Southeastern Neurodegenerative Disease Conference, Orlando, FL.

Combating Age-Related Cognitive Decline Utilizing Your Diet. Institute for Learning in Retirement Summer Lecture Series, Oak Hammock, Gainesville, FL, August 2018.

Nutritional Ketosis Enhances Cognitive Resilience. June 2018. International Behavioral Neuroscience Society, Boca Raton, FL.

Prefrontal Cortical-Medial Temporal Lobe Interactions in Advanced Age. Florida Consortium on the Neurobiology of Cognition, Gainesville, FL May 2018.

Prefrontal Cortical-Medial Temporal Lobe Interactions in Advanced Age. April 2018. Learning & Memory Conference, Huntington Beach, CA.

The link between glucose metabolism and Alzheimer's disease. Walk to End Alzheimer's, Cade Museum, Gainesville, FL October 2017.

Age-related changes in prefrontal cortical-medial temporal lobe interactions during biconditional associations. University of Florida Neuromedicine Summer Seminar Series, Gainesville, FL, July 2017.

A Metabolic Strategy for Treating Age-Related Cognitive Decline. June 2017. Bryan Robinson Endowment Dinner, University of South Florida, Tallahassee FL.

Age-Related Changes in Prefrontal Cortical-Medial Temporal Lobe Interactions during Biconditional Associations. March 2017. North Central Florida SfN Conference, University of Florida, Gainesville, FL.

Age-Related Changes in Prefrontal Cortical-Medial Temporal Lobe Interactions during Biconditional Associations. January 2017. Neurobiology of Learning and Memory Winter Conference, Park City, UT.

### **Other Presentations**

Study Section and Grant Writing Professional Development Session; Southeastern Neurodegenerative Disease Conference (SENDCon), Oct 2023.

Invited Panelist for IDH3931: The Research World; How to Navigate Through the STEM Journey. University of Florida, Gainesville, FL, Spring & Fall 2016.

### **National/International Abstracts and Poster Presentations**

Anisha Banerjee, Erik Parker, Thomas Buford, **Abbi R. Hernandez**. Exploring metabolism as an intermediary in the gut-brain-axis using the TgF334 rat model of Alzheimer's disease. Society for Neuroscience Annual Conference, Washington D.C, November 2023.

**Abbi R. Hernandez**, Sarah Ding, Alexis Simley, Anisha Banerjee, Thomas W. Buford. Impact of Regional Microbiome Specificity on Age- and Alzheimer's Disease-Related Metabolic Impairment. UAB Nathan Shock Center Symposium, Birmingham, AL, February 2023.

Liliana C. Baptista, Zachary A. Graham, **Abbi R Hernandez**, Christy S Carter, Thomas W. Buford. Impact of genetically modified Lactobacillus Paracasei probiotic designed to express angiotensin (1-7) combined with exercise training. The International Society of Exercise and Immunology Conference, Tucson, AZ, October 2022.

**Abbi R. Hernandez**, Gurusai Peramsetty, Anisha Banerjee, Lori L. McMahon, Thomas W. Buford, Christy S. Carter. Modeling AD-related metabolic impairments in the TgF344-AD rat model. Alzheimer's Association Neuroscience Next (Virtual) October 2021.

**Abbi R. Hernandez**, Gurusai Peramsetty, Anisha Banerjee, Lori L. McMahon, Thomas W. Buford, Christy S. Carter. Impaired biconditional association ability in aged female Alzheimer's disease (Tg-F344 AD) rat model. International Behavioral Neuroscience Society Annual Conference (Virtual) June 2021.

**Abbi Hernandez**, Sara N. Burke, Thomas W. Buford, Christy S. Carter. Alzheimer's disease-inflicted microbiome alterations may be ameliorated by a ketogenic, time restricted diet in rats. SfN Connectome (Virtual) January 2021.

Samantha. M. Smith, Nedi Ferekides, **Abbi Hernandez**, Sarah Lovett, Jose F. Abisambra, Sara N. Burke. A Rodent Model of Traumatic Brain Injury Impairs Object-Place Paired-Associates Learning. SfN Connectome (Virtual) January 2021.

**Abbi Hernandez**, Sara N. Burke, Thomas W. Buford, Christy S. Carter. Influence of aging, macronutrient composition and time-restricted feeding on the rat gut microbiome. Gerontological Society of America Annual Scientific Meeting (Virtual), November 2020.

**Abbi Hernandez**, Quinten Federico, Sara N. Burke. Time-Restricted Feeding From Adulthood to Old Age Improves Biconditional Associative Learning in Geriatric Rats Regardless of Macronutrient Composition. International Behavioral Neuroscience Society Annual Meeting (Virtual), August 2020.

David Clark, **Abbi Hernandez**, Steven Winesett, Sara Burke. A Cross-Species Paradigm for Testing Dual-Task Costs of Walking and Cognition with Aging. Combined Sections Meeting of the American Physical Therapy Association, Denver, CO February 2020.

**Abbi Hernandez**, Caesar Hernandez, Leah Truckenbrod, Keila Campos, Quinten Federico, Jennifer L. Bizon, Sara N. Burke. Advanced age and ketogenic diet have dissociable effects across hippocampal subregions. Society for Neuroscience Annual Conference, Chicago, IL, October 2019.

Truckenbrod, Leah M., Bumanglag, Argyle V., Chun, E., **Hernandez, Abbi R.**, Federico, Quinten P., Maurer, Andrew, Sloviter, Robert, Burkes, Sara N. Targeted hippocampal GABA neuron ablation produces hippocampal sclerosis, epilepsy, and dissociable effects on the Morris water maze and object-place paired association tasks. Society for Neuroscience Annual Conference, Chicago, IL, October 2019.

**Hernandez, Abbi R.**, Hernandez, Caesar M., Federico, Quinten P., Truckenbrod, Leah M., Campos, Keila T., Moon, Brianna M., Ferekides, Nedi, Hoppe, Meagan, Burke, Sara N. Improving Metabolic Health and Cognition in Aged

Rats Through a Meal-fed Ketogenic Diet. UAB Center for Exercise Medicine 7th Annual Symposium, Birmingham AL, September 2019.

*\*Abstract selected for talk at symposium based on abstract competition*

**Hernandez, Abbi R.**, Truckenbrod, Leah M., Campos, Keila T., Federico, Quinten P., Moon, Brianna M., Clark, Benjamin J., Burke, Sara N. Selective vulnerability of long-range projection neurons to age-related alterations in neuronal activity. Max Planck Florida Institute for Neuroscience Sunposium, West Palm Beach, FL, March 2019.

**Hernandez, Abbi R.**, Truckenbrod, Leah M., Federico, Quinten P., Campos, Keila T., Ferekides, Nedi, Moon, Brianna M., D'Agostino, Dominic, Burke, Sara N. Ketoadaptation is Delayed in Advanced Age and Facilitated by Dietary Cycling and Time Restricted Feeding. Metabolic Health Summit, Long Beach, CA, January 2019.

**Hernandez, Abbi R.**, Hernandez, Caesar M., Campos, Keila T., Truckenbrod, Leah M., Federico, Quinten P., Moon, Brianna M., McQuail, Joseph A., Maurer, Andrew P.<sup>2</sup>, Bizon, Jennifer L., Burke, Sara N. Nutritional ketosis enhances cognitive resilience in young and aged rats. Society for Neuroscience Annual Conference, San Diego, CA, November 2018.

Truckenbrod, Leah M., **Hernandez, Abbi R.**, Reasor, Jordan E., Campos, Keila T., Federico, Quinten P., Feral, Kaeli E., Lubke, Katelyn N., Johnson, Sarah A., Clark, Benjamin J., Maurer, Andrew P., Burke, Sara N. Dissociable effects of advanced age on prefrontal cortical and medial temporal lobe ensemble activity. Society for Neuroscience Annual Conference, San Diego, CA, November 2018.

Truckenbrod, Leah M., **Hernandez, Abbi**, Campos, Keila T., Moon, Brianna M., Federico, Quinten P., Burke, Sara N. A ketogenic diet improves biconditional association task acquisition and decreases anxiety-like behavior in young and aged rats. International Behavioral Neuroscience Society Annual Meeting, June 2018.

**Hernandez, Abbi**, Truckenbrod, Leah M., Reasor, Jordan E., Feral, Kaeli E., Maurer, Andrew P., Burke Sara N. Age-related changes in the perirhinal-hippocampal-prefrontal cortical circuit: evidence for neural compensation in aged rats. Society for Neuroscience Annual Conference, Washington D.C, November 2017.

**Hernandez, Abbi**, Truckenbrod, Leah, Reasor, Jordan, Feral, Kaeli, Johnson, Sarah, Clark, Benjamin, Maurer, Andrew, Burke, Sara. Age-related changes in the perirhinal-hippocampal-prefrontal cortical circuit: evidence for neural compensation in aged rats. Society for Neuroscience Annual Conference, Washington D.C. November 2017.

**Hernandez, Abbi R.**, Campos, Keila, Truckenbrod, Leah, Hernandez, Caesar M., Sakarya, Yasemin. McQuail, Joseph A., Carter, Christy S., Maurer, Andrew P., Bizon Jennifer L., Burke, Sara N. The Ketogenic Diet as Therapeutic Strategy for Improving Motor and Cognitive Functioning in a Rodent Model of Senescence. Society for Neuroscience Annual Conference, San Diego, CA November 2016.

**Hernandez, Abbi R.**, Campos, Keila, Truckenbrod, Leah, Hernandez, Caesar M., Sakarya, Yasemin. McQuail, Joseph A., Carter, Christy S., Maurer, Andrew P., Bizon Jennifer L., Burke, Sara N. Burke. The Ketogenic Diet as Therapeutic Strategy for Improving Motor and Cognitive Functioning in a Rodent Model of Senescence. Metabolic Therapeutics Conference on Ketogenic Diets, Tampa, FL, February 2017.

**Hernandez, Abbi R.**, Reasor, Jordan E., Turner, Sean M., Barthle, Sarah E., Johnson, Sarah A., Bizon, Jennifer L., Maurer, Andrew P., Burke, Sara N. Object-place paired associations require interactions between prefrontal and perirhinal cortices. Society for Neuroscience Annual Conference, Chicago, IL October 2015.

Reasor Jordan E, **Hernandez Abbi R**, Turner Sean M, Barthle Sarah E, Johnson Sarah A, Maurer Andrew P, Burke Sara N. Age-related impairments in object-place associations signify a decline in systems-level neural communication. Society for Neuroscience Annual Conference, Chicago, IL. October 2015.

Topper Nick, Ndum Rodney, **Hernandez Abbi R**, Johnson Sarah A, Reasor Jordan E, Mizell Jack M, Turner Sean M, Maurer Andrew P, Burke Sara N. An open-source software suite for collecting and analyzing spontaneous object recognition data. Abstract control number: 2015-S-11983-SfN. Society for Neuroscience Annual Conference, Chicago, IL. October 2015.

Reasor Jordan E, Johnson Sarah A, **Hernandez Abbi R**, Maurer Andrew P, Turner Sean M, Barthle Sarah E, Burke Sara N. Age effects on cognitive neural networks. AMSA 65th Annual Convention and Exposition, Washington DC. February 2105.

### **Regional Abstracts and Poster Presentations**

Zumbro, E. L., Baptista, L., **Hernandez, A.**, Banerjee, A., Sun, Y., Yang, Y., & Buford, T. W. Skeletal Muscle Circadian Gene Expression and Physical Function in Older Rats Following Exercise and/or Probiotics. University of Alabama at Birmingham Vascular Biology and Hypertension Symposium, April, 20223.

Baptista, L. C., Zumbro, E. L., Graham, Z. A., **Hernandez, A. L.**, Buchanan, T., Sun, Y., Yang, Y., Barnejee, A., Verma, A., Li, Q., Carter, C. S., & Buford, T. W. Angiotensin (1-7)-Expressing Probiotic and Aerobic Exercise Training Alters Gut Microbiome Diversity and Abundance in Aged Male Rats. University of Alabama at Birmingham Nathan Shock Center Symposium, February 2023.

Zumbro, E. L., **Hernandez, A.**, Banerjee, A., Sun, Y., Yang, Y., Baptista, L., Buford, T. W., & Carter, C. S. The Skeletal Muscle Inflammatory Response to Orally Administered Angiotensin (1-7) Combined With Exercise in Aged Male Rats. University of Alabama at Birmingham Center for Exercise Medicine Symposium, September 2022.

Zumbro, E. L., **Hernandez, A.**, Banerjee, A., Sun, Y., Yang, Y., Baptista, L., Buford, T. W., & Carter, C. S. Orally Administered Angiotensin (1-7) Combined with Exercise Influence on Circadian- and Mitochondrial-Related Genes in Skeletal Muscle Tissue of Aged Male Rats University of Alabama at Birmingham Vascular Biology and Hypertension Symposium, April 2022.

Alexis Simley, **Abbi Hernandez**, Christy Carter. Investigating the Utility of the TgF344-AD Rat Model as a Tool for Treating Alzheimer's Disease-related Metabolic Impairments. April 2022. UAB Biology Honors Poster Presentation Day.

Meagan Hoppe, **Abbi Hernandez**, Caesar Hernandez, Keila Campos, Joe McQuail, Sara Burke. Effects of a Ketogenic diet on prefrontal cortical and hippocampal metabolic and synapse related proteins. Society for Neuroscience North Central Florida Chapter Annual Conference, Jan 2020. University Scholars Undergraduate Research Symposium March 2020.

Quinten Federico, **Abbi Hernandez**, Leah Truckenbrod, Keila Campos, Brianna Moon, Nedi Ferekides, Meagan Hoppe, Dominic D'Agostino, Sara Burke. Metabolic switching is impaired by aging and facilitated by ketosis independent of glycogen. Society for Neuroscience North Central Florida Chapter Annual Conference, Jan 2020; University of Florida College of Medicine Poster Session in Feb 2020.

Anne Dankert, Katrina Dayaw, Judith Dayaw, Leah Truckenbrod, Katelyn Lubke, Victoria Templer, Sara Burke, **Abbi Hernandez**. The Impact of Long-term Social Housing on Biconditional Association Task Performance and Neuron Ensembles in the Anterior Cingulate Cortex and the Hippocampal CA3 Subregion. Sumer Neuroscience Internship Program Poster Reception, Gainesville, FL, July 2019.

\*First place in poster competition

Samantha Smith, **Abbi Hernandez**, Saher Khalaf, Matthew Hamm Sabrina Zequeira, Nedi Ferekides, Quinten Federico, Jose Abisambra, Sara Burke. Combining Top-Down and Bottom-Up Approaches in Complementary Brain Injury (TBI) Models in Rats and Mice. Sumer Neuroscience Internship Program Poster Reception, Gainesville, FL, July 2019.

**Hernandez, Abbi**, Truckenbrod, Leah M., Federico, Quinten P., Campos, Keila T., Moon, Brianna M., Ferekides, Nedi, Burke, Sara N. Time Restricted Feeding and Nutritional Ketosis Improve Age-related Metabolic Impairments. Oak Hammock Robert Levitt Award for Student Research on Aging Poster Session, Gainesville, FL, February 2019.

Ferekides, Nedi C., **Hernandez, Abbi R.**, Campos, Keila T., Truckenbrod, Leah M., Federico, Quinten P., Moon, Brianna M., Burke, Sara N. The Ketogenic Diet as a Metabolic Strategy for Improving Cognitive and Affective Outcomes in Young and Aged Rats. North Central Florida Chapter of the Society for Neuroscience 9th Annual Chapter Conference, Gainesville, FL, Jan 2019

Quinten Federico, **Abbi Hernandez**, Leah Truckenbrod, Keila Campos, Brianna Moon, Nedi Ferekides, Sara Burke. Ketoadaptation is Delayed in Advanced Age and Facilitated by Dietary Cycling and Time Restricted Feeding". 20th Annual Undergraduate Research Symposium in April 2019; North Central Florida Chapter of the Society for Neuroscience 9th Annual Chapter Conference, Gainesville, FL, Jan 2019.

**Hernandez, Abbi R.**, Hernandez, Caesar M., Campos, Keila, Truckenbrod, Leah, Moon, Brianna, Federico, Quinten, Sakarya, Yasmin, McQuail, Joseph A., Carter, Christy A., Maurer, Andrew P., Bizon, Jennifer L. Burke, Sara N. The Ketogenic Diet as a Therapeutic Strategy for Improving Cognitive and Peripheral Health in Aged Rats. Spotlight on Aging Research, Institute on Aging, University of Florida, Gainesville, FL, April 2018.

Truckenbrod, Leah M., **Hernandez, Abbi R.**, Fertal, Kaeli, Burke, Sara N. Lateral Entorhinal Cortex Inactivation Does Not Inhibit Object-Place Associative Memory. Spotlight on Aging Research, March 2018; UF Undergraduate research Symposium, March 2018; Celebration of Research, February 2018; Undergraduate Research Seminar, November 2017.

Moon, Brianna M., **Hernandez, Abbi R.**, Campos, Keila, Truckenbrod Leah M., Federico, Quinten, Burke Sara N. The Ketogenic Diet as a Treatment for Age-Related Cognitive Deficit. UF Undergraduate research Symposium, March 2018.

Truckenbrod, Leah M., **Hernandez, Abbi R.**, Campos, Keila, Moon, Brianna, Federico, Quinten, Burke, Sara N. The Ketogenic Diet as a Potential Metabolic Strategy for Improving Cognitive and Peripheral Health in Aged Subjects. Institute for Learning in Retirement, February 2018.

Cossio, Daniela M., **Hernandez, Abbi R.**, Fertal, Kaeli E., Moon, Brianna, Truckenbrod, Leah, Federico, Quinten P., Campos, Keila, Maurer, Andrew P., Burke Sara N. The Effects of a Ketogenic Diet on Behaviorally-Induced Expression of the Immediate-early Gene Homer1 in Young and Aged Rats. University of Florida Summer Neuroscience Internship Poster Session, August 2017.

**Hernandez, Abbi R.**, Campos, Keila, Truckenbrod, Leah M., Hernandez, Caesar M., Sakarya, Yasemin, McQuail, Joseph A., Carter, Christy S., Maurer, Andrew P., Bizon, Jennifer L., Burke, Sara N. The Ketogenic Diet as Therapeutic Strategy for Improving Motor and Cognitive Functioning in a Rodent Model of Senescence. Graduate Student Research Day, UF, April 3, 2017.  
\*First place in poster competition

Truckenbrod, Leah M., **Hernandez, Abbi R.**, Reasor, Jordan. E., Fertal, Kaeli, Maurer, Andrew P., Burke Sara N. Age-related changes in neuronal activity during a biconditional association task. Society for Neuroscience Chapter Conference, March 2017.

Campos, Keila, **Hernandez, Abbi R.**, Truckebrod, Leah, Hernandez, Caesar M., Sakarya, Yasemin, McQuail, Joseph A., Christy S., Maurer, Andrew P., Bizon, Jennifer L., Burke, Sara N. The Effects of a Ketogenic Diet on Cognitive and Physical Health of Aged Rats. Society for Neuroscience Chapter Conference; University Scholars Undergraduate Research Symposium March 2017; Celebration of Research, University of Florida 2018.

Truckenbrod, Leah M., **Hernandez, Abbi R.**, Johnson, Sarah A., Reasor, Jordan E., Bizon, Jennifer L., Maurer, Andrew P., Burke, Sara. N. Medial Prefrontal-Perirhinal Communication is Necessary for Object-Place Associative Memory. Society for Neuroscience Chapter Conference, March 2016.  
\*Undergraduate Presentation Award

Campos, Keila, **Hernandez, Abbi R.**, Truckebrod, Leah, Sakarya, Yasemin, Carter Christy S., Maurer, Andrew P., Burke Sara N. Comparison of Young and Aged Fisher 344 x Brown Norway Hybrid Rats on a Ketogenic Diet. Society for Neuroscience Chapter Conference, March 2016.

**Hernandez, Abbi R.**, Reasor, Jordan E., Turner, Sean M., Barthle, Sarah E., Johnson, Sarah A., Bizon, Jennifer L., Maurer, Andrew P., Burke, Sara N. Object-place paired associations require interactions between prefrontal and perirhinal cortices. University of Florida COM Celebration of Research, February 2016.

**Hernandez, Abbi R.**, Reasor, Jordan E., Turner, Sean M., Barthle, Sarah E., Johnson, Sarah A., Bizon, Jennifer L., Maurer, Andrew P., Burke, Sara N Object-place paired associations require interactions between prefrontal and perirhinal cortices. University of Florida Graduate Student Research Day, October 2015.

## **HONORS AND AWARDS**

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|------|--------------------------------------------------------------------------|
| 2021 | UAB Department of Medicine Travel Award                                  |
| 2021 | Integrative Center for Aging Research Early Stage Investigator Scholar   |
| 2021 | UAB University Wide Microbiome Center Travel Award                       |
| 2019 | North Central Florida Chapter; Society for Neuroscience Travel Award     |
| 2018 | Evelyn F. McKnight Brain Institute Poster Reception First Place          |
| 2018 | Spotlight on Aging Poster Session First Place Winner                     |
| 2018 | McKnight Brain Institute Training Enhancement Opportunity Award          |
| 2018 | Neuroscience Departmental Award (Luttge Award) Third Place               |
| 2017 | UF Graduate Student Research Day Poster Competition First Place          |
| 2017 | Neuroscience Departmental Award (Luttge Award) First Place               |
| 2017 | North Central Florida Chapter; Society for Neuroscience Travel Award     |
| 2017 | Advancement to Candidacy Award; UF Interdepartmental College of Medicine |
| 2017 | Evelyn F. McKnight Brain Institute Poster Reception Second Place         |
| 2017 | UF Graduate Student Council Travel Award                                 |
| 2016 | Bryan Robinson Endowment Honorable Mention                               |
| 2015 | Graduate Student Mentorship Award University of Florida                  |
| 2015 | North Central Florida Chapter; Society for Neuroscience Travel Award     |
| 2014 | Board of Education Fellowship                                            |
| 2010 | Florence Bayuk Scholarship- Awarded for Academic Excellence in Science   |

## **TEACHING EXPERIENCE**

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### **Graduate and Undergraduate Course Instruction**

Fundamentals of Grant Writing (graduate); Spring 2019  
University of Florida, Gainesville, FL

Functional Human Neuroanatomy (graduate); Fall 2018  
University of Florida, Gainesville, FL

Functional Human Neuroanatomy (graduate and professional); Summer 2018  
University of Florida, Gainesville, FL

Fundamentals of Neuroscience (undergraduate); Summer 2018  
Student Science Training Program; University of Florida, Gainesville, FL

Fundamentals of Neuroscience (undergraduate); Summer 2017  
Student Science Training Program; University of Florida, Gainesville, FL

Teaching Assistant, General Chemistry Laboratory I (undergraduate); January 2013- May 2014  
Florida Atlantic University, Boca Raton, FL

### **Guest Lectures**

Synaptic Plasticity; Functional Human Neuroanatomy June 2019  
University of Florida, Department of Neuroscience, College of Medicine



Intro to Medical Science Seminar 1 February 2019  
University of Florida, College of Medicine

Summer Health Professions Education Program Summer 2018 & 2019  
University of Florida, Center for Precollegiate Education and Training

Principles of Neuroscience II April 2017  
University of Florida, College of Medicine

### **Mentorship of Undergraduate & Post-Baccalaureate Students**

Sarah Ding (2021 - )  
B.S. Biomedical Sciences (Expected May 2024)  
Senior Honors Thesis in progress

Juan Pablo Carcamo Dal Zotto (2023 - )  
B.S. Neuroscience (Expected May 2026)  
B.A. World Languages & Literatures; Concentration: Applied Professional Spanish (Expected May 2026)

Maham Babar (2023 - )  
B.S. Neuroscience (Expected May 2025)  
University Honors Program

Priya Chennupati (2023 - )  
B.S. Neuroscience, minor in Spanish (Expected May 2025)  
Science and Technology Honors Program

Anna Caton Menocal (2023 - )  
B.S. Biology (Expected 2024); Minor in Chemistry

Grace Fagan (2023-)  
B.S. Genetics and Genomic Sciences (Expected Spring 2026)  
Science and Technology Honors Program

Daniel Knight (2023-)  
B.S. Neuroscience (Expected Spring 2026)  
Science and Technology Honors Program

Sneha Rajendran (2023-)  
M.S. Biomedical Sciences (Accelerated Master's Program; Expected May 2026)  
B.S. Neuroscience (Expected May 2026)  
Science and Technology Honors Program

Mary Blake Zeron (2023-2024) - Panther Partnerships Mentorship Program at Birmingham Southern College

Nuriyah Slaton (Summer Research Student 2023)  
Miles College, B.S. Biology (Expected Dec 2024)  
Blazer Broadening Representation and Inclusion in Neuroscience (Blazer BRAIN)  
Project: Correlation between Beta-Amyloid and Metabolic Impairments of Aged Female TgF334-AD Rat Model of Alzheimer's Disease

Dia'Ahgenai Esprit (Summer Research Student 2023)  
Xavier University of Louisiana, B.S. in Neuroscience (Expected May 2024)  
Blazer Broadening Representation and Inclusion in Neuroscience (Blazer BRAIN)  
Project: The Association of Alzheimer's Disease-related Neuropathology and Gut Microbiome Composition

JT Marthone (2021-2022)  
 NIH Post-baccalaureate Research Education Program (PREP) at UAB 2021-2022  
 B.S. Biology 2021

Alexis Simley (2020-2022)  
 B.S. Neuroscience (2022)  
 Senior Honors Thesis: Investigating the Utility of the TgF344-AD Rat Model as a Tool for Treating Alzheimer's Disease-related Metabolic Impairments

Gurusai Sujitha Peramsetty (2020-2021)  
 B.S. Biomedical Engineering 2021

Quinten Federico (2016-2020)  
 M.D. University of Central Florida College of Medicine (Expected May 2024)  
 B.S. Applied Physiology and Kinesiology 2019  
 University of Florida University Scholar 2018-2019

Nedi Ferekides (2017-2020)  
 M.D. / MPH University of Miami Miller School of Medicine (Expected 2024)  
 B.S. Behavioral and Cognitive Neuroscience 2020  
 Senior Honors Thesis: Utilizing Operant Paired-Associate Learning Tasks to Assess Cognition in Traumatic Brain Injury  
 University of Florida University Scholar 2019-2020

Megan Hoppe (2017-2020)  
 M.D. University of Pittsburgh School of Medicine (Expected 2024)  
 B.S. Microbiology and Cell Science 2020  
 University of Florida University Scholar 2019-2020

Maya Barrett (2018-2020)  
 B.S. Behavioral and Cognitive Neuroscience 2021  
 University of Florida University Scholar 2020-2021  
 Emerging Scholars Program Recipient 2018

Maya Jimenez (2019-2020)  
 B.S. Biology 2021

Leah Truckenbrod (2015-2019)  
 Ph.D. Interdisciplinary Neuroscience Program, University of Texas at Austin (Expected 2024)  
 B.S. Biochemistry; Minor in Business Administration and Health Disparities in Society 2018  
 Poster Presentation Winner NCF Chapter of SfN Regional Conference 2016  
 University of Florida University Scholar 2017-2018

Annie Dankert (Summer 2019)  
 B.A. Psychology & B.A. Biology; Providence College 2021  
 University of Florida Summer Neuroscience Internship Student 2019

Samantha Smith (Summer 2019)  
 B.A. Neuroscience, Rice University 2020  
 University of Florida Summer Neuroscience Internship Student 2019

Brianna Moon (2016-2019)  
 MPH Public Health 2021  
 B.S. Biology 2019  
 University of Florida University Scholar 2017-2018

Krista Grant (2018-2019)

B.S. Biology 2020

Keila Campos (2015-2018)

D.O. Nova Southeastern University (2023)

M.S. Medical Science, University of South Florida 2019

B.S. Behavior and Cognitive Neuroscience 2018

University of Florida University Scholar 2016-2017

Daniela Cossio (Summer 2017)

Summer Neuroscience Internship Student

Jordan Reasor (2014-2016)

M.D., University of Florida 2019

AMA Research Symposium Data Blitz Talk November 2016

B.S. Interdisciplinary Studies, 2016

Science for Life Intramural Award '14-'15

Faculty for Undergraduate Neuroscience Travel Award for SfN Chicago October 2015

### **Other Teaching-Related Employment**

Tutor, Florida Atlantic University Athletics Department 2014

Boca Raton, FL

Tutor, My Learning Springboard 2013- 2014

Boca Raton, FL

Tutor, ABC Tutors 2013- 2014

Boca Raton, FL

Resident Assistant for the Science and Medicine Living Learning Community 2009-2011

Florida Atlantic University, Boca Raton, FL

### **PROFESSIONAL SERVICE**

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**UAB Center for Community Outreach Development (CORD) Summer Camp**

Guest Educator, 2021

**Talk Science with Me (community outreach program), 2019**

**Brain Awareness Week (community outreach), 2015-2019**

### **Symposia and Seminar Organization**

**Institute for Learning in Retirement at Oak Hammock**

Summer Seminar Series Coordinator 2019

**Florida Consortium on the Neurobiology of Cognition, Gainesville, FL May 2019**

**Symposium: "Cortical-Medial Temporal Lobe Interactions"**

**North Central Florida Chapter of Society for Neuroscience**

Conference Coordinator 2017

### **Manuscript Reviewer**

Journal of Gerontology: Biological Sciences

Neurobiology of Aging

Frontiers in Aging Neuroscience

Frontiers in Nutrition

Nutrients

## **Editorial Board**

Neurocognitive Aging and Behavior (specialty section of Frontiers in Aging Neuroscience)

## **Grant Reviewer:**

The Integrative Center for Aging Research (ICAR) at UAB Pilot Research Proposals

## **Judging**

Florida Regional Junior Science, Engineering, and Humanities Symposium, 2017-2019

Summer Neuroscience Internship Program Poster Reception, 2019

North Central Florida Chapter of Society for Neuroscience Conference Poster Session, 2019

Florida Science Olympiad at Florida Atlantic University, 2009-2013

## **CONTINUED EDUCATION, TRAININGS AND CERTIFICATIONS**

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### **Butler-Williams Scholars Program 2023**

National Institute on Aging (NIA)

### **Research Centers Collaborative Network (RCCN) Scholars Program in Multidisciplinary Research 2023**

National Institute on Aging (NIA)

### **Great Teaching for New Faculty Certification, June 2019**

Center for Teaching Excellence, University of Florida

First Year Faculty Teaching Academy

### **Team Based Learning Fundamentals Certificate, June 2018**

Team Based Learning Collaborative

- Introduction to TBL
- Creating Effective TBL Modules
- Peer Evaluation Methods for TBL
- Ensuring Student Buy-In for TBL
- Advanced TBL Module Writing

### **Best Practices for Teaching Online Certificate, Fall 2018**

Center for Instructional Technology & Training, University of Florida

- Engaging Online Learners
- Accessible Online Environments
- Creating Student-Centered Assignments

## **PROFESSIONAL AFFILIATIONS**

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|            |                                                                               |
|------------|-------------------------------------------------------------------------------|
| 2023-      | American Aging Association (AGE)                                              |
| 2021-      | Gerontological Society of America (GSA)                                       |
| 2018-      | Faculty for Undergraduate Neuroscience                                        |
| 2018-      | International Behavioral Neuroscience Society National Member                 |
| 2017- 2019 | Summer Neuroscience Internship Program, University of Florida                 |
|            | Admissions Chair 2019                                                         |
|            | Co-Director 2018                                                              |
|            | Graduate Advisor 2017                                                         |
| 2015-      | Society for Neuroscience National Member                                      |
| 2014- 2019 | North Central Florida Chapter of the Society for Neuroscience Member          |
|            | President '17-'18                                                             |
|            | Conference Coordinator '16-'17                                                |
|            | Conf. Vice Chair '15'-16                                                      |
| 2016       | UF Graduate Student Organization- Neuroscience Representative                 |
| 2011-2012  | Omicron Delta Kappa National Honor Society                                    |
| 2010-2012  | Recreation Activities and Leadership Committee at Florida Atlantic University |
| 2010-2011  | National Residence Hall Honorary                                              |

**Caesar Miguel Hernandez III**

ORCID iD: <https://orcid.org/0000-0001-9690-5119>

Bibliography: [https://www.ncbi.nlm.nih.gov/myncbi/1jmND\\_nOOVK5s/bibliography/public/](https://www.ncbi.nlm.nih.gov/myncbi/1jmND_nOOVK5s/bibliography/public/)

University of Alabama at Birmingham • Department of Medicine • GGPC

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Email: [caesarmh@uab.edu](mailto:caesarmh@uab.edu)

**Education**

- 2018 **PhD.** Medical Sciences, Concentration in Neuroscience, University of Florida  
*Thesis: Circuit and Molecular Mechanisms of Altered Decision Making in Aging* under the advisory of Jennifer Lynn Bizon, Ph.D. and Barry Setlow, Ph.D.
- 2014 **M.S.** Biological Sciences, Florida Atlantic University, Boca Raton, FL  
*Thesis: Methionine Reductase Sulfoxide (Msr) Deficiency Leads to a Reduction of Dopamine Levels in Drosophila* under the advisory of David Binnering, Ph.D. and Herbert Weissbach, Ph.D
- 2011 **B.S.** Biological Sciences with minor in Biotechnology, Magna Cum Laude, Florida Atlantic University
- 2009 **A.A.** Biology, Palm Beach State College

**Professional and Research Experience**

- 2023- **Assistant Professor** in the Department of Medicine, Division of Gerontology, Geriatrics, and Palliative Care, University of Alabama at Birmingham
- 2022-2023 **Postdoctoral Fellow** in the Laboratories of Lynn Dobrunz, Ph.D., Peter King, M.D., and Lori McMahon, PhD., Department of Neurobiology, University of Alabama at Birmingham
- 2020-2022 **Postdoctoral Fellow** in the Laboratory of Lori McMahon, Ph.D., Department of Cellular, Developmental, and Integrative Biology, University of Alabama at Birmingham
- 2019-2020 **Postdoctoral Associate** in the Laboratories of Barry Setlow, Ph.D. and Jennifer L. Bizon, Ph.D., Departments of Psychiatry and Neuroscience, University of Florida
- 2014-2018 **Graduate Research Assistant** in the Laboratories of Jennifer L. Bizon, Ph.D. and Barry Setlow, Ph.D., Departments of Neuroscience and Psychiatry, University of Florida
- 2012-2014 **Graduate Research Assistant** in the Laboratory of David Binnering, Ph.D., Department of Biological Sciences – Charles E. Schmidt College of Science, Florida Atlantic University
- 2012-2014 **Lab Manager** in the Laboratory of Herbert Weissbach, Ph.D., Center for Molecular Biology and Biotechnology, Florida Atlantic University
- 2012 **Microbiology Laboratory Teaching Assistant**, Charles E. Schmidt College of Science, Florida Atlantic University
- 2012 **Biotechnology Laboratory Teaching Assistant**, Charles E. Schmidt College of Science, Florida Atlantic University
- 2003-2007 **Light Infantry Rifleman Squad Leader** under the command of Lt. Col. Stephen Neary, 3<sup>rd</sup> Battalion, 8<sup>th</sup> Marine Regiment, United States Marine Corps

### Professional Leadership Positions

|         |                                                                          |
|---------|--------------------------------------------------------------------------|
| 2018-19 | North Central FL SfN Executive Board Member: SfN Conference Chair        |
| 2017-18 | North Central FL SfN Executive Board Member: SfN Conference Vice Chair   |
| 2014    | South Florida SfN Executive Board Member: Professional Development Chair |

### Research Grants, Fellowships and Other Support

#### **Current**

##### National Institutes of Health Pathway to Independence Award (Parent K99/R00)

Project ID: 4R00AG078400-03 8/01/2023-8/15/27

Title: The Impact of Normative Aging and Alzheimer's Disease on Fear based Disorders  
and Amygdala Dysfunction

This competitive award supports 3 years of research and career development in preparation for a R01.

#### **Completed**

##### National Institutes of Health Pathway to Independence Award (Parent K99/R00)

Project ID: 1K99AG078400-01 8/15/2022-7/31/23

Title: The Impact of Normative Aging and Alzheimer's Disease on Fear based Disorders  
and Amygdala Dysfunction

This competitive award supports 2 years of research and career development in preparation for the R00 phase.

##### National Institutes of Health T32: Interdisciplinary Training in Pathobiology and Rehabilitation Medicine

Project ID: 2T32HD071866-06 2/3/2020-8/15/22

This competitive NIH award supports 2 years of post-doctoral training in preparation for other career development awards.

##### McKnight Predoctoral Fellowship

Florida Education Fund 8/1/2014-12/6/18

This competitive, state-level award supports predoctoral training to the full extent of the Ph.D. program.

##### Tillman Military Scholarship

Pat Tillman Foundation 8/1/2014-12/6/18

This is a competitive, national award that is in support of the individual throughout undergraduate, graduate, or professional training.

##### Honorably Discharged Graduate Assistant Scholarship

University of Florida Graduate College 11/23/2014-12/6/18

##### Summer Fellowship

Board of Education 06/01/2014-08/30/14

This award supported the transition into Ph.D. training at the University of Florida.

**Academic and Professional Awards**

|      |                                                                                                                                                                                                                         |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2022 | 1 <sup>st</sup> Place Presentation for Postdoctoral Research Day, UAB's Postdoctoral Office of Education                                                                                                                |
| 2022 | 3 <sup>rd</sup> Place Award for Trainee Talk Session, Comprehensive Neuroscience Center Retreat                                                                                                                         |
| 2021 | 1 <sup>st</sup> Place Presentation for Postdoctoral Research Day, UAB's Postdoctoral Office of Education                                                                                                                |
| 2021 | Individual fellowship incentive, UAB Office of Postdoctoral Education and the Graduate School                                                                                                                           |
| 2020 | Neuroscience Scholars Program Enrichment Fund, Society for Neuroscience                                                                                                                                                 |
| 2019 | McKnight Brain Institute Travel Award                                                                                                                                                                                   |
| 2019 | Neuroscience Scholars Program Enrichment Fund, Society for Neuroscience                                                                                                                                                 |
| 2019 | 1 <sup>st</sup> Place Poster Competition, North Central Florida Chapter of Society for Neuroscience                                                                                                                     |
| 2018 | Neuroscience Scholars Program Fellow, Society for Neuroscience                                                                                                                                                          |
| 2018 | Honorarium, Bryan Robinson Endowment for Neuroscience, Tallahassee Memorial Healthcare Foundation                                                                                                                       |
| 2018 | McKnight Brain Institute Travel Award                                                                                                                                                                                   |
| 2018 | Silver Award, College of Medicine Medical Guild Graduate Research Competition                                                                                                                                           |
| 2018 | Cluff Award for Aging Research, Leighton E. Cluff Endowment and The Institute for Learning in Retirement at Oak Hammock                                                                                                 |
| 2018 | 1 <sup>st</sup> Place William G. Luttge Award for Outstanding Graduate Research in Neuroscience                                                                                                                         |
| 2018 | Travel Award, International Behavioral Neuroscience Society                                                                                                                                                             |
| 2018 | Professional Development Award, Pat Tillman Foundation                                                                                                                                                                  |
| 2017 | 3 <sup>rd</sup> Place Poster Competition, Annual McKnight Brain Research Foundation                                                                                                                                     |
| 2017 | Neuroscience Scholars Program Associate, Society for Neuroscience                                                                                                                                                       |
| 2017 | Bryan Robinson Endowment for Neuroscience Grant, Tallahassee Memorial Healthcare Foundation                                                                                                                             |
| 2017 | 3 <sup>rd</sup> Place Poster Competition, North Central Florida Chapter of Society for Neuroscience                                                                                                                     |
| 2017 | UF College of Medicine Advancement to Candidacy Award Nominee, Neuroscience Department                                                                                                                                  |
| 2017 | Travel Award, Interdisciplinary Program in Biomedical Sciences, College of Medicine, UF                                                                                                                                 |
| 2016 | Trainee Professional Development Award, Society for Neuroscience                                                                                                                                                        |
| 2016 | Travel Award, North Central Florida Chapter of Society for Neuroscience                                                                                                                                                 |
| 2014 | Turner Predoctoral Fellowship, Stony Brook University (awarded, not accepted)                                                                                                                                           |
| 2013 | Veteran's Club Founder's Award, Palm Beach State College                                                                                                                                                                |
| 2011 | Magna Cum Laude, Florida Atlantic University                                                                                                                                                                            |
| 2009 | Academic Excellence in Biology, Palm Beach State College                                                                                                                                                                |
| 2008 | Dean's List for Academic Excellence, Palm Beach State College                                                                                                                                                           |
| 2007 | Dean's List for Academic Excellence, Palm Beach State College                                                                                                                                                           |
| 2006 | Navy and Marine Corps Achievement Medal with Combat Valor Distinguishing Device for providing security and small arms fire assistance as squad leader in direct support of Navy Special Warfare operations (Navy SEALs) |

### Caesar Miguel Hernandez III

- 2006 Navy and Marine Corps Achievement Medal for safely evacuating two wounded, continuing the mission when given the option to abort, and employing Marines in a tactical manner as squad leader during an engagement in which improvised explosive devices, small arms fire, machine-gun fire and rocket propelled grenades were repelled ultimately resulting in the successful silencing of an enemy combatants' position
- 2006 Navy Sea Service Ribbon (3) for 3 tours of duty overseas
- 2005 Marine Corps Good Conduct Medal for adhering to strict standards of conduct set by the Marine Corps
- 2005 Combat Action Ribbon (2) for being engaged in at least small arms fire across multiple combat theaters
- 2005 Marine Corps Commendation for Leadership
- 2004 Humanitarian Service Medal for securing civilian-military interaction points in order to provide medical aid and logistics and for securing educational facilities in order to provide supplies for students and the advancement of education in impoverished areas
- 2004 Armed Forces Expeditionary Medal
- 2003 National Defense Service Medal

### Research Articles (\*Co-first authorship) | [Google Scholar](#) | [PubMed](#)

- Gandy H.M., Hollis F., **Hernandez, C.M.**, McQuail, J.A., (under review) Aging or chronic stress impairs working memory and modulates GABA and glutamate gene expression in prelimbic cortex.
- Fletcher R., Hoppe M., McQuail, J.A., **Hernandez, C.M.**, Hernandez, A.R., (under review) Ketogenic Diet-Induced Alterations in Neuronal Signaling-Related Proteins are Not Due to Differences in Synaptosome Protein Levels.
- Hernandez C.M.**, Jackson N.L., Hernandez A.R., McMahon L.L., (2022) Impairments in fear extinction memory and basolateral amygdala plasticity in the TgF344-AD rat model of Alzheimer's disease are distinct from non-pathological aging. *eNeuro* 9, ENEURO.0181-22.2022. doi:10.1523/ENEURO.0181-22.2022
- Hernandez C.M.\***, McQuail J.A.\*, Ten Eyck T.W., Orsini C.A., Wheeler A., Setlow B., Bizon J.L., (2022) GABA<sub>B</sub> receptors in prelimbic cortex and basolateral amygdala differentially influence intertemporal decision making and decline with age. *Neuropharmacology*, 109001.
- Hernandez C.M.**, Hernandez A.R., Hoffmam J.M., King P.H., McMahon L.L., Buford T.W., Carter C.S., Bizon J.L., Burke S.N., (2022) A Neuroscience Primer for Integrating Geroscience with the Neurobiology of Aging. *The Journals of Gerontology. Series A, Biological Sciences and Medical Sciences*, 77(1), e19–e33.
- Hoffmam J.M., **Hernandez C.M.**, Hernandez A.R., Austad S.N., Buford T.W., Carter C.S., (2022) Bridging the gap: A geroscience primer for neuroscientists with potential collaborative applications. *The Journals of Gerontology. Series A, Biological Sciences and Medical Sciences*, 77(1), e10–e18.



- McQuail, J.A., Beas, B.S., Kelly, K.B., **Hernandez, C.M.**, Bizon, J.L., & Frazier, C.J. (2021). Attenuated NMDAR signaling on fast-spiking interneurons in prefrontal cortex contributes to age-related decline of cognitive flexibility. *Neuropharmacology*, 197, 108720.
- Hernandez A.R., Hoffmam J.M., **Hernandez C.M.**, Cortes C.J., Jumbo-Lucioni P., Baxter M.G., Esser K.A., Liu A.C., McMahon L.L., Bizon J.L., Burke S.N., Buford T.W., Carter C.S. (2021). Reuniting the Body “Neck Up and Neck Down” to Understand Cognitive Aging: The Nexus of Geroscience and Neuroscience. *The Journals of Gerontology: Series A*.
- Hernandez C.M.**, Orsini C.A., Blaes S.L., Bizon J.L., Febo M., Bruijnzeel A.W., Setlow B., (2020). Effects of repeated adolescent exposure to cannabis smoke on cognitive outcomes in adulthood. *Journal of Psychopharmacology*, 0269881120965931.
- Hernandez C.M.**, Orsini C.A., Wheeler A., Ten Eyck T.W., Betzhold S.M., Labiste C.C., Setlow B., Bizon J.L., (2020) Testicular hormones mediate robust sex differences in impulsive choice. *eLife* 9.
- Orsini C.A., Blaes S.L., **Hernandez C.M.**, Betzhold S.M., Perera H., Wheeler A-R., Ten Eyck T.W., Garman T.S., Bizon J.L., Setlow B., (2020) Regulation of risky decision making by gonadal hormones in males and females. *Neuropsychopharmacology*, 46(3), 603-613.
- Hernandez A.R.\*, **Hernandez C.M.\***, Truckenbrod L.M., Campos K.T., McQuail J.A., Bizon J.L., Burke S.N., (2019) Age and ketogenic diet have dissociable effects on synapse-related gene expression between hippocampal subregions. *Frontiers in Aging Neuroscience*, 11.
- Hernandez C.M.**, Orsini C.A., Labiste C.C., Wheeler A-R., Ten Eyck T.W., Bruner M.M., Sahagian T.J., Harden S.W., Frazier C.J., Setlow B., Bizon J.L., (2019) Optogenetic dissection of basolateral amygdala contributions to intertemporal choice in young and aged rats. *eLife* 8.
- Hernandez C.M.**, McQuail J.A., Schwabe M.R., Burke S.N., Setlow B, Bizon J.L., (2018) Age-Related Declines in Prefrontal Cortical Expression of Metabotropic Glutamate Receptors That Support Working Memory. *eNeuro* 5(3) e0164-18.2018, 1-17.
- Hernandez A.R., **Hernandez C.M.**, Campos K., Truckenbrod L., Federico Q., Moon B., McQuail J.A., Maurer A.P., Bizon J.L., Burke S.N., (2018) A Ketogenic Diet Improves Cognition and Has Biochemical Effects in Prefrontal Cortex That Are Dissociable From Hippocampus. *Front Aging Neurosci* 10.
- Orsini C.A., **Hernandez C.M.**, Bizon J.L., Setlow B., (2018) Deconstructing value-based decision making: lessons from animal models. *Cognitive, Affective, & Behavioral Neuroscience*, 1-18.
- Hernandez C.M.\***, Vetere L.M.\*, Orsini C.A., McQuail J.M., Maurer A.P., Burke S.N., Setlow B., Bizon J.L., (2017) Decline of prefrontal cortical-mediated executive functions but attenuated delay discounting in aged Fischer 344 × brown Norway hybrid rats. *Neurobiology of Aging* 60, 141–152.
- Orsini C.A., **Hernandez C.M.**, Singhal S., Kelly K.B., Frazier C.J., Bizon J.L., Setlow B., (2017) Optogenetic Inhibition Reveals Distinct Roles for Basolateral Amygdala activity at discrete timepoints during risky decision making. *The Journal of Neuroscience* 37, 11537–11548.

Hernandez A.R., **Hernandez C.M.**, Campos K.T., Truckenbrod L.M., Sakarya Y., McQuail J.A., Carter C.S., Bizon J.L., Maurer A.P., Burke S.N., (2017) The Anti-Epileptic Ketogenic Diet Alters Hippocampal Transporter Levels and Reduces Adiposity in Aged Rats. *The Journals of Gerontology Series A* 73, 450-458.

### **Invited Talks, Presentations, and Panels**

2023-05-05 Emerging Leaders in Neuroscience, Brain and Mind Research Institute at Weill Cornell Medicine  
2023-01-13 Integrative Center for Aging Research (ICAR), UAB  
2022-09-28 Co-chair panel at the Southeastern Neurodegeneration Conference  
2021-07-07 VA Research Seminar, Birmingham Veterans Affairs Medical Center  
2019-05-17 Annual Florida Consortium of Neurobiology of Cognition  
2019-04-11 Annual McKnight Brain Research Foundation Meeting  
2018-06-05 Bryan Robinson Endowment for Neuroscience Awards Dinner, Tallahassee, FL  
2017-02-16 McKnight Mid-Year Conference, Tampa, FL.

### **Teaching Experience** (Evaluations available upon request)

#### ***Florida Atlantic University***

MCB 3020L: General Microbiology Lab (Summer 2012)

BSC 4403L: Biotechnology Laboratory (Spring 2012)

#### ***University of Florida***

GMS 6705: Functional Human Neuroanatomy (Fall 2019)

### **Professional Memberships**

Society for Neuroscience (SFN)

Molecular and Cellular Cognition Society (MCCS)

North Central Florida Chapter of the Society for Neuroscience (NCF-SFN)

Founded Veteran's Club at Palm Beach State College

### **Service and Community Outreach**

2016 Community outreach, Cade Museum, Gainesville: STEM career awareness for young girls  
2016 Second-time Volunteer, Brain Awareness Week  
2015 First-time Volunteer, Brain Awareness Week  
2015 Volunteer, Center for Precollegiate Education and Training  
2014 Volunteer, St. Francis House Emergency Shelter, Gainesville, FL  
2013-2014 Judge, S.E. Florida Science Olympiad Competition  
2012-2013 Volunteer, Relay for Life  
2012-2013 Volunteer, Habitat for Humanity

**Other Related Service**

Guest Editor:

Frontiers in Aging Neuroscience (specialty issue on Emotional Affective Disorders in Aging and Alzheimer's Disease and Their Impact on Higher Order Cognition)

Journal Reviewer at the following:

Neurobiology of Aging

Journal of Gerontology: Biological Sciences

Open Biology

Behavioural Brain Research

Neural Plasticity

Frontiers in Aging Neuroscience

**Abstracts for Regional, National, and International Conference Presentations** (\*graduate trainees)

Faraji M., **Hernandez C.M.**, Wheeler A., Betzhold S.M., Setlow B., Bizon J.L., (2023) Optogenetic manipulations reveal temporally distinct contributions of medial prefrontal cortex to working memory in young and aged rats. *Biomedical Engineering Society Conference, Seattle, WA.*

Garcia M.L.\*, **Hernandez C.M.**, Jackson N.L., McMahon L.L., (2022) Proteomic analysis of inflammatory markers in the TgF344 rat model of Alzheimer's disease. *Society for Neuroscience Annual Meeting, San Diego, CA.*

**Hernandez C.M.**, Jackson N.L., Hernandez A.R., McMahon L.L., (2022) Impairments in fear extinction memory and basolateral amygdala plasticity in the TgF344-AD rat model of Alzheimer's disease are distinct from non-pathological aging. *Comprehensive Neuroscience Center Retreat, Lake Guntersville State Park, AL*

**Hernandez C.M.**, Jackson N.L., Bagley M.E.\*, McMahon L.L. (2021) Early impairments of fear memory extinction and amygdala plasticity in the TgF344AD rat model of Alzheimer's disease are distinct from impairments in non-pathological aging. *International Behavioral Neuroscience Society, Puerto Vallarta, MX.*

Rae R.J.\*, **Hernandez C.M.**, Jackson N.L., McMahon L.L. (2021) Effects of genotype on temporal discounting in the TgF344AD rat model of Alzheimer's Disease. *International Behavioral Neuroscience Society, Puerto Vallarta, MX.*

Garcia M.L.\*, **Hernandez C.M.**, Jackson N.L., Bagley M.E.\*, McMahon L.L. (2021) Aging impairs contextual fear memory extinction retrieval and long-term potentiation in the basolateral amygdala. *International Behavioral Neuroscience Society, Puerto Vallarta, MX.*

**Hernandez C.M.**, McMahon L.L. (2021) Sex differences in early impairment of fear memory extinction in the TgF344AD rat model of Alzheimer's disease. *Society for Neuroscience, Global Connectome.*

**Hernandez C.M.**, Wheeler A., Orsini C.A., Ten Eyck T.W., Labiste C.C., Wright N.G., Betzhold S.M., Setlow B., Bizon J.L. (2020) Contributions of gonadal hormones to intertemporal choice in male and female rats. *International Behavioral Neuroscience Society, Virtual meeting.*

- Hernandez C.M.**, Labiste C.C., Wheeler A., Ten Eyck T.W., Setlow B., Bizon J.L. (2019) Optogenetic inactivation of prefrontal cortex during intertemporal choice reveals unique roles for this structure in young and aged rat decision making. *American College for Neuropsychopharmacology, Orlando, FL.*
- Hernandez C.M.**, Labiste C.C., Wheeler A., Ten Eyck T.W., Setlow B., Bizon J.L. (2019) Optogenetic inactivation of prefrontal cortex during intertemporal choice reveals unique roles for this structure in young and aged rat decision making. *Society for Neuroscience Annual Meeting, Chicago, IL.*
- Hernandez C.M.**, Orsini C.A., Labiste C.C., Wheeler A., Ten Eyck T.W., Bruner M.M., Singhal S.M., Burke S.N., Frazier C.J., Setlow B., Bizon J.L. (2018) Aged rats do not use basolateral amygdala during outcome evaluation in an intertemporal choice task. *Society for Neuroscience Annual Meeting, San Diego, CA.*
- Hernandez C.M.**, Orsini C.A., McQuail J.A., Labiste C.C., Wheeler A., Ten Eyck T.W., Singhal S.M., Burke S.N., Frazier C.J., Setlow B., Bizon J.L. (2018) Optogenetic inactivation of basolateral amygdala in young rats recapitulates aged rats' ability to delay gratification in an intertemporal choice task. *International Behavioral Neuroscience Society, Boca Raton, FL.*
- Hernandez C.M.**, Orsini C.A., McQuail J.A., Labiste C.C., Wheeler A., Ten Eyck T.W., Singhal S.M., Burke S.N., Frazier C.J., Setlow B., Bizon J.L. (2018) Optogenetic inactivation of basolateral amygdala in young rats recapitulates aged rats' ability to delay gratification in an intertemporal choice task. *International Conference for Learning and Memory, Huntington Beach, CA.*
- Hernandez C.M.**, Orsini C.A., McQuail J.A., Labiste C.C., Wheeler A., Ten Eyck T.W., Singhal S.M., Burke S.N., Frazier C.J., Setlow B., Bizon J.L. (2017) Optogenetic inactivation of basolateral amygdala in young rats recapitulates aged rats' ability to delay gratification in an intertemporal choice task. *Society for Neuroscience Annual Meeting, Washington D.C.*
- Orsini C.A., **Hernandez C.M.**, Singhal S.M., Kelly K.B., Frazier C.J., Bizon J.L., Setlow B. (2017) Optogenetic inactivation of the basolateral amygdala during risky decision making in rats. *Society for Neuroscience Annual Meeting, Washington D.C.*
- McQuail J.A., Ghay S., Bruner M.M., **Hernandez C.M.**, Krause E.G., Setlow B., Scheuer D.A., Bizon J.L. (2017) Age- and stress-related neuroendocrine dysfunction associate with impaired working memory and loss of GABAergic synaptic markers in prefrontal cortex. *Society for Neuroscience Annual Meeting, Washington D.C.*
- Hernandez C.M.**, Orsini C.A., Setlow B., Bizon J.L. (2017) Optogenetic inactivation of basolateral amygdala during the delay discounting task. 41<sup>st</sup> Annual Winter Conference Data Blitz. Park City, UT, USA
- Hernandez C.M.**, Schwabe M.R., McQuail J.A., Setlow B., Bizon J.L. (2016) Glutamate dysregulation in aged rat prefrontal cortex may contribute to decline of working memory. Annual Evelyn F. McKnight Brain Research Foundation Poster Reception. San Diego, CA, USA.
- Hernandez C.M.**, Beas B.S., McQuail J.A., Setlow B., Bizon J.L. (2016) Biochemical evidence for altered glutamatergic signaling in the aged prefrontal cortex: contribution to impaired behavioral flexibility. 46<sup>th</sup> Annual Meeting of the SFN. San Diego, CA, USA.

- McQuail J.A., St. John A.T., **Hernandez C.M.**, Krause E.G., Setlow B., Scheuer D.A., Bizon J.L. (2016) Acute elevation of corticosterone enhances working memory and associates with preserved cognitive ability in aging. 56<sup>th</sup> Annual Meeting of the ACNP. Hollywood, FL, USA.
- Hernandez A.R., Campos K.T., Truckenbrod L.M., Santacrose L., **Hernandez C.M.**, Sakarya Y., McQuail J.A., Carter C.S., Maurer A.P., Bizon J.L., Burke S.N. (2016) The ketogenic diet as therapeutic strategy for improving motor and cognitive functioning in a rodent model of senescence. 46<sup>th</sup> Annual Meeting of the SFN. San Diego, CA, USA.
- Hernandez C.M.**, McQuail J.A., Beas B.S., Setlow B., Bizon J.L. (2015) Subregional and behaviorally-relevant transcriptional changes related to GABA and glutamate signaling in the aged rodent prefrontal cortex. 45<sup>th</sup> Annual Meeting of the SFN. Chicago, IL, USA.
- Kelly K.B., McQuail J.M., **Hernandez C.M.**, Bizon J.L., Frazier C.J. (2015) Aging alters excitatory and inhibitory modulation of GABAergic interneurons in layer 2/3 of the rodent mPFC. 45<sup>th</sup> Annual Meeting of the SFN. Chicago, IL, USA.
- Hernandez C.M.**, McQuail J.A., Beas B.S., Setlow B., Bizon J.L. (2015) Subregional and behaviorally-relevant transcriptional changes related to GABA and glutamate signaling in the aged rodent prefrontal cortex. 14<sup>th</sup> Annual Meeting of the Molecular and Cellular Cognition Society. Chicago, IL, USA.

**Graduate and Undergraduate Presentations at International, Regional, and Institutional Meetings**  
(trainees are underlined)

- Rae R.J., **Hernandez C.M.**, Jackson N.L., McMahon L.L. (2021) Effects of genotype on temporal discounting in the TgF344AD rat model of Alzheimer's Disease. *International Behavioral Neuroscience Society, Puerto Vallarta, MX.*
- Garcia M.L., **Hernandez C.M.**, Jackson N.L., Bagley M.E.\*, McMahon L.L. (2021) Aging impairs contextual fear memory extinction retrieval and long-term potentiation in the basolateral amygdala. *International Behavioral Neuroscience Society, Puerto Vallarta, MX.*
- Wheeler A., **Hernandez C.M.**, Orsini C.A., Ten Eyck T.W., Labiste C.C., Setlow B., Bizon J.L. (2019) Contributions of gonadal hormones to intertemporal choice in male rats. Society for Neuroscience Conference. Chicago, IL, USA.
- Ten Eyck T.W., **Hernandez C.M.**, McQuail J.A., Bruner M.M., Labiste C.C., Wheeler A., Setlow B., Bizon J.L. (2019) Altered GABA<sub>B</sub> receptor signaling in basolateral amygdala may contribute to age-associated differences in intertemporal choice. 9<sup>th</sup> Annual North Central Florida Chapter for the Society for Neuroscience Conference. Gainesville, FL, USA.
- Also presented at Society of Neuroscience Conference 2018, San Diego, CA, USA.*
- Wheeler A., **Hernandez C.M.**, Orsini C.A., Ten Eyck T.W., Labiste C.C., Setlow B., Bizon J.L. (2019) Female rats show greater impulsive choice than males in an intertemporal choice task. 9<sup>th</sup> Annual North Central Florida Chapter for the Society for Neuroscience Conference. Gainesville, FL, USA.

*Also presented at Society of Neuroscience Conference 2018, San Diego, CA, USA.*

Wheeler A., **Hernandez C.M.**, Orsini C.A., Ten Eyck T.W., Labiste C.C., Setlow B., Bizon J.L. (2018) Female rats show greater impulsive choice than males in an intertemporal choice task. *Society for Neuroscience Annual Meeting, San Diego, CA.* Wheeler A, **Hernandez CM**, Vetere LM, Orsini CA, McQuail JA, Maurer AP, Burke SN, Setlow B, Bizon JL (2018) Age-related alterations in executive function, delay discounting, and incentive motivation in Fischer 344 × Brown Norway Hybrid Rats. 8<sup>th</sup> Annual North Central Florida Chapter for the Society for Neuroscience Conference. Gainesville, FL, USA.

Ten-Eyck T.W., **Hernandez C.M.**, McQuail J.A., Schwabe M.R., Setlow B., Bizon J.L. (2018) Age-related declines in prefrontal cortical expression of metabotropic glutamate receptors that support working memory. 8<sup>th</sup> Annual North Central Florida Chapter for the Society for Neuroscience Conference. Gainesville, FL, USA.

Schwabe M.R., **Hernandez C.M.**, McQuail J.A., Setlow B., Bizon J.L. (2016) Group II and Group III metabotropic glutamate receptors are required for normal working memory and are reduced in the aged rat prefrontal cortex. 46<sup>th</sup> Annual Meeting of the SFN. San Diego, CA, USA.

**1<sup>st</sup> Place Poster Competition** at 7<sup>th</sup> Annual North Central Florida Chapter for the Society of Neuroscience Conference. Gainesville, FL, USA.

Vetere L.M., Orsini C.A., McQuail J.A., Burke S.N., Setlow B., Bizon J.L. (2016) Age-Related Alterations in Working Memory and Intertemporal Choice in Fischer 344 × Brown Norway Hybrid Rats. 46<sup>th</sup> Annual Meeting of the SFN. San Diego, CA, USA.

**2<sup>nd</sup> Place Poster Competition** at 7<sup>th</sup> Annual North Central Florida Chapter for the Society for Neuroscience Conference. Gainesville, FL, USA.

Campos K.T., Hernandez A.R., Truckenbrod L.M., **Hernandez C.M.**, Sakarya Y., McQuail J.A., Carter C.S., Bizon J.L., Maurer A.P., Burke S.N. (2017) The Effects of a Ketogenic Diet on Cognitive and Physical Health of Aged Rats. 7<sup>th</sup> Annual North Central Florida Chapter for the Society for Neuroscience Conference. Gainesville, FL, USA.

### **Mentorship of Undergraduate Research Scholars and Interns**

**Alexa-Rae Wheeler** (2016-present), B.S., Behavioral and Cognitive Neuroscience ('20), University of Florida  
University of Florida Scholar (2018-2019)

*Currently a graduate school student at University of Texas in Austin, TX*

**Tyler W. Ten Eyck** (2016-Present), B.S., Behavioral and Cognitive Neuroscience ('19), University of Florida

**Chase C. Labiste** (2016-2017), B.S., Microbiology and Cell Science ('17), University of Florida

*Currently a medical school student at Nova Southeastern University, FL*

**Lauren M. Vetere** (2016-2017), B.S., Neuroscience ('17), University of Florida

University Scholar (2016-2017)

University Scholar Travel Award to present research at 2016 Annual Meeting of SfN

*Currently a graduate student at Mt. Sinai, NY*

**Miranda R. Schwabe** (2016-2017), B.S., Neuroscience ('17), University of Florida

University Scholar (2016-2017)

University Scholar Travel Award to present research at 2016 Annual Meeting of SfN

*Currently a graduate student at the University of Wisconsin, WI*

**Keila Campos** (2016-2017), B.S., Behavior and Cognitive Neuroscience ('18), University of Florida

University Scholar (2016-2018)

*Currently a medical student at the University of South Florida, FL*

## **Military History**

### ***Active Duty and Reserve Service in the United States Marine Corps***

|           |                                                                                                                                                                                   |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2010-2011 | Served as Infantry Combat Instructor to a company of Reserve Marines                                                                                                              |
| 2003-2007 | Served in the light infantry unit, 3 <sup>rd</sup> Battalion 8 <sup>th</sup> Marines, as a squad leader responsible for the safety, morale, and tactical employment of 12 Marines |
| 2003-2007 | Maintained the highest Marine Corps academic standard through the Marine Corps Institute                                                                                          |
| 2003-2007 | Kept a high degree of discipline with regards to physical fitness standards resulting in high physical fitness scores                                                             |
| 2007      | Promoted to the rank of Sergeant within the rare time frame of 3.5 years                                                                                                          |
| 2005      | Was promoted to the position of squad leader 1.5 years before achieving the rank required to hold such a position                                                                 |

### ***Tours of Duty***

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2006 | <u>Operation Iraqi Freedom</u> , Ramadi, Al Anbar Province, Iraq<br>Our task was to maintain security of the city and establish a foothold from which a proper changeover of jurisdiction could take place with the Iraqi National forces. Within the seven-month tour, our missions were met with heavy resistance but were crucial to our assigned task that evidently led to a secure city of Ramadi from which the foreign insurgency had been removed. |
| 2005 | <u>Operation Iraqi Freedom</u> , Fallujah, Al Anbar Province, Iraq<br>Our unit was responsible for the security of the first-time democratic process of voting after the Hussein regime was disbanded. We conducted countless security patrols and humanitarian service mission as we were met with resistance from a foreign insurgency.                                                                                                                   |
| 2004 | <u>Operation Secure Tomorrow</u> , Port Au Prince, Haiti<br>The Haitian government was overthrown by rebels and President Aristide was ousted in a coup d'état. Our unit secured the presidential palace and established a forward operating base from which we launched countless security patrols. Within 4 months, we secured the capital and handed over operations to the U.N.                                                                         |

**STANDARDIZED CURRICULUM VITAE**  
**University of Alabama at Birmingham**  
**School of Medicine Faculty**

Date: **12/12/2023**

**PERSONAL INFORMATION**

Name: Raymond Jones, PhD

Citizenship: US Citizen

Foreign Language(s): N/A

Home Address: 1125 22<sup>nd</sup> St. S, #5, Birmingham, AL 35205

Phone: 985.253.8133

**RANK/TITLE**

Assistant Professor

Department: Medicine

Division: Gerontology, Geriatrics, and Palliative Care

Business Address: 1313 13<sup>th</sup> St. S, Birmingham, AL 35205

Phone: 205.996.3569

Email: raymondjones@uabmc.edu

**EDUCATION:**

|         |                           |                                    |
|---------|---------------------------|------------------------------------|
| 12/2020 | PhD (Kinesiology)         | University of Southern Mississippi |
| 05/2017 | MS (Health & Kinesiology) | Southeastern Louisiana University  |
| 05/2011 | BS (Kinesiology)          | Southeastern Louisiana University  |

**POSTDOCTORAL TRAINING:**

|         |                              |                                     |
|---------|------------------------------|-------------------------------------|
| 07/2022 | Clinical Science/Gerontology | University of Alabama at Birmingham |
|---------|------------------------------|-------------------------------------|

**ACADEMIC APPOINTMENTS: (In reverse chronological order)**

|                 |                                        |                                                                                                          |
|-----------------|----------------------------------------|----------------------------------------------------------------------------------------------------------|
| 06/23 – Present | <b>Assistant Professor (Secondary)</b> | University of Alabama at Birmingham,<br>School of Health Professions,<br>Department of Physical Therapy  |
| 04/23 – Present | Investigator                           | University of Alabama at Birmingham<br>(Evelyn F. McKnight Brain Institute)                              |
| 04/23 – Present | Associate Scientist                    | University of Alabama at Birmingham<br>(Center for Outcomes and Effectiveness<br>Research and Education) |
| 01/23 – Present | Associate Scientist                    | University of Alabama at Birmingham<br>(Center for Clinical and Translational<br>Science)                |
| 11/22 – Present | Associate Scientist                    | University of Alabama at Birmingham                                                                      |



|                 |                                           |                                                                                                                            |
|-----------------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| 07/22 – Present | <b>Assistant Professor (Tenure-Track)</b> | (Center for AIDS Research)<br>University of Alabama at Birmingham,<br>Medicine-Gerontology, Geriatrics,<br>Palliative Care |
| 07/22 – Present | Associate Scientist                       | University of Alabama at Birmingham<br>(Center for Exercise Medicine)                                                      |
| 01/21 – 07/22   | Postdoctoral Fellow                       | University of Alabama at Birmingham                                                                                        |
| 04/19 – 12/20   | Robert Smith, MD Graduate Fellow          | University of Mississippi Medical Center                                                                                   |
| 08/17 – 12/20   | Graduate Research Assistant               | University of Southern Mississippi                                                                                         |

#### **AWARDS/HONORS:**

|      |                                                                                                                                      |
|------|--------------------------------------------------------------------------------------------------------------------------------------|
| 2018 | SEACSM Leadership and Diversity Training Program                                                                                     |
| 2018 | USM Three-Minute Thesis Overall Runner-Up                                                                                            |
| 2018 | USM Three-Minute Thesis Category Winner                                                                                              |
| 2018 | USM Professionals in Preparation                                                                                                     |
| 2019 | ACSM Noninvasive Physiological Award Recipient                                                                                       |
| 2019 | SEACSM Outstanding Doctoral Abstract                                                                                                 |
| 2019 | ACSM Leadership and Diversity Training Program                                                                                       |
| 2019 | UMMC Minority Health Research Certificate                                                                                            |
| 2020 | USM Hall of Fame Inductee                                                                                                            |
| 2021 | OPE Professional Development Award                                                                                                   |
| 2021 | ASCB Faculty Research and Education Development Grant Writing Program                                                                |
| 2021 | CCTS Clinical Investigator Training Program                                                                                          |
| 2021 | ICAR Early Stage Investigator Award                                                                                                  |
| 2021 | CCTS/SCOR Grant Writing Intensive Cohort (GRIT)                                                                                      |
| 2022 | UMMC LC Dorsey Research Honor Society Inductee                                                                                       |
| 2022 | NIH Workshop for ESIs in HIV/AIDS                                                                                                    |
| 2022 | CFAR ESI Travel Award                                                                                                                |
| 2022 | RCCN Travel Award                                                                                                                    |
| 2022 | CCTS Scientific Excellence Award                                                                                                     |
| 2023 | AHA EPI Lifestyle Moderator – Aging and Brain Health                                                                                 |
| 2023 | CFAR ESI Travel Award                                                                                                                |
| 2023 | HCSRN – OAIC Multiple Chronic Conditions (MCC) Scholar                                                                               |
| 2023 | Department of Medicine – Underrepresented in Medicine<br>Emerging Researchers Awardee                                                |
| 2023 | UAB CFAR Representative – National CFAR Meeting                                                                                      |
| 2023 | AHA Scientific Sessions Moderator – Prospective Associations of<br>Lifestyle, Social, and Genetic Factors with CV Risk and Mortality |

#### **PROFESSIONAL SOCIETIES:**

##### **MEMBERSHIPS:**

|      |                                                                  |
|------|------------------------------------------------------------------|
| 2016 | Southeast Region - The American College of Sports Medicine       |
| 2016 | The American College of Sports Medicine                          |
| 2019 | The American Heart Association                                   |
| 2019 | The Interdisciplinary Association for Population Health Sciences |
| 2020 | The Obesity Society                                              |
| 2021 | National Postdoctoral Association                                |
| 2021 | National Black Postdoctoral Association                          |
| 2021 | UAB Postdoctoral Association                                     |
| 2021 | UAB Black Postdoctoral Association                               |
| 2021 | The Gerontological Society of America                            |
| 2022 | UAB Black/African American Faculty Association                   |
| 2022 | UAB LGBTQ+ Faculty Association                                   |
| 2023 | Southern Gerontological Society                                  |

#### **COUNCILS AND COMMITTEES:**

|                |                                                                                         |
|----------------|-----------------------------------------------------------------------------------------|
| 2021 – Present | CARDIA Physical Activity and Fitness Working Group                                      |
| 2021 – Present | AHA Council on Lifestyle and Cardiometabolic Health                                     |
| 2021 – Present | Jackson Heart Study Healthy Aging Working Group                                         |
| 2021 – Present | ARIC Physical Function and Aging Working Group                                          |
| 2022 – Present | MACS/WIHS/CCS Neuropsychology Working Group                                             |
| 2022 – Present | MACS/WIHS/CCS CVD Working Group                                                         |
| 2022 – Present | Program Planning Committee Member – RCCN Scholars Program in Multidisciplinary Research |
| 2022 – Present | CFAR EMERGE Group                                                                       |
| 2023 – Present | Co-Chair CNICS ESI Working Group                                                        |

#### UNIVERSITY ACTIVITIES:

|                |                                                                            |
|----------------|----------------------------------------------------------------------------|
| 2021 – 2022    | UAB Black Postdoctoral Association Professional Development Chair          |
| 2022 – Present | UAB Black Postdoctoral Association Advisory Board                          |
| 2022 – Present | CARDIA Chief Reviewer                                                      |
| 2022 – Present | UAB Center for Exercise Medicine Co-Leader of Clinical Research & Admir    |
| 2022           | UAB CCTS, Panel Member, CCTS Pilot Grant Application Program               |
| 2023           | 33rd Annual Vascular Biology & Hypertension (VB&H) Symposium, Poster Judge |
| 2023 – 2026    | UAB Department of Medicine – DREAM Council                                 |

#### Grant Review:

|             |                                                                                        |
|-------------|----------------------------------------------------------------------------------------|
| 2023 – 2024 | NIH, Neurological, Mental, and Behavioral Health (NMBH) Study Section, Ad Hoc Reviewer |
|-------------|----------------------------------------------------------------------------------------|

#### Ad-Hoc Journal Review

*Aging Brain*  
*Aging Cell*  
*American Journal of Lifestyle Medicine*  
*Circulation*  
*Clinical Physiology and Functional Imaging*  
*Experimental Gerontology*  
*International Journal of Exercise Science*  
*International Journal of Obesity*  
*Journal of Aging and Health*  
*Journal of Gerontology: Biological Sciences*  
*Journal of Pathology, Microbiology and Immunology – the APMIS Journal*  
*Journal of Physical Activity and Health*  
*Journal of the American Heart Association*  
*Medicine & Science in Sports & Exercise*  
*Public Library of Science (PLOS) One*

#### MAJOR RESEARCH INTERESTS: (2-3 Sentences)

My primary research is predominantly clinical and translational in vascular health and function. The research areas that I am interested in include vascular morbidities and the heart-brain connection among older adults from vulnerable and underserved populations, particularly. I also focus on the therapeutic effects of exercise as it relates to improving overall function and health of older adults.

#### TEACHING EXPERIENCE:

|                 |                                                                                |
|-----------------|--------------------------------------------------------------------------------|
| 08/17 – 12/20   | Graduate Instructor, Exercise Physiology, University of Southern Mississippi   |
| 08/16 – 5/17    | Graduate Instructor, Kinesiology, Southeastern Louisiana University            |
| 08/23 – Present | Co-Facilitator, Center for Exercise Medicine Trainee Cohort Lunch-n-Learn, UAB |

## GRANT SUPPORT: (PAST AND CURRENT)

|                                                                                                                                                      |                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| K01AG86063                                                                                                                                           | <b>Impact Score – 16</b> |
| National Institute on Aging (NIA)                                                                                                                    | \$667,941                |
| A Pilot Trial of High-Intensity Exercise to Combat Vascular and Cognitive Dysfunction in Older Adults with HIV                                       |                          |
| Role: Principal Investigator                                                                                                                         |                          |
| No Award # (K. McGregor & K. McCall)                                                                                                                 | 2023 - 2024              |
| UAB Center for Exercise Medicine                                                                                                                     | \$39,940                 |
| Building Empowerment through Fitness Program for Adaptation and Implementation among Women in Public Housing - BeFit                                 |                          |
| Role: Consultant                                                                                                                                     |                          |
| R01AG077997 (P. Wheeler)                                                                                                                             | 2023 - 2028              |
| National Institute on Aging (NIA)                                                                                                                    | \$3,777,301              |
| Examining the Effect of High Intensity Exercise to Attenuate Cognitive Function Limitation and Train Exercise Habits in Older People Living with HIV |                          |
| Role: Co-Investigator                                                                                                                                |                          |
| No Award #                                                                                                                                           | 2023                     |
| UAB Department of Medicine Research Excellence                                                                                                       | \$10,000                 |
| Advancement and Mentorship (DREAM) Council                                                                                                           |                          |
| Department of Medicine Underrepresented in Medicine Emerging Researchers Award                                                                       |                          |
| Role: Principal Investigator                                                                                                                         |                          |
| K12HL143958 (P. Muntner & S. Heath)                                                                                                                  | 2022 - 2024              |
| National Heart, Lung, and Blood Institute (NHLBI)                                                                                                    | \$200,000                |
| UAB Institutional Career Development Program in HIV-Related Heart, Lung, Blood and Research                                                          |                          |
| Role: Scholar                                                                                                                                        |                          |
| No Award # (T. Buford)                                                                                                                               | 2022 - Present           |
| HIV & Aging Research Consortium                                                                                                                      | \$40,000                 |
| Feasibility of High-Intensity Interval Training in Older Adults with HIV and Co-Occurring Hypertension                                               |                          |
| Role: Co-Principal Investigator                                                                                                                      |                          |
| No Award #                                                                                                                                           | 2022 - Present           |
| Center for AIDS Research Network of Integrated Clinical                                                                                              | \$15,000                 |
| Systems New Investigator Pilot Award                                                                                                                 |                          |
| Cardiometabolic Disease Among Frailty Clusters in Adults Aging with HIV                                                                              |                          |
| Role: Principal Investigator                                                                                                                         |                          |
| T32HD071866 (T. Buford)                                                                                                                              | 2021 - 2022              |
| Eunice Kennedy Shriver National Institute of Child Health & Human Development (NICHD)                                                                |                          |
| Interdisciplinary Training in Pathobiology and Rehabilitation Medicine                                                                               |                          |
| Role: Trainee                                                                                                                                        |                          |
| No Award # (S. McCoy & D. Credeur)                                                                                                                   | 2020 – 2021              |
| Aubrey Keith and Ella Ginna Lucas Endowment for Faculty                                                                                              | \$5,000                  |
| Excellence                                                                                                                                           |                          |
| Discerning the Appropriate Interruption Strategy for Preventing Arterial Stiffening Following a Prolonged Bout of Uninterrupted Sitting              |                          |
| Role: Consultant                                                                                                                                     |                          |

|                                                                                                                               |             |
|-------------------------------------------------------------------------------------------------------------------------------|-------------|
| HHSN268201800012I (B. Beech & M. Bruce)                                                                                       | 2019 - 2021 |
| National Heart, Lung, and Blood Institute and National<br>Institute on Minority Health and Health Disparities                 | \$15,000    |
| The Jackson Heart Study Graduate Training and Education Center at the University of<br>Mississippi Medical Center (UMMC-GTEC) |             |
| Role: Trainee                                                                                                                 |             |
|                                                                                                                               |             |
| 18AIREA33960360 (D. Credeur)                                                                                                  | 2018 – 2020 |
| American Heart Association                                                                                                    | \$153,042   |
| Targeting the Peripheral Vasculature through Intermittent Pneumatic Compression in Spinal<br>Cord Injury                      |             |
| Role: Graduate Research Assistant                                                                                             |             |
|                                                                                                                               |             |
| No Award # (S. McCoy)                                                                                                         | 2018 – 2020 |
| Aubrey Keith and Ella Ginna Lucas Endowment for Faculty<br>Excellence                                                         | \$4,000     |
| Acute Impact of Artificial Sweetener Consumption on Vascular Endothelial Health                                               |             |
| Role: Co-Investigator                                                                                                         |             |
|                                                                                                                               |             |
| No Award # (B. Sirikul)                                                                                                       | 2016 – 2017 |
| Southwest Center for Occupational and Environmental Health                                                                    | \$9,998     |
| National Institute for Occupational Safety and Health                                                                         |             |
| Physiological Strain Incurred during Simulated Commercial Fishing Tasks in a Hot & Humid<br>Environment                       |             |
| Role: Graduate Research Assistant                                                                                             |             |

## BIBLIOGRAPHY:

### MANUSCRIPTS: **Most recent LAST** Manuscripts already published

1. Jones R, Credeur DP, McCoy SM. Too Much Workplace Sitting: A Brief Historical Perspective. *International Journal of Exercise Science*. 2019; 12(2):777-785.
2. Credeur DP, Miller SM, Jones R, Stoner L, Dolbow DR, Fryer SM, Stone K, McCoy SM. Impact of Prolonged Sitting on Peripheral and Central Vascular Health. *American Journal of Cardiology*. 2019; 123(2):260-266.
3. Credeur DP, Jones R, Stanford D, Stoner L, McCoy S, Jessee M. Central cardiovascular hemodynamic response to unilateral handgrip exercise with blood flow restriction. *European Journal of Applied Physiology*. 2019; 119(10): 2255-2263.
4. Stanford DM, Park J, Jones R, Credeur DP, McCoy S, Jessee MB. Acute cardiovascular response to unilateral, bilateral, and alternating resistance exercise with blood flow restriction. *European Journal of Applied Physiology*. 2020; 120(8): 1921-1930.
5. Beech BM, Jones R, Bruce MA, Cohen-Winans S, Harris K, Tyrone RS, Thorpe RJ Jr. Weight Misperception among African American Adolescents: The Jackson Heart KIDS Pilot Study. *Ethnicity & Disease*. 2021; 31(3):461-468.
6. Booker R, Jones R, Galloway R, Holmes M. Differences of Sedentary Behavior, Physical Activity, and Metabolic Syndrome Severity Among Metabolic Syndrome Clusters. *American Journal of Lifestyle Medicine*. 2021 [Epub ahead of print]; 1-11.
7. Jones R, Norris K, McCoy S, Thorpe R, Bruce M, Heitman E, Beech B. Association Between Occupational Sitting With High Sensitivity C-Reactive Protein: The Jackson Heart Study. *American Journal of Lifestyle Medicine*. 2021 [Epub ahead of print]; 1-10.
8. Jones R, McArthur D, McCoy SM, Stoner L, Fryer S, & Credeur DP. Impact of Acute Prolonged Sitting on Cerebrovascular Hemodynamics. *International Journal of Exercise Science*. 2022; 15(2): 1156-1167.
9. Enogela EM, Buchanan TL, Carter CS, Elk R, Gazaway SB, Goodin BR, Jackson EA, Jones R, Kennedy RE, Perez-Costas E, Zubkoff L, Zumbro EL, Markland AD, & Buford TW. Preserving

Independence among Vulnerable and Under-resourced Older Adults in the Southeastern United States. *International Journal for Equity in Health*. 2022; 21(119): 1-15.

10. Booker R, Galloway R, Novik R, Jones R, & Holmes ME. Differences between Preemptive and Non-Preemptive Physical Activity among 'Drunkorexia'-Positive College Students. *Journal of American College Health*. 2022 [Epub ahead of print]; 1-5.
11. Jones R, Enogela EM, Buchanan TL, Buford TW, Vance DE, & Fazeli PL. Inflammatory and Cardiovascular Correlates of Physical Activity in Older Adults Living with HIV. *Journal of Physical Activity and Health*. 2023; 20(2): 149-156.
12. Jones R, Credeur DP, McCoy SM. Occupational sitting and work engagement among university employees. *Journal of American College Health*. 2023; 71(2): 600-606.
13. Ruderman SA, Webel AR, Willig AL, Drumright LN, Fitzpatrick AL, Odden MC, Cleveland JD, Burkholder G, Davey CH, Fleming J, Buford TW, Jones R, Nance RM, Whitney BM, Mixson LS, Hahn AW, Mayer KH, Greene M, Saag MS, Kamen C, Pandya C, Lober WB, Kitahata MM, Crane PK, Crane HM, & Delaney JAC. Validity and Reliability of a Self-reported Modified Frailty Phenotype (MOD-FP) Among People Living with HIV in CNICS Clinical Care. *Journal of the Association of Nurses in AIDS Care*. 2023; 34(2): 158-170.
14. Enogela EM, Jones R, Buford TW, Vance DE, & Fazeli PL. Cardiometabolic Diseases, Quality of Life, and Sleep in Adults with HIV in the Deep South. *Journal of the Association of Nurses in AIDS Care*. 2023; 34(2): 171-181.

### Manuscripts in Press

1. Jones R, Booker R, Jessee MB, Martin S, Vance DE, & Fazeli PL. Estimated Indices of Arterial Stiffness on Cognition. *Journal of Acquired Immune Deficiency Syndrome*.
2. Jones R, Enogela EM, Zumbro EL, Soukhamneut P, Buford TW, Richardson CR, & Jackson EA. Prevalence of Pre-Frailty and Frailty in the Physical Activity Daily (PAD) Trial. *Journal of Applied Gerontology*.

### Manuscripts submitted but not yet accepted

1. Jones R, Credeur DP, Piland SG, Lemacks JL, & McCoy SM. Hemodynamic Response to Uninterrupted Sitting in Black and White Males. *European Journal of Applied Physiology*.

### Manuscripts in preparation

1. Jones MA, Gibbs BB, Gabriel KP, Kershaw K, VanWiel L, Ajibewa, TA, Jones R, & Whitaker K. Perceived Discrimination, Cardiometabolic Health, and Physical Activity in the CARDIA Study.
2. Murdock M, Boudreaux BD, Dooley E, Gabriel KP, Hornikel B, Howard V, Jones R, Judd S, Amezcua PM, Palta P, Romero E, & Diaz K. Television Viewing and Incident Cognitive Impairment: The Reasons for Geographic and Racial Differences in Stroke (REGARDS) Study.
3. Boudreaux BD, Amezcua PM, Dooley E, Gabriel KP, Hornikel B, Jones R, Badon S, Palta P, Schwartz J, Quinn T, Whitaker KM, & Diaz K. 24-Hour Activity Cycle and Incident Hypertension during Midlife: The CARDIA Study.
4. Booker R, Jones R, Alexandria S, Khan SS, Ndumele C, Newton Jr RL, & Carnethon MR. Longitudinal Effect of Movement Behavior Time Reallocation on Heart Failure Morbidity and Mortality: The Jackson Heart Study.
5. Jones R, Hanks MJ, Armstrong ND, Gabriel KP, Buford TW, & Dooley EE. Activity Behaviors and Cardiometabolic Health Outcomes in People Living with HIV.
6. Jones R, Robinson AT, Beach LB, Lindsey ML, Erlandson KM, & Jenkins NDM. The potential of exercise to prevent accelerated vascular aging in adults with HIV. Invited Review. *Circulation Research*. To be submitted February 15, 2024.

### Invited Submissions and Commentary

1. Bryan AT & Jones R. Could All Those Zoom Meetings be Bad for Your Health? *ACSM Blog*. 2021.
2. Pitts, K. Moving Toward a Healthier Future: Enhancing Research. *The Talon*. 2022. (Contributor: Jones R).
3. Bryan AT & Jones R. The Impact of Virtual Meetings on Your Health. *Technogym Newsroom*. 2022.
4. Fauzia M. How Much Exercise Do You Actually Need to be "Healthy"? *Inverse*. 2022. (Contributor: Jones R).

## Published abstracts

1. Jones R, McArthur D, McCoy SM, Stoner L, Fryer S, & Credeur DP. Impact of a Brief Period of Uninterrupted Sitting on Cerebrovascular Hemodynamics. *Medicine & Science in Sports & Exercise*. 2019; 51(6S): 134.
2. Credeur DP, Miller SM, Jones R, McCoy SM, Dolbow DR, Stoner L. Sex Differences in the Central Arterial Response to Prolonged Uninterrupted Sitting. *Medicine & Science in Sports & Exercise*. 2019; 51(6S): 673 – 674.
3. Stanford DM, Park J, Jones R, McCoy SM, Credeur DP, & Jessee MB. Cardiovascular Response to Unilateral, Bilateral, and Alternating Exercises with Blood Flow Restriction. *Medicine & Science in Sports & Exercise*. 2020; 52(7S): 888.
4. Jones R, Credeur DP, & McCoy SM. Occupational Sitting and Work Engagement among University Faculty and Staff. *Medicine & Science in Sports & Exercise*. 2020; 52(7S): 433 – 434.
5. Jones R, Credeur DP, Piland SG, Lemacks JL, & McCoy SM. Hemodynamic Response during Sedentary Behavior in Black and White Males. *Medicine & Science in Sports & Exercise*. 2021; 53(8S): 91.
6. Enogela EM, Jones R, Buford TW, Vance DE, & Fazeli PL. Cardiometabolic Disease, Quality of Life, and Sleep in Adults with HIV in the Deep South. *Circulation*. 2022; 145(Suppl\_1): AEP08.
7. Jones R, Enogela EM, Zumbro EL, Soukhamneut P, Buford TW, Richardson CR, & Jackson EA. Prevalence of Pre-frailty and Frailty in the Physical Activity Daily (PAD) Trial. *Circulation*. 2022; 145(Suppl\_1): AP128.
8. Jones MA, Gibbs BB, Gabriel KP, Kershaw KN, VanWiel LM, Ajibewa, TA, Jones R, Jacobs DR, & Whitaker KM. Moderation of Associations Between Lifetime Racial Discrimination and Cardiometabolic Health by Physical Activity in the Coronary Artery Risk Development in Young Adults (CARDIA) Study. *Circulation*. 2023; 147(Suppl\_1): AP123.
9. Buchanan TL, Tharpe M, Dodds F, Chandra R, Zumbro EL, Baptista L, Jones R, & Buford TW. The Impact of Exercise on Affect Balance Styles In Older, Hypertensive Females: Preliminary Findings. *The Journal of Pain*. 2023; 4(24, Supplement): 101.

## Poster Exhibits

1. Gourley D, Jones R, Boudreaux B, Stiegler G, & Kraemer R. Upper Body Ergometry as a Predictor of Hypertension in Fit, Normotensive College Students with Hypertensive Parents. National Strength and Conditioning Association, New Orleans, LA. 2016.
2. Jones R, Jenkins T, & Hollander D. Internal and External Cognitive Processes during Strength and Endurance Training. Symposium Presentation. College of Nursing and Health Sciences Research Forum, Southeastern Louisiana University, Hammond, LA. 2017.
3. Jones R & Sirikul B. Physiological Strain Incurred during Simulated Commercial Fishing Tasks in a Hot & Humid Environment. Symposium Presentation. NIOSH ERC Pilot Projects Research Symposium, University of Texas Health Sciences Center at Houston School of Public Health. Houston, Texas 2017.
4. Albright K, Miller SM, Downey AK, Jones R, McCoy SM, Stoner L, & Credeur DP. Pneumatic Compression Effects on Aortic Vascular Stiffness and Central Hemodynamic Load during Prolonged Sitting. Southeast American College of Sports Medicine, Greenville, SC. 2019.
5. Credeur DP, Jones R, McCoy SM, & Piland SG. Impact of Athletic Compression Socks on Lower-Limb Hemodynamics and Tissue Oxygenation. Southeast American College of Sports Medicine, Greenville, SC. 2019.
6. Schreck B, Jones R, Stoner L, & Credeur DP. Characterizing the Central Hemodynamic Response to Orthostasis: Influence of Sex, Fitness, and Body Composition. Southeast American College of Sports Medicine, Greenville, SC. 2019.
7. Jones R, McArthur D, McCoy SM, Stoner L, & Credeur DP. Impact of Acute Sedentarism on Cerebrovascular Hemodynamics. Southeast American College of Sports Medicine, Greenville, SC. 2019.
8. Credeur DP, Miller SM, Jones R, McCoy SM, Dolbow DR, & Stoner L. Sex Differences in the Central Arterial Stiffness Response to Prolonged Uninterrupted Sitting. American College of Sports Medicine, Orlando, FL. 2019.

9. Jones R, McArthur D, McCoy SM, Stoner L, & Credeur DP. Impact of a Brief Period of Uninterrupted Sitting on Cerebrovascular Hemodynamics. American College of Sports Medicine, Orlando, FL. 2019.
10. Jones R, Tyrone RS, Cohen-Winans S, Harris KK, Thorpe R, Bruce MA, Heitman E, Norris K, & Beech B. Individual and Parental Contributors to Weight Misperception among African American Adolescents: The Jackson Heart KIDS Study. Poster Presentation. Jackson State University Research Day. Jackson, MS 2019.
11. Jones R, Credeur DP, & McCoy SM. Occupational Sitting and Work Engagement among University Employees. American College of Sports Medicine, San Francisco, CA 2020.
12. Jones R, Credeur DP, Piland SG, Lemacks JL, McCoy SM, & Buford TW. Hemodynamic Response during Sedentary Behavior in African American and White Males. UAB Vascular Biology & Hypertension Symposium, Virtual, 2021.
13. Jones R, Credeur DP, Piland SG, Lemacks JL, McCoy SM, & Buford TW. Hemodynamic Response during Sedentary Behavior in African American and White Males. UAB Department of Medicine's Trainee Research Symposium, Virtual, 2021.
14. Jones R, Credeur DP, Piland SG, Lemacks JL & McCoy SM. Hemodynamic Response during Sedentary Behavior in Black and White Males. American College of Sports Medicine, Virtual, 2021.
15. Enogela EM, Jones R, Buford TW, Vance DE, & Fazeli PL. (2022). Cardiometabolic Disease, Quality of Life, and Sleep in Adults with HIV in the Deep South. American Heart Association EPI|Lifestyle Scientific Sessions, Chicago, IL 2022.
16. Jones R, Enogela EM, Zumbro EL, Soukhamneut P, Buford TW, Richardson CR, & Jackson EA. Prevalence of Pre-frailty and Frailty in the Physical Activity Daily (PAD) Trial. American Heart Association EPI|Lifestyle Scientific Sessions, Chicago, IL 2022.
17. Jones R, Enogela EM, Buchanan TL, Buford TW, & Fazeli PL. Inflammatory and Cardiovascular Correlates of Physical Activity in Older Adults Living with HIV. American College of Sports Medicine, San Diego, CA 2022.
18. Buchanan TL, Jones R, Rumble DD, Allen-Watts K, Sims A, Antoine L, Quinn TL, Buford TW, & Goodin BR. Sedentary Time is Associated with Subjective Physical Function in Adults with Chronic Lower Back Pain. International Association for the Study of Pain, Toronto, Canada, 2022.
19. Ridgeway J, Gahagan H, Siddiqui M, Jones R, & Jackson EA. Factors Affecting Physical Activity in Adults with Peripheral Artery Disease. UAB Medical Student Summer Research Program, Birmingham, AL 2022.
20. Ruderman SA, Webel AR, Willig AL, Drumright LN, Fitzpatrick AL, Odden MC, Cleveland JD, Davey CH, Fleming J, Buford TW, Jones R, Greene M, Kamen C, Pandya C, & Crane HM. Validity of a Self-Reported Modified Frailty Phenotype among People with HIV. Conference on Retroviruses and Opportunistic Infections (CROI), Seattle, WA 2023.
21. Jones R, Enogela EM, Ruderman SA, Kitahata MM, Moore R, Jacobson J, Karris M, Greene M, Fleming J, Napravnik S, Burkholder G, Delaney JAC, Crane HM, Willig AL, & Buford TW. Cardiometabolic Disease Among Frailty Phenotype Clusters in Adults Aging with HIV. Center for AIDS Research National Meeting, Baltimore, MD 2023.
22. Hanks MJ, Dooley EE, Armstrong ND, Gabriel KP, Buford TW, & Jones R. Activity Behaviors and Cardiometabolic Health Outcomes in People Living with HIV. World AIDS Day Symposium, Birmingham, AL 2023.

### **Oral Presentations**

Invited workshops, etc. at national postgraduate courses and meetings and at other universities

1. Jones R. Careers and Opportunities for Undergraduates Majoring in Exercise Science. Invited Presentation. Shenandoah University's Exercise Science Department. Winchester, WV 2019.
2. Jones R. Sedentary Behavior and Elements of Work Engagement. Invited Presentation. Southeastern Louisiana University's Department of Kinesiology and Health Studies Research Forum. Hammond, LA 2020.
3. Jones R. Prolonged Sitting and Hemodynamics. Invited Presentation. Southeastern Louisiana University's Department of Kinesiology and Health Studies Research Forum. Hammond, LA 2020.
4. Jones R. Community, Population, and Minority Health: Perspectives of a Physiologist. Invited

- Presentation. Southeastern Louisiana University's Department of Kinesiology and Health Studies. Health Studies 312 – Community Health. Hammond, LA 2020.
5. Jones R. Where Two Paths Cross: A Quest in Exercise Physiology and Cardiovascular Disease Epidemiology. Guest Speaker. Jackson Heart Study 20<sup>th</sup> Anniversary Conference: Every Heartbeat Matters—Changing the Future of Heart Health. Jackson, MS 2020.
  6. Jones R. Paywalls and Pandemics: Scholarship, Open Access, and the Challenge of COVID-19. Panelist. The University of Southern Mississippi's Center for Faculty Excellence. Hattiesburg, MS 2020.
  7. Jones R. Journey into Research...The Good and the Learning Experience. Invited Presentation. Oakwood University Chemistry Department STEM Seminar Series. Huntsville, AL 2021.
  8. Jones R, Buchanan TL, & Zumbro EL. Preparing for Graduate School. University of Alabama at Birmingham Undergraduate Research Seminar Series. Birmingham, AL 2021.
  9. Jones R. My Journey into Research. Invited Presentation. University of Mississippi Department of Health, Exercise Science, and Recreation Management. Oxford, MS 2022.
  10. Jones R. Older Adults with HIV...Exercise is Medicine. Invited Presentation. NIA Research Centers Collaborative Network on Aging, Race, and Health Disparities. Bethesda, MD 2022.
  11. Vance DE, Fazeli PL, Azuero A, Frank JS, Wadley VG, Raper JL, Pope CN, Jones R, Byun JY, & Ball KK. Examining the Transfer of Useful Field of View Training to Secondary Cognitive Domains in Middle-Aged and Older Adults with HIV. Oral Presentation. Association of Nurses in AIDS Care Conference. Tampa, FL, 2022.
  12. Jones R. Aging with HIV: Exercise as Medicine. Invited Presentation. Take 5 for Research: Mississippi Center for Clinical and Translational Research. Hattiesburg, MS 2022.
  13. Jones R. Transition from Postdoc to Faculty. Invited Presentation. UAB Black Postdoctoral Association Speaker Series. Birmingham, AL 2022
  14. Jones R. Central Vascular Implications in Neurocognitive Functioning among Older People with HIV. Oral Presentation. 24<sup>th</sup> International Workshop on Long-Term Complications of HIV and SARS CoV-2 Career Development Studio. Virtual 2022.
  15. Jones R. Importance of Exercise in Older Adults Living with HIV. Invited Workshop. Birmingham AIDS Outreach. Birmingham, AL 2023.
  16. Jones R. Cardiometabolic Disease among Frailty Phenotype Clusters in Adults Aging with HIV. Invited Presentation. International Workshop on HIV & Aging. Washington DC 2023.
  17. Jones R. Cardiometabolic Disease among Frailty Phenotype Clusters in Adults Aging with HIV. Invited Presentation. World AIDS Day Symposium. Birmingham, AL 2023.



**CURRICULUM VITAE**  
**University of Alabama at Birmingham**  
**School of Medicine Faculty**

**PERSONAL INFORMATION**

Name: Amy Joy Knight, PhD ABPP-CN  
Citizenship: U.S.A.  
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Phone: 205-200-7270

**RANK/TITLE**

Associate Professor  
Department: Neurology, Division of Neuropsychology, UAB SOM  
Business Address: 1720 7<sup>th</sup> Ave South, SC650  
Birmingham, AL 35294-0017  
Phone: 205-934-2334  
Fax: 205-975-3094  
Email: ajknight@uabmc.edu

**EDUCATION**

|           |                        |                                             |
|-----------|------------------------|---------------------------------------------|
| 2010-2012 | Neuropsychology Fellow | UAB Department of Neurology                 |
| 2001-2002 | Psychology Internship  | West Virginia University School of Medicine |
| 1996-2002 | Doctor of Philosophy   | University of Wisconsin-Milwaukee           |
| 1987-1991 | Bachelor of Arts       | Bard College                                |

**MILITARY SERVICE**      None

**LICENSURE**      #1617 Alabama Board of Examiners in Psychology (7/9/2010-present)  
#PY11579 Florida Board of Examiners in Psychology (8/23/2022-present)

**BOARD CERTIFICATION**    #8657 ABPP Clinical Neuropsychology (3/23/2018-present)

**ACADEMIC APPOINTMENTS**

2023-Present Associate Professor, UAB School of Medicine, Neurology  
2023-Present Investigator, McKnight Brain Institute, UAB School of Medicine  
2021-Present Scientist, Center for Engagement in Disability Health and Rehabilitation Sciences  
2018-2023 Associate Professor, UAB School of Medicine, PM&R  
2016-Present Scientist, UAB Multiple Sclerosis Center  
2015-Present Full Status University of Alabama-Birmingham Graduate Faculty  
2015-Present Secondary Appointment, Department of Psychology, University of Alabama-Birmingham College of Arts and Sciences  
2012-2018 Assistant Professor, University of Alabama-Birmingham School of Medicine

**UAB HOSPITAL NON-ACADEMIC CLINICS/CONSULTS**

2023-Present Director of Clinical Training, Clinical Neuropsychology Postdoctoral Fellowship  
Neurology, Division of Neuropsychology, UAB SOM  
2022-Present Behavioral Consultant – UAB Medical West, Cardiopulmonary Rehabilitation

- 2018-2023 Director of Clinical Training, Clinical Neuropsychology Postdoctoral Fellowship  
PM&R Spain Rehabilitation Center, UAB SOM
- 2017-2022 Director, Division of Rehabilitation Psychology, UAB Department of Physical  
Medicine and Rehabilitation
- 2013-Present Behavioral Health Psychologist, UAB Cardiopulmonary Rehabilitation Service
- 2013-2015 Neurobehavioral Consults – TAVR Pre-Surgical Evaluation, UAB Interventional  
Cardiology & CV Surgery
- 2012-Present Active Staff, UAB Health System

#### **OTHER NON-ACADEMIC APPOINTMENTS**

- 2007-2010 Special Needs Coordinator  
Blue Cross and Blue Shield of Alabama, Birmingham, AL
- 2002-2007 Social Science Research Advisor  
Centers for Medicare and Medicaid Services, Baltimore, MD

#### **AWARDS/HONORS**

- 2021 CJ Rosencrans Psychology Training Award, Awarded annually to the Intern Supervisor who has demonstrated outstanding mentorship and teaching in the field of Clinical Psychology by UAB-Birmingham VA Psychology Internship Consortium.
- 2020 AACVPR Distinguished Service Award - presented to an individual whose leadership, ideas, and committee work have significantly benefited the AACVPR as an organization
- 2020 CJ Rosencrans Psychology Training Award, Awarded annually to the Intern Supervisor who has demonstrated outstanding mentorship and teaching in the field of Clinical Psychology by UAB-Birmingham VA Psychology Internship Consortium.
- 2018 UAB Graduate School - Dean's Award for Excellence in Mentorship.
- 2017 CJ Rosencrans Psychology Training Award, Awarded annually to the Intern Supervisor who has demonstrated outstanding mentorship and teaching in the field of Clinical Psychology by UAB-Birmingham VA Psychology Internship Consortium.
- 2016 CJ Rosencrans Psychology Training Award, Awarded annually to the Intern Supervisor who has demonstrated outstanding mentorship and teaching in the field of Clinical Psychology by UAB-Birmingham VA Psychology Internship Consortium.
- 2015 CJ Rosencrans Psychology Training Award, Awarded annually to the Intern Supervisor who has demonstrated outstanding mentorship and teaching in the field of Clinical Psychology by UAB-Birmingham VA Psychology Internship Consortium.
- 2012 Presenter Award (3<sup>rd</sup> place), *Functional connectivity and financial capacity in Alzheimer's disease*. 9th Annual UAB post-doc research day hosted by UAB's Office of Postdoctoral Education and the Postdoctoral Association.
- 2007 CMS Administrator's Citation, "Recognition and appreciation of your leadership, performance and dedication to public service and the programs of the Department of Health and Human Services."
- 2006 CMS Administrator's Achievement Award, "Exemplary effort and rapid turnaround in the development and roll out of Care Management for High Cost Beneficiaries Demonstration."
- 2004 CMS Administrator's Achievement Award, for "Extraordinary effort and outstanding work in implementing the Medicare Modernization Act."
- 2004 CMS Office of Research and Development Award, for "Excellence in the implementation of Disease Management for Severely Chronically Ill Medicare Beneficiaries Demonstration."

- 2000 Dissertator Fellowship, University of Wisconsin - Milwaukee.
- 2000 Phi Kappa Phi National Honor Society, University of Wisconsin - Milwaukee.
- 1999 Margaret Bernauer Research Award, Wisconsin Psychological Association.
- 1999 Grant-in-aid-of-Research, Sigma Xi Scientific Research Society.
- 1998 Science Directorate Small Grant Award, American Psychological Association.

### **PROFESSIONAL SOCIETY MEMBERSHIPS**

American Association of Cardiovascular and Pulmonary Rehabilitation (AACVPR)  
 American Academy of Clinical Neuropsychology (AACN)  
 International Neuropsychological Society (INS)  
 Functional Neurologic Disorder Society (FNDS)

### **COUNCILS AND COMMITTEES**

- 2021-2023 AACVPR Equity Advisory Council
- 2020-2022 CDC Million Hearts Cardiac Rehab Health Equity Council – Co-Chair
- 2020-2023 Executive Committee – Immediate Past President / President (2021-2022)  
 American Association of Cardiovascular and Pulmonary Rehabilitation
- 2017-2020 Board of Directors - Director  
 American Association of Cardiovascular and Pulmonary Rehabilitation
- 2018-2021 AACVPR Nominating Committee - Member
- 2017-2018 Value Based Care Committee– Chair  
 American Association of Cardiovascular and Pulmonary Rehabilitation
- 2016-2018 Health Care Reform Committee AACVPR Leadership Team - Member  
 American Association of Cardiovascular and Pulmonary Rehabilitation
- 2013-2023 Annual Meeting Program Planning Committee – Behavioral Health Committee  
 American Association of Cardiovascular and Pulmonary Rehabilitation  
     Milwaukee - 38<sup>th</sup> Annual Meeting, September 2023  
     West Palm Beach - 37<sup>th</sup> Annual Meeting, September 2022  
     San Antonio - 36<sup>th</sup> Annual Meeting, October 2021  
     Virtual - 35<sup>th</sup> Annual Meeting, October 2020  
     Portland, OR- 34<sup>th</sup> Annual Meeting, September 2019  
     Louisville, KY – 33<sup>rd</sup> Annual Meeting, September 2018  
     Charleston, SC – 32<sup>nd</sup> Annual Meeting, October 2017  
     New Orleans, LA – 31<sup>st</sup> Annual Meeting, September 2016  
     Washington, DC – 30<sup>th</sup> Annual Meeting, September 2015  
     Denver, CO – 29<sup>th</sup> Annual Meeting, September 2014
- 2014-2016 Behavioral and Nutrition Website Redesign Task Force - Chair  
 American Association of Cardiovascular and Pulmonary Rehabilitation
- 2014-2017 Outcome Measures Task Force for AACVPR Program Certification - Member  
 American Association of Cardiovascular and Pulmonary Rehabilitation

### **Advisory Boards & Task Forces**

- 2021-2023 PCORI McNair Study Advisory Board Member - Comparative effectiveness of in-person and telehealth cardiac rehabilitation.
- 2018-2021 Million Hearts Collaborative Advisory Board CDC– Member
- 2018-2019 AACVPR Membership Assessment Task Force – Member
- 2018-2019 AACVPR New Board Member Onboarding Task Force – Member
- 2015 & 2016 Item writing for AACVPR Boards - national credentialing exam – Writer

2015 AAVCPR Website Redesign for Behavioral/Nutrition Task Force – Chair  
 2014-2017 Outcome Measures Task Force for AACVPR Program Certification – Member  
 2014-2015 NMSS Alabama/Mississippi Chapter Clinical Advisory Committee  
 2013-Present AACVPR Psychosocial-Nutrition Experts Working Group

### UNIVERSITY ACTIVITIES

2021-2023 PM&R Diversity, Equity, Inclusion & Justice Committee - Member  
 2020-2022 PM&R Leadership Committee - Member  
 2020-2023 PM&R Finance Committee - Member  
 2016-2017 PM&R Strategic Planning – Culture and Communication Sub-committee - Chair  
 2016-2020 UAB Neuropsychology Case Conference (NPCC) Faculty Advisor  
 2016 UAB Medical Psychology Graduate Program – Admission Committee Member  
 2015-2019 PM&R Resident Research Committee Member  
 2015 PM&R Research Blitz Committee Chair – Mix & Mingle Feb 2015  
 10/28/2014 UAB SOM Judge for Medical Student Research Day  
 2014-2020 PM&R Grand Round Committee Member  
 2014-2018 UAB-BVA Intern Admission Committee Member  
 2014-current UAB Assoc of Neuropsychology Students in Training (ANST) Faculty Advisor  
 2013-current Interviewer: UAB-BVA Internship; UAB College of Arts and Sciences - Medical Psychology Graduate Program; UAB SOM Faculty Search Cmts  
 2013-2019 PM&R Research Committee Member  
 2012-2021 UAB-BVA Psychology Training Committee (PTC) Member  
 2010-2012 Neuropsychology Case Conference Coordinator

### EDITORIAL BOARD MEMBERSHIP/REVIEWER

2021-2022 *Accident Analysis and Prevention* – Reviewer  
 2021-2022 *Aging and Mental Health* – Reviewer  
 2021-2022 *Journal of Cardiopulmonary Rehabilitation and Prevention* – Editorial Board  
 2015-Present *Journal of Cardiopulmonary Rehabilitation and Prevention* – Reviewer

### 2023 PEER-REVIEW

Apr 13, 2023 JCRP-D-23-00076, Qualitative Insights from Patients and Providers Regarding a Behavioral Sleep and Circadian Intervention for Cardiac Rehabilitation for the Journal of Cardiopulmonary Rehabilitation and Prevention.

### GRANTING AGENCY BOARD/REVIEWER

2015 Retirement Research Foundation – Grant Proposal Reviewer  
 RRF Proposal #2015-127 *Everyday Memory Clinic- Revised* - Submitted July 2, 2015

### MAJOR RESEARCH INTERESTS: (2-3 Sentences)

**Transferring Speed of Processing Gains to Everyday Cognitive Tasks after Stroke.** The goal is to test in adults with chronic cognitive impairment after stroke whether a set of behavioral techniques, adapted from CI Movement therapy, for transferring therapeutic gains from the treatment to everyday setting enhances the scope, size, and durability of gains in carrying out everyday tasks with important cognitive components observed after speed of cognitive processing training. Name of PD/PI: Edward Taub - Source of Support: National Institute of Aging (NIA), National Institutes of Health, NIH. Role: Co-investigator, Funding: 10% effort.

**AI4CHRON – An Accessible and Inclusive Artificial Intelligence Assisted Chronic Disease Self-Management Telehealth Platform.** To develop, test and optimize an accessible and inclusive artificial intelligence (AI) assisted chronic disease self-management platform for people with disabilities. The goal of this project is to create an online chronic disease self-management program for people with disabilities that is accessible, inclusive, scalable and sustainable. Name of PD/PI: Mohanraj Thirumalai - Source of Support: National Institute on Disability, Independent Living, and Rehabilitation Research. Role: Co-investigator, Funding: 10% effort.

**Comparative Effectiveness of In-person and Telehealth Cardiac Rehabilitation.** Study of the comparative effectiveness of In-person Cardiac Rehabilitation (CR) and Telehealth CR in diverse patients with chronic heart disease at multiple health systems. Additionally, this research will study factors influencing implementation of and participation in Telehealth CR. Name of PD/PI: Alexis Beatty - Source of Support: PCORI Grant. Role: MCNAIR Study Stakeholder Advisory Board.

**Randomized Clinical Trial of Self-Guided App-Based Cognitive Behavioral Therapy for Functional Movement Disorders.** Examines feasibility and noninferiority of app-based iCBT compared with self-guided CBT and the superiority to app-based psychoeducation (iEDU) in patients with chronic FMD delivered daily over 10 weeks. Feasibility of delivering a chatbot-enhanced iCBT application will be adherence to the treatment program using the Medical Outcomes Study Measures of Patient Adherence instrument. Efficacy of a chatbot-enhanced iCBT will be the Simplified Functional Movement Disorders Rating Scale (S-FMDRS) and health-related quality of life as measured by the Medical Outcomes Study Short Form (SF-36). *PROPOSED* - Name of PD/PI: Protocol PI: Alberto Espay, MD, MSc - Source of Support: NIH NeuroNEXIS. Role: Site PI, Funding: % Effort.

**Brain Health Advocacy Mission (BHAM) Registry.** An individualized brain health program which aims to help people improve and maintain their brain health for both the present and for the future. BHAM is focused on engaging, empowering, and educating diverse populations about their brain health for healthy aging and memory loss prevention through meaningful connections in the community and in primary care clinics. BHAM incorporates 12 evidence-based modifiable lifestyle behaviors, habits and conditions (expansion of Life's Simple 7) that impact the brain. The study uses a brain care score tool, a nurse investigator and other brain health champions/coaches. BHAM is personalized for each participant who works with a "brain coach" to develop healthy target(s) based on what's important to the participant in the specific community in which they live, work and play. *PROPOSED* - Name of PD/PI: Protocol PI: Ron Lazar, Ph - Source of Support: McKnight Brain Research Foundation. Role: Co-investigator, Funding: % Effort.

**Establishment of an Interdisciplinary FND Treatment Clinic and Development of a Clinical Care Pathway for FND.** Engaged in a effort to formalize treatment referral and scheduling processes for UAB patients with FND. The goal of a clinical care pathway is to make the scheduling process for treatment less confusing for the referring providers and the patients and to have patients seen as quickly as possible. Data collection efforts for research projects will also be included in this process. Name of PD/PI: Aaron Fobian, PHD – UAB HSF-General Endowment Fund grant. Role: Clinical Provider.

## **STUDENT SUPERVISION**

Graduate Study and Clinical Practice: Teach, observe and guide/supervise graduate students' clinical practica and psychology interns' clinical rotations involving both assessment and intervention among inpatient/outpatient rehabilitation population at Spain Rehabilitation Center.

Graduate School Committee Member

2018-2022 Cheyenne Barba, UAB Medical Psychology Doctoral Students  
 2017-2021 Tyler Bull, UAB Medical Psychology Doctoral Students  
 2015-2017 Alec Owen, UAB Medical Psychology Doctoral Students  
 2014-2017 Jesse Passler, UAB Medical Psychology Doctoral Students  
 2014-2017 Lauren Bolden, UAB Medical Psychology Doctoral Students  
 2014-2017 Amber Gregory, UAB Medical Psychology Doctoral Students

Graduate School Committee Chair

2021-2023 Jason Blake, Medical Psychology Doctoral Students  
 2018-2022 Sara Sims, Medical Psychology Doctoral Students  
 2018-2022 Christina DiBlasio, UAB Medical Psychology Doctoral Students  
 2015-2017 Kelsey Campbell, UAB Medical Psychology Doctoral Students

Clinical Research: Research mentor for students, dissertation and thesis committee memberships.

Research Supervisor

2017-2018 Elise Tran, UAB School of Medicine, PM&R Resident  
 2016 Anezi Uzendu, UAB School of Medicine, Cardiology Fellow  
 2015 Justin Owens, UAB School of Medicine, Visiting Medical Summer Student  
 2014-2015 Tripp Ference, UAB School of Medicine, Medical Student

Undergraduate Honors Thesis Committee

2018 Altamish Daredia, UAB Honors College, Science and Technology Honors Program

Master Thesis Committee

2020-2021 Jason Blake, UAB College of Arts and Sciences, Medical-Psychology  
 2017-2018 Tyler Bull, UAB College of Arts and Sciences, Medical-Psychology

Dissertation Committee

2021-2023 Jason Blake, UAB College of Arts and Sciences, Medical-Psychology  
 2018-2020 Tyler Bull, UAB College of Arts and Sciences, Medical-Psychology  
 2017-2018 Amber Gregory, UAB College of Arts and Sciences, Medical-Psychology  
 2017-2018 Caroline Lassen-Greene, UAB College of Arts and Sciences, Medical-Psychology  
 2017-2018 Nate Harnett, UAB College of Arts and Sciences, Behavioral Neuroscience

**TEACHING EXPERIENCE:**

|            | <b>Course</b>                             | <b>Role</b> | <b>Level</b>                                |
|------------|-------------------------------------------|-------------|---------------------------------------------|
| 10/19/2022 | Capacity evaluation for return to driving | Lecturer    | Outpatient Speech Txt<br>In-service Lecture |
| 8/10/2022  | Neuropsychology on the Stroke Service     | Lecturer    | PM&R Resident<br>Didactic Lecture           |

|             |                                                                       |                   |                                                                            |
|-------------|-----------------------------------------------------------------------|-------------------|----------------------------------------------------------------------------|
| 10/12/2021  | Neuropsychology on the Stroke Service                                 | Lecturer          | PM&R Resident Didactic Lecture                                             |
| Spring 2021 | Human Neuropsychology (PY 720)                                        | Course Director   | UAB Medical-Psychology                                                     |
| Fall 2020   | Neuropsychology on the Stroke Service                                 | Lecturer          | PM&R Resident Didactic Lecture                                             |
| Fall 2019   | Neuropsychology on the Stroke Service                                 | Lecturer          | PM&R Resident Didactic Lecture                                             |
| Spring 2019 | Human Neuropsychology (PY 720)                                        | Course Director   | UAB Medical-Psychology                                                     |
| 10/24/2017  | Rehabilitation Psychology: Adjustment Issues Post-Injury              | Lecturer          | UAB Medical-Psychology                                                     |
| 7/6/2017    | SHPEP – Summer Health Professional Enrichment Program - Biopsychology | Course Instructor | Medical-Health Science Undergraduates                                      |
| 10/17/2017  | Psychology in the Medical Setting                                     | Lecturer          | UAB/VA Clinical Psychology Intern Consortium                               |
| Spring 2017 | Human Neuropsychology (PY 720)                                        | Course Director   | UAB Medical-Psychology                                                     |
| 10/16/2016  | Psychology in the Medical Setting                                     | Lecturer          | UAB/VA Clinical Psychology Intern Consortium                               |
| 10/19/2015  | Psychology in the Medical Setting                                     | Lecturer          | UAB/BVAMC Clinical Psychology Intern Consortium                            |
| Spring 2015 | Human Neuropsychology (PY 720)                                        | Course Director   | UAB Medical-Psychology Graduate Program                                    |
| 10/20/2014  | Psychology in the Medical Setting                                     | Lecturer          | UAB/BVAMC Clinical Psychology Intern Consortium                            |
| 03/07/2014  | Professional Development & Clinical Research Pathways                 | Lecturer          | Neuroscience Colloquium for UAB Undergraduate Neuroscience Program         |
| 08/05/2013  | Motor & Sensory Pathways of the Brain Stem & Spinal Cord (PY/NBL 356) | Lecturer          | Introduction to Neuroscience II for UAB Undergraduate Neuroscience Program |
| 04/22/2013  | Neuropsychology of Gender, Race, Ethnicity, Culture (PY 720)          | Lecturer          | Neuropsychology for UAB Medical-Psychology                                 |
| 04/15/2013  | Neuropsychology of Normal Aging, Delirium, Dementia (PY 720)          | Lecturer          | Neuropsychology for UAB Medical-Psychology                                 |

|           |                         |             |                                        |
|-----------|-------------------------|-------------|----------------------------------------|
| 2012-2014 | Gross Anatomy Brain Lab | Lab Proctor | Neuroanatomy for<br>Medical-Psychology |
|-----------|-------------------------|-------------|----------------------------------------|

**MAJOR LECTURES AND VISITING PROFESSORSHIPS:** None

## **GRANT SUPPORT: (PAST AND CURRENT)**

### UAB Clinical Research Scholarship – Principle Investigator - Present

2013-2020 Functional Neurorecovery Pilot Grant - UAB Department of PM&R, *Mediation of Pathological Stress Response in Prefrontal-Amygdala Circuitry following Acute Medical Trauma*, Principal Investigators: Amy Knight, PhD & David C. Knight, PhD – ongoing small grant activity

### UAB Clinical Research Scholarship – Principle Investigator - Past

2013-2014 Faculty Development Grant - UAB Office of the Provost and School of Medicine, Department of PM&R, *Neurobiological Stress Response in Acute Medical Trauma*, Principal Investigator: Amy Knight, PhD

### UAB Clinical Research Scholarship – Collaborator - Present

2017-2018 *Neurocognitive outcomes following treatment of unruptured intracranial aneurysms: Craniotomy with clipping versus endovascular treatment*. PI: Paul Foreman, MD UAB Neurosurgery); Role: Co-Investigator

### UAB Clinical Research Scholarship - Collaborator-Past

2010-2012 Post-Doctoral Fellowship funded by NIH/NIA R01 AG021927-06 *Functional Change in Mild Cognitive Impairment (COINS-2)* PI: Daniel Marson, JD PhD, Role: Co-investigator.

## **BIBLIOGRAPHY**

### Manuscripts (peer reviewed)

Evans, E, Zengul, S, Knight, A, Willig, A, Cherrington, A, Mehta, T, Thirumalai, M (2023). My Health, My Life, My Way—An Inclusive Web-Based Self-management Program for People With Disabilities Living With Chronic Conditions: Protocol for a Multiphase Optimization Strategy Study. *JMIR Research Protocols*.

Dark, H. E., Harnett, N. G., Knight, A. J., & Knight, D. C. (2021). Hippocampal volume varies with acute posttraumatic stress symptoms following medical trauma. *Behavioral Neuroscience*. 135(1):71-78. PMID: 33856844

Harnett NG, Ference EW 3rd, Knight AJ, Knight DC. (2020) White matter microstructure varies with post-traumatic stress severity following medical trauma. *Brain Imaging Behav*. 14(4):1012-1024. PMID: 30519996

Harnett, N. G., Wood, K. H., Ference, E. W. III, Reid, M. A., Lahti, A. C., Knight, A. J. & Knight D.C. (2017). Glutamate/glutamine concentrations in the dorsal anterior cingulate vary



with Post-Traumatic Stress Disorder symptoms. *Journal of Psychiatric Research* (91): 169-176. PMID: 28478230

Harnett, N. G., Ference III, E. W., Wood, K. H., Wheelock, M. D., Knight, A. J., and Knight, D. C. (2018). Trauma exposure acutely alters neural function during Pavlovian fear conditioning. *Cortex*, 109, 1-13. PMID: 30265859

Harnett, N. G., Ference III, E. D., Knight, A. J., and Knight, D. C. (In Press). White matter microstructure varies with post-traumatic stress severity following medical trauma. *Brain Imaging and Behavior*. PMID: 30519996

#### Invited Articles & Manuscripts (non-peer reviewed)

Knight, Amy (September, 2023) Alzheimer's Disease: What You Need to Know. *UAB Medicine Office of Wellness - World Alzheimer's Month. Take 5 Tuesday Newsletter*; Social media channels Instagram, LinkedIn (9/26/2023), *UAB Key Updates for Physicians and APPs* (10/10/2023).

Evans E, Zengul A, Subhash Chilke T, Knight A, Willig A, Cherrington A, Mehta T, Thirumalai M. (2023) Intervention Fidelity Protocol and dashboard for My Health, My Life, My Way: A telehealth behavioral intervention for chronic disease self-management in adults with physical disabilities. *JMIR Preprints*. 05/10/2023 preprint:53410

Knight, A. (July/Aug 2017). Behavioral Aspects of Rehabilitation – Improve Adherence in Your Cardiac Rehabilitation Program Through Behavioral and Nutrition Services. *AACVPR News & Views*.

Knight, A. (Aug/Sept 2015). A Good Night's Sleep: Recommendations for Clinical Practice. *AACVPR News & Views*.

Knight, A. (Dec 2014/Jan 2015). Pillow Talk: Discussing Sex and Intimacy with Our Patients. *AACVPR News & Views*.

Knight, A. & Marson, D. (Summer 2012). The Emerging Neuroscience of Financial Capacity. *Generations: Journal of the American Society of Aging* 36(2): 46-52.

#### Book Chapters

Harnett, N. G., Wood, K. H., \*Wheelock, M. D., Knight, A. J., and Knight, D. C. (2017). Anticipation and the Neural Response to Threat. In M. Nadin (Ed.), *Anticipation and Medicine* (pp. 219-228). Cham, Switzerland: Springer International Publishing.

Marson, D., Triebel, K. & Knight, A. (2012). Assessment of Financial Capacity: A Neuropsychological Perspective. In G.J. Demakis (Ed.), *Civil Capacities in Clinical Neuropsychology* (pp. 39-68). New York, NY: Oxford University Press.

#### Published abstracts

Uzendu, A., Knight, A., Davies, J., Singh, S., Leesar, M., Jernigan, L., Booker, O., Sasse, M., Alli, O. (2017). Dementia associated with longer hospital and intensive care unit stay in patients undergoing transcatheter aortic valve replacement. Cardiovascular Research Technologies annual scientific meeting in Washington, DC.

Copeland, J., Triebel, K., Lahti, A., Deutsch, G., Kennedy, R., Knight, A., McKinley, E., & Marson, D.C. (2014). Cortical Thickness and Financial Capacity in Amnesic Mild Cognitive Impairment. 42nd Annual Meeting of the International Neuropsychological Society.

### Poster Presentations

Bolaram, A., Purcell, J.B., Dark H.E., Grey D.K., Knight A.J., & Knight D.C. (2022). *Threat controllability modulates the neural reactivity during Pavlovian fear conditioning*. Society for Neuroscience (SfN) 2022, San Diego, CA, United States.

Bolaram, A., Purcell, J. B., Dark, H. E., Grey, D. K., Knight, A. J., & Knight, D. C. (2021). Predictability and controllability alter neural reactivity to threat. Presented at the Advanced Alabama Imaging Consortium Retreat. Virtual Presentation.

Nelson, L. R., Bolaram, A., Purcell, J. B., Dark, H. E., Grey, D. K., Knight, A. J., & Knight, D. C. (2021). Anticipatory brain activity during Pavlovian fear conditioning is modulated by the controllability of threat. Poster presented at the UAB Undergraduate Research Summer Expo. Birmingham, Alabama.

Bolaram, A., Purcell, J. B., Dark, H. E., Grey, D. K., Knight, A. J., & Knight, D. C. (2021). Predictability and controllability alter neural reactivity to threat. Poster presented at the Society for Neuroscience Annual Conference, Chicago, IL.

Nelson, L. R., Bolaram, A., Purcell, J. B., Dark, H. E., Grey, D. K., Knight, A. J., & Knight, D. C. (2021). Anticipatory brain activity during Pavlovian fear conditioning is modulated by the controllability of threat. Poster presented at the Society for Neuroscience Annual Conference, Chicago, IL.

Bull, T.P., A.E Jacob, B.O. Randolph, & A.J. Knight (February 2020). *Predicting Driving Risk with the D-KEFS TMT in Adults Following Stroke*. Poster presented at the International Neuropsychology Society (INS), Denver, C.O.

Dark HE, Harnett NG, Knight AJ, Knight DC. (2019 - Fall). Cortical and subcortical brain volume vary with acute posttraumatic stress symptoms after a medical trauma. Poster session presented at the Society for Neuroscience Annual Conference, Chicago, IL.

Lipari, N. R., Dark, H. E., Harnett, N. G., Knight, A. J. & Knight, D. C. (2019 - Fall). Relationships between White Matter Microstructure, Neurochemistry, and Conditioned Fear Responses in Posttraumatic Stress. Poster presentation at the Annual Biomedical Research Conference for Minority Students (ABRCMS), Anaheim, CA.

Dark, H. E., Harnett, N. G., Knight, A. J., Knight, D. C. (2019). Hippocampal and amygdala volume vary with post-traumatic stress symptoms. International Neuropsychological Society annual meeting, New York City.

Zegarra, C.A., Dark, H.E., Harnett, N.G., Knight, A.J., Knight, D.C. (2019). Posttraumatic Stress and Grey Matter Volume of the Brain. Poster presented at the University of Alabama at Birmingham Ost Undergraduate Research Competition, Birmingham, AL.

Zegarra, C.A., Dark, H.E., Harnett, N.G., Knight, A.J., Knight, D.C. (2019). Posttraumatic Stress and Grey Matter Volume of the Brain. Poster presented at the UAB Undergraduate Research Spring Expo. Birmingham, Alabama.

Lipari, N. R., Dark, H. E., Harnett, N. G., Knight, A. J. & Knight, D. C. (2019). Relationships between White Matter Microstructure, Neurochemistry, and Conditioned Fear Responses in Posttraumatic Stress. Poster presentation at the University of Alabama Summer Expo, Birmingham, AL.

Fahey, A.M., Mrug, S., Clay, O., Thomspson, M., Knight, A.J., Novack, T. (2018, June). Trajectory of Orientation and Cognition of Moderate and Severe TBI in Acute Rehabilitation. Poster accepted for presentation at the 4<sup>th</sup> Federal Interagency Conference on Traumatic brain Injury, Washington, D.C.

Harnett, N. G., Ference, E. W., Wood, K. H., Reid, M. A., Wheelock, M. D., Lahti, A. C., Knight, A. J., & Knight, D. C. (November, 2017). Human Functional, Structural, and Biochemical Neuroimaging of Acute Post-Traumatic Stress. Poster presented at the 47th Annual Meeting of the Society for Neuroscience. Washington, D.C.

Ference, E. W., Harnett, N. G., Wheelock, M. D., Wood, K. H., Thetford, P. C., Setliff, M. R., Knight, D. C., & Knight, A. J. (2016, February). Learning-Related Changes in the Functional MRI Response to Fear Conditioning after Acute Medical Trauma. Poster presented at 2016 Association of Academic Psychiatrists Annual Meeting, Sacramento, CA.

Ference, E. W., Harnett, N. G., Wheelock, M. D., Wood, K. H., Thetford, P. C., Setliff, M. R., Knight, D. C., & Knight, A. J. (2015, September). Learning-Related Changes in the Functional MRI Response to Fear Conditioning after Acute Medical Trauma. Poster presented at 2015 Southeastern Medical Student Symposium, Nashville, TN.

Ference, E, Harnett, N, Bishop, J, Setliff, M, Melton, S, Knight, D & Knight, A (April 2015). Contribution of demographics and psychological risk factors to the expression of acute stress reactivity in the inpatient setting following acute medical trauma. Poster presented at 2015 American College of Physicians Internal Medicine Meeting. Boston, MA

Knight, A, Harnett, N, Wood, K, Wheelock, M, Bishop, J, Ference, E, Setliff, M, Melton, S, Novack, T, Pitts, A, & Knight, D (October 2014). Neurobiological Stress Response in Acute Medical Trauma. Poster presented at 2014 Faculty Development Grant Program (FDGP) Poster Session, University of Alabama at Birmingham.

Ference, E, Harnett, N, Bishop, J, Setliff, M, Melton, S, Knight, D & Knight, A (October 2014). Barriers to recruitment of patients with acute traumatic injury for neuroimaging studies. Poster presented at 2014 Dale J. Benos Medical Student Research Day, University of Alabama at Birmingham.

Ference, E, Harnett, N, Bishop, J, Setliff, M, Melton, S, Knight, D & Knight, A (October 2014). Contribution of demographics and psychological risk factors to the expression of acute stress reactivity in the inpatient setting following acute medical trauma. Poster presented at 2014 Dale J. Benos Medical Student Research Day. University of Alabama at Birmingham.

Knight, A. (February, 2001). *Contingency naming test as a measure of executive ability in visual attention*. Poster presented at annual meeting of the International Neuropsychological Society, Chicago, Illinois.

Knight, A. (April, 1999). *Visual attention to hierarchical stimuli*. Poster presented at Wisconsin Psychological Association spring conference, Oconomowoc, Wisconsin.

#### Oral Presentations – National

Biney, F., Uswatte, G., Taub, E., Ball, K., Lokken, K., Agnihotri, S., Mark, V., Knight, A., Mitchell, B., Blake, J., McKay, S., Miller, T., Pollard, E., Hempfling, P., Stanley, E., Lynam, C., Blagburn, K., Carroll, B., Qadri, S., & Cutter, G. (2023, August). Constraint-Induced Cognitive Therapy: a pilot RCT for treatment of brain fog after long COVID. In G. Uswatte (Chair), *Clearing Up The Fog: Neurobehavioral symptoms, brain fog, and rehabilitation of long COVID*. Symposium conducted at The Annual Convention of The American Psychological Association, Washington, D.C.

Uswatte, G., Taub, E., Ball, K., Lokken, K., Agnihotri, S., Mark, V., Knight, A., Mitchell, B., Blake, J., McKay, S., Miller, T., Pollard, E., Hempfling, P., Smith, M., Chatfield, R., Stanley, E., Lyman, C., Blagburn, K., Carroll, B., & Cutter, G. (2023, February). Initial application of Constraint-Induced Cognitive Therapy to long COVID Brain Fog. In G. Uswatte (Chair), Information Processing Speed: Applications to Cognitive Rehabilitation after Multiple Sclerosis, Stroke, and Long COVID. Symposium conducted at the International Neuropsychological Society 2023 Annual Meeting, San Diego, CA.

Taub, E., Uswatte, G., Ball, K., Mark, V., McKay, S., Mitchell, B., Blake, J., Knight, A., Lin, C., & Cutter, G. (2023, February). CI Cognitive Therapy: initial application in a pilot study to improve cognitive impairment in chronic stroke survivors. In G. Uswatte (Chair), Information Processing Speed: Applications to Cognitive Rehabilitation after Multiple Sclerosis, Stroke, and Long COVID. Symposium conducted at the International Neuropsychological Society 2023 Annual Meeting, San Diego, CA.

Knight, A. and Hays, Megan (February, 2022). *The Change Challenge: Stories and Strategies from Behavioral Health*. Oral Presentation for Scott Care Cardiovascular Solutions Spring Symposium. Virtual.

Knight, A. and Rasmussen, R. (March. 2021). *Heart Healthy Behavioral Guidelines for Home CR - Behavior Management, Nutrition, and Weight Management*. Webinar recording for CR/PR Remote Rehabilitation Bundle - American Association of Cardiovascular and Pulmonary Rehabilitation, Virtual.

Knight, A. (September 2021). *Psychotherapeutic Approaches for Functional Neurological Disorders, part of workshop series IC33: Rehabilitation for Functional Movement Disorders: The Works*. ACRM 98th Annual Conference, Virtual.

Knight, A. (March 2021). *Psychotherapeutic Approaches for Functional Neurological Disorders, part of workshop series: Rehabilitation for Functional Movement Disorders: The Works*. Spring Meeting, Virtual.

Knight, A. (October 2020). *Psychotherapeutic Approaches for Functional Neurological Disorders, part of workshop series IC27 Rehabilitation for Functional Movement Disorders: The Works*. ACRM 97th Annual Conference, Virtual.

Knight, A. & Levin, L. (September 2019). *Practical Suggestions for Positive Outcomes: The Benefits of Group Intervention for Cardiac and Pulmonary Patients*. Oral presentation at the American Association of Cardiovascular and Pulmonary Rehabilitation 31st Annual Meeting, Portland, OR.

Knight, A. (October 2017). *Roadmap to Reform-Improving Adherence*. (Pre-meeting workshop). Oral presentation at the American Association of Cardiovascular and Pulmonary Rehabilitation 31st Annual Meeting, Charleston, SC.

Knight, A. (October 2017). *The Rubber Hits the Road - Opportunities for change in CPR programs*. Oral presentation at the American Association of Cardiovascular and Pulmonary Rehabilitation 31st Annual Meeting, Charleston, SC

Knight, A. (March 2017). *Grassroots Strategies for Improving Adherence in Cardiopulmonary Rehabilitation*. Oral presentation at the American Association Cardiovascular and Pulmonary Rehabilitation - Day on the Hill annual policy meeting, Washington, DC.

Knight, A. (September 2015). *You already have the ability to offer high quality psychosocial service in your program. Here's how*. Oral presentation at the American Association of Cardiovascular and Pulmonary Rehabilitation 30<sup>th</sup> Annual Meeting, Washington, DC.

Knight, A. (September 2014). *In sickness and in health: The importance of relationship in behavioral change, stress management, and quality of life*. Oral presentation at the American Association of Cardiovascular and Pulmonary Rehabilitation 29<sup>th</sup> Annual Meeting, Denver, Colorado.

Knight, A. (February, 2012). *Functional connectivity and financial capacity in Alzheimer's disease*. Oral presentation at the 9<sup>th</sup> Annual UAB Postdoctoral Research Day, University of Alabama at Birmingham, Birmingham, Alabama.

Knight, A. (October, 1998). *Frontal lobe contributions in visual attention to hierarchical stimuli*. Oral presentation at the annual UWM Graduate Psychology Research Symposium, Milwaukee, Wisconsin.

Invited workshops at national postgraduate courses and meetings and at other universities

Knight, A. and Mark, Victor (Nov. 2021). *FND*. Oral presentation at the UAB Department of Physical Medicine and Rehabilitation Grand Rounds, Birmingham, Alabama.

Knight, A. (May 2021). Panelist. UAB Clinical Psychology Graduate Education Diversity Enhancement Workshop. Virtual

Knight, A. (January, 2007). *Medicare Care Management for High Cost Beneficiaries*. Oral presentation at the Harvard Interfaculty Program for Health Systems Improvement, Harvard University, Cambridge, Massachusetts.

Knight, A. (January, 2005). *Designing Medicare Pay-for-Performance in the Public Sector*. Oral presentation at the National Health Leadership Council Meeting for the National Business Coalition on Health, Miami, Florida.

Knight, A. (October, 2004). *Depression and Dementia in the Medicare Population: The Challenge for Disease Management*. Oral presentation at the Annual Conference of the Disease Management Association of America, Washington, DC.

Knight, A. (June, 2004). *Improving Health Outcomes for Medicare Beneficiaries – Medicare Demonstration Projects*. Oral presentation at the Disease Management Colloquium sponsored by Jefferson Medical College, Philadelphia, Pennsylvania.

Knight, A. (October, 2003). *Quality Initiatives at the Centers for Medicare and Medicaid Services*. Oral presentation at the National Convention of the American Health Information Management Association, Baltimore, Maryland.

Invited lectures at local and regional courses and meetings

Knight, A. (March, 2023). *Taking Action: Exploring Next Steps in Diversity, Equity and Inclusion*. Oral presentation at ISCHR, Illinois Regional Affiliate, Naperville, IL.

Knight, A. (March, 2023). *Value Based Care and Social Determinants of Health*. Oral presentation at SACPR, the Southern Association representing Alabama and Mississippi affiliates in Cardiovascular and Pulmonary Rehabilitation, Montgomery, Alabama.

Knight, A. (Nov, 2022). *National Update for AACVPR and Healthy Behaviors*. Oral presentation at MACVPR (Massachusetts Regional Affiliate), Virtual.

Knight, A. (March, 2022). *National Update for AACVPR and Healthy Behaviors*. Oral presentation at OCVPR (Ohio Regional Affiliate), Virtual.

- Knight, A. (April, 2022). *National Update for AACVPR and Healthy Behaviors*. Oral presentation at WISCPHR (Wisconsin Regional Affiliate), Virtual.
- Knight, A. (May, 2022). *National Update for AACVPR and Healthy Behaviors*. Oral presentation at MOKSACVPR (Missouri/Kansas Regional Affiliate), Virtual.
- Knight, A. and Knight, D. (May 2021) *Understanding Anxiety and Stress Disorders Following Traumatic Medical Events*. - Neuroscience Café, UAB Comprehensive Neuroscience Center, Virtual.
- Knight, A. (April, 2021). *Motivating Healthy Behaviors*. Oral presentation at WISCPHR (Wisconsin Regional Affiliate), Virtual.
- Knight, A. (April, 2021). *The Evidence of Intimacy*. Oral presentation at WISCPHR (Wisconsin Regional Affiliate), Virtual.
- Knight, A. (April, 2021). *Tips and Tricks from the Psychology of Change*. Oral presentation at MOKSACVPR (Missouri/Kansas Regional Affiliate), Virtual.
- Knight, A. and Rasmussen, R. (February 26, 2021). *Behavior and Nutrition Strategies for Sustainable Cardiac Health*. Oral presentation at the UAB Department of Physical Medicine and Rehabilitation Grand Rounds, Birmingham, Alabama.
- Knight, A. (April 4, 2019). *Remix version! The Power of Groups to Enhance Productivity and Outcomes – Part II*. Oral presentation at the Southern Association of Cardiovascular and Pulmonary Rehabilitation, Montgomery, Alabama.
- Knight, A. (April 3, 2018). *The Power of Groups to Enhance Productivity and Outcomes*. Oral presentation at the Ohio Cardiovascular and Pulmonary Rehabilitation annual regional meeting, Columbus, Ohio.
- Knight, A. (April 6, 2018). *The Power of Groups to Enhance Productivity and Outcomes*. Oral presentation at the Southern Association of Cardiovascular and Pulmonary Rehabilitation, Auburn, Alabama.
- Dark, H., Knight, A. (September 2017). *Chronic Traumatic Encephalopathy*. Presented at the UAB Neuropsychology Case Conference, Birmingham, Alabama.
- Passler, J., Knight, A. (June 2017). *Neuropsychological Syndromes in a Case of GBM*. Presented at the UAB Neuropsychology Case Conference, Birmingham, Alabama.
- Knight, A. and Knight D. (April 21, 2017). *Post-traumatic stress: Bench to Bedside*. Oral presentation at the UAB Department of Physical Medicine and Rehabilitation Grand Rounds, Birmingham, Alabama.
- Knight, A. (April 2017). *The evidence for intimacy*. Invited presentation at the Ohio Cardiovascular and Pulmonary Rehabilitation annual regional meeting, Columbus, Ohio.

Womble, B., Knight, A. (March 2017). *Becoming a board-certified neuropsychologist*. Presented at the UAB Neuropsychology Case Conference, Birmingham, AL.

Knight, A. (September 2016). *PTSD in the Acute Medical Setting*. Presented at the 18<sup>th</sup> Annual UAB Trauma Symposium, Birmingham, AL.

Knight, A. (November 2015). *The evidence for intimacy*. Keynote address at the Florida Cardiovascular and Pulmonary Rehabilitation annual regional meeting, Sarasota, Florida.

Rinker, J., Knight, A., Alsharabati, M., and Hamm, A. (September 2015). *Neurology CPC*. Oral presentation at the UAB Department of Neurology Grand Rounds, Birmingham, Alabama.

Knight, A. (March 2015). *Practical applications of motivation interviewing and cognitive behavioral principles on the path to behavioral change*. Oral presentation at the Southern Association of Cardiovascular and Pulmonary Rehabilitation, Hattiesburg, Mississippi.

Knight, A. (March 2015). *Motivation interviewing*. Lead round table discussion at the Southern Association of Cardiovascular and Pulmonary Rehabilitation, Hattiesburg, Mississippi.

Knight, A. (January 29, 2013). *Medicare reimbursement policies for neuropsychologists: Current topics in coverage, coding, documentation, and quality reporting efforts for 2013*. Oral presentation at the UAB Department of Neurology Grand Rounds, Birmingham, Alabama.

Knight, A. (September 18, 2012). *The Neuroscience of Numerosity: Exploring the Anatomical, Clinical & Functional Components of Numbers*. Oral presentation at the UAB Department of Neurology Grand Rounds, Birmingham, Alabama.

Knight, A. (September 11, 2012). *The neuropsychology of mathematics and implications for financial capacity in Alzheimer's disease*. Oral presentation at the UAB Neuropsychology Case Conference, Birmingham, Alabama.

Knight, A. (May, 2012). *Neurology Consults Psychiatry: A complex case of neurologic symptoms in the context of a longstanding psychiatric disorder*. Oral presentation at the UAB Neuropsychology Case Conference, Birmingham, Alabama.

Knight, A. (January, 2012). *Cerebellar Cognitive Affective Syndrome*. Oral presentation at the UAB Neuropsychology Case Conference, Birmingham, Alabama.

Knight, A. (October, 2011). *Middle Cerebral Artery Stroke*. Oral presentation at the UAB Neuropsychology Case Conference, Birmingham, Alabama.

Knight, A. (March, 2011). *The Brain's Default Mode Network*. Oral presentation at the UAB Neuropsychology Case Conference, Birmingham, Alabama.

Knight, A. (November, 2010). *Posterior Cortical Atrophy*. Oral presentation at the UAB Neuropsychology Case Conference, Birmingham, Alabama.



## Junghee Lee, Ph.D.

### Personal History

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**Current Position:** Geropsychiatry Research Chair of Psychiatry

Associate Professor

**Business address:** Department of Psychiatry & Behavioral Neurobiology

The University of Alabama at Birmingham

SC 1059, 1720 2<sup>nd</sup> Ave S

Birmingham AL 35294-0017

**Email:** jungheelee@uab.edu

**Business telephone:** 205-934-4245

**Web:** [www.nlofsb.org](http://www.nlofsb.org)

<https://scholar.google.com/citations?user=iTneN0kAAAAJ&hl=en>

Web of Science ResearcherID: C-5226-2014

<https://orcid.org/0000-0001-9567-8700>

**Citizenship:** Republic of Korea (permanent resident since March 2012)

### Education

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|                    |                                                                                                                                                            |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1992 – 1996        | <b>B.A. in Psychology</b><br>Dept of Psychology, Seoul National University, Seoul, Korea                                                                   |
| 1996 – 1999        | <b>M.A. in Clinical Psychology</b><br>Dept of Psychology, Seoul National University, Seoul, Korea                                                          |
| 2000 – 2005        | <b>Ph.D. in Clinical Neuroscience</b><br>Vanderbilt University, Nashville, TN USA<br>Advisor: Sohee Park, Ph.D.                                            |
| 2005 – August 2007 | <b>Post-doctoral Fellow</b><br>Semel Institute of Neuroscience and Human Behavior<br>David Geffen School of Medicine, University of California Los Angeles |

### Academic Positions

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|                       |                                                                                                                                                                       |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sept 2007 – June 2015 | <b>Assistant Research Psychologist</b><br>Dept of Psychiatry and Biobehavioral Sciences<br>David Geffen School of Medicine, University of California Los Angeles      |
| July 2015 – Feb 2020  | <b>Associate Research Psychologist</b><br>Dept of Psychiatry and Biobehavioral Sciences<br>David Geffen School of Medicine, University of California Los Angeles      |
| March 2020 –          | <b>Associate Professor</b><br><b>Geropsychiatry Research Chair</b><br>Dept of Psychiatry and Behavioral Neurobiology<br>The University of Alabama at Birmingham (UAB) |
| March 2020 –          | <b>Associate Professor</b><br>Dept of Neurobiology, UAB                                                                                                               |
| March 2020 –          | <b>Scientist</b><br>Comprehensive Neuroscience Center, UAB<br>Civitan International Research Center, UAB                                                              |
| June 2022 –           | <b>Scientist</b><br>Center for Clinical and Translational Science Center, UAB                                                                                         |

March 2023 –

**Scientist**

Evelyn McKnight Brain Institute, School of Medicine, UAB

**Research Interests**

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**General Areas:**

Social Cognitive and Affective Neuroscience  
Clinical Neuroscience

**Specific Topics:**

Social cognitive processes and related neural mechanisms in severe mental illness and medical illness  
Social preference/motivation in severe mental illness and medical illness  
Working memory and attentional processes  
Cognitive aging  
Neural basis of perceptual plasticity

**Professional Activities**

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**Professional affiliations:**

2006 – Member, Society for Research in Psychopathology (SRP)  
2010 – Member, Vision Science Society (VSS)  
2014 – Member, Society for Social Neuroscience (S4SN)  
2014 – 2021 Associate Member, American College of Neuropsychopharmacology (ACNP)  
2016– Member, Schizophrenia International Research Society (SIRS)  
2023– Member, Society of Biological Psychiatry (SOBP)

**Professional services for research societies and external institutions:**

2006 – 2009 Member, Web Development and Oversight Committee, SRP  
2007 – 2009 Chair, Web Development and Oversight Committee, SRP  
2016 Expert for Validation of the International Classification of Functioning, Disability and Health (ICF) Core Set for Schizophrenia, University of Barcelona, Spain  
2018 – 2020 Member, Women’s Task Force, ACNP  
2019 Member, Nominations Committee, SRP  
2020 – 2022 Member, Program Committee for the 2022 SIRS Meeting  
2021 Promotion and Tenure faculty review, Department of Psychiatry and Behavioral Medicine, University of Illinois College of Medicine  
2021– 2022 Dissertation Committee, Department of Psychology, Southern Methodist University  
2022– Member, Outreach subcommittee of Diversity, Equity and Inclusion Committee, SRP  
2022– Member, Mentorship subcommittee of Diversity, Equity and Inclusion Committee, SRP  
2022 Member, Smader Levin Award Committee, SRP  
2022 – Steering Committee, Alabama Advanced Imaging Consortium  
2022 Retreat Program Committee, Alabama Advanced Imaging Consortium  
2022 – Neuropsychology Working Group, UAB-MISS Multi-Center AIDS Cohort Study (MACS) / Women’s Interagency HIV Study (WIHS) Combined Cohort Study  
2022 – Psychosocial Behavior Working Group, UAB-MISS Multi-Center AIDS Cohort Study (MACS) / Women’s Interagency HIV Study (WIHS) Combined Cohort Study  
2023–2024 Communications Committee, SIRS  
2023–2024 Diversity Committee, SIRS  
2023–2024 Ethics Committee, SIRS

2023—2024 2024 Program Committee, SIRS  
2023 Secretary-Elect, SRP

**Professional services for the University of Alabama at Birmingham:**

2020 – Co-Chair, Neuroimaging Pillar, Comprehensive Neuroscience Center  
2021 – Diversity, Equity and Inclusion Committee, Department of Psychiatry and Behavioral Neurobiology  
2022 Admissions Committee for Medical/Clinical Psychology Program, Dept of Psychology  
2022 Search Committee for School of Medicine-Psychiatry-Clinical Research Psychologist  
2023 – Director, Imaging Research in Center of Depression and Suicide, Dept of Psychiatry  
2023 Admissions Committee for Medical/Clinical Psychology Program, Dept of Psychology  
2023 – 2025 Steering Committee, Civitan International Neuroimaging Laboratory, UAB  
2023 Faculty Search Committee, Dept of Psychology

**Grant review: Standing member for the following funding agency**

2022—2026 NIH Adult Psychopathology and Disorders of Aging (APDA) Study Section

**Grant review: Ad-hoc member for the following funding agency**

2014 The Austrian Academy of Science, Austria  
Experimental and Translational Medicine Research Committee for the Scottish Government Chief Scientist Office, Scotland  
2016 Netherlands Institute for Advance Study, Netherlands  
2017 Israel Scientific Foundation, Israel  
Polish Scientific Foundation, Poland  
Wellcome Trust, United Kingdom  
2018 Israel Scientific Foundation, Israel  
Polish Scientific Foundation, Poland  
VA ORD Mental Health & Behavioral Sciences-B (MHBB), USA  
2019 Polish Scientific Foundation, Poland  
2020 Israel Scientific Foundation, Israel  
2021 NIH Adult Psychopathology and Disorders of Aging (APDA) Study Section  
2022 Feb/June NIH Neural Basis of Psychopathology, Addictions and Sleep Disorders (NPAS) Study Section  
2022 NIA Special Emphasis Panel/Scientific Review Group, ZAG1 JIJ-9 (02)  
2024 NSF Reviewer

**Editorial Board/Consulting Editor for the following scientific journals:**

2011 – present *Journal of Psychopathology and Clinical Science* (formerly known as *Journal of Abnormal Psychology*)  
2017 – present *Neuropsychology*  
2018– 2020 *Schizophrenia Bulletin*  
2021 – present *Clinical Psychological Science*

**Honors and Special Awards**

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2000—2004 University Graduate Fellowship at Vanderbilt University  
2002 Young Scientist Award, the 11<sup>th</sup> Biennial Winter Workshop on Schizophrenia in Davos, Switzerland  
2002 Fellowship Summer Workshop in fMRI Informatics at Dartmouth College  
2002 Honorable Mention for Smadar Levin Award, SRP in San Francisco, CA

|      |                                                                                                                   |
|------|-------------------------------------------------------------------------------------------------------------------|
| 2003 | Honorable mention for Smadar Levin Award, SRP in Ontario, Canada                                                  |
| 2009 | Young Investigator Award, the 12 <sup>th</sup> International Congress on Schizophrenia Research in San Diego, CA. |
| 2013 | Young Investigator Award, Brain & Behavior Research Foundation                                                    |
| 2022 | CNC Pilot Award in the Multi-Pi category (co-awardee: Nina Kraguljac, MD)                                         |

## Research Grants

### Pending:

R01 MH135451 **Lee**, Lahti & Kraguljac (MPI) (Impact score of 32; recommended for funding at the Council meeting on Sep 7, 2023)

12/01/2023—11/30/2027

National Institute of Mental Health

Multidimensional aging trajectories in mid- to late-life psychosis (MAP)

This project aims to address existing knowledge gaps in age-related changes in schizophrenia-spectrum disorders and to identify actionable targets for novel interventions designed to ameliorate, or even prevent, aberrant aging in schizophrenia-spectrum disorders.

Role: *Contact PI*

### Current:

R01 MH129351-A1 **Lee**, Green & Nuechterlein (MPI)

01/01/2023—10/31/2027

National Institute of Mental Health

\$2,463,562 (total direct cost)

Determining the role of social reward learning in social anhedonia in first-episode psychosis using motivational interviewing as a probe in a perturbation-based neuroimaging approach

This project aims to advance our understanding of the underlying mechanisms of social anhedonia by probing a process that is hypothesized to be central to social anhedonia: disrupted social reward learning.

Role: *Contact PI*

R01 MH113856-A1 **Lee** (PI)

06/01/2018 – 02/28/2024 (NCE)

National Institute of Mental Health

\$1,933,906 (total direct cost)

Disrupted Social Preference in Early Psychosis: A Longitudinal Multimodal Neuroimaging Study

This project evaluates a theoretical model in which disrupted social preference and NMDAR hypofunction are crucial to our understanding of social impairment in schizophrenia.

Role: *PI*

UAB Comprehensive Neuroscience Center MPI Pilot Award **Lee** and Kraguljac (MPI)

The University of Alabama at Birmingham

10/01/2022—09/30/2023

Brain Aging and Cognitive Aging Across the Lifespan in Schizophrenia

Role: *Contact PI*

### Completed:

R21 MH102567 **Lee** (PI)

7/01/2014 – 06/30/2016 (NCT through 06/30/2017)

National Institute of Mental Health

\$275,000 (total direct cost)

Social Preference System and Social Cognition in Schizophrenia

This project focuses on a core feature of social information processing, the social preference system (SPS), and aims to evaluate whether a disrupted SPS is a plausible underlying factor for social cognitive impairment in SZ at both behavioral and neural levels.

Role: *Principal Investigator*

VA Merit Review Wynn (PI) 01/01/2019-12/31/2022  
 Department of Veterans Affairs \$1,159,474 (total direct cost)  
 Affective Neuroscience of Motivation in Schizophrenia and Bipolar Disorder  
 Role: *Co-Investigator*

R01 MH110470 Green (PI) 07/01/2016 – 06/30/2021  
 National Institute of Mental Health \$386,043 (direct cost per year)  
 The Determinants of Social Disconnectedness: A spectrum from the General Community to Severe Mental Illness  
 This project will evaluate social processing constructs from the NIMH RDoC Project to identify determinants of social disconnectedness (SD) in mental illness and people with SD from the community.  
 Role: *Co-Investigator*

2I50RX001875 VA Research Enhancement Award Program (REAP) Green (PI) 05/01/2015 – 09/30/2020  
 Department of Veterans Affairs \$314,885 (direct cost per year)  
 Enhancing Community Integration for Homeless Veterans  
 This project aims to build an interdisciplinary center that is linked to the homeless program at Veterans Affairs Greater Los Angeles Healthcare System (GLA) and to generate intervention and translational research to improve community integration for homeless Veterans.  
 Role: *Co-Investigator*

R01 MH107422 Horan (PI) 07/01/2015 – 06/30/2020  
 National Institute of Mental Health \$359,384 (direct cost per year)  
 Social Affiliation in Psychosis: Mechanisms and Vulnerability factors  
 This project examines whether disturbances in two key components of the RDoC affiliation construct, the social approach and avoidance systems of the brain, contribute to the social disability associated with psychosis.  
 Role: *Co-Investigator*

R01 MH095878 Green (PI) 07/07/2012 – 06/30/2018  
 National Institute of Mental Health \$427,031 (direct cost per year)  
 Visual Tuning and Performance in Schizophrenia and Bipolar Disorder  
 This project is designed to test a theory about the neural basis for visual perception problem in schizophrenia and bipolar disorder.  
 Role: *Co-Investigator*

NARSAD Young Investigator Grant Lee (PI) 01/15/2013 – 01/14/2016  
 Brain & Behavior Research Foundation \$59,573 (total direct cost)  
 fMRI Biomarkers of Social Cognitive Training in Psychoses  
 This project aims to identify biomarkers of social cognitive skills training in individuals with psychoses by assessing neural activations related to new social cognitive paradigms – a Facial Affect Recognition Task for facial affect perception and a Belief Attribution Task for mental state attribution – in the scanner at baseline and at 12-week endpoint of the treatment.  
 Role: *Principal Investigator*

HHSN 2712012000071 New Experimental Medicine Studies: Fast-Fail Trials in Psychotic Spectrum (FAST-PS) Marder (site PI) 08/29/2015 – 08/31/2017  
 NIMH/Research Foundation of Mental Hygiene Inc. \$718,618 (total cost per year)

Biomarker Assessment of Pomaglumetad on Glutamate Targets: Proof of Clinical Mechanism of Action (POCM)  
This project aims to assess the effects of an mGluR2/3 partial agonist at selected doses on ketamine-stimulated prefrontal blood flow as measured by BOLD fMRI.

Role: *Co-Investigator*

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|---------------------------------------------------|---------------------------------|
| R01 MH087618-01A1 Green (PI)                      | 09/01/2010 – 02/28/2014         |
| National Institute of Mental Health               | \$1,622,617 (total direct cost) |
| Social cognition and functioning in schizophrenia |                                 |
| Role: <i>Co-Investigator</i>                      |                                 |

|                                                                                                       |                               |
|-------------------------------------------------------------------------------------------------------|-------------------------------|
| Clinical Trial – Subcontract (Kopelowicz)                                                             | 04/01/2011 – 6/30/2013        |
| Sunovion/RFMH                                                                                         | \$516,255 (total direct cost) |
| Clinical and Biomarker Assessment of Efficacy of Cognitive Remediation in Patients with Schizophrenia |                               |
| Stabilized on Lurasidone                                                                              |                               |
| Role: <i>MRI specialist</i>                                                                           |                               |

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|------------------------------------------------------|---------------------------------|
| RC1 MH089634 Green (PI)                              | 10/01/2009 - 09/30/2011         |
| National Institute of Mental Health                  | \$1,416,795 (total direct cost) |
| Social Cognition and Functioning in Bipolar Disorder |                                 |
| Role: <i>Co- Investigator</i>                        |                                 |

|                                                                     |                                 |
|---------------------------------------------------------------------|---------------------------------|
| R01 MH43292 Green (PI)                                              | 05/01/2006 - 04/30/2011         |
| National Institute of Mental Health                                 | \$1,703,074 (total direct cost) |
| Early Visual Processing in Schizophrenia (competitive continuation) |                                 |
| Role: <i>Co- Investigator</i>                                       |                                 |

|                                                                                          |                               |
|------------------------------------------------------------------------------------------|-------------------------------|
| Clinical Trial: AQW051 Marder (PI)                                                       | 09/25/2008 - 06/30/2010       |
| Novartis                                                                                 | \$286,133 (total direct cost) |
| AQW051 for the Treatment for Learning and Memory Problems for Persons with Schizophrenia |                               |
| Role: <i>Co- Investigator</i>                                                            |                               |

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|--------------------------------------------------------------------------|-----------------------------|
| VISN 22 MIRECC Pilot Grant <b>Lee</b> (PI)                               | 01/01/2007 – 01/01/2008     |
| VISN 22 Mental Illness Research, Education and Clinical Centers (MIRECC) | \$9,000 (total direct cost) |
| Neural Mechanisms of Mental State Attribution in Schizophrenia           |                             |
| Role: <i>Principal Investigator</i>                                      |                             |

### Invited Talks, Colloquia and Symposia

#### 2002

- Colloquium, Dept of Psychology, Seoul National University, Seoul, Korea, June

#### 2004

- Talk, Annual Meeting of Society of Biological Psychiatry, New York, NY, May  
- Invited seminar, Dept of Psychology, Seoul National University, Seoul, Korea, June

#### 2006

- Invited seminar, Dept of Psychiatry, Seoul National University Medical School, Seoul, Korea, August

- Invited seminar, Dept of Psychiatry, Inje University Ilsan Paik Hospital, Goyang-si, Korea, August
- Invited Lecture, Dept of Psychology, University of Southern California, CA

**2007**

- Talk, International Congress on Schizophrenia Research, Colorado Springs, CO,
- Invited Lecture, Dept of Psychology, University of Southern California, CA

**2008**

- Invited seminar, Dept of Psychiatry, Tokyo University, Tokyo, Japan
- Invited seminar, Dept of Psychology, University of California Los Angeles, Los Angeles, CA, January
- Talk, Pacific Rim College of Psychiatrists Scientific Meeting, Tokyo, Japan, October

**2009**

- Invited lecture, Dept of Psychiatry, University of California Los Angeles, Los Angeles, CA, February
- Talk, International Congress on Schizophrenia Research, San Diego, CA, March

**2010**

- Invited seminar, Dept of Psychiatry, Seoul National University Medical School, Seoul, Korea, July

**2011**

- Talk, International Congress on Schizophrenia Research, Colorado Springs, CO, April
- Invited seminar, Dept of Psychology, Korea University, Seoul, Korea, September

**2012**

- Talk, Society for Research in Psychopathology, Ann Arbor, MI, October

**2013**

- Talk, International Congress on Schizophrenia Research, Orlando, FL, April
- Invited seminar, Dept of Psychiatry, Yonsei University Medical School, Seoul, Korea, October
- Symposium (Presenter), Autumn Conference for Korean Society for Schizophrenia Research, Seoul, Korea, October
- Colloquium, Dept of Psychology, Yonsei University, Seoul, Korea, October
- Invited seminar, Dept of Psychology, Korea University, Seoul, Korea, October

**2014**

- Symposium (Presenter), Society for Social Neuroscience, Washington DC, December

**2015**

- Talk, International Congress on Schizophrenia Research, Colorado Springs, CO, April
- Invited seminar, Dept of Psychology, University of California Los Angeles, Los Angeles CA, October

**2016**

- Symposium (Presenter), Schizophrenia International Research Society, Florence, Italy, April
- Symposium (Presenter), CINP World Congress of Neuropsychopharmacology, Seoul, Korea, July
- Mini Panel (Presenter), American College of Neuropsychopharmacology, Hollywood, FL, December

**2017**

- Symposium (Chair and Presenter), International Congress on Schizophrenia Research, San Diego, CA, March

- Invited seminar, Dept of Psychology, University of California Los Angeles, Los Angeles, CA, April

## 2019

- Grand Rounds, Dept of Psychiatry, University of Alabama Birmingham, Birmingham, AL, March
- Invited talk, Gordon Research Conference on Cognitive Dysfunction in Brain Disease, Hong Kong, May

## 2020

- Invited Talk, Alabama Advanced Imaging Consortium Brain Imaging Retreat (virtual due to COVID), July

## 2021

- VA Desert-Pacific MIRECC Scientific Symposium on Motivation (virtual due to COVID), February
- Invited Talk, Alabama Advanced Imaging Consortium Brain Imaging Retreat (virtual due to COVID), July

## 2022

- Grand Rounds (Virtual due to COVID), Department of Psychiatry, University of Michigan, MI, February
- Talk, Society for Research in Psychopathology, Philadelphia, PA, September

## 2023

- Invited Lecture, Korean Neuropsychological Association (virtual), February
- Symposium (Chair), Schizophrenia International Research Society, Toronto, Canada, May
- Panelist, Career Development Panel, Society for Research in Psychopathology, St. Louis, MO, September

## Peer-Reviewed Publications

1. **Lee, J.**, Kang, Y., & Na, D. L. (2000). Efficiencies of Stroop Interference Indexes in healthy older adults and dementia patients. *Korean Journal of Clinical Psychology*, 19(4), 807-818.
2. Chey, J., **Lee, J.**, Kim, Y. S., Kwon, S. M. & Shin, Y. M. (2002). Spatial working memory span, delayed response, and executive function in schizophrenia. *Psychiatry Research*, 110(3), 259-271.
3. **Lee, J.** & Park, S. (2005). Working memory impairments in schizophrenia: A meta-analysis. *Journal of Abnormal Psychology*, 114(4), 599-611.
4. **Lee, J.**, & Park, S. (2006). The role of stimulus salience in CPT-AX performance of schizophrenia patients. *Schizophrenia Research*, 81(2-3), 191-197.
5. **Lee, J.**, Kwon, J. S., Shin, Y-W., Lee, K. J., & Park, S. (2007). Visual self-recognition in schizophrenia patients. *Schizophrenia Research*, 94(1-3), 215-220.
6. Wynn, J. K., **Lee, J.**, Horan, W. P., & Green, M. F. (2008). Using event-related potentials to explore stages of facial affect recognition deficits in schizophrenia. *Schizophrenia Bulletin*, 34(4), 679-687. PMCID: PMC2632462.
7. **Lee, J.**, Folley, B. F., Gore, J., & Park, S. (2008). Origins of spatial working memory deficits in schizophrenia: An event-related fMRI and near-infrared spectroscopy. *PLoS One*, 3(3), e1760. PMCID: PMC2257999.
8. Wynn, J. K., Green, M. F., Engel, S., Korb, A., **Lee, J.**, Glahn, D., Nuechterlein, K. H., & Cohen, M. S. (2008). Increased extent of object-sensitive cortex in schizophrenia. *Psychiatry Research: Neuroimaging*, 164(2), 97-105. PMCID: PMC2683746.



9. **Lee, J.**, Nuechterlein, K. H., Subotnik, K. L., Sugar, C. A., Ventura, J., Gretchen-Doorly, D., Kelly, K., & Green, M. F. (2008). Stability of visual masking performance in recent-onset schizophrenia: An 18-month longitudinal study. *Schizophrenia Research*, 103(1-3), 266-274. PMCID: PMC2859819.
10. Horan, W. P., Nuechterlein, K. H., Wynn, J. K., **Lee, J.**, Castelli, F., & Green, M. F. (2009). Disturbances in the spontaneous attribution of social meaning in schizophrenia. *Psychological Medicine*, 39(4), 635-643. PMCID: PMC2903627.
11. Kerns, B. S., Green, M. F., Fiske, A. P., Kee, K. S., **Lee, J.**, Sergi, M. J., Horan, W. P., Subotnik, K. L., Sugar, C. A., & Nuechterlein, K. H. (2009). Theory of mind deficits for processing counterfactual information in persons with chronic schizophrenia. *Psychological Medicine*, 39(4), 645-654. PMCID: PMC2928136.
12. Kee, K. S., Horan, W. P., Salovey, P., Kern, R. S., Sergi, M. J., Fiske, A. P., **Lee, J.**, Subotnik, K. S., Nuechterlein, K., Sugar, C. A., & Green, M. F. (2009). Emotional intelligence in schizophrenia. *Schizophrenia Research*, 107(1), 61-68. PMCID: PMC Journal – In Process.
13. Green, M., **Lee, J.**, Cohen, M. S., Engel, S., Korb, A., Nuechterlein, K. H., Wynn, J. K., & Glahn, D. (2009). Functional neuroanatomy of visual masking deficits in schizophrenia. *Archives of General Psychiatry*, 66(12), 1295-1303. PMCID: PMC2907419.
14. Raj, V., Liang, H., Woodward, N. D., Baurenfeind, A. L., **Lee, J.**, Dietrich, M., Park, S., & Cowan, R. L. (2010). MDMA (Ecstasy) use is associated with reduced BOLD signal change during semantic recognition in abstinent human polydrug users: a preliminary fMRI study. *Journal of Psychopharmacology*, 24(2), 187-201. PMCID: PMC3198867.
15. Horan, W. P., Rassovsky, Y., Kern, R. S., **Lee, J.**, Wynn, J. K., & Green, M. F. (2010). Further support for the role of dysfunctional attitudes in models of real-world functioning in schizophrenia. *Journal of Psychiatry Research*, 44(8), 499-505. PMCID: PMC3414437.
16. **Lee, J.**, Cohen, M. S., Engel, S. A., Glahn, D., Nuechterlein, K. H., Wynn, J. K., & Green, M. F. (2010). Regional brain activity during early visual perception in unaffected siblings of schizophrenia patients. *Biological Psychiatry*, 68, 79-85. PMCID: PMC2921272.
17. Harvey, P-O, **Lee, J.**, Cohen, M. S., Engel, S. A., Glahn, D. C., Nuechterlein, K. H., Wynn, J. K., & Green, M. F. (2011). Altered dynamic coupling during visual perception in schizophrenia. *Neuroimage*, 55(3), 1219-1226. PMCID: PMC3049854.
18. Rassovsky, Y., Horan, W. P., **Lee, L.**, Sergi, M. J., Green, M. F. (2011). Pathways between early visual processing and functional outcome in schizophrenia. *Psychological Medicine*, 41(3), 487-497. PMCID: PMC Journal – In Process.
19. Quintana, J., **Lee, J.**, Marcus, M., Kee, K. S., Won, T., & Yerevanian, A. (2011). Brain dysfunctions during facial discrimination in schizophrenia: selective association to affect decoding. *Psychiatry Research: Neuroimaging*, 191(1), 44-50. PMCID: PMC Journal – In Process.
20. **Lee, J.**, Zaki, J., Harvy, P-O, Ochsner, K., & Green, M. F. (2011). Schizophrenia patients are impaired in empathic accuracy. *Psychological Medicine*, 41(11), 2297-2304. PMCID: PMC3928128.

21. Harvey, P-O, **Lee, J.**, Horan, W. P., Ochsner, K., & Green, M. F. (2011). Do patients with schizophrenia benefit from a self-referential memory bias? *Schizophrenia Research*, 127(1-3), 171-177. PMCID: PMC3050992.
22. **Lee, J.**, Gosselin, F., Wynn, J. K., & Green, M. F. (2011). How do schizophrenia patients use visual information for decoding facial emotion? *Schizophrenia Bulletin*, 37(5), 1001-1008. PMCID: PMC3160215.
23. Green, M. F., **Lee, J.**, Wynn, J. K., & Mathis, K. I. (2011). Visual masking in schizophrenia: Overview and implications for theories of aberrant visual processing. *Schizophrenia Bulletin*, 37(4), 700-7008. PMCID: PMC3122285.
24. **Lee, J.**, Quintana, J., Nori, P., & Green, M. F. (2011). Theory of Mind in Schizophrenia: Exploring neural mechanisms of belief attribution. *Social Neuroscience*, 6(5-6), 569-581. PMCID: PMC3928144.
25. Horan, W. P., Green, M. F., DeGroot, M., Fiske, A., Helleman, G. S., Kee, K., Kern, R. S., **Lee, J.**, Sergi, M. J., Subotnik, K. L., Sugar, C. A., Ventura, J., & Nuechterlein, K. H. (2012). Social cognition in schizophrenia, Part2: 12-month stability and prediction of functional outcome in first episode patients. *Schizophrenia Bulletin*, 38(4), 865-872. PMCID: PMC03406537.
26. Green, M. F., Bearden, C. E., Cannon, T. D., Fiske, A., Helleman, G. S., Horan, W. P., Kee, K., Kern, R. S., **Lee, J.**, Sergi, M. J., Subotnik, K. L., Sugar, C. A., Ventura, J., Yee, C. M., & Nuechterlein, K. H. (2012). Social cognition in schizophrenia, Part 1: Performance across phases of illness. *Schizophrenia Bulletin*, 38(4), 854-864. PMCID: PMC3406534.
27. Green, M. F., Helleman, G., Horan, W. P., **Lee, J.**, & Wynn, J. K. (2012). From perception to functional outcome in schizophrenia: modeling the role of ability and motivation. *Archives of General Psychiatry*, 69(12), 1216-1224. PMCID: PMC3976993.
28. Harvey, P-O., Zaki, J., **Lee, J.**, Ochsner, K., & Green, M. F. (2013). Neural substrates of empathic accuracy in people with schizophrenia. *Schizophrenia Bulletin*, 39(3), 617-628. PMCID: PMC3627780.
29. Watkins, T., Vidya, R., **Lee, J.**, Dietrich, M., Cao, A., Blackford, J., Salomon, R., Park, S., Benningfield, M., Di Iorio, C., & Cowan, R. (2013). Human ecstasy (MDMA) polydrug uses have altered brain activation during semantic processing. *Psychopharmacology*, 227(1), 41-54. PMCID: PMC3615064.
30. **Lee, J.**, Altshuler, L., Glahn, D. C., Miklowitz, D. J., Ochsner, K., & Green, M. F. (2013). Social and non-social cognition in bipolar disorder and schizophrenia: Relative levels of impairment. *American Journal of Psychiatry*, 70(3), 334-341. PMCID: PMC3869864.
31. Rassovsky, Y., **Lee, J.**, Nori, P., Wu, A. D., Iacoboni, M., Breitmeyer, B. G., Helleman, G., & Green, M. F. (2013). Assessing temporal processing of facial emotion perception with transcranial magnetic stimulation. *Brain and Behavior*, 3(3), 263-272. PMCID: PMC3683286.
32. **Lee, J.**, Kern, R. S., Harvey, P-O., Horan, W. P., Kee, K. S., Ochsner, K., Penn, D. L., & Green, M. F. (2013). An intact social cognitive process in schizophrenia: Situational context effects on perception of facial affect. *Schizophrenia Bulletin*, 39(3), 640-647. PMCID: PMC3627776.

33. Davis, M. C., **Lee, J.**, Horan, W. P., Clarke, A. D., McGee, M. R., Green, M. F., & Marder, S. R. (2013). Effects of single dose intranasal oxytocin on social cognition in schizophrenia. *Schizophrenia Research*, 147(2-3), 393-397. PMCID: PMC3627776.
34. Green, M. F., **Lee, J.**, & Ochsner, K. N. (2013). Adapting social neuroscience measures for schizophrenia clinical trials, Part 1: Ferry paradigms across perilous waters. *Schizophrenia Bulletin*, 39(6), 1192-1200. PMCID: PMC3796092.
35. Kern, R. S., Penn, D. L., **Lee, J.**, Horan, W. P., Reise, S. P., Ochsner, K. N., Marder, S. R., & Green, M. F. (2013). Adapting social neuroscience measures for schizophrenia clinical trials, Part 2: Trolling the depths of psychometric properties. *Schizophrenia Bulletin*, 39(6), 1201-1210. PMCID: PMC3796089.
36. Olbert, C. M., Penn, D. L., Kern, R. S., **Lee, J.**, Horan, W. P., Reise, S. P., Ochsner, K. N., Marder, S. R., & Green, M. F. (2013). Adapting social neuroscience measures for schizophrenia clinical trials, Part 3: Fathoming external validity. *Schizophrenia Bulletin*, 39(6), 1211-1218. PMCID: PMC3796091.
37. Reddy, L. F., **Lee, J.**, Davis, M. C., Altshuler, L., Glahn, D. C., Miklowitz, D. J., & Green, M. F. (2014). Impulsivity and risk-taking in bipolar disorder and schizophrenia. *Neuropsychopharmacology*, 39(2), 456-463. PMCID: PMC3870783.
38. **Lee, J.**, Cohen, M. S., Engel, S. A., Glahn, D., Nuechterlein, K. H., Wynn, J. K., & Green, M. F. (2014). Neural substrates of visual masking by object substitution in schizophrenia. *Human Brain Mapping*, 35(9), 4654-4662. PMCID: PMC6716599.
39. Davis, M. C., Green, M. F., **Lee, J.**, Horan, W., Senturk, D., Clarke, A. D., & Marder, S. R. (2014). Oxytocin-augmented social cognitive skills training in schizophrenia. *Neuropsychopharmacology*, 39(9), 2070-2077. PMCID: PMC4104336.
40. Horan, W. P., Iacoboni, M., Cross K. A., Korb, A., **Lee, J.**, Nori, P., Quintana, J. Wynn, J. K., & Green, M. F. (2014). Self-reported empathy and neural activity during action imitation and observation in schizophrenia. *Neuroimage: Clinical*, 23(5), 100-108. PMCID: PMC4087183.
41. Hamilton, H. K., Sun, J. C., Green, M. F., Kee, K. S., **Lee, J.**, Sergi, M., Sholty, G. L., Mathis, K. I., Jetton, C., Williams, T. J., Kern, R., Horan, W. P., Fiske, A., Subotnik, K. L., Helleman, G. S., Nuechterlein, K. H., & Yee, C. M. (2014). Social cognition and functional outcome in schizophrenia: The moderating role of cardiac vagal tone. *Journal of Abnormal Psychology*, 123(4), 764-770. PMCID: PMC4227946.
42. Rassovsky, Y., **Lee, J.**, Nori, P., Wu, A. D., Iacoboni, M., Breitmeyer, B. G., Helleman, G. S., & Green, M. F. (2014). Exploring facial emotion perception in schizophrenia using transcranial magnetic stimulation and spatial filtering. *Journal of Psychiatry Research*, 58, 102-108. PMCID: PMC-In Progress.
43. **Lee, J.**, Green, M. F., Calkins, M. E., Greenwood, T. A., Gur, R. E., Gur, R. C., Lazzeroni, L. C., Light, G. A., Nuechterlein, K. H., Radant, A. D., Seidman, L. J., Siever, L. J., Silverman, J. M., Sprock, J., Stone, W. S., Sugar, C. A., Swerdlow, N. R., Tsuang, D. W., Tsuang, M. T., Turetsky, B. I., & Braff, D. L. (2015). Verbal working memory in schizophrenia from the Consortium on the Genetics of Schizophrenia (COGS) study: The moderating role of smoking status and antipsychotic medications. *Schizophrenia Research*, 163(1-3), 24-31. PMCID: PMC4368500.

44. McCleery, A., **Lee, J.**, Joshi, A., Wynn, J. K., Helleman, G. S., & Green, M. F. (2015). Meta-analysis of face processing event-related potentials in schizophrenia. *Biological Psychiatry*, 77, 116-126.
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96. Riedel, P., **Lee, J.**, Watson, C. G., Jimenez, A. M., Reavis, E. A., & Green, M. F. (2022). Reorganization of the functional connectome from rest to task in schizophrenia and bipolar disorder. *Psychiatry Research: Neuroimaging*, 327, 111556.
97. Tabak, B. A., Wallmark, Z., Nghiem, L., Alvi, T., Sunahara, C. S., **Lee, J.**, & Cao, J. (2023). Initial evidence for a relation between behaviorally assessed empathic accuracy and affect sharing for people and music. *Emotion*, 23. 437-449.
98. Abplanalp, S. J., **Lee, J.**, Horan, W. P., Kern, R. S., Penn, D. L., & Green, M. F. (2023). A Bayesian Network Approach to social and nonsocial cognition in schizophrenia: Are some domains more fundamental than others? *Schizophrenia Bulletin*, 49, 997-1006.
99. Thakkar, K. N., McCleery, A., Minor, K. S., **Lee, J.**, Humpston, C. S., Chopik, W. J., Burt, S. A., Pearson, A. L., Ungar, M., & Park, S. (2023). Moving from risk to resilience in psychosis research. *Nature Reviews Psychology*, doi.org/10.1038/s44159-023-00205-9.
100. Jimenez, A. M., Clayson, P. E., Hasratian, A. S., **Lee, J.**, Reavis, E. A., Wynn, J. K., Green, M. F., & Horan, W. P. (2023). Neuroimaging of social motivation during winning and losing: associations with social anhedonia across the psychosis spectrum. *Neuropsychologia*, 188, 108621.
101. Alvi, T., Rosenfield, D., Sunahara, C. S., Wallmark, Z., **Lee, J.**, & Tabak, B. A. (in press). Examining unique associations of social anxiety and depression on behaviorally assessed affective empathy. *Clinical Psychological Science*.
102. Wynn, J. K., Clayson, P. F., Green, M. F., Jimenez, A., **Lee, J.**, Reavis, E. A., & Horan, W. P. (in press) Neurophysiological indices of face processing in people with psychosis and first-degree relatives: An event-related potential study. *European Journal of Neuroscience*.
103. Catalano, L. T., Wynn, J. K., Eisenberger, N. I., Horan, W. P., **Lee, J.**, McCleery, A., Miklowitz, D. J., Reavis, E. A., Reddy, L. F., & Green, M. F. (in press). An ERP study of face processing in schizophrenia, bipolar disorder and socially isolated individuals from the community. *Clinical EEG & Neuroscience*.

### Manuscripts under review

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1. Green, M. F., Wynn, J. K., Eisenberger, N. I., Horan, W. P., **Lee, J.**, McCleery, A., Miklowitz, D. J., Reavis, E. A., & Reddy, L. F. Social cognition and social motivation in schizophrenia and bipolar disorder: Are impairments due to the disorder or social isolation?



2. Vance, D. E., Billings, R., Chapman Lambert, C., Fazeli, P. L., Goodin, B., Kempf, M-C., Rubin, L. H., Turan, B., Wise, J., & **Lee, J.** A systematic review of social cognition in HIV: Implications of non-social cognition, stigma, and social everyday functioning.
3. Brown, C., De Coster, L., **Lee, J.**, Lin, L., Mathalon, D. H., & Woolley, J. D. Maternal care predicts neural and behavioral effects of oxytocin administration during in empathic accuracy in schizophrenia and controls.
4. McCleery, A. M., Hellemann, G. S., & **Lee, J.** Taking a deeper look at the relationship between cognition and daily functioning in bipolar disorder: A multilevel meta-analytic review.

### Commentaries and Book Chapters

1. Park S. & **Lee, J.** (2002). Spatial working memory function in schizophrenia. In: Lenzenweger, M. F., & Hooley, J. M. (Eds.), *Principles of Experimental Psychopathology*. Washington, D. C.: American Psychological Association.
2. Park, S., **Lee, J.**, Folley, B. F., & Kim, J. (2003). Schizophrenia: Putting context in context. *Behavioral and Brain Science*, 26(1), 98-99.
3. Green, M. F., **Lee, J.**, & Kern, R. S. (2009). Neurocognitive assessment for psychiatric disorders. In Nestler, E. J., & Charey, D. S. (Eds.), *Neurobiology of Mental Illness*, 3<sup>rd</sup> Edition. Oxford University Press, USA.
4. Green, M. F., & **Lee, J.** (2012). Neural bases of emotional experience versus perception in schizophrenia. *Biological Psychiatry*, 71(2), 96-97.
5. **Lee, J.**, Horan, W. P., & Green, M. F. (2015). Social cognition in schizophrenia: Where We Are and Where We Are Going. In Keshavan, M., Schutt, R. K., & Seidman, L. J., (Eds.), *Social Neuroscience: Mind, Brain, and Society*. Harvard University Press, USA.
6. Green, M. F., **Lee, J.**, Wynn, J. K. (2020). Experimental approach to social disconnection in the general community: can we learn from schizophrenia research. *World Psychiatry*, 19, 177-178.
7. Freeman, H. B. & **Lee, J.** (2023). Sex differences in Cognition in Schizophrenia: what we know and what we do not know. *Current Topics in Behavioral Neurosciences*, 63, 463-474.

### Mentoring Experience

#### Postdoctoral fellows/early career investigators at University of California Los Angeles and VISN 22 MIRECC

|           |                      |
|-----------|----------------------|
| 2012—2016 | Amanda McCleery, PhD |
| 2015—2020 | Amy J. Jimenez, PhD  |
| 2015—2019 | Eric A. Reavis, PhD  |
| 2015—2020 | Yvonne Yang, PhD/MD  |
| 2018—2020 | Lauren Catalano, PhD |

#### Graduate students:

|              |                                                            |
|--------------|------------------------------------------------------------|
| 2021—present | Hyun Bin Freeman (Clinical/Medical Psychology), UAB        |
| 2021—present | Julia Julien (Behavioral Neuroscience), UAB                |
| 2023—present | A. Maria Stanica (Clinical/Medical Psychology), UAB        |
| 2023—present | Erika Botello Esquivel (Graduate Biomedical Sciences), UAB |

**Medical students:**

2023—present Molly Stricken, UAB

**Qualifying Examine and Dissertation Committees for graduate students**

2022 Devon K. Grey (Behavioral Neuroscience), UAB; Member  
 2023 Tori King (Behavioral Neuroscience), UAB; Member  
 2023 Natalie Remiszewski (Graduate Biomedical Science), UAB; Chair  
 2023 Matheus Teles Gomes de Araujo (Behavioral Neuroscience), UAB; Member

**External Committee Member for graduate students**

2022 Talha Alvi (Clinical Psychology), Southern Methodist University, Texas, USA

**Undergraduate students at the University of Alabama at Birmingham**

2020—present Pranav Kanchanam  
 2021 Shravya Kanchanapally  
 2022—present Ethan William Rupp

**Teaching Experience**

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2001 Fall Teaching Assistant in General Psychology (Psy 101)  
 2002 Spring Teaching Assistant in Cognitive Psychology (Psy 225)  
 2002 Fall Teaching Assistant in Principles of Experimental Design (Psy 208)  
 2004 Spring Teaching Assistant in Biological Basis of Mental Disorders (Psy 235)  
 2004 Fall Teaching Assistant in Abnormal Psychology (Psy 215)

**FORMAT FOR  
STANDARDIZED CURRICULUM VITAE  
University of Alabama at Birmingham  
School of Medicine Faculty**

Date: November 27, 2023

**PERSONAL INFORMATION**

Name: Elizabeth Kathleen Lucas

Citizenship: United States of America

Foreign Language(s): Spanish (elementary)

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**HOSPITAL AND OTHER (NON ACADEMIC) APPOINTMENTS:**

Scientist, Civitan International Research Center

Associate Scientist, Center for Outcomes & Effectiveness in Research & Education

Scientist, Comprehensive Neuroscience Center

Scholar, Center for Clinical & Translational Science

Member, Nathan Shock Center for Excellence in the Basic Biology of Aging

Investigator, McKnight Brain Institute

Affiliated Faculty, Graduate Biomedical Sciences

**PROFESSIONAL CONSULTANTSHIPS:** None

**EDUCATION:**

| <b>Year</b> | <b>Degree</b>                 | <b>Institution</b>                  |
|-------------|-------------------------------|-------------------------------------|
| 2011        | Ph.D. Behavioral Neuroscience | University of Alabama at Birmingham |
| 2005        | B.S. Psychology               | University of Alabama at Birmingham |

**MILITARY SERVICE:** None

**LICENSURE:** None

**BOARD CERTIFICATION:** None

**POSTDOCTORAL TRAINING:**

| <b>Year</b> | <b>Degree</b> | <b>Institution</b>                      |
|-------------|---------------|-----------------------------------------|
| 2012-2017   | N/A           | Icahn School of Medicine at Mount Sinai |

**ACADEMIC APPOINTMENTS: (In reverse chronological order)**

| Year         | Rank/Title                                                                                                                  | Institution                         |
|--------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| 2022-present | Assistant Professor<br>Psychiatry & Behavioral Neurobiology (primary)<br>Neurobiology (Secondary)<br>Psychology (Secondary) | University of Alabama at Birmingham |
| 2022-present | Adjunct Assistant Professor                                                                                                 | North Carolina State University     |
| 2018-2022    | Assistant Professor                                                                                                         | North Carolina State University     |
| 2016-2017    | Adjunct Instructor                                                                                                          | New York University                 |

**AWARDS/HONORS:**

2019 Brain & Behavior Research Foundation NARSAD Young Investigator Award  
2019 Winter Conference on Brain Research Travel Award  
2019 W.M. Keck Center for Behavioral Neurobiology Travel Award  
2019 NC State University College of Veterinary Medicine Intramural Research Grant  
2016 Society for Neuroscience Trainee Professional Development Award  
2014 New York Academy of Science Education Fellowship  
2012 Postdoctoral National Research Training Award in Mental Health  
2011 Outstanding Graduate Student of the Year in Behavioral Neuroscience  
2008 Civitan International Emerging Scholar Award  
2005 B.S. awarded *Summa Cum Laude* with presidential honors every semester

**PROFESSIONAL SOCIETIES:**

2022 Organization for the Study of Sex Differences  
2021 Society for Behavioral Neuroendocrinology  
2020 Pavlovian Society  
2020 Women in Learning  
2016 Molecular and Cellular Cognition Society  
2007 Society for Neuroscience

**MEMBERSHIPS:** None**COUNCILS AND COMMITTEES:**

2023-present Program Committee, Winter Conference on Brain Research  
2021-2023 National Institutes of Health, LMDN Study Section, *ad hoc* member  
2020 National Institutes of Health, LAM Study Section, *ad hoc* member

**UNIVERSITY ACTIVITIES:**

2023-present Alternate Member, Institutional Animal Care and Use Committee, UAB  
2023-present Member, Graduate Biomedical Sciences – Neuroscience Theme  
Admissions Committee, UAB  
2023-present Member, Mental Illness T32 Admissions Committee, UAB  
2023-present Member, Mental Illness T32 Curriculum Committee, UAB  
2023 Reviewer, Comprehensive Neuroscience Center Pilot Grants, UAB  
2023 Focus Table Leader, Comprehensive Neuroscience Center Annual Retreat,  
UAB  
2023 Interviewer, Behavioral Neuroscience Graduate Program, UAB  
2023 Interviewer, Psychiatry Research Resident Program, UAB

|           |                                                                                           |
|-----------|-------------------------------------------------------------------------------------------|
| 2023      | Poster Judge, Behavioral Neurobiology Annual Retreat, UAB                                 |
| 2022      | Poster Judger, Comprehensive Neuroscience Center Annual Retreat, UAB                      |
| 2021-2022 | Member, Department of Molecular Biomedical Sciences Diversity & Inclusion Committee, NCSU |
| 2020-2021 | Chair, Neurobiology Search Committee, Department of Molecular Biomedical Sciences, NCSU   |
| 2019-2022 | Reviewer, Office of Undergraduate Research Awards, NCSU                                   |
| 2019-2020 | Member & Reviewer, Grants Committee, Department of Molecular Biomedical Sciences, NCSU    |
| 2019-2020 | Member, Symposium Organizing Committee, Center for Human Health and the Environment, NCSU |
| 2019-2020 | Member, Retreat Committee, Department of Molecular Biomedical Sciences, NCSU              |
| 2019      | Course Peer Reviewer, Department of Molecular Biomedical Sciences                         |
| 2019      | Coordinator, CBS Neuroscience concentration student recruitment, NCSU                     |
| 2018-2022 | Member, Neuroscience Steering Committee, NCSU                                             |
| 2018-2022 | Reviewer, Center for Human Health and the Environment Pilot Awards                        |
| 2018-2022 | Reviewer, NC Translational and Clinical Services Institute, NCSU                          |
| 2018-2020 | Coordinator, Neuroscience Work-in-Progress Seminar Series, NCSU                           |
| 2018      | Member, Neurobiology Search Committee, Department of Molecular Biomedical Sciences, NCSU  |
| 2018      | Poster Judge, W.M. Keck Center for Behavioral Biology Annual Retreat, NCSU                |
| 2016-2017 | Member, Mount Sinai Neuroscience Seminars Organizing Committee, ISMMS                     |
| 2014-2017 | Member, Mount Sinai Neuroscience Outreach Program, ISMMS                                  |

**EDITORIAL BOARD MEMBERSHIPS:** None.

**MAJOR RESEARCH INTERESTS: (2-3 Sentences)**

My research program investigates how the biology underlying sex differences drives behavioral susceptibility to mental illness across the lifespan. I am particularly in mechanisms by which reproductive hormones guide negative valence behaviors relevant to anxiety, post-traumatic stress disorder, and age-related affective decline. Through implementation of a multidisciplinary systems-based approach, my long-term goal is to harness my mechanistic discoveries to pioneer new therapeutic avenues for the sex-specific treatment of mental illness and age-related affective decline.

**TEACHING EXPERIENCE:**

**Courses Directed**

|           |                                                                       |
|-----------|-----------------------------------------------------------------------|
| 2016      | Advanced Cell 2 (BMS 4324, ~25 students), NYU                         |
| 2010      | Elementary Statistical Methods/Design Lab (PY 217, ~20 students), UAB |
| 2008-2009 | Laboratory to Introductory Statistics (PY 716-L, ~12 students), UAB   |

**Modules Directed**

|           |                                                                                     |
|-----------|-------------------------------------------------------------------------------------|
| 2019-2021 | Neuroscience, Fundamentals in Comparative Biomedicine (CBS 565, ~30 students), NCSU |
|-----------|-------------------------------------------------------------------------------------|

2018-2020      Synaptic Plasticity, Learning & Memory, Fundamentals of Neuroscience  
(CBS/BIO 705, ~25 students), NCSU

### **Guest Lectures**

2020-2021      Hormones & Behavior (BIO 434, ~20 students), NCSU  
2019-2022      Biology of Mental Illness (BIO 483, ~15 students), NCSU  
2019-2022      Cell Biology Seminar (CBS 810, ~12 students), NCSU  
2018-2019      Human & Biomedical Genetics (GB 441/541, ~30 students), NCSU  
2015            Neuroscience Core 2 (~18 students), ISMMS  
2014-2015      Glutamate in Health & Disease (Neuro 305, ~15 students), Wellesley  
College

### **Mentoring**

‡ Denote trainee accomplishments

#### Role as faculty mentor for postdoctoral fellows:

1. Nina Baumgartner, Ph.D., Postdoctoral Fellow, NCSU & UAB, 2021-present  
‡ 1<sup>st</sup> place poster prize at the annual Behavioral Neurobiology Retreat, 2023  
‡ 1<sup>st</sup> place poster prize at the Annual Comprehensive Neuroscience Center Retreat, 2023
2. Sreetama Basu, Ph.D., Postdoctoral Fellow, NCSU, 2018-2019  
‡ 3<sup>rd</sup> place poster prize at the 8th Annual NCSU Postdoctoral Research Symposium, 2019

#### Role as faculty mentor for Psychiatry research residents:

1. Peter Teravskis, M.D., J.D, PGY-2 Resident, UAB, 2021-present

#### Role as faculty mentor for master's students (\*indicates those completing a thesis):

1. Molly McNulty\*, ABM Multidisciplinary Biomedical Science, UAB, 2023-present
2. May Rudd\*, ABM Multidisciplinary Biomedical Science, UAB, 2022-present
3. Amy Farthing\*, Comparative Biomedical Sciences, NCSU, 2020-2022  
‡ 2<sup>nd</sup> place poster prize at the annual NCSU CVM Research Forum, 2021
4. Alexandra Yankoglu, Physiology, NCSU, 2020-2022
5. Kristen Adcock, Genetics, NCSU, 2020-2021  
‡ Best poster prize at the annual Triangle Chapter Society for Neuroscience meeting, 2021  
‡ Honorable mention poster prize at the annual NCSU CVM Research Forum, 2021

#### Role as faculty mentor for undergraduate students (\*indicates those completing a thesis):

1. Kaitlyn Griggs, Psychology & Criminology, UAB, 2023-present
2. Audrey Dahlen\*, Neuroscience, UAB, 2023-present
3. Neysa Dechachutinan\*, Neuroscience, UAB, 2023-present
4. Dara Russell, Biology & Philosophy, UAB, 2022-2023
5. Gavin Newberry, Neuroscience, UAB, 2022-2023  
‡ 1<sup>st</sup> place poster prize (tie) in the biological and life sciences category at the annual UAB Expo, 2023
6. Amuktha Dasari, Neuroscience, UAB, 2022-2023  
‡ 1<sup>st</sup> place poster prize (tie) in the biological and life sciences category at the annual UAB Expo, 2023
7. Anna Rose, Communication Media & Cognitive Science, NCSU, 2022
8. Gaven Bell\*, Biological Sciences, NCSU, 2021-2023
9. Dalia Escobar, Animal Science, Chancellor's Leadership Development Program, NCSU, 2021-2022

10. Hugh Johnson, Biological Sciences, NCSU, 2022  
‡ *Awarded CVM Summer Research Fellowship in 2021*
11. Kamryn du Plesses\*, Biological Sciences, NCSU, 2020-2022  
‡ *Selected as T34 undergraduate training grant scholar, 2020-2022*  
‡ *Awarded the Society for Neuroscience Trainee Professional Development Award, 2021*  
‡ *Best poster prize at the annual NCSU Comparative Medicine Institute summit, 2021*  
‡ *Awarded the Society for Behavioral Neuroendocrinology Travel Award, 2022*  
‡ *Best undergraduate poster award at the Society for Behavioral Neuroendocrinology, 2022*
12. Dylan McDonald, Psychology & Human Biology, NCSU, 2020-2021
13. Arkady Bilenkin, Biological Sciences, NCSU, 2019-2020
14. Elizabeth Kennelly, Chemistry, NCSU, 2019-2020
15. Averie Bunce, Biological Science, NCSU, 2018-2021  
‡ *Awarded 2019-2020 academic year grant from the Office of Undergraduate Research*  
‡ *Awarded CVM Summer Research Fellowship in 2019 and 2020*
16. Kenny Hlewicki, Animal Science, NCSU, 2018-2020
17. Ka'ayla Jones, Psychology, NCSU, 2018-2019
18. Arabelis Wally, Biological Sciences, NCSU, 2018
19. Kylee Brown, Biological Sciences, NCSU, 2018

Role as faculty advisor for DVM students:

1. Frank Fialkiewicz III, Small Animal, NCSU, 2020-2022
2. Damien Friedman, Small and Exotic, NCSU, 2020-2022
3. Hannah Lathom, Food Animal Medicine, NCSU, 2020-2022
4. Kyndra Reed, Small and Exotic, NCSU, 2020-2022
5. Kristin Wade, Mixed Animal, NCSU, 2020-2022

Role as thesis committee member (other than for own graduate students):

1. Chair, Dissertation Committee, Patric Perez, UAB, 2023-present
2. Dissertation Committee, Briana Fitzgerald, UAB, 2023-present
3. Honor's Thesis Committee, Jagot Singh, UAB, 2023-present
4. Dissertation Committee, Morgan Ritter, NCSU, 2021-2022
5. Dissertation Committee, Thomas Rudibaugh, NCSU, 2019-2023
6. Dissertation Committee, Michelle Parkington, NCSU, 2019-2022
7. Dissertation Committee, Alexandra Forderhase, NCSU, 2020-2022
8. Dissertation Committee, Jefferey Denison, NCSU, 2019-2022
9. Master's Thesis Committee, Nicolette Petervary, NCSU, 2019-2021
10. Dissertation Committee, Courtney Sparks, NCSU, 2019-2020

**MAJOR LECTURES AND VISITING PROFESSORSHIPS:** See "Oral Presentations".

**GRANT SUPPORT: (PAST AND CURRENT)**

Current

NIH R01 Research Grant Project (R01MH123768). Role: Principal Investigator. Title: A sex-specific circuit for emotional memory. 2020-2025. \$1,250,000 D.C.

Pending

NIH R21 Research Grant Project (R21AG088952). Role: Principal Investigator. Title: Ventral hippocampal lysosome dysfunction as a sex-specific biomarker of affective aging. 2023-2025. \$275,000 D.C.

## Past

Brain & Behavior Research Foundation NARSAD Young Investigator Award. Role: Principal Investigator. Title: The lateral septum as a novel locus for sex differences in fear-based psychiatric disease. 2019-2022. \$70,000 D.C.

NCSU College of Veterinary Medicine Intramural Research Grant. Role: Principal Investigator. Title: A novel, sex-specific lateral septum circuit for enhanced fear memory persistence in females. 2018-2019. \$25,000 D.C.

Civitan Emerging Scholar Award, Role: Principal Investigator. Title: Transcriptional regulation of parvalbumin-containing interneurons. 2008-2009. \$20,000 D.C.

## **OTHER:**

### ***Ad hoc manuscript review***

2018-present *Journal of Neuroscience*  
2019-present *Communications Biology*  
2019-present *Frontiers in Molecular Neuroscience*  
2019-present *Scientific Reports*  
2019-present *Molecular Psychiatry*  
2020-present *Current Opinion on Neurobiology*  
2022-present *Neuroendocrinology*  
2022-present *Cell*  
2023-present *Cell Reports*  
2023-present *PNAS Nexus*  
2023-present *BMC Neuroscience*

## **MANUSCRIPTS:**

*Research from undergraduate students/technicians (\*), graduate students (#), and postdoctoral scholars (^) under my training is denoted.*

### Manuscripts already published

1. Schwebel, D. C., Tavares, C. L., Lucas, E. K., Bowling, E. B., & Hodgens, J. B. (2007). Unintentional injury risk in children with externalizing behavior disorders at summer camp. *Journal of Clinical Psychology in Medical Settings*, 14, 2: 145-151.
2. Schwebel, D.C., Lucas, E.K., & Pearson, A. (2009). Do perceptually salient stimuli reduce children's risky decisions? *Journal of Clinical Psychology in Medical Settings*, 16, 3: 223-232. PMID: 19381787.
3. Lucas, E.K., Markwardt, S.J., Gupta, S., Meador-Woodruff, J.H., Lin, J.D., Overstreet-Wadiche, L., & Cowell, R.M. (2010). Parvalbumin deficiency and GABAergic dysfunction in mice lacking PGC-1 $\alpha$ . *Journal of Neuroscience*, 30, 21: 7227-7235. PMID: 20505089.
4. Ma, D., Li, S., Lucas, E.K., Cowell, R.M., & Lin, J.D. (2010). Neuronal inactivation of PPAR $\gamma$  coactivator 1 $\alpha$  (PGC-1 $\alpha$ ) protects mice from diet-induced obesity and leads to degenerative lesions. *Journal of Biological Chemistry*, 285, 10: 39087-39095. PMID: 20947495.
5. Dougherty, S.E., Reeves, J. L., Lucas, E. K., Gamble, K. L., Lesort, M., & Cowell, R.M. (2012). Disruption of Purkinje cell function prior to huntingtin accumulation and



- cell loss in an animal model of Huntington Disease. *Experimental Neurology*, 236: 171-178. PMID: 22579526.
6. Lucas, E.K., Dougherty, S.E., Trinh, A.T.\*, Reid, C.S.\*, McMeekin, L.J., & Cowell, R.M. (2012). Developmental alterations in motor coordination and medium spiny neuron markers in mice lacking PGC-1 $\alpha$ . *PLoS ONE*, 7, 8: e42878. PMID: 22916173.
  7. Shan, D., Lucas, E.K., Drummond, J.B., Haroutunian, V., Meador-Woodruff, J.H., & McCullumsmith, R.E. (2013). Abnormal expression of glutamate transporters in temporal lobe areas in elderly patients with schizophrenia. *Schizophrenia Research*, 144 (1-3): 1-8. PMID: 23356950.
  8. Dougherty, S.E., Bartley, A.F., Lucas, E.K., Dobrunz, L.E., Hablitz, J.J., & Cowell, R.M. (2014). Mice lacking the transcriptional coactivator PGC-1 $\alpha$  exhibit alterations in inhibitory synaptic transmission in the motor cortex. *Neuroscience*, 271: 137-148. PMID: 24769433.
  9. Lucas, E.K., Jegarl, A.\*, & Clem, R.L. (2014). Mice lacking TrkB in parvalbumin-positive cells exhibit sexually dimorphic behavioral phenotypes. *Behavioural Brain Research*, 274: 219-225. PMID: 25127683.
  10. Lucas, E.K., Dougherty, S.E., McMeekin, L.J., Reid, C.S.\*, West, A.B., Dobrunz, L.E., Hablitz, J.J., & Cowell, R.M. (2014). PGC-1 $\alpha$  provides a transcriptional framework for synchronous neurotransmitter release from parvalbumin-positive interneurons. *Journal of Neuroscience*, 34, 43: 14375-14387. PMID: 25339750.
  11. Lucas, E.K., Reid, C.S.\*, McMeekin, L.J., Dougherty, S.E., & Cowell, R.M. (2015). Cerebellar transcriptional alterations with Purkinje cell dysfunction and loss in mice lacking PGC-1 $\alpha$ . *Frontiers in Cellular Neuroscience*, Special Issue, Neurodegeneration: from Genetics to Molecules, 8, 441. PMID: 25610371.
  12. Bartley, A.F., Lucas, E.K., Brady, L.J., Li, Q., Hablitz, J.J., Cowell, R.M., & Dobrunz, L.E. (2015). Interneuron transcriptional dysregulation causes frequency-dependent alterations in the balance of inhibition and excitation in hippocampus. *Journal of Neuroscience*, 35, 46: 15276-15290. PMID: 26586816.
  13. McMeekin, L.J., Lucas, E.K., Meador-Woodruff, J.H., McCullumsmith, R.E., Hendrickson, R.C., Gamble, K.L., & Cowell, R.M. (2016). Cortical PGC-1 $\alpha$ -dependent transcripts are reduced in postmortem tissue from patients with schizophrenia. *Schizophrenia Bulletin*, 42, 4: 1009-1017. PMID: 26683626.
  14. Lucas, E.K., Jegarl, A.M.\*, Morishita, H., & Clem, R.L. (2016). Multimodal and site-specific plasticity of amygdala parvalbumin interneurons after fear learning. *Neuron*, 91, 3: 629-643. PMID: 27427462.
  15. Lucas, E.K. & Clem, R.L. (2018). GABAergic interneurons: the orchestra or the conductor in fear learning and memory? *Brain Research Bulletin*, Special Issue, Memory Mechanisms in Health and Disease, 141: 13-19. PMID: 29197563.
  16. Lucas, E.K., Wu, W-C., Roman-Ortiz, C., & Clem, R.L. (2019). Prazosin during fear conditioning facilitates subsequent extinction in male C57Bl/6N mice. *Psychopharmacology*, Special Issue, Psychopharmacology of Extinction, 236: 273-279. PMID: 30112577.
  17. Bicks, L.K., Yamamuro, K., Flanigan, M.E., Kim, J.M., Kato, D., Lucas, E.K., Koike, H., Peng, M.S., Brady, D.M., Chandrasekaran, S., Norman, K., Smith, M., Clem, R.L., Russo, S.J., Akbarian, A., & Morishita, H. (2020). Prefrontal parvalbumin Interneurons require juvenile social experience to establish adult social behavior. *Nature Communications*, 11: 1003. PMID: 32081848.

18. Flanigan, M.E., Aleyasin, H., Li, L., Burnett, C.J., Chan, K.L., LeClaire, K.B., Lucas, E.K., Matikainen-Ankney, B., Cuttoli, R.D., Takahashi, A., Menard, C., Pfau, M.L., Golden, S.A., Bouchard, S., Calipari, E.S., Nestler, E.J., DiLeone, R., Yamanaka, A., Huntley, G.W., Clem, R.L., & Russo, S.J. (2020). Orexin signaling in GABAergic lateral habenula neurons modulates aggressive behavior. *Nature Neuroscience*, 23: 638-650. PMID: 32284606.
19. du Plessis, K.C.\*, Basu, S.^, Rumbell, T.H., & Lucas, E.K. (2022). Sex-specific neural networks of cued threat conditioning: A pilot study. *Frontiers in Systems Neuroscience*, Special Issue on Negative Valence Systems, 16: 832484. PMID: 35656357.
20. Baumgartner, N.E.^, Biraud, M.C.\*, & Lucas, E.K. (2023). Sex differences in socioemotional behavior and changes in ventral hippocampal transcription across aging in C57Bl/6J mice. *Neurobiology of Aging*, 130: 141-153. PMID: 37524006.

#### Manuscripts in Press

1. Lucas, E.K. & McCullumsmith, R.E. (2023). Moving beyond descriptive nosology: An argument for negative valence systems disorder. In Press, *Neuropsychopharmacology*. PMID: 37558760.
2. Ryherd, G.L.\*, Bunce, A.L.\*, Edwards, H.A.#, Baumgartner, N.E.^, & Lucas, E.K. (2023). Sex differences in avoidance behavior and cued threat memory dynamics in mice: Interactions between estrous cycle and genetic background. *Hormones & Behavior*, In Press. PMID: 37813043.

**BOOKS:** None.

#### **Published abstracts**

1. Lucas, E. K., Schwebel, D. C., Tavares, C. L., Bowling, E. B., & Hodgens, J. B. (2006, April). Ecology of unintentional injuries incurred by children with ADHD during a summer camp program. Abstract presented at the National Conference on Child Health Psychology, Gainesville, FL.
2. Tavares, C. L., Schwebel, D. C., Lucas, E. K., Bowling, E. B., & Hodgens, J. B. (2006, October). Predictors of unintentional injury among children in a behavioral treatment camp. Abstract presented at the National Conference on Clinical and Adolescent Psychology, Lawrence, KS.
3. Lucas, E.K., Drummond, J.B., Haroutunian, V., Meador-Woodruff, J.H., & McCullumsmith, R.E. (2007, November). Expression of vesicular glutamate transporters in the hippocampus and superior temporal gyrus in schizophrenia. Abstract presented at the annual meeting of the Society for Neuroscience, San Diego, CA.
4. Lucas, E.K., Lin, J., Campbell, S.L., Meador-Woodruff, J.H., & Cowell, R.M. (2008, November). Altered expression of GABAergic markers in mice lacking the transcriptional coactivator PGC-1 $\alpha$ . Abstract presented at the annual meeting of the Society for Neuroscience, Washington, D.C.
5. Lucas, E.K., Lin, J., Meador-Woodruff, J.H., & Cowell, R.M. (2008, December). PGC-1 $\alpha$  is required for the expression of parvalbumin in GABAergic neurons. Abstract presented at the annual meeting of the American College of Neuropsychopharmacology, Miami Beach, FL.
6. Lucas, E.K., Gupta, S., Wadiche, L.O., Lin, J., Meador-Woodruff, J.H., & Cowell, R.M. (2009, March). PGC-1 $\alpha$  is required for the expression of parvalbumin in specific

- regions of the mouse brain. Abstract presented at the Keystone Symposia Conference on the Epigenetic Basis of Neurodevelopmental Disorders, Keystone, CO.
7. Lucas, E.K., Gupta, S., Overstreet-Wadiche, L., Lin, J., Meador-Woodruff, J.H., and Cowell, R.M. (2009, October). Multi-system deficiencies in parvalbumin in mice lacking the transcriptional coactivator PGC-1 $\alpha$ . Abstract presented at the annual meeting of the Society for Neuroscience, Chicago, IL.
  8. Lucas, E.K., Markwardt, S.J., Gupta, S., Meador-Woodruff, J.H., Overstreet-Wadiche, L., & Cowell, R.M. (2009, December). Parvalbumin deficiency and GABAergic dysfunction in mice lacking PGC-1 $\alpha$ . Abstract presented at the annual meeting of the American College of Neuropsychopharmacology, Hollywood, FL.
  9. Talati, P.A., Rutherford, J.M., Lucas, E.K., & Cowell, R.M. (2010, March). Investigation of PGC-1 $\alpha$  and its target genes in neuroblastoma cells. Abstract presented at the annual meeting of the American Chemical Society, San Francisco, CA.
  10. Lucas, E.K., Sparkman, C.A.\*, & Cowell, R.M. (2010, November). Early motor impairment and reduced transcription of indirect motor pathway markers in mice lacking PGC-1 $\alpha$ . Abstract presented at the annual meeting of the Society for Neuroscience, San Diego, CA.
  11. Cowell, R.M., Rutherford, J.M., Lucas, E.K., Haroutunian, V., & Meador-Woodruff, J.M. (2010, December). Loss of association between PGC-1 $\alpha$  and its putative targets in the dorsolateral prefrontal cortex of patients with schizophrenia. Abstract presented at the annual meeting of the American College of Neuropsychopharmacology, Miami Beach, FL.
  12. Lucas, E.K., Sparkman, C.A.\*, Trinh, A.T.\*, & Cowell, R.M. (2010, December). Novel targets of the transcriptional coactivator PGC-1 $\alpha$  in the brain: Implications for neurological disorders. Abstract presented at the annual meeting of the American College of Neuropsychopharmacology, Miami Beach, FL.
  13. Dougherty, S.E., Reeves, J.L., Lucas, E.K., Lesort, M.J., Detloff, P.J., Gamble, K.L., & Cowell, R.M. (2011, November). Presymptomatic Purkinje cell dysfunction in the R6/2 mouse model of Huntington's Disease. Abstract presented at the annual meeting of the Society for Neuroscience, Washington, D.C.
  14. Cowell, R.M., Dougherty, S.E., & Lucas, E.K. (2011, November). Disruption of Purkinje cell gene expression and function in mice lacking PGC-1 $\alpha$ . Abstract presented at the annual meeting of the Society for Neuroscience, Washington, D.C.
  15. Lucas, E.K., West, A.B., & Cowell, R.M. (2011, November). Deletion of PGC-1 $\alpha$  in parvalbumin-expressing cells causes learning impairment and deficiencies in genes involved in synchronous neurotransmitter release. Poster presented at the annual meeting of the Society for Neuroscience, Washington, D.C.
  16. Lucas, E.K., Dougherty, S.E., West, A.B., Hablitz, J.J., & Cowell, R.M. (2012, June). The transcriptional coactivator PGC-1 $\alpha$  orchestrates a master gene program controlling synchronous neurotransmitter release in parvalbumin-positive interneurons. Abstract presented at the EMBO Workshop on Cortical Interneurons in Health and Disease, Mallorca, Spain.
  17. Lucas, E.K. & Clem, R.L. (2013, July). Fear learning decreases inhibition in the lateral amygdala through TrkB signaling. Abstract presented at the Gordon Research Conference on Amygdala in Health and Disease, Easton, MA.
  18. Cowell, R.M., Lucas, E.K., Molina, J., Meador-Woodruff, J.H., Kleinman, J.E., McCullumsmith, R. E., Hendrickson, R.C., Roberts, R.C., Gamble, K.L., & McMeekin, L.J. (2014, November). The expression of developmentally-regulated PGC-1 $\alpha$ -

- dependent genes is reduced in the cortex of patients with schizophrenia. Abstract presented at the annual meeting of the Society for Neuroscience, Washington, D.C.
19. Lucas, E.K. & Clem, R.L. (2014, November). Experience-dependent plasticity in parvalbumin interneurons disinhibits the amygdala fear circuit after emotional learning. Abstract presented at the annual meeting of the Society for Neuroscience, Washington, D.C.
  20. Cowell, R.M., Lucas, E.K., Molina, J., Meador-Woodruff, J.H., Kleinman, J.E., McCullumsmith, R. E., Hendrickson, R.C., Roberts, R.C., Gamble, K.L., & McMeekin, L.J. (2014, December). The expression of developmentally-regulated PGC-1 $\alpha$ -dependent genes is reduced in the cortex of patients with schizophrenia. Abstract presented at the annual meeting of the American College of Neuropsychopharmacology, Phoenix, Arizona.
  21. Lucas, E.K., Jegarl, A.\*, & Clem, R.L. (2015, August). Fear encoding induces multimodal and site-specific plasticity of parvalbumin-interneurons in the basolateral amygdala. Abstract presented at the Gordon Research Conference on Amygdala in Health and Disease, Easton, MA.
  22. Lucas, E.K., Jegarl, A.\*, & Clem, R.L. (2016, March). Multimodal and site-specific plasticity of amygdala parvalbumin interneurons after fear learning. Abstract presented at the New York Academy of Science Conference on Neuronal Connectivity in Brain Function and Disease, New York, NY.
  23. Lucas, E.K., Jegarl, A.\*, & Clem, R.L. (2016, November). Multimodal and site-specific plasticity of amygdala parvalbumin interneurons after fear learning. Abstract presented at the annual meeting of the Society for Neuroscience, San Diego, CA.
  24. Roman-Ortiz, C., Cummings, K.A., Lucas, E.K., Suwannapeng, A.\*, & Clem, R.L. (2017, August). Activation of prefrontal terminals in basal forebrain inhibits fear expression. Abstract presented at the Gordon Research Conference on Amygdala Function in Emotion, Cognition, & Disease, Easton, MA.
  25. Lucas, E.K., Roman-Ortiz, C., & Clem, R.L. (2017, August). Basal forebrain GABAergic projections in amygdala function and behavior. Abstract presented at the Gordon Research Conference on Amygdala Function in Emotion, Cognition, & Disease, Easton, MA.
  26. Bicks, L., Lucas, E.K., Koike, H., Peng, M.S., Clem, R.L., Akbarian, S., & Morishita, H. (2017, November). Parvalbumin interneurons in the prefrontal cortex control social behavior in mice. Abstract presented at the annual meeting of the Society for Neuroscience, Washington, D.C.
  27. Bicks, L., Yamamuro, K., Flanigan, M., Lucas, E.K., Koike, H., Peng, M.S., Kim, J.M., Dong, Z., Clem, R.L., Russo, S.J., Akbarian, S., & Morishita, H. (2018, November). Prefrontal parvalbumin interneurons require juvenile social experience to establish adult social behavior. Abstract presented at the annual meeting of the Society for Neuroscience, San Diego, CA.
  28. Flanigan, M.E., Aleyasin, H., LeClair, K.B., Lucas, E.K., Matikainen-Ankney, B., Takahashi, A., Menard, C., Bouchard, S., Pfau, M.L., Golden, S.A., Calipari, E.S., Nestler, E.J., DiLeone, R.J., Yamanaka, A., Huntley, G.W., Clem, R.L., & Russo, R.J. (2018, November). Orexin inputs to GABAergic lateral habenula neurons control aggression valence. Abstract presented at the annual meeting of the Society for Neuroscience, San Diego, CA.
  29. Lucas, E.K., Jegarl, A.\*, & Basu, S.^ (2019, May). A sex-specific circuit for fear memory encoding. Abstract presented at the International School of Ethology

Workshop on Sex Differences in Brain and Behavior in Health and Disease, Erice, Italy.

30. Lucas, E.K., Jegarl, A.\* , & Basu, S.^ (2019, August). A sex-specific circuit for fear memory encoding. Abstract presented at the Gordon Research Conference on Amygdala Function in Emotion, Cognition, & Disease, Easton, MA.
31. Bicks, L., Yamamuro, K., Flanigan, M., Kim, J.M., Kato, D., Lucas, E.K., Koike, H., Peng, M.S., Bady, D., Chandrasekaran, S., Smith, M.R., Norman, K.J., Clem, R.L., Russo, S.J., Akbarian, S., & Morishita, H. (2019, October). Prefrontal parvalbumin interneurons require juvenile social experience to establish adult social behavior. Abstract presented at the annual meeting of the Society for Neuroscience, Chicago, IL.
32. Basu, S.^ & Lucas, E.K. (2019, October). The lateral septum drives sex differences in fear memory encoding. Abstract presented at annual meetings of the Molecular and Cellular Cognition Society and the Society for Neuroscience, Chicago, IL.
33. Bunce, A.L.\* & Lucas, E.K. (2020, September). Parvalbumin interneurons in the basolateral amygdala influence anxiety-like behavior across the estrous cycle in mice. Abstract presented at the annual meeting of the Pavlovian Society, virtual due to COVID-19.
34. Adcock Binion, K.#, Yankoglu, A.N.#, Basu, S.^, Jegarl, A.M.\* , & Lucas, E.K. (2021, June). Sex-specific lateral septum circuits for threat memory acquisition. Abstract presented at the annual meeting of the Society for Behavioral Neuroendocrinology, virtual due to COVID-19.
35. Farthing, A.F.#, Bunce, A.L.\* , Ryherd, G.L.\* , & Lucas, E.K. (2021, June). Ovarian hormones tune amygdala inhibition to drive anxiety-like behavior across the estrous cycle. Abstract presented at the annual meeting of the Society for Behavioral Neuroendocrinology, virtual due to COVID-19.
36. du Plessis, K.\* & Lucas, E.K. (2021, November). Sex-specific neural networks of threat memory acquisition: A pilot study. Abstract presented at the annual meeting of the Society for Neuroscience, virtual due to COVID-19.
37. Baumgartner, N.E.^, Adcock Binion, K.A.#, Bell, G.C.\* , du Plessis, K.C.\* , & Lucas, E.K. (2022, June). Estrous cycle regulation of state-dependent emotional memory. Abstract presented at the annual meeting of the Society for Behavioral Neuroendocrinology, Atlanta, GA.
38. du Plessis, K.C.\* , Farthing, A.L.#, & Lucas, E.K. (2022, June). Dietary phytoestrogens recalibrate socioemotional behavior in mice in a sex- and timing-dependent manner. Abstract presented at the annual meeting of the Society for Behavioral Neuroendocrinology, Atlanta, GA.
39. Baumgartner, N.E.^, Adcock Binion, K.H.#, Bell, G.C.\* , Dasari, A.S.\* , Newberry, G.C.\* , Rumbell, T.H., Simon, J.M., & Lucas, E.K. (2023, July). Neural circuits underlying estrous cycle regulation of state-dependent emotional memory. Abstract presented at the Gordon Research Conference on Amygdala Function in Emotion, Cognition, & Disease, Barcelona, Spain.  
*‡ Selected as a platform presentation at the Gordon Research Seminar & Conference.*
40. Bunce, A.L.\* , Farthing, A.L.#, & Lucas, E.K. (2023, July). Ovarian hormones tune amygdala inhibition to drive anxiety-like behavior across the reproductive cycle. Abstract presented at the Gordon Research Conference on Amygdala Function in Emotion, Cognition, & Disease, Barcelona, Spain.  
*‡ Selected as a platform presentation at the Gordon Research Conference.*

## Poster Exhibits (as faculty)

1. Basu, S.<sup>^</sup>, Jegarl, A.\* , & Lucas, E.K. (2019, April). Associative fear learning engages a novel sex-specific LS circuit for memory encoding. Poster presented at the annual meeting of the Triangle Chapter of the Society for Neuroscience, Cary, NC.
2. Ryherd, G.L.\* , Edwards, H.A.#, & Lucas, E.K. (2019, April). Strain- and sex-specific differences in anxiety-like behavior and emotional memory dynamics across four inbred mouse strains. Poster presented at the annual meeting of the Triangle Chapter of the Society for Neuroscience, Cary, NC.
3. Basu, S.<sup>^</sup> & Lucas, E.K. (2019, July). A sex-specific circuit for fear memory encoding. Poster presented at the 8th Annual NCSU Postdoctoral Research Symposium, Raleigh, NC.
4. Basu, S.<sup>^</sup> & Lucas, E.K. (2019, August). A sex-specific circuit for fear memory encoding. Poster presented at the annual NCSU CVM Research Forum, Raleigh, NC.
5. Bunce, A.L.\* , Ryherd, G.L.\* , Edwards, H.A.#, & Lucas E.K. (2019, August). Preclinical assays of anxiety and fear vary by mouse strain, sex, and estrous cycle. Poster presented at the annual NCSU CVM Research Forum, Raleigh, NC.
6. Bunce, A.L.\* & Lucas, E.K. (2020, February). Parvalbumin interneurons in the basolateral amygdala influence anxiety-like behavior across the estrous cycle in mice. Abstract presented at the annual meeting of the Center for Human Health and the Environment, Raleigh, NC.
7. Binion Adcock, K.A.#, Yankoglu, A.\* , Basu, S.<sup>^</sup>, Jegarl, A.M.\* , & Lucas, E.K. (2021, April). Investigating sex-specific lateral septum circuits for threat memory acquisition. Poster presented at the annual meeting of the Triangle Chapter of the Society for Neuroscience, virtual due to COVID-19.
8. Farthing, A.L.#, Bunce, A.L.\* , Ryherd, G.L.\* , & Lucas, E.K. (2021, April). Ovarian hormones tune amygdala inhibition to drive anxiety-like behavior across the estrous cycle. Poster presented at the annual meeting of the Triangle Chapter of the Society for Neuroscience, virtual due to COVID-19.
9. du Plessis, K.\* , Basu, S.<sup>^</sup>, & Lucas, E.K. (2021, April). Sex-specific neural networks of threat memory acquisition: a pilot study. Poster presented at the annual meeting of the Triangle Chapter of the Society for Neuroscience, virtual due to COVID-19.
10. Baumgartner, N.E.<sup>^</sup>, Biraud, M.C.\* , & Lucas, E.K. (2022, September). Sex differences in socioemotional behavior and changes in ventral hippocampal gene expression across aging. Poster presented at the annual retreat of the UAB Comprehensive Neuroscience Center, Guntersville, AL.
11. Rudd, M.L.\* , Bilenkin, A.\* , & Lucas, E.K. (2023, October). Impact of the NIH policy on sex as a biological variable: Focus on sex representation in preclinical fear conditioning studies. Poster presented at the annual retreat of the UAB Comprehensive Neuroscience Center, Homewood, AL.
12. Baumgartner, N.E.<sup>^</sup>, Adock Binion, K.H.#, Bell, G.C.\* , Dasari, A.S.\* , Newberry, G.C.\* , Rumbell, T.H., Simon, J.M., & Lucas, E.K. (2023, October). Neural circuits underlying estrous cycle regulation of state-dependent emotional memory. Poster presented at the annual retreat of the UAB Comprehensive Neuroscience Center, Homewood, AL.

## Oral Presentations

### Scientific papers presented at national and international meetings

1. Lucas, E.K. (2018, April). Losing Your Inhibition: GABAergic Plasticity in Emotional Learning. Organization for the Study of Sex Differences Annual Meeting, Atlanta, GA.

2. Lucas, E.K. (2019, May). A Sex-Specific Circuit for Fear Memory Encoding. International School of Ethology Workshop on Sex Differences in Brain & Behavior, Erice, Italy.
3. Lucas, E.K. (2020, January). A GABAergic Circuit Driving Sex Differences in Emotional Memory. Winter Conference on Brain Research, Big Sky, MT.
4. Lucas, E.K. (2022, June). Basolateral Amygdala Parvalbumin Interneurons Drive Anxiety-like Behavior Across the Estrous Cycle in Mice. Society for Behavioral Neuroendocrinology Annual Meeting, Atlanta, GA.
5. Lucas, E.K. (2023, January). Basolateral Amygdala Parvalbumin Interneurons Drive Anxiety-like Behavior Across the Estrous Cycle in Mice. Winter Conference on Brain Research Annual Meeting, Snowbird, Utah.
6. Baumgartner, N.E.<sup>^</sup>, Adock Binion, K.H.<sup>#</sup>, Bell, G.C.<sup>\*</sup>, Dasari, A.S.<sup>\*</sup>, Newberry, G.C.<sup>\*</sup>, Rumbell, T.H., Simon, J.M., & Lucas, E.K. (2023, July). Neural circuits underlying estrous cycle regulation of state-dependent emotional memory. Abstract presented at the Gordon Research Conference on Amygdala Function in Emotion, Cognition, & Disease, Barcelona, Spain.
7. Bunce, A.L.<sup>\*</sup>, Farthing, A.L.<sup>#</sup>, & Lucas, E.K. (2023, July). Ovarian hormones tune amygdala inhibition to drive anxiety-like behavior across the reproductive cycle. Abstract presented at the Gordon Research Conference on Amygdala Function in Emotion, Cognition, & Disease, Barcelona, Spain.

#### Scientific papers presented at local and regional meetings

1. Lucas, E.K. (2015, May). Experience-dependent Inhibitory Plasticity in the Lateral Amygdala Mediates Fear Learning. Friedman Brain Institute Annual Retreat, ISMMS, New York, NY.
2. Lucas, E.K. (2016, September). Losing Your Inhibition: GABAergic Plasticity in Emotional Learning. 7th Annual Postdoctoral Symposium, ISMMS, New York, NY.
3. Lucas, E.K. (2020, February). Genetic Factors Underlying Emotional Dysregulation in Mice. Center for Human Health & the Environment Annual Symposium, Raleigh, NC.
4. Lucas, E.K. (2021, October). Ovarian Hormones Tune Amygdala Inhibition to Drive Anxiety-Like Behavior Across the Reproductive Cycle. East Carolina Chapter of the Society for Neuroscience Annual Meeting, virtual due to COVID-19.
5. Lucas, E.K. (2022, September). Basolateral Amygdala Parvalbumin Interneurons Drive Anxiety-like Behavior Across the Estrous Cycle in Mice. UAB Comprehensive Neuroscience Center Annual Retreat, Guntersville, AL
6. Lucas, E.K. (2023, April). Ovarian Hormones Tune Amygdala Inhibition to Drive Anxiety-Like Behavior Across the Reproductive Cycle. UAB Behavioral Neurobiology Annual Retreat, Birmingham, AL.

#### Invited workshops, etc. at national postgraduate courses and meetings and at other universities

1. Lucas, E.K. (2015, December). Losing Your Inhibition: GABAergic Plasticity in Emotional Learning. Wellesley College, Neuroscience Program, Wellesley, MA.
2. Lucas, E.K. (2016, December). Losing Your Inhibition: GABAergic Plasticity in Emotional Learning. Creighton University, Department of Pharmacology, Omaha, NE.
3. Lucas, E.K. (2016, December). Losing Your Inhibition: GABAergic Plasticity in Emotional Learning. University of Iowa, Department of Pharmacology, Iowa City, IA.

4. Lucas, E.K. (2017, January). Losing Your Inhibition: GABAergic Plasticity in Emotional Learning. Albany Medical College, Department of Neuroscience & Experimental Therapeutics, Albany, NY.
5. Lucas, E.K. (2017, January). Losing Your Inhibition: GABAergic Plasticity in Emotional Learning. North Carolina State University, Department of Molecular Biomedical Sciences, Raleigh, NC.
6. Lucas, E.K. (2017, January). Losing Your Inhibition: GABAergic Plasticity in Emotional Learning. Tulane University, Department of Psychology, New Orleans, LA.
7. Lucas, E.K. (2017, January). Losing Your Inhibition: GABAergic Plasticity in Emotional Learning. University of Virginia, Department of Pharmacology, Charlottesville, VA.
8. Lucas, E.K. (2017, February). Losing Your Inhibition: GABAergic Plasticity in Emotional Learning. Michigan State University, Department of Physiology, East Lansing, MI.
9. Lucas, E.K. (2017, February). Losing Your Inhibition: GABAergic Plasticity in Emotional Learning. University of Connecticut, Department of Psychology, Storrs, CT.
10. Lucas, E.K. (2017, February). Losing Your Inhibition: GABAergic Plasticity in Emotional Learning. Virginia Tech, School of Neuroscience, Blacksburg, VA.
11. Lucas, E.K. (2017, March). Losing Your Inhibition: GABAergic Plasticity in Emotional Learning. Uniformed Services University of the Health Sciences, Department of Pharmacology, Bethesda, MD.
12. Lucas, E.K. (2019, February): Sex-specific Encoding of Emotional Memory: My Journey to Embracing Sex as a Biological Variable. National Institute of Environmental Health and Safety, Neurobiology Laboratory, Durham, NC.
13. Lucas, E.K. (2020, January). Biological Mechanisms Driving Female Susceptibility to Fear-Based Mental Illness. North Carolina State University, Department of Molecular Biomedical Sciences, Raleigh, NC
14. Lucas, E.K. (2020, November). Neurobiological Mechanisms Driving Sex Differences in Fear and Anxiety. University of Alabama at Birmingham, Department of Neurobiology, Birmingham, AL. Virtual due to COVID-19.
15. Lucas, E.K. (2021, March). Neurobiological Mechanisms Driving Sex Differences in Fear and Anxiety. University of Alabama at Birmingham, Department of Psychiatry & Behavioral Neurobiology, Birmingham, AL. Virtual due to COVID-19.
16. Lucas, E.K. (2023, April). Neural Networks Supporting State-Dependent Emotional Memory. University of Toledo, Neurosciences Institute, Toledo, Ohio.

#### Invited lectures at local and regional courses and meetings

1. Lucas, E.K. (2014, April). Glutamatergic Plasticity in Fear Learning. Neuroscience Program, Wellesley College.
2. Lucas, E.K. (2015, May). Glutamatergic Plasticity in Fear Learning. Neuroscience Program, Wellesley College.
3. Lucas, E.K. (2015, October). Neurotransmitter Synthesis and Degradation. Department of Neuroscience, ISSMS.
4. Lucas, E.K. (2015, December). Glutamatergic Plasticity in Fear Learning. Neuroscience Program, Wellesley College.
5. Lucas, E.K. (2016, August). Patch Clamp Electrophysiology. Department of Neuroscience, ISSMS.
6. Lucas, E.K. (2018, October). The Genetic Toolbox for Behavioral Neuroscience. Department of Biological Sciences, NCSU.



7. Lucas, E.K. (2019, April). My Journey to Embracing Sex as a Biological Variable. College of Veterinary Medicine, NCSU.
8. Lucas, E.K. (2019, October). The Genetic Toolbox for Behavioral Neuroscience. Department of Biological Sciences, NCSU.
9. Lucas, E.K. (2019, November). Sex as a Biological Variable in Mental Illness. Department of Biological Sciences, NCSU.
10. Lucas, E.K. (2020, April). Ovarian Hormones in Mood and Memory. Department of Biological Sciences, NCSU.
11. Lucas, E.K. (2021, March). Ovarian Hormones in Mood and Memory. Department of Biological Sciences, NCSU.
12. Lucas, E.K. (2021, November). Sex as a Biological Variable in Mental Illness. Department of Biological Sciences, NCSU.
13. Lucas, E.K. (2022, April). My Journey to Embracing Sex as a Biological Variable. College of Veterinary Medicine, NCSU.
14. Lucas, E.K. (2022, November). Sex as a Biological Variable in Mental Illness. Department of Biological Sciences, NCSU.

**MISCELLANEOUS:**

Films, educational tapes, syllabi, software packages and courses developed, etc.

# Keith M. McGregor

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**Birthplace:** Norwood Hospital, Norwood, MA

**Citizenship:** United States of America

## Education

**Ph.D., Behavioral and Cognitive Neuroscience, University of Florida, May, 2010**

- Dissertation: *Neural Correlates of Aerobic Activity Across Age Groups: A TMS/fMRI Study*

**M.S., Cognitive Psychology, University of Florida, May, 2006**

- Thesis: *Negative BOLD & Aging: A functional Magnetic Resonance Imaging Study*

**B.A., Psychology, College of the Holy Cross, May, 1997**

- Concentration: Biological Psychology

## Positions and Employment

|             |                                                                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 1997-2000   | Systems Administrator, Bernard Hodes Group, Cambridge, MA                                                                            |
| 2000-2002   | Systems Administrator, Monster Worldwide, NY, NY                                                                                     |
| 2002-2003   | East Coast Manager of Network Infrastructure, Monster Worldwide, NY, NY                                                              |
| 2003-2008   | Graduate Research Assistant, University of Florida, Gainesville, FL                                                                  |
| 2003-2004   | Graduate Student Fellowship, University of Florida, Gainesville, FL                                                                  |
| 2008-2010   | VA Office of Academic Affairs Predoctoral Fellow, Gainesville, FL                                                                    |
| 2010-2011   | Adjunct Assistant Professor, Clinical & Health Psychology, University of Florida                                                     |
| 2010-2012   | VA Health Science Specialist, Career Development Award (CDA1)                                                                        |
| 2012-2013   | Instructor - Research Track, Emory University School of Medicine, Neurology                                                          |
| 2013-2018   | VA Health Science Specialist, Career Development Award (CDA2)                                                                        |
| 2013-2021   | Assistant Professor, Emory University School of Medicine, Neurology                                                                  |
| 2014- 2021  | Director, Neuronavigated Transcranial Magnetic Stimulation Core (CVNR)                                                               |
| 2019-2021   | VA Merit Scientist, CVNR                                                                                                             |
| 2021 - 2021 | Associate Professor, Emory University School of Medicine, Neurology                                                                  |
| 2021 -      | Birmingham GRECC Affiliate Investigator                                                                                              |
|             | 2021 - Associate Professor, Director of Research, Department of Clinical and Diagnostic Sciences, University of Alabama - Birmingham |

## Publications and Presentations

### Publications

Denmon, C; Wakeman, DG; Mark Vernon, M; McGregor, KM; Krishnamurthy, V; Krishnamurthy, L; Stevens, J; Vaughan, C. (IN PRESS) Identification of Functional Connectivity Circuits in Persons with Parkinson's Disease and Urinary Incontinence. (*Neuourology and Urodynamics*)

Evancho, A., Tyler, W. J., & McGregor, K.M. (2023). A review of combined neuromodulation and physical therapy interventions for enhanced neurorehabilitation. *Frontiers in Human Neuroscience*, 17. (Frontiers in Human Neuroscience, section Motor Neuroscience)

Gradone, A. M., Champion, G., McGregor, K. M., Nocera, J. R., Barber, S. J., Krishnamurthy, L. C., & Dotson, V. M. (2023). Rostral anterior cingulate connectivity in older adults with subthreshold depressive symptoms: A preliminary study. *Aging Brain*, 3, 100059.

Gao J, Qu H, McGregor KM, Yadav AS, Yuen HK. (2022) Associations between Duration of Homelessness and Cardiovascular Risk Factors: A Pilot Study. *International Journal of Environmental Research and Public Health*. 19(22):14698.

Cassim, T. Z., McGregor, K. M., Nocera, J. R., García, V. V., Sinon, C. G., Kreuzer, M., & García, P. S. (2022). Effects of exercise on the sleep microarchitecture in the aging brain: A study on a sedentary sample. *Frontiers in Systems Neuroscience*, 16, 855107.

Krishnamurthy, V., Paredes Spir, I., Mammino, K. M., Nocera, J. R., McGregor, K. M., Crosson, B. A., & Krishnamurthy, L. C. (2022). The relationship between resting cerebral blood flow, neurometabolites, cardio-respiratory fitness and aging-related cognitive decline. *Frontiers in Psychiatry*, 13, 923076.

Drucker, J. H., Epstein, C. M., McGregor, K. M., Hortman, K., Gopinath, K. S., & Crosson, B. (2022). Reduced Interference and Serial Dependency Effects for Naming in Older but Not Younger Adults after 1 Hz rTMS of Right Pars Triangularis. *Neurobiology of Language*, 3(2), 256-271.

Sook-Lei Liew, PhD, OTR/L, the ENIGMA Stroke Recovery Working Group, Smaller spared subcortical nuclei are associated with worse post-stroke sensorimotor outcomes in 28 cohorts worldwide, *Brain Communications*, 2021; fcab254, <https://doi.org/10.1093/braincomms/fcab254>

Krishnamurthy LC, Krishnamurthy V, Rodriguez AD, McGregor KM, Glassman CN, Champion GS, Rocha N, Harnish SM, Belagaje SR, Kundu S and Crosson BA (2021) Not All Lesioned Tissue Is Equal: Identifying Pericavitational Areas in Chronic Stroke With Tissue Integrity Gradation via T2w T1w Ratio. . *Frontiers in Neuroscience*, 15:665707. doi: 10.3389/fnins.2021.665707

Kundu, S., Ming, J., Nocera, J., & McGregor, K. M. (2021). Integrative learning for population dynamic networks with covariates. *NeuroImage*, 118181.

Krishnamurthy, LC, Champion, GN, McGregor, KM, Krishnamurthy, V, Turabi, A, Roberts, SR, Nocera, JR, Borich, MR, Rodriguez, AD, Belagaje, SR, Harrington, RM, Harris-Love, ML, Harnish, SM, Drucker, JH, Benjamin, M, Meadows, ML, Seeds, L, Zlatar, ZZ, Sudhyadhom, A, Butler, AJ, Garcia, A, Patten, C, Trinastic, J, Kautz, SA, Gregory, C, Crosson, BA (2020) The effect of time since stroke, gender, age, and lesion size on thalamus volume in chronic stroke: a pilot study. *Sci Rep* 10(1):20488

Krishnamurthy V, Krishnamurthy LC, Drucker JH, Kundu S, Ji B, Hortman K, Roberts SR,

- Mammino K, Tran SM, Gopinath K, McGregor KM, Rodriguez AD, Qiu D, Crosson B and Nocera JR (2020) Correcting Task fMRI Signals for Variability in Baseline CBF Improves BOLD-Behavior Relationships: A Feasibility Study in an Aging Model. . *Frontiers in Neuroscience*, 14:336. doi: 10.3389/fnins.2020.00336
- Nocera, J. R., Mammino, K., Kommula, Y., Wharton, W., Crosson, B., & McGregor, K. M. (2020). Effects of Combined Aerobic Exercise and Cognitive Training on Verbal Fluency in Older Adults. *Gerontology and Geriatric Medicine*. <https://doi.org/10.1177/2333721419896884>
- Drucker JH, Sathian K, Crosson B, Krishnamurthy V, McGregor KM, Bozzorg A, Gopinath K, Krishnamurthy LC, Wolf SL, Hart AR, Evatt M, Corcos DM and Hackney ME. (2019) Internally Guided Lower Limb Movement Recruits Compensatory Cerebellar Activity in People With Parkinson's Disease. *Front. Neurol.* 10:537. doi: 10.3389/fneur.2019.00537
- Kelleher, J. L., Rodriguez, A. D., McGregor, K. M., & Serra, M. C. (2019). Differences in dietary recall and subjective physical functioning status in stroke survivors with self-reported cognitive impairment. *Topics in Stroke Rehabilitation*, 1–5. <https://doi.org/10.1080/10749357.2019.1593611>
- McGregor, K. M., Crosson, B., Krishnamurthy, L. C., Krishnamurthy, V., Hortman, K., Gopinath, K., Omar, J., Mammino, K., Nocera, J. R. (2018). Effects of a 12-Week Aerobic Spin Intervention on Resting State Networks in Previously Sedentary Older Adults. *Frontiers in Psychology*, 9, 2376. <https://doi.org/10.3389/fpsyg.2018.02376>
- Tran, S.M., McGregor, K.M., James, G.A., Gopinath, K.S., Krishnamurthy, L.C. , Krishnamurthy, V., Crosson, B. (2018) Task-residual Functional Connectivity of Language and Attention Networks at Midlife. *Brain and Cognition* 122:52-58. doi: 10.1016/j.bandc.2018.02.003
- McGregor K.M., Crosson, B., Mammino, K., Omar, J., Garcia, P.S., Nocera, J.N.. (2018) Influences of 12-Week Physical Activity Interventions on TMS Measures of Cortical Network Inhibition and Upper Extremity Motor Performance in Older Adults—A Feasibility Study. *Frontiers in Aging Neuroscience* 9:422. doi: 10.3389/fnagi.2017.00422
- Crosson, B., Hampstead, B.M., Krishnamurthy, L.C. , Krishnamurthy, V., McGregor, K.M., Nocera, J.R., Roberts, S., Rodriguez, A.D., Tran, S.M. (2017) Advances in Neurorehabilitation Research from 1992 to 2017: The Ascension of Neural Plasticity *Neuropsychology* 2017 Aug 31. doi: 10.1037/neu0000396.
- Nocera J, Crosson B, Mammino K, McGregor KM. (2017) Changes in Cortical Activation Patterns in Language Areas following an Aerobic Exercise Intervention in Older Adults. *Neural Plasticity* 2017; 2017:9. DOI: 10.1155/2017/6340302
- Hackney ME, Lee HL, Battisto J, Crosson B and McGregor KM (2015) Context-Dependent Neural Activation: Internally and Externally Guided Rhythmic Lower Limb Movement in Individuals With and Without Neurodegenerative Disease. *Front. Neurol.* 6:251. doi: 10.3389/fneur.2015.00251

Crosson B, McGregor KM, Nocera JR, Drucker JH, Tran SM and Butler AJ (2015). The relevance of aging-related changes in brain function to rehabilitation in aging-related disease. *Front. Hum. Neurosci.* 9:307. doi: 10.3389/fnhum.2015.00307

Zlatař, Z.Z., McGregor, K.M., Towler, S., Nocera, J.R., Dzierzewski, J.M., Crosson, B. (2015) Self-reported physical activity and objective aerobic fitness: differential associations with gray matter density in healthy aging. *Front Aging Neurosci* 7:5 doi: dx.doi.org/10.3389/fnagi.2015.00005

Bohsali, A. A., Triplett, W., Sudhyadhom, A., Gullett, J., McGregor, K.M., FitzGerald, D.B., Mareci, T., White, K., Crosson, B. (2015). Broca's area-thalamic connectivity. *Brain and Language*. 141, 80-88, ISSN doi: 10.1016/j.bandl.2014.12.001

Nocera JR, McGregor KM, Hass CJ, Crosson B. (2015) Spin exercise improves semantic fluency in previously sedentary older adults. *J Aging Phys Act.* Jan;23(1):90-4.

McGregor, K. M., Sudhyadhom, A., Nocera, J., Seff, A., Crosson, B., & Butler, A. J. (2015). Reliability of negative BOLD in ipsilateral sensorimotor areas during unimanual task activity. *Brain imaging and behavior*, 9(2), 245-254.

Benjamin, M., Towler, S., Garcia, A., Park, H., Sudhyadhom, A., Harnish, S., McGregor, K.M., Zlatař, Z., Reilly, J., Rosenbek, J., Gonzalez-Rothi, L., Crosson, B. (2014) A Behavioral Manipulation Engages Right Frontal Cortex during Aphasia Therapy. *Neurorehabilitation and Neural Repair*. Jan 9;28(6):545-553.

McGregor K.M., Nocera J.R., Sudhyadhom, A., Patten C., Manini T.M., Crosson B., Butler A.J. (2013) Effects of Aerobic Fitness on Aging-Related Changes of Interhemispheric Inhibition and Motor Performance. *Frontiers in Aging Neuroscience*. Oct 30;5:66. doi: 10.3389/fnagi.2013.00066.

Ford, A., Triplett, W., Sudhyadhom, A., Gullett, J., McGregor, K.M., FitzGerald, D.B., Mareci, T., White, K.D., Crosson, B. (2013) Broca's Area and Its Striatal and Thalamic Connections: A Diffusion-MRI Tractography Study *Frontiers in Neuroanatomy* 10;7:8. doi: 10.3389/fnana.2013.00008

Zlatař, Z., Towler, S., McGregor, K., Dzierzewski, J., Bauer, A., Phan, S., Cohen, M., Marsiske, M., Manini, T., Crosson, B. (2013) Functional language networks in sedentary and physically active older adults. *Journal of the International Neuropsychological Society*. 19(6):625-34. doi: 10.1017/S1355617713000246

Sudhyadhom, A., McGregor, K.M., Okun, M., Foote, K., Trinastic, J., Crosson, B., Bova, F. (2013) Delineation of Motor and Somatosensory Thalamic Subregions Utilizing Probabilistic Diffusion Tractography and Electrophysiology. *Journal of Magnetic Resonance Imaging*. Mar;37(3):600-9. doi: 10.1002/jmri.23861.

McGregor K.M., Heilman K.M., Nocera J.R., Patten C., Manini T.M., Crosson B., Butler A.J. (2012) Aging, Aerobic Activity and Interhemispheric Communication. *Brain Sciences*. 2(4):634-

648. doi: 10.3390/brainsci2040634

McGregor, K.M., Carpenter, H., Sudhyadhom, A., Kleim, E., Butler, A.J., White, K.D., Kleim, J.A., Crosson, B. (2012) Motor Map Reliability and Aging: A TMS/fMRI Study. *Experimental Brain Research*. 219(1): 97-106. doi: 10.1007/s00221-012-3070-3

Meinzer, M., Seeds, L., Harnish, S., Flaisch, T., McGregor, K.M., Cohen, M., Benjamin, M., Conway, T., Crosson, B. (2012) Impact of changed positive and negative task-related functional activity on word-retrieval in aging. *Neurobiology of Aging*. 33(4): 656-69. doi: 10.1016/j.neurobiolaging.2010.06.020

McGregor, K.M., Zlatar, Z., Kleim, E., Phan, S., Bauer, A., Sudhyadhom, A., Ford, A., White, K.D., Manini, T., Kleim, J.A., Crosson, B. (2011) Physical Activity and Neural Correlates of Aging: A Combined TMS/fMRI Study. *Behavioural Brain Research*. 222: 158-68. doi: 10.1016/j.bbr.2011.03.042

Ford A, McGregor KM, Case K, Crosson B, White KD. (2010) Structural connectivity of Broca's area and medial frontal cortex. *NeuroImage*. 52(4):1230-7. doi: 10.1016/j.neuroimage.2010.05.018

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Fractal scaling analysis simulation and application. *NeuroImage* 40(1): 197-212. doi: 10.1016/j.neuroimage.2007.11.016

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### ***Manuscripts Under Review***

Novak, T.N., McGregor, K.M., Mammino, K., Evancho, A., Weber, A., Krishnamurthy, L.C., Nocera, J.R. Aging-Related Changes in the GABAergic System: A Review. (Frontiers in Aging Neuroscience)

McGregor, K.M., Novak, T.N., Wolf, S.L., Nocera, J., Krishnamurthy, L.C. Effects of Acute Exercise on Functional Magnetic Resonance Spectroscopy Measures of GABA in Aging and Chronic Stroke: Study Protocol (PLoSOne)

Bohsali, A. A., Krishnamurthy, V., Champion, G., Novak, TN., Nocera, JN, McGregor, KM., Mammino, K., Nocera, J. R., Bello, M., Zöllner, H., Calhoun, V., Krishnamurthy, L. C. Participant weight impacts radio frequency transmitter amplitude and signal-to-noise ratio in GABA-edited magnetic resonance spectroscopy data of older participants

### ***Manuscripts/Book Chapters In Preparation***

Morris, D., Dos Anjos, S., Evancho, A., McGregor, KM., King, B., Wylie, E., Neuroplasticity and Physical Therapy. (Physical Therapy)

McGregor, K.M.\*, Safavynia, SA.\*, Cassim, T., George, K., Krishnamurthy, LC., Novak, T., Snitzer, J., Woodbury, A., Nocera, J., Crosson, B., Garcia, PS. Influence of pharmacology and age on short intracortical inhibition evaluated with transcranial magnetic stimulation. (Anesthesiology and Analgesics)

Novak, TN., Walters, CJ., Crosson, B., Krishnamurthy, L. C., Krishnamurthy, V., Hortman, K., Gopinath, K., Wolf, SL, Butler, AJ, Mammino, K., Nocera, J. R., McGregor, K.M. Variability in inhibitory function reflects changes in motor performance after physical exercise (Aging Research)

Champion, G., Gradone, A., Masura, M., McGregor, K.M., Nocera, JR, Barber, S.J., Krishnamurthy, LC., Dotson, V. Changes in Resting State Networks in Subclinical Depression after Aerobic Exercise Intervention. (Journal of the International Neuropsychological Society)

Tran, S.M., McGregor, K.M., James, G.A., Gopinath, K.S., Krishnamurthy, L.C.,

Krishnamurthy, V., Crosson, B. Alterations in Functional Connectivity in Early Midlife. (Brain Imaging and Behavior)

### **Book Chapters**

Nocera, J., McGregor, KM. & Serra, M. (In Press) *APA Handbook of Neuropsychology Volume 1: Neurobehavioral Disorders and Conditions: Accepted Science and Open Questions*.

Nocera, J., McGregor, KM. (2019) Aging with Parkinson's Disease. In Gatchel, R. J., Schultz, I. Z., & Ray, C. T. *Handbook of Rehabilitation in Older Adults*. Springer International Publishing.

Crosson, Bruce, and Keith M. McGregor, 'Aging-Related Changes in Neural Substrates of Motor and Cognitive Systems', in Joseph I Tracy, Benjamin M Hampstead, and Krishnankutty Sathian (eds), *Cognitive Plasticity in Neurologic Disorders* (New York, Oxford Academic, 1 Mar. 2015), <https://doi.org/10.1093/med/9780199965243.003.0012>.

Crosson, B., Garcia, A., McGregor, K., Wierenga, C. E., & Meinzer, M. (2013). The impact of aging on neural systems for language. In S. Koffler, J. Morgan, I. S. Baron, & M. F. Greiffenstein (Eds.), *Neuropsychology: Science and practice*, I (pp. 149–188). Oxford University Press.

Schmidt, R.C., McGregor, K.M. (1997) The Auditory Coordination of Between-Person Rhythmic Movements. In J. Kennedy (Ed.) *Studies in Perception and Action IV*. pp. 302-305. Mahwah, NJ: Lawrence-Erlbaum Assoc.

### **Presentations & Abstracts**

McGregor, K.M., T. S. Novak, G. Champion, C, J. R. Nocera. Neurophysiological Mechanisms in Aging: Individual Differences and Response to Exercise. American Congress of Rehabilitation Medicine, Atlanta 2023.

Champion, G., Krishnamurthy, L.C., Nocera, J.R., Novak, T.S., Weber, A., Mammino, K.M., Bello, M.O. & McGregor, KM. Relationship of GABA Levels in Motor Cortex to Executive Function in Older Adults. American Congress of Rehabilitation Medicine, Atlanta 2023.

J. R. Nocera, C. Quan, K. Mammino, K. McGregor, T. S. Novak, V, Krishnamurthy. The Feasibility Of Exercise To Improve Cerebrovascular Health In Older Adults. American Congress of Rehabilitation Medicine, Atlanta 2023.

C. Quan, K. Mammino, T. S. Novak, K. McGregor., J. R. Nocera. The Impact Of Target Heart



Rate Adherence on Longitudinal Change in VO2 Max in a 12-Week Exercise Program. American Congress of Rehabilitation Medicine, Atlanta 2023.

Champion, G., Auerbach, A.M., Ambardekar, N., Novak, T., Woodbury, A., Rauch, S.A., McGregor, K.M., Leung, A.Y. & Gopinath, K.S. (2023, February 1-4). Resting-state functional connectivity impairments implicate CNS mechanisms underlying chronic pain and depression in Gulf War Veterans' Illness. Paper presented at International Neuropsychological Society Conference, San Diego, CA.

McGregor, K.M., T. S. Novak, J. R. Nocera, G. Champion, C. Walters, L. C. Krishnamurthy. Behavioral Changes Related to GABA Levels in Motor Cortex After 12-Week Exercise Training Programs. NeuroGateways Symposium UAB, 2023.

K.M. McGregor, J. Neva, J.A. Palmer. Aerobic Exercise Effects on Brain Function & Neuroplasticity Across the Lifespan & Disease. Symposium Presentation at American Society of Neurorehabilitation (ASNR), Charleston, SC, March 2023.

McGregor, K.M. (2023, February 1-4). Exploring GABA concentration changes in sensorimotor cortex in older adults during motor & cognitive performance. Poster presented at International Neuropsychological Society Annual Conference, San Diego, CA.

T. S. Novak, J. R. Nocera, G. Champion, C. Walters, L. C. Krishnamurthy, K. McGregor. Baseline Cortical Inhibitory Measures Predict Motor Learning in Older Adults, Society for Neuroscience, San Diego, CA, 2022.

Whitaker, B., McGregor, K. Functional Connectivity Networks in Older Adults with Subjective Cognitive Decline. Annual Biomedical Research Conference for Minoritized Scientists (ABRCMS) 2022.

McGregor, K., T. S. Novak, J. R. Nocera, G. Champion, C. Walters, L. C. Krishnamurthy. Changes in Functional GABA Levels in Motor Cortex in Older Adults. American Congress of Rehabilitative Medicine, Chicago 2022.

McGregor, K., T. S. Novak, J. R. Nocera, G. Champion, C. Walters, L. C. Krishnamurthy. Baseline Measures of Cortical Inhibition Predict Motor Performance Changes after Exercise Interventions. American Congress of Rehabilitative Medicine, Chicago 2022.

McGregor, K. Aging and Cortical Excitability: Recent Results from Functional Magnetic Resonance Spectroscopy. Alabama Imaging Consortium Pillar Meeting. September, 2022.

G. Champion, A. Woodbury, S. Rauch, K.M. McGregor, T. Novak, A. Auerbach, A. Leung, K. Gopinath. Resting state functional connectivity impairments implicate CNS mechanisms underlying chronic pain and depression in Gulf War Veterans' Illness. International Neuropsychological Society 2023, San Diego, CA.

T. S. Novak, J. R. Nocera, L. C. Krishnamurthy, K. M. McGregor. Exercise Effects on Cortical Inhibitory Function in the Aging System: Implications for Adaptive Motor Skill Acquisition. Poster Presented at Atlanta VA Research Day, May 2022.

Denmon, C, Wakeman, D., Vernon, M. McGregor K. M., Krishnamurthy, V., Krishnamurthy, L Stevens, J., Vaughan, C. Identification of Functional Connectivity Circuits in Persons with Parkinson's Disease and Urinary Incontinence. Poster Presented at Atlanta VA Research Day, May 2022.

McGregor, K.M. How exercise may change your mind about aging. University of Alabama - School of Medicine BRAINSweek Keynote. March 15, 2022.

McGregor, K.M. Mechanisms of Cortical Plasticity in Aging: Role of Exercise. Presentation at UAB School of Health Professions Rehabilitation Seminar, March 2022.

Champion, GC., Tighe, E., Dotson, V.M., McGregor, K.M. Understanding Individual Differences in Executive Function in Older Adults: Proposal. Poster Presented at Georgia State University's Cognitive and Affective Neuroscience Research Day, Feb 2022.

Gradone, A.M., McGregor, K.M., Nocera, J.R., & Dotson, V.M. Rostral anterior cingulate connectivity in older adults with subthreshold depressive symptoms. International Neuropsychological Society 2022 Annual Meeting, New Orleans, LA.

T. S. Novak, J. R. Nocera, L. C. Krishnamurthy, K. M. McGregor. The Behavioral Relevance of Aging-related Changes to Motor Cortical Receptor Dynamics. 2021 SfN Annual Meeting, Chicago, IL.

Champion, GC., Krishnamurthy, L.C., Novak., T., Nocera, JN., Mammino, K., McGregor, K.M., Changes GABA Concentration in Sensorimotor Cortex in Older Adults During Motor Skill Acquisition. 2021 SfN Annual Meeting, Chicago, IL.

C. Glassman, K.M McGregor, C. K. Wang, T Niu, L. Krishnamurthy. Blood flow in chronic stroke lesions: an improved model of brain-behavior relationships. Southeast Chapter Of The American Association Of Physicists In Medicine. Annual Meeting 2021. (Winner: First Prize Research Slam)

K.M. McGregor, L. Krishnamurthy, B. Crosson, J. Nocera. Age-Related Changes in Cortical Activation and the Implications for Behavior and Neurorehabilitation. Symposium Presentation: American Congress of Rehabilitative Medicine, Atlanta 2020.

K.M. McGregor, L. Krishnamurthy. Functional Magnetic Resonance Spectroscopy: Uses in Rehabilitation Research. Symposium Presentation (Chair): American Congress of Rehabilitative Medicine, Atlanta 2020.

C. Walters, J. Nocera, G. Champion, K.M. McGregor. Correlation Between Exercise-Induced Increases in VO<sub>2</sub> Peak and Motor/Cognitive Ability in Sedentary Older Adults. Poster Presentation: American Congress of Rehabilitative Medicine, Atlanta 2020.

K.M. McGregor, G. Champion, K. Mammino, P. Garcia, J. Omar, J. Nocera, L. Krishnamurthy. Changes in Gamma-aminobutyric Acid Concentrations in Sensorimotor Cortical Regions Following a 12-week Exercise Intervention in Older Adults. Poster Presentation: American Congress of Rehabilitative Medicine, Atlanta 2020.

Supiano, M., Alexander, N., Vaughan, C., Serra, M., McGregor, K.M. VA Research Funding Opportunities for Early to Established Investigators. 2020 AGS Annual Scientific Meeting, Long Beach, CA. (Postponed - COVID-19)

C. Walters, Nocera, J., Mammino, K., Bello, M., L. Krishnamurthy, K.M. McGregor. Variability in inhibitory function reflects changes in motor performance after physical exercise. Poster Presented at Annual Meeting of Cognitive Neuroscience Society, 2020 Boston (Virtual)

Minto, L.R., McGregor, K.M., Nocera, J., & Dotson, V.M. The Effect of Aerobic Exercise on Symptom Dimensions of Depression in Older Adults. Poster at the meeting of the International Neuropsychology Society, Denver, CO. February 2020.

A.M. Gradone, K.M. McGregor, L.C. Krishnamurthy, J.R. Nocera, & V.M. Dotson. Older Adults with Greater Depressive Symptoms Show Increased Functional Connectivity between Anterior DMN and Hippocampus. Cognitive Aging Conference, 2020, Atlanta GA.

K.M. McGregor, L. Krishnamurthy, V. Krishnamurthy, K. Mammino, B. Crosson, J. Nocera. Effects of a 12-Week Aerobic Spin Intervention on Resting State Networks in Previously Sedentary Older Adults. VISN 7 Research Symposium. University of Alabama - Birmingham, Birmingham VA Health Care System. November 2019.

K.M. McGregor, K. Mammino, P. Garcia, J. Omar, B. Crosson, J. Nocera. Influences of 12-

Week Physical Activity Interventions on Measures of Cortical Network Inhibition and Upper Extremity Motor Performance in Older Adults. VISN 7 Research Symposium. University of Alabama - Birmingham, Birmingham VA Health Care System. November 2019.

J. Omar, J. R. Nocera, M. R. Borich, B. A. Crosson, L. Krishnamurthy, V. Krishnamurthy, K. Mammino, K. M. McGregor. Impact of a 12-week aerobic exercise intervention on interhemispheric inhibition and motor control in sedentary older adults. 2019 SfN Annual Meeting, Chicago, IL.

McGregor, K. M., Crosson, B., Krishnamurthy, L. C., Gopinath, K., Krishnamurthy, V., Hortman, K., Mammino, K., Nocera, J. R. Effects of Physical Activity Interventions on Primary Motor Cortex BOLD Profile in Unimanual Movements. 2019 ASNR Annual Meeting, Chicago, IL.

Krishnamurthy, L. C., Krishnamurthy, V., Rodriguez, AR., McGregor, K. M., Hortman, K., McCouch, N., Roberts, S., Crosson, B. Not all lesioned tissue is equal: A new look at chronic stroke with Tissue Integrity Gradation via T2w T1w Ratio (TIGR). 4th Imaging Cerebral Physiology (ICP) symposium, Baltimore, MD, 2019.

Krishnamurthy, L. C., Champion, G., McGregor, K. M., Rodriguez, AR., Krishnamurthy, V., Hortman, K., Roberts, S., Crosson, B. Indirect evidence of Cortico-Thalamo-Cortical circuitry via Age- and Stroke-related declines in Thalamus volume. 4th Imaging Cerebral Physiology (ICP) symposium, Baltimore, MD, 2019.

Hernandez, O., Nocera, J., Mammino, K., Crosson, B., McGregor, K.M. Aging-Related Changes in Interhemispheric Inhibition Measured by TMS. Emory University, Student Obtaining Atlanta Research. April 12, 2019.

Harrington, R, Roberts, SR, Krishnamurthy, LC, Krishnamurthy, V, Rodriguez, AD, McGregor, KM, Meinzer, M, Crosson, B. Effects of Active and Sham tDCS on Lexical Decision in Three Persons with Aphasia. 3rd International Brain Stimulation Conference - 2019. Vancouver, BC.

Omar, J., Nocera, J., Borich, M., McGregor, K.M. "Effects of a 12-week Physical Activity Intervention on fMRI Measures of Finger Tapping in Previously Sedentary Older adults." Emory University, Senior Honors Defense. March 29, 2019.

McGregor, K. M., Crosson, B., Krishnamurthy, L. C., Krishnamurthy, V., Hortman, K., Gopinath, K., Mammino, K., Nocera, J. R. Effects of a 12-Week Aerobic Spin Intervention on Resting State Networks in Previously Sedentary Older Adults. Cognitive Neuroscience Society Meeting, March 2019, San Francisco, CA.

Gradone, A.M., McGregor, K.M., Nocera, J., & Dotson, V.M. Effect of aerobic exercise on default mode network activity in a late-life population. International Neuropsychological Society 2019 Annual Meeting, New York, NY

Kashyap, A., Sathian, K., Crosson, B., Krishnamurthy, V., McGregor, K., Bozzorg, A., ... & Marian, E. (2018, October). Neural Correlates of Effects of Internally-versus Externally-Guided Partnered Rehabilitation in Parkinson's. In ANNALS OF NEUROLOGY (Vol. 84, pp. S102-S102). 111 RIVER ST, HOBOKEN 07030-5774, NJ USA: WILEY.

Nocera, J., Crosson, B., Krishnamurthy, L., Krishnamurthy, V., McGregor, KM. Age-Related Changes in Cortical Activation and the Implications for Behavior and Neurorehabilitation. Gerontological Society of America Meeting 2018.

Goodman, E., Nocera, J., McGregor, K.M. Feasibility Of Remotely Monitoring The Heart Rates Of Senior Citizens In An Exercise Program Using Apple Watches. Emory Research Partnership Program Presentation, April, 2018.

Harrington, R, Roberts, SR, Krishnamurthy, LC, Krishnamurthy, V, Rodriguez, AD, McGregor, KM, Meinzer, M, Crosson, B (2018). Effects of active and sham tDCS on lexical decision in three persons with chronic aphasia. Neuromodec/North American Neuromodulation Society, New York City, New York.

Harrington, R, Roberts, SR, Krishnamurthy, LC, Krishnamurthy, V, Rodriguez, AD, McGregor, KM, Meinzer, M, Crosson, B (2018). Effects of active and sham tDCS on lexical decision in three persons with chronic aphasia. Society for Neurobiology of Language, Quebec City, Quebec.

McGregor, K.M. Aging-related Changes in Upper Extremity Dexterity: From Patterns to Potential Mechanisms. Brain Health Center Research Day. April 14, 2018.

Arthur LM, Krishnamurthy VK, Krishnamurthy LC, Mammino, K, Crosson B, Nocera JR, McGregor KM. Effects of Aerobic Exercise Training on Executive Function in Older Adults. Emory University Research Partnership Program, May, 2018.

Griffiths, P., Graham, A., Chen, YA., McGregor, K.M., Elkins, J. Using Technology to Support Rural Veterans in Later-Life: Inter-Personal, Institutional and Dyadic Considerations. 2018 Southern Gerontological Society/Georgia Gerontological Society Joint Conference. Lake Lanier, GA.

L.C. Krishnamurthy, V. Krishnamurthy, A. Rodriguez, M. Benjamin, K. M. McGregor, A. Sudhyadhom, K. Gopinath, B. Crosson. Gliosis+ for continuous lesion quantification in VLSM to map brain-language relationships. Ninth Annual Meeting of the Society for the Neurobiology of Language, Baltimore, MD, 2017.

K.M. McGregor, J.R. Nocera, M.K. Whitney. Improved Mobility in Rural Veterans Using the Apple Watch. 2nd Annual VA Center for Innovations Demonstration Day. September, 2017. Georgetown University, DC.

M. Serra, J. Nocera, T. Buford, K. M. McGregor. Multidisciplinary Approaches to Exercise Therapy in the Prevention of Late-Life Disability Symposium #294444, American Congress of Rehabilitative Medicine, Atlanta 2017.

M. Hackney, K.M. McGregor. Internally and Externally Guided Movement in Individuals With Neurodegenerative Disease. Symposium #299810, American Congress of Rehabilitative Medicine, Atlanta 2017.

K.M. McGregor, J.R. Nocera, K. Mammino, B. Crosson, A.J. Effects of Aging on GABA<sub>A</sub> Receptor Function after Midazolam Administration. Annual Meeting of the American Society for Neurorehabilitation, 2017, Washington, DC.

J. Omar, J. Nocera, K.M. McGregor. Gamma-aminobutyric Acid (GABA) and Executive Function in Healthy Older Adults. Summer Undergraduate Research Experience Presentation Day. Decatur, GA. August, 2017.

K.M. McGregor. Discover Ways to Best Support Residents/Clients with Sensory Disorders as they Age. Keynote Address: Bridgebuilders Aging Conference, Atlanta GA, July 29, 2017.

K.M. McGregor, J.R. Nocera, K. Mammino, B. Crosson, A.J. Butler. Effects of an Aerobic Exercise Intervention on Aging-Related Changes in Interhemispheric Inhibition. Emory Brain Health Center Research Day, March 11 2017, Emory University.

E. Bowler A., Rejimon, J. Nocera, K.M. McGregor. Effect of aerobic exercise on age-related loss of interhemispheric inhibition. Emory University Department of Medicine Research Day. Decatur, GA. October, 2016.

J. H. Drucker, K. Sathian, B. Crosson, K. M. McGregor, L. C. Krishnamurthy, V. Krishnamurthy, A. Bozzorg, D. M. Corcos, S. L. Wolf, M. E. Hackney. Internally Guided Lower Limb Movement Recruits Compensatory Cerebellar Activity in Parkinson's Disease. Emory University Department of Medicine Research Day. Decatur, GA. October, 2016.

A.Rejimon, J. Nocera, K.M. McGregor. Quantifying Vascular Dynamics in Inferior Frontal Regions Using BOLD Signal Derived from Echo Planar Imaging. Emory STEM Research and Career Symposium, Laney Graduate School, September, 2016.

A.Rejimon, J. Nocera, K.M. McGregor. Quantifying Vascular Dynamics in Inferior Frontal Regions Using BOLD Signal Derived from Echo Planar Imaging. Emory Summer Undergraduate Research Symposium, August, 2016.

J. H. Drucker, K. Sathian, B. Crosson, K. M. McGregor, L. C. Krishnamurthy, V. Krishnamurthy, A. Bozzorg, D. M. Corcos, S. L. Wolf, M. E. Hackney. Internally guided lower limb movement recruits compensatory cerebellar activity in Parkinson's disease. Society for Neuroscience Annual Conference, November 2016, San Diego, CA.

K.M. McGregor, J.R. Nocera, B. Crosson, A.J. Butler. Effects of an Aerobic Exercise Intervention on Aging Related Changes in Interhemispheric Inhibition. American Society of Neurorehabilitation Annual Meeting, November 2016, San Diego, CA.

J. Nocera, K. Mammino, B. Crosson, K.M. McGregor. Changes in Cortical Activation Patterns in Language Areas Following Aerobic Exercise in Older Adults Session: Physical Activity Interventions in Older Population. 2016 Annual Meeting, ACSM World Congress on Exercise is Medicine, Boston, MA.

A.N. Landry, K.M. McGregor, B. Crosson, J.R. Nocera, C.P. Vaughan. Central control mechanisms associated with urinary incontinence in Parkinson's Disease. Emory Summer Undergraduate Research Conference 2016.

K.M. McGregor, Ü. Sakoglu, K. Gopinath, D. Gokcay. TMS and fMRI: Convergent, Divergent or Emergent Modalities. Session: Advances in fMRI (T-AFMRI) MICCAI Satellite Workshop. Athens, Greece, 2016.

J. H. Drucker, K. M. McGregor, , C. M. Epstein, & B. Crosson. Does right frontal activity help or hurt word retrieval? Plenary Session at 7th Annual Meeting of the Society for the Neurobiology of Language, Chicago, October 2015.

Nocera, J., McGregor, K., & Crosson, B. (2015). The Effectiveness Of Combining Cognitive Training And Exercise To Improve Function In Sedentary Older Adults. *Gerontologist*. 55, 144-144.

K.M. McGregor, J.R. Nocera, B. Crosson, A.J. Butler. Improved Interhemispheric Inhibition after 12-weeks of Cardiovascular Exercise. American Society of Neurorehabilitation Annual

Meeting, October 2015, Chicago, IL.

A.N. Landry, K.M. McGregor, B. Crosson, J.R. Nocera, C.P. Vaughan. Central control mechanisms associated with urinary incontinence in Parkinson's Disease. KUH Undergraduate Research Conference 2015.

Adams C, McGregor KM, Garcia P, Nocera JR The effects of aerobic exercise on sleep outcomes in older adults. Medical Student Research Day. Emory University-April 23, 2015.

J. Nocera, K.M. McGregor, B. Crosson. The Effectiveness Of Combining Cognitive Training and Exercise to Improve Function In Sedentary Older Adults. Gerontological Society of America 2015 Annual Meeting, Atlanta, GA.

K.M. McGregor, J. Nocera, B. Crosson, A.J. Butler. Effect of an aerobic exercise intervention on neurological markers of aging. 2015 Dallas Aging and Cognition Conference. Center for Vital Longevity, UTSW, Dallas.

K. M. McGregor, J. Nocera, B. Crosson, A. Butler. Effects of Short-Term Cycling Exercise on TMS Assessments of Interhemispheric Inhibition. Cognitive Neuroscience Society Annual Meeting 2015, San Francisco, CA. March 30-April 1.

B. Crosson, I. Levy, S. Towler, M. Benjamin, K.M. McGregor, J. Reilly. Older Adults Fail to Show Activity Increases for Inhibition on Hayling Task. Society for the Neurobiology of Language Annual Meeting 2014, Amsterdam, Netherlands.

K. M. McGregor, J. Nocera, B. Crosson, A. Butler. Effects of Short-Term Cycling Exercise on Functional Measures of Aging Related Changes in Upper Extremity Function. American Society of Neurorehabilitation Annual Meeting, November 2014, Washington, D.C.

K. M. McGregor, A. Sudhyadhom, B. Crosson, A. Butler. Reliability of Negative BOLD Response Across Age Groups. Cognitive Neuroscience Society Annual Meeting, April 2014, Boston, MA.

K. M. McGregor, D. Vaillancourt, A. Sudhyadhom, B. Crosson, A. Butler. Visual Gain Modulation in Older Adults - Effects on Movement Tracking. 2014 Meeting of the International Neuropsychological Society, Seattle, WA.

K. M. McGregor, A. Sudhyadhom, B. Crosson, A. Butler. Reliability of Negative Bold in the Primary Motor Cortex. American Society of Neurorehabilitation Annual Meeting, November 2013, San Diego, CA.

K. M. McGregor, K. Heilman, C. Patten, T. Manini, J. Nocera, B. Crosson, A. Butler. Interhemispheric Communication and Aging. Annual Meeting of the Neural Control of Movement Society, April 2013. (San Juan, PR)



K. M. McGregor, K. Heilman, C. Patten, T. Manini, J. Nocera, B. Crosson, A. Butler. Aging, Aerobic Activity and Interhemispheric Communication. Annual Meeting of the Cognitive Neuroscience Society April 2013. (San Francisco, CA)

A. A. Ford, W. Triplett, A. Sudhyadhom, J. Gullett, K.M. McGregor, D. B. FitzGerald, T. Mareci, K.D. White, B. Crosson. Thalamus and its connections with Broca's area: A diffusion-MRI tractography study. Society for Neuroscience Annual Conference, New Orleans, 2012.

A. M. Garcia, K. Moffett, M. Benjamin, S. Towler, H. McKently, K. M. McGregor, A. Ford, S. Naddaf, L. J. G. Rothi, G. R. Finney, K. M. Heilman, B. Crosson. Cortical density associations with language performance in Alzheimer's disease. Society for Neuroscience Annual Conference, New Orleans, 2012.

K. M. McGregor, A. Sudhyadhom, N. Mujahid, C. Patten, T. Manini, J. Nocera, B. Crosson. Neural Correlates of Aerobic Fitness in Mid-Life. Annual Meeting of the Cognitive Neuroscience Society April 2012. (Chicago, IL)

Benjamin, M.L., McGregor, K.M., Sudhyadhom, A., Trinastic, J.P., Seeds, L., Levy, I., Garcia, A.M., Selbst, J.F., Bauer, R.M., Rosenbek, J., & Crosson, B. Cortical-Subcortical Functions in Verb and Noun Generation in Healthy Aging. Annual Meeting of International Neuropsychological Society, February, 2012. (Montreal, Canada)

A. Sudhyadhom, K. M. McGregor, M. Okun, K. Foote, J. Trinastic, B. Crosson, F. Bova. Delineation of Motor and Somatosensory Thalamic Subregions Utilizing Probabilistic Diffusion Tractography and Electrophysiology. 2011 Meeting of the American Association of Physicists in Medicine. (Vancouver, BC)

K. M. McGregor, H. Carpenter, E. Kleim, A. Sudhyadhom, J. Kleim, K. White, B. Crosson. Motor Mapping and Aging: An fMRI/TMS Study. Annual Meeting of the Cognitive Neuroscience Society, April 2011. (San Francisco, CA)

Cohen ML, Zlatar ZA, McGregor KM, Bauer AR, Phan S, Heilman KM, Crosson B. Changes In Finger Tapping Variability Between Unimanual And Dual-Task Performance as a Function Of Age and Aerobic Fitness. Annual Meeting of the International Neuropsychological Society. Boston, MA, 2011.

K. M. McGregor, H. Carpenter, E. Kleim, A. Sudhyadhom, J. Kleim, K. White, B. Crosson. Motor Variability Across Age Groups. 2nd Annual Meeting of Institute of Aging, 2011. (Gainesville, FL)

A. Ford, K. M. McGregor, B. Crosson, K. White. Poster presented at the 16<sup>th</sup> Annual Meeting of the Organization for Human Brain Mapping, Barcelona, Spain, 2010.

McGregor, K.M. , Zlatar, Z., Kleim, E., Ford, A., White, K.D., Kleim, J., Bauer, A., Phan, S., Crosson, B. Neurophysiological Correlates of the Effects of Aerobic Fitness on Aging. Neural Control of Movement Society Meeting, April 2010, Naples, FL.

K. M. McGregor, Z. Zlatar, E. Kleim, A. Ford, A. Bauer, S. Phan, L. Seeds, J. Kleim, K. White, B. Crosson. Effects of Aerobic Fitness on Aging Related Changes in Interhemispheric Communication. Annual Meeting of the Cognitive Neuroscience Society, April 2010. (Montreal, Canada)

Z. Zlatar, K. M. McGregor, A. Bauer, S. Phan, M. Cohen, B. Crosson. Brain activity Differences between sedentary and physically active older adults during word retrieval: A cross-sectional functional magnetic resonance imaging (fMRI) study. 2010 Annual Meeting of the Cognitive Neuroscience Society (Montreal, Canada)

A. Ford, K. M. McGregor, K. Horn, B. Crosson, K. White. Anatomical Connectivity of Broca's Area and the Medial Frontal Cortex. 15<sup>th</sup> Annual Meeting of the Organization for Human Brain Mapping, San Francisco, CA, 2009.

Z. Zlatar, I. Levy, M. Benjamin, K. M. McGregor, M. Cohen, J. Trinastic, and B. Crosson. Nonfluent Aphasia: The Relationship between Degree of Left- Hemisphere Lesion, Homologous Brain Activity, and Performance. 2009 Gerontological Society of America Annual Meeting (Atlanta, GA).

M. Cohen, M.L. Benjamin, K.M. McGregor, Y. Chang, K.D. White, C. Rackelman, M. Sherod, I. Levy, Z. Zlatar & B. Crosson. Dedifferentiation of Function in Older Adults During Category Member Generation. Annual Meeting of the International Neuropsychological Society. Atlanta, GA, 2009.

Z. Zlatar, I. Levy, M. Benjamin, K. M. McGregor, M. Cohen, J. Trinastic, B. Crosson. Lesion Severity Predicting Right-hemisphere Homologous Activity and Treatment Improvement in Non-fluent Aphasia. Annual Meeting of the International Neuropsychological Society. Atlanta, GA, 2009.

K. M. McGregor, M. Benjamin, Yu-Ling Chang, Z. Zlatar, C. Rackelman, M. Gaiefsky, I. Levy, K. White, and B. Crosson. "Age Group Comparisons in Category Member Generation Tasks: Effect of Stimulus Design. 36th Annual International Neuropsychological Society Meeting", Waikoloa, HI, 2008.

M. Benjamin, K. M. McGregor, Yu-Ling Chang, K D. White, C. Rackelman, M. Sherod, I. Levy, and B. Crosson "Hemispheric Asymmetry Reductions in Older Adults during Category Exemplar Generation." 36th Annual International Neuropsychological Society Meeting, Waikoloa, HI, 2008.

Q. Zhao, T. W. Conway, K. D. White, K. M. McGregor, A. Ford, and B. Crosson. Test-retest Reliability of functional MRI using Smart Phantom Analysis. 15<sup>th</sup> Annual Meeting of the ISMRM, Berlin, Germany, May 19-25, 2008.

B. Crosson, K. M. McGregor, K. White, K. Gopinath, A. Moore, A. Raymer, A. Wabnitz, M. Gaiefsky, R. Briggs. "Can Manipulating Intention Change Frontal Lateralization for Word

Production during Aphasia Treatment? " 2007 Meeting of the Cognitive Neuroscience Society, New York, NY, May, 5-8.

K. M. McGregor, K. White, M. Benjamin, B. Kluger., V. Drago, K. Heilman, B. Crosson. "Negative BOLD Across Age Groups: Comparisons in a Crossed Response Task" 2007 Meeting of the Cognitive Neuroscience Society, New York, NY, May, 5-8.

B. Kluger, K. M. McGregor, K.D. White, M. Benjamin, V. Drago, K. Heilman, B. Crosson. "An fMRI Study of the Crossed Response Inhibition Task in Parkinson's Disease." 2007 Meeting of the Cognitive Neuroscience Society, New York, NY, May, 5-8.

K. M. McGregor, K. White, M. Benjamin, J. Craggs, B. Crosson. "Age-related Changes in BOLD Signal Direction During a Complex Unimanual Response Task." 2nd Annual University of Florida Neuromuscular Plasticity Symposium, December 1, 2006.

K. M. McGregor, K. White, M. Benjamin, J. Craggs, B. Crosson. "Age-related Differences in Prevalence of Negative BOLD." 2006 Meeting of the Cognitive Neuroscience Society, San Francisco, CA, April 7-11.

T. Perez, A. Orynich, K. M. McGregor, K. White, M. Benjamin, M. Kurtzman, M. Gaeifsky, C. Wierenga, K. Peck, K. Gopinath, R. Briggs, B. Crosson. "Changes in Activation of Neural Substrates in two patients with agrammatic aphasia after syntactic mapping treatment." 2006 Meeting of the Cognitive Neuroscience Society, San Francisco, CA, April 7-11.

K.M. McGregor, K.D. White, A.B. Moore , L. M. Maher, K.K. Peck, C. E. Wierenga, K. Gopinath, M. Kurtzman, M. Gaeifsky, A.Wabnitz, M. Benjamin, D. A. Soltysik , R. Briggs, B. Crosson. "An fMRI Investigation of Sentence Generation Attempts by Chronic Non-fluent Aphasics." 34<sup>th</sup> Annual Meeting of the International Neuropsychological Society, Boston, MA, February 1-5, 2006.

Y. L. Chang, T. Conway, D. Kendall, K. M. McGregor, K. Gopinath, K. K. Peck, M. Benjamin, M. Kurtzman, M. Gaiefsky, A. Wabnitz, T. Perez, L. J. Gonzalez Rothi, K. D. White, B. Crosson. "BOLD fMRI Reveals Neural Reorganization of Overt Pseudoword Repetition Following Phonological-Motor Treatment of Phonological Alexia in Nonfluent Aphasia." 34<sup>th</sup> Annual Meeting of the International Neuropsychological Society, Boston, MA, February 1-5, 2006.

A. Orynich, T. Perez, K. M. McGregor, M. Benjamin, M. Kurtzman, M. Gaeifsky, C. Wierenga, K. Peck, K. Gopinath, R. Briggs, B. Crosson, K. D. White. "Time Courses of fMRI Activations Spanning The Stimulus-Response Interval During Word Generation By Nonfluent Aphasics." 34<sup>th</sup> Annual Meeting of the International Neuropsychological Society, Boston, MA, February 1-5, 2006.

Li, Y., Zhao, Q., Limkeman, M., Conway, T., White, K.D., McGregor, K.M., Crosson, B. "Characterization and suppression of noise due to scanner instability in fMRI using a SMART PHANTOM BOLD simulator." 14<sup>th</sup> Annual Meeting of the ISMRM, Seattle, WA, May 6-12,

2006.

Zhao, Q., Li, Y., Limkeman, M., Conway, T., White, K.D., McGregor, K.M., Crosson, B. "fMRI test-retest reliability using a Smartcoils device." 14<sup>th</sup> Annual Meeting of the ISMRM, Seattle, WA, May 6-12, 2006.

Kurtzman, M., White, K., McGregor, K.M., Ritz, L. "Functional Magnetic Resonance Imaging of Emotional Reactivity and Wisdom Assessment of Meditators and Non-Meditators." 2006 Meeting of the CCS, Tuscon, AZ, April 5-7.

J.M. Lee, J Hu, J B Gao, K D White, B. Crosson, C.E. Wierenga, K. McGregor, K.K. Peck. Identification of brain activity by fractal scaling analysis of functional MRI data. Proceedings. (ICASSP '05). IEEE International Conference 02/2005.

Gaiefsky M., Moore A., McGregor K.M., White K., Wierenga C. , Peck K.,Gopinath, K., Wabnitz, A., Raymer, A., Gonzalez-Rothi, L., Briggs R., and Crosson, B. "fMRI of Language Rehabilitation: Seeing versus Saying." 33<sup>rd</sup> Annual Meeting of the International Neuropsychological Society, St.Louis, MO, February 1-5, 2005.

Wabnitz A., Jasper B., Moore A., Crosson B., McGregor, K.M., Gopinath, K., Wierenga, C., Gaiefsky, M., Peck, K., Briggs, R., Conway, T., Gonzalez Rothi, L., White, K. "fMRI Reveals Subcortical Activations That Bridge The Stimulus-Response Interval During Word Generation By Nonfluent Aphasics." 33<sup>rd</sup> Annual Meeting of the International Neuropsychological Society, St.Louis, MO, February 1-5, 2005.

Anna Bacon Moore, Keith McGregor, Megan Gaiefsky, Kaudinya Gopinath, Kung K. Peck, Ashley Wabnitz, Keith D. White, Leslie J. Gonzalez-Rothi, PhD, Anastasia M. Raymer, PhD, Richard Briggs, Bruce Crosson. Neural Substrates of Word Retrieval Training for Nouns in Aphasia. Archives of Physical Medicine and Rehabilitation, 85, 8-10.

## **Editorial Positions**

Associate Editor- *Frontiers in Behavioral Neuroscience, section Behavioral Neuroscience Archive* (2022 - present)

Review Editor - *Frontiers in Neurology - Neurorehabilitation Section* (2019 - present)

Review Editor - *Frontiers in Neurology - Movement Disorders Section* (2020 - present)

Review Editor - *Frontiers in Neurology* (2021 - present)

Guest Editor - *International Journal of Environmental Research and Public Health* (2020 - present)

Section Editor: Neuroplasticity - *Encyclopedia of the Human Brain: 2nd Edition* (2024)

## **Committee Assignments**

American Congress of Rehabilitation Medicine: Lifestyle Medicine Networking Group

American Congress of Rehabilitation Medicine: Military/Veterans Affairs Networking Group

American Congress of Rehabilitation Medicine: Neuroplasticity Networking Group

American Congress of Rehabilitation Medicine: Technology Networking Group

American Congress of Rehabilitation Medicine: Stroke Interdisciplinary Special Interest Group (STROKE-ISIG)  
 UAB School of Health Professions Grants Review Committee  
 UAB School of Health Professions Strategic Planning Lead - Department of Clinical and Diagnostic Sciences  
 UAB School of Health Professions Department of Clinical and Diagnostic Science - Research Committee (Chair)  
 UAB School of Health Professions Department of Clinical and Diagnostic Science Research Day Committee  
 UAB School of Health Professions Department of Clinical and Diagnostic Science Health Physics Faculty Search Committee  
 UAB School of Health Professions Department of Clinical and Diagnostic Science Nuclear Medicine Faculty Search Committee  
 UAB School of Health Professions Department of Clinical and Diagnostic Science Equity and Inclusivity Working Group

## Advisory Boards

Birmingham/Atlanta VA Geriatric Research, Education, and Clinical Center (GRECC) Advisory Committee (2019 - 2020)  
 UAB School of Health Professions Research Strategic Planning Committee (2022 - )  
 UAB Department of Computer and Electrical Engineering Advisory Board (2022 - )

## Grants

(2023-2024) American Academy for Cerebral Palsy and Developmental Medicine Pilot Award **Co-I** (Harshvardhan Singh - PI) Feasibility and response of functionally loaded high-intensity circuit training on physical activity in adolescents with cerebral palsy. (\$25,000)

UAB HSF-GEF (2023-2024) **Co-Investigator** (Nate Erdmann, MD, PI) Multidisciplinary interventional treatment of neurocognitive impairment in Long COVID. (\$208,486)

NSF AWARD 2220677 - YND4PLMC9AN7 - (2022-2025) **Co-Principal Investigator (Dr. W. Jamie Tyler, PI)** - NCS-FO A transformative approach for mapping spatial and temporal dynamics of anterior cingulate function in human. (\$983,730)

2022- 2024 - I21RX003612-03 **Co-Investigator (Dr. Chen Lin, PI)** Feasibility of combination exercise and neuromodulation rehabilitation to improve post-stroke chronic pain (\$230,000)

2021-2023 - I21RX003581- **Principal Investigator.** Effects of Acute Exercise on Functional Magnetic Resonance Spectroscopy Measures of GABA in Aging and Chronic Stroke, (\$199,676)

2019-2022- 1I01RX002619-01 - **Principal Investigator.** “Effects of Aging on Cortical Excitability During Motor Learning” U.S. Department of Veterans Affairs Administration

(\$827,157)

2019-2022 W81XWH-19-1-0691 - GW180105 - **Site Principal Investigator** - Atlanta. “Long Term Efficacy of Neuronavigation-Guided rTMS in Alleviating Headache Pain in GWI.” US Department of Defense. Department of the Army. (\$1,180,691)

2019 - IS1BX004785-01- **Principal Investigator** - Shared Equipment Evaluation Program (VA) A Combined EEG/tDCS System for Neurostimulation and Biofeedback (\$75,025)

2019-2024 - 1I01CX001986-01 - **Site Principal Investigator** - Atlanta. “rTMS in alleviating Pain and Co-morbid symptoms in GWVI.” U.S. Department of Veterans Affairs Administration (\$2,012,197)

2021-2026 -GW200035 - (**Co-Investigator**) - Exploring Mechanisms underlying Dysregulation of Central Nervous System in GWI-HAP US Department of Defense. Department of the Army. (\$866,529) (K. Gopinath - PI)

2019 - 1I01RX002825-01- **Co-Investigator** - Graded Intensity Aerobic Exercise to Improve Cerebrovascular Function and Performance in Aged Veterans. U.S. Department of Veterans Affairs Administration (\$1,095,182) (J. Nocera - PI)

2016-2019- **Co-Principal Investigator** - VA Office of Rural Health/VA Innovations Funding. “Improved Mobility in Rural Veterans Using the Apple Watch.” U.S. Department of Veterans Affairs Administration. (\$785,000)

2013-2017 - IK2RX000956- E0956-W - **Principal Investigator**, Career Development Award (CDA2) "Effects of Physical Fitness Intervention on Neurological Markers of Aging" Division of Research, Rehabilitation Research and Development, U.S. Department of Veterans Affairs Administration. (\$989,000)

2016- 1I21RX002386-01A1 - Principal Investigator. “Improving Efficacy of Exercise Intervention with a Novel Telerehabilitation App” Department of Veterans Affairs Small Projects in REhabilitation (SPiRE) (NOT FUNDED)

2015 - 1IS1BX003135-01 - **Principal Investigator**. Shared Equipment Evaluation Program (VA) "MRI compatible TMS system" Division of Research and Development, U.S. Department of Veterans Affairs Administration. (\$164,870)

2010-2012 - **Principal Investigator**, Career Development Award (CDA1) "Effects of Physical Fitness on Neurological Markers of Aging" Division of Research, Rehabilitation Research and Development, U.S. Department of Veterans Affairs Administration. (\$151,000)

2008-2009 - **Principal Investigator** - Predoctoral Fellow, “Aerobic Exercise and Aging” Office of Academic Affairs, Research Rehabilitation Predoctoral Fellowship, U.S. Department of Veterans Affairs Administration.(\$26,000)

## Teaching

### *Course Director:*

- NEUR4020/PSYC4105 - Cognitive Neuroscience - Georgia State University (S2019)
- BMD478- Contemporary Issues & Literature in Biomedical Sciences (F2023)

### *Course (Co)-Director-* University of Alabama at Birmingham

- BMD475 - Capstone Experience - Biomedical Sciences Program, Department of Clinical and Diagnostic Sciences (F2022; S2023)

### *Lecturer* - University of Alabama at Birmingham

- ANSC 655. Neuroscience
- BMD201 - Contemporary Issues in Biomedical Sciences
- BHS550 - Integrated Systems I: Neuroendocrine

### *Lecturer* - Emory University

- DPT-301(2)-NEU - Lecturer, Department of Physical Therapy, Neuroscience (2014); Motor Control and Learning (2014-2021) - Emory School of Medicine
- *Grand Rounds Lectures-* Emory University Department of Rehabilitation Medicine (1/2013); Emory University Department of Geriatrics (8/2013; 6/2016; 4/2018); Department of Neurology (4/2016)

### *Lecturer* -University of Florida/Malcom Randall VA Medical Center:

- Functional Human Neuroanatomy (S2004)
- Sensory Processes (F2006); Sensory Processes Lab (F2006)
- Aging & the Brain; Methods in Cognitive Neuroscience (F2011)
- Psychology Departmental Seminar (2003-2009)
- Institute on Aging Seminar (10/2011)
- Center for Neuropsychological Studies Guest Lecture (3/2012)
- VA Brain Rehabilitation Center Seminar Series Featured Speaker (2008-2011)
- McKnight Brain Institute Graduate Lecture (2006, 2010)

### *Invited Lectures*

- Atlanta/Birmingham GRECC Featured Speaker - University of Alabama at Birmingham (8/2016)
- VAMC CVNR Center Seminar Series Coordinator (12/2013 - 6/2014)
- Instructor - Aging and the Brain (Emory University - Briarcliff Campus) (2012)
- Georgia Falls Coalition Guest Lecture (10/2012)
- Emory Functional Neuroimaging Group Lecture Series (4/2013)
- Perimeter Area Learning Services - Invited Lecture (10/2013)
- VAMC CVNR - Symposium Speaker - Bettye Rose Connell Memorial Panel Symposium (4/2014)

- Georgia State University Neuroimaging Symposium 2014 - Invited Speaker (4/2014)
- Atlanta Regional Civitan Annual Meeting - Featured Speaker (4/2014)
- Decatur Civitan Group - Keynote Speaker (5/2014)
- Featured Guest - City of Decatur, GA - “Walk with a Doc” Educational Group (6/2014 & 6/2016)
- Emory University School of Medicine - Summer Science Academy Instructor (5/2014 - 7/2014)
- Osher Lifelong Learning Institute (OLLI), Atlanta, GA- Feature Speaker (7/2014); (5/2016)
- Plenary Speaker - 8th Annual Brain Health Forum, Carter Center, Atlanta, GA (10/2014)
- DeKalb County School System - Guest Lecturer (11/2014)
- Decatur School System - Guest Lecturer (1/2017; 4/2017)
- Atlanta Montessori International School - Guest Lecturer (5/2015)
- VA TeleHealth Initiative Training Core - Guest Instructor (5/2015)
- VA Mobility Training Core - Guest Instructor (6/2015)
- Feature Speaker - VA Research Service Meeting - (10/2015)
- EMORY DREAMS Lecture (12/2015; 3/2016)
- Bridgebuilders Annual Conference on Aging - Keynote Address (7/29/2017)
- Atlanta Health Care System Whole Health 1st Friday - Speaker (8/2/2019)
- Wesley Woods Invited Speaker - (3/1/2020)
- Emory/VA Tele Acquisition Huddle Featured Speaker (09/8/2020)
- Emory BRAINTALK - Invited Speaker (1/19/2021)
- Georgia State Brains & Behavior Distinguished Seminar Speaker (2/19/2021)
- Department of Veterans Affairs National Center/REAP Annual Meeting Speaker (4/26/2021)
- Georgia State University: NSF Centers of Research Excellence in Science and Technology (2023)
- UAB Comprehensive Neuroscience Center - Neuroscience Cafe (10/2023)

### Mentorship

#### Faculty mentorship

- UAB Center for Clinical and Translational Science: JieBo (Jenny) Gao, PhD
- VA Career Development Award Applications: Lisa Krishnamurthy, PhD; Thomas Novak, PhD

#### Graduate Committees:

- Xiao Zhou (UF); Stella Tran (GSU); Andrew Gradone (GSU); Gabriell Champion (GSU); Clara Glassman (Georgia Tech); Swetha Ravichandran (UAB); Ayat Najmi (UAB - Chair); Ashton Weber (UAB - Chair)

#### Other Mentorship:

- University of Alabama at Birmingham Summer Research Mentor - Bryana Whitaker (2022) - Barry Goldwater Foundation Fellow, 2023



- University of Alabama at Birmingham School of Health Professions Honors Research Mentor - Saloni Swamy, Ashley Chapman, Lola Lewis, Joline Ugbo (2022 - 2024)
- Emory Summer Undergraduate Research Experience (SURE) Mentor - Abinand Rejimon (5/2016-9/2016); Javier Omar (5/2017-9/2017); Caroline Quan (2021 - 2022)
  - Emory Student Internship Research Experience: Javier Omar (8/2017-6/2018); Lily-Michelle Arthur (8/2017-6/2018); Omar Hernandez (2018-present); Elayna Goodman (2018-2019); Yash Kommula (2019-2020); Jessie Brightman (2020); Caroline Quan (2021)
- SCANAS Preceptor - Omar Hernandez (2020)
- National Brain Bee Mentor - Veda Dayananda (2021) Georgia State Winner; Southeast Regional Winner; Fourth Place Nationally
  - Emory Senior Honors Thesis Mentor: Javier Omar (2018-2019) *Summa Cum Laude* (PhD Student: Stanford University School of Education)
  - Emory School of Medicine Discovery Mentor - Erin C. Bowler (5/2016-1/2017); James Snitzer (7/2020-2/2021)

## Awards and Honors

Cum Laude (Holy Cross 1997)  
 Holy Cross Scholarship (1993-1997)  
 Howard Hughes Summer Research Fellowship (1996)  
 Linton E. Grinter Fellowship (2003-2005)  
 Veteran's Affairs Office of Academic Affairs Rehabilitation Research Fellowship (2009)  
 E. Porter Horne Scholarship (2008-2009) (Top Cognitive Science Graduate Student)  
 Pioneer Award Nomination for Best All-Around Psychology Graduate Student (2009)  
 Schumacher Award Finalist for Best Dissertation (2010)  
 Outstanding VARRD CVNR Investigator (2013-2014)  
 VARRD CVNR Exemplary Service Award (2014)  
 VA Telehealth Outstanding Speaker Award (2015)  
 European Science Foundation College of Expert Reviewers (2020)  
 Faculty Affiliate - Florida State University Brain Science and Symptom Management Center (BSSMC) (2022)  
 Department of Veterans Affairs Federal Service Award (2023)

## Scientific Review Committees

Department of Veterans Affairs Small Projects in Rehabilitation Research (2016-2017) Ad Hoc  
 Department of Veterans Affairs Merit Review (RRD6) Committee (August 2018 - 2019) Ad Hoc  
 NIH Early Investigator Review Board Committee (2018-2019)  
 Federal Advisory Committee- Department of Veterans Affairs Merit Review (2019-2022)  
 European Science Foundation Invited Review - Research Foundation Flanders (Jan 2019)  
 European Science Foundation - Board Review Committee  
 Department of Veterans Affairs Cloud Computing Research Design Committee  
 NIH National Center for Complementary and Integrative Health Study Section (NCCIH) (2022)  
 UAB School of Health Professions, Physician's Assistant Project Evaluation Group  
 Fonds de recherche du Québec - Santé (FRQS) and the Canada Foundation for Innovation (CFI)  
 NIH Motor Function, Speech and Rehabilitation Study Section (MFSR) (2023)  
 NSF NSF Graduate Research Fellowship Committee (2023-2024)

## **Society Memberships and Affiliations**

International Neuropsychological Society  
Cognitive Neuroscience Society  
International Society for Aging and Physical Activity Society  
for the Neural Control of Movement  
Organization for Human Brain Mapping  
Society for Neuroscience  
American Society for Neurorehabilitation

## **Peer Referee**

Cerebral Cortex  
Neuroscience  
Neuroscience Letters  
NeuroImage  
PLoS ONE  
Frontiers in Human Neuroscience  
Experimental Gerontology  
Experimental Brain Research  
Journal of Gerontology: Psychological Sciences  
Journal of the Royal Society Interface  
Journal of the Neurological Sciences  
Journal of Neurology & Neuromedicine  
Journal of Aging and Physical Activity  
Journal of the Society for Magnetic Resonance in Medicine  
Journal of the International Neuropsychological Society  
Journal of Neurophysiology  
Journal of Science in Sport and Exercise  
Physical Therapy  
Frontiers in Aging Neuroscience  
Annual Research and Review in Biology  
Human Brain Mapping  
Frontiers in Neuroscience  
Perceptual and Motor Skills  
Geriatrics  
Behavioural Brain Research  
American Journal of Alzheimer's Disease & Other Dementias  
Current Cardiology Reviews  
European Journal of Neuroscience  
International Journal of Medical Informatics  
Scientific Reports  
International Journal of Psychophysiology  
BMC Neurology  
Frontiers in Neurology  
Aging  
Neurobiology of Aging

# CURRICULUM VITAE

December 13, 2023

## **PERSONAL INFORMATION**

|                            |                                            |
|----------------------------|--------------------------------------------|
| Name; last, first middle   | Mishra, Virendra R.                        |
| Credentials:               | PhD                                        |
| Institution                | The University of Alabama at Birmingham    |
| Department                 | Radiology                                  |
| Office Address & Mail Code | 1670 University Blvd, Birmingham, AL-35233 |
| Office Phone               | 205-934-6384                               |
| Office Email               | virendrarmishra@uabmc.edu                  |
| Home Address               | 1201 Talus Rd, Vestavia Hills, AL-35242    |
| Home Email                 | virendra.mishra@gmail.com                  |

## **Education**

|                                |                                                                                                                                                                  |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| School & City, State / Country | University of Mumbai, Mumbai, Maharashtra, India                                                                                                                 |
| Degree                         | BE, Biomedical Engineering                                                                                                                                       |
| Start-End Dates                | 09/2001-06/2005                                                                                                                                                  |
| School & City, State / Country | The University of Texas at Arlington, Arlington, Texas, USA                                                                                                      |
| Degree                         | MS, Electrical Engineering                                                                                                                                       |
| Start-End Dates                | 09/2007-05/2009                                                                                                                                                  |
| School & City, State / Country | Joint Biomedical Engineering Graduate Program between University of Texas at Arlington and University of Texas Southwestern Medical Center at Dallas, Texas, USA |
| Degree                         | PhD                                                                                                                                                              |
| Start-End Dates                | 09/2009-05/2014                                                                                                                                                  |

## **PhD Thesis**

|                          |                                                                                                                                                  |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Title                    | Establishing the method of dual-tensor for tract based analysis (DTTA) and investigating human brain developmental connectome with diffusion MRI |
| Thesis Committee Members | Hao Huang, PhD, Hanzhang Lu, PhD, Hanli Liu, PhD, George Alexandrakis, PhD, and Juan Pascual, MD, PhD                                            |

## **Post-Graduate Training**

|                                     |                                                                       |
|-------------------------------------|-----------------------------------------------------------------------|
| Institution & City, State / Country | University of Texas Southwestern Medical Center at Dallas, Texas, USA |
| Position                            | Post-doctoral Fellow-II                                               |
| Start-End Dates                     | 09/2014-12/2014                                                       |

## **PROFESSIONAL APPOINTMENTS**

|                       |                                                   |
|-----------------------|---------------------------------------------------|
| Position              | Associate Professor                               |
| Institution           | The University of Alabama at Birmingham           |
| Department            | Radiology                                         |
| City, State / Country | Birmingham, AL                                    |
| Start-End Dates       | 10/2022-present                                   |
| Position              | Associate Professor                               |
| Institution           | The University of Alabama at Birmingham           |
| Department            | Graduate School                                   |
| City, State / Country | Birmingham, AL                                    |
| Start-End Dates       | 10/2022-present                                   |
| Position              | Consultant Staff                                  |
| Institution           | Cleveland Clinic Lou Ruvo Center for Brain Health |
| Department            | Imaging Research                                  |
| City, State / Country | Las Vegas, NV                                     |
| Start-End Dates       | 01/2023-present                                   |

|                       |                                                   |
|-----------------------|---------------------------------------------------|
| Position              | Associate Staff                                   |
| Institution           | Cleveland Clinic Lou Ruvo Center for Brain Health |
| Department            | Imaging Research                                  |
| City, State / Country | Las Vegas, NV                                     |
| Start-End Dates       | 10/2020-09/2022                                   |

  

|                       |                                             |
|-----------------------|---------------------------------------------|
| Position              | Adjunct Associate Professor                 |
| Institution           | Cleveland Clinic Lerner College of Medicine |
| Department            | Molecular Medicine                          |
| City, State / Country | Cleveland, OH                               |
| Start-End Dates       | 12/2021-09/2022                             |

  

|                       |                                                   |
|-----------------------|---------------------------------------------------|
| Position              | Project Staff                                     |
| Institution           | Cleveland Clinic Lou Ruvo Center for Brain Health |
| Department            | Imaging Research                                  |
| City, State / Country | Las Vegas, NV                                     |
| Start-End Dates       | 04/2017-09/2020                                   |

  

|                       |                                                   |
|-----------------------|---------------------------------------------------|
| Position              | MRI Research Engineer                             |
| Institution           | Cleveland Clinic Lou Ruvo Center for Brain Health |
| Department            | Imaging Research                                  |
| City, State / Country | Las Vegas, NV                                     |
| Start-End Dates       | 04/2015-03/2017                                   |

  

|                       |                                               |
|-----------------------|-----------------------------------------------|
| Position              | Diffusion MRI and Image Processing Consultant |
| Institution           | Advance MRI LLC                               |
| City, State / Country | Dallas, TX                                    |
| Start-End Dates       | 01/2015-03/2015                               |

  

|                       |                                                           |
|-----------------------|-----------------------------------------------------------|
| Position              | Research Assistant                                        |
| Institution           | University of Texas Southwestern Medical Center at Dallas |
| City, State / Country | Dallas, TX                                                |
| Start-End Dates       | 09/2009-05/2014                                           |

  

|                       |                            |
|-----------------------|----------------------------|
| Position              | Field Service Engineer     |
| Institution           | bioMérieux (I) Pvt. Ltd    |
| City, State / Country | Mumbai, Maharashtra, India |
| Start-End Dates       | 09/2005-08/2007            |

## **PUBLICATIONS**

### **Peer-Reviewed Articles (in chronological order, earliest first)**

1. Huang H, Prince JL, **Mishra V**, Carass A, Landman B, Park DC, Tamminga C, King R, Miller MI, van Zijl PC, and Mori S. A framework on surface-based connectivity quantification for the human brain. 2011; Journal of Neuroscience Methods; 197(2), 324-32.
2. Aslan S, Huang H, Uh J, **Mishra V**, Xiao G, van Osch MJ, and Lu H. White matter cerebral blood flow is inversely correlated with structural and functional connectivity in the human brain. 2011; Neuroimage, 56(3), 1145-53.
3. Jeon T, **Mishra V**, Weiner M, Cook-Martin K, Hatanpaa K, Foong C, and Huang H. Regional Changes of cortical mean diffusivity with aging and Alzheimer's disease after correction of partial volume effects. 2012; Neuroimage, 62(3), 1705-16.
4. **Mishra V**, Cheng H, Gong G, Zhao YD, He Y, and Huang H. Differences of inter-tract correlations between neonates and children around puberty: A study based on microstructural measurements with DTI. 2013; Front. Hum. Neuro. doi: 10.3389/fnhum.2013.00721.
5. Yu Q\*, Peng Y\*, **Mishra V**, Ouyang A, Li H, Zhang H, Chen M, Liu S, and Huang H. Microstructure, length and connection of limbic tracts in normal human brain development. 2014; Front. Aging Neurosci. Doi: 10.3389/fnagi.2014.00228. \*Equal contribution.
6. Huang H\*, Shu N\*, **Mishra V**, Jeon T, Chalak L, Wang ZJ, Rollins N, Gong G, Cheng H, Peng Y, Dong Q, and He Y. Development of human brain structural networks through infancy and childhood. 2015; Cereb. Cortex, 25(5), 1389-1404. \*Equal contribution.
7. **Mishra V**, T, Guo X, Delgado MR, and Huang H. Towards tract-specific fractional anisotropy (TSFA) at crossing- fiber regions with clinical diffusion MRI. 2015; Magnetic Resonance in Medicine. 74(6), 1768-1779.

8. Filbey F, McQueeney T, DeWitt S, and **Mishra V**. Preliminary findings demonstrating latent effects of early adolescent marijuana use onset on cortical architecture. 2015; *Development Cognitive Neuroscience*, 16, 16-22.
9. Jeon T, **Mishra V**, Ouyang M, and Huang H. Synchronous changes of cortical thickness and corresponding white matter microstructure during brain development accessed by Diffusion MRI tractography from parcellated cortex. 2015; *Frontiers in neuroanatomy*. Doi: 10.3389/fnana.2015.00158.
10. Ouyang M, Cheng H, **Mishra V**, Gong G, Mosconi MW, Sweeney J, Peng Y, and Huang H. Atypical age-dependent effects of autism on white matter microstructure in children of 2-7 years. 2016; *Human Brain Mapping*, 37(2), 819-832.
11. Yu Q, Ouyang A, Jeon T, **Mishra V**, Chalak L, Chia J, Sivarajan M, Rollins N, Liu S, and Huang H. Structural development of human fetal and preterm brain cortical plate based on population-averaged templates. 2016; *Cereb. Cortex* Doi: 10.1093/cercor/bhv201.
12. Sreenivasan K, Zhuang X, Banks S, **Mishra V**, Deshpande G, and Cordes D. Olfactory Network Differences in Master Sommeliers: Connectivity Analysis Using Granger Causality and Graph Theoretical Approach. 2017; *Brain Connectivity*, 7(2), 123-136
13. **Mishra V**, Zhuang X, Sreenivasan K, Yang Z, Banks S, Bernick C, and Cordes D. Multimodal MR Imaging Signatures of Cognitive Impairment in Active Professional Fighters. 2017; *Radiology*, 285, 555-567.
14. Cordes D, Yang Z, Zhuang X, Sreenivasan K, **Mishra V**, and Hua Le H. A new algebraic method for quantitative proton density mapping. 2017; *Medical Image Analysis*, 40, 154-171.
15. Song L\*, **Mishra V\***, Ouyang M, Peng Q, Slinger M, Liu S, and Huang H. Human fetal brain connectome: structural network development from middle fetal stage to birth. 2017; *Frontiers in Neuroscience*, 11, 561. \*Equal contribution.
16. Feng L, Jeon T, Yu Q, Ouyang M, Peng Q, **Mishra V**, Pletikos M, Sestan N, Miller MI, Mori S, Liu S, and Huang H. Population-averaged macaque brain atlas with high-resolution ex vivo DTI integrated into in vivo space. 2017; *Brain Structure and Function*, 222(9), 4131-4147.
17. **Mishra V**, Sreenivasan K, Zhuang X, Yang Z, Banks S, Cordes D, and Bernick C. Investigating structural and perfusion deficits due to repeated head trauma in active professional fighters. 2017; *NeuroImage: Clinical*, 17, 616-627.
18. Yang Z, Zhuang X, Sreenivasan K, **Mishra V**, Curran T, Byrd R, Nandy R, and Cordes D. 3D Spatially-Adaptive Canonical Correlation Analysis: Local and Global Methods. 2018; *NeuroImage*, 169, 240-255.
19. Kang H, Zhang M, Ouyang M, Guo R, Yu Q, Peng Q, Zhang N, Zhang Y, Duan Y, Tang X, **Mishra V**, Fang F, Li W, Huang H, Peng Y. Brain white matter microstructural alterations in children of type I Gaucher disease characterized with diffusion tensor MR imaging. 2018; *European Journal of Radiology*, 102, 22-29.
20. Zhuang X\*, Walsh R\*, Sreenivasan K, Yang Z, **Mishra V**, and Cordes D. Incorporating spatial constraint in co-activation pattern analysis to explore the dynamics of resting-state networks: An application to Parkinson's disease. 2018; *NeuroImage*, 172, 64-84. \*Equal contribution.
21. Bluett B, Banks S, Cordes D, Bayram E, **Mishra V**, Cummings J, and Litvan I. Neuroimaging and neuropsychological assessment of freezing of gait in Parkinson's disease. 2018; *Alz & Dementia: TRCI* (4), 387-394.
22. Cordes D\*, Zhuang X\*, Kaleem M, Sreenivasan K, Yang Z, **Mishra V**, Banks S, Bluett B, and Cummings J. Advances in functional magnetic resonance imaging data analysis methods using Empirical Mode Decomposition to investigate temporal changes in early Parkinson's disease. 2018; *Alz & Dementia: TRCI* (4), 372-386. \*Equal contribution.
23. Zhao T\*, **Mishra V\***, Jeon T, Ouyang M, Peng Q, Chalak L, Wisnowski JL, Heyne R, Rollins N, Shu N, and Huang H. Structural network maturation of the preterm human brain. 2019; *NeuroImage*, 185, 699-710. \*Equal contribution.
24. Feng L, Li H, Oishi K, **Mishra V**, Song L, Peng Q, Ouyang M, Wang J, Singer M, Jeon T, Lee L, Heyne R, Chalak L, Peng Y, Liu S, and Huang H. Age-specific gray and white matter DTI atlas for human brain at 33, 36 and 39 postmenstrual weeks. 2019; *NeuroImage*, 185, 685-698.
25. Ouyang M, Jeon T, Sotiras A, Peng Q, **Mishra V**, Halovanic C, Chen M, Chalak L, Rollins N, Roberts T, Davatzikos C, and Huang H. Differential cortical microstructural maturation in the preterm human brain with diffusion kurtosis and tensor imaging. 2019; *Proc. Natl Acad Sci*, 116 (10), 4681-4688.
26. Sreenivasan K, **Mishra V**, Bird C, Zhuang X, Yang Z, Cordes D, and Walsh RR. Altered functional network topology correlates with clinical measures in very early stage, drug-naïve Parkinson's disease. 2019; *Parkinsonism Relat Disord.*, 62:3-9.
27. Yang Z, Zhuang X, Sreenivasan K, **Mishra V**, and Cordes D. Robust motion regression of resting-state data using a convolutional neural network model. 2019; *Front. Neurosci-Brain Imaging Methods*, 13, 169.
28. Zhuang X, Yang Z, Sreenivasan K, **Mishra V**, Curran T, Nandy R, and Cordes D. Multivariate group-level analysis for task fMRI data with canonical correlation analysis. 2019; *NeuroImage*, 194, 25-41.
29. Yang Z, Zhuang X, Curran T, Byrd R, Nandy R, **Mishra V**, Sreenivasan K, and Cordes D. Performing sparse regularization and dimension reduction simultaneously in multimodal data fusion. 2019; *Frontiers in Neuroscience*, Jul 3; 13:642.
30. Brown B, RELISH Consortium (includes **Mishra V** as one of the authors), and Zhou Y. Large expert-curated database for benchmarking document similarity detection in biomedical literature search. 2019; *Database*, baz085.
31. **Mishra V**, Sreenivasan K, Zhuang X, Yang Z, Cordes D, and Walsh RR. Influence of analytic techniques on comparing DTI-derived measurements in early stage Parkinson's disease. 2019; *Heliyon* 5 (4), e01481.
32. **Mishra V**, Sreenivasan K, Zhuang X, Yang Z, Cordes D, Banks SJ, and Bernick C. Understanding White Matter Structural Connectivity Differences between Cognitively Impaired and Nonimpaired Active Professional Fighters. 2019; *Hum. Brain. Mapp*, 2019 Dec 1; 40(17):5108-5122.

33. Yang Z, Zhuang X, Sreenivasan K, **Mishra V**, Curran T, and Cordes D. A robust deep neural network for denoising task-based fMRI data: An application to working memory and episodic memory. 2020; Med Image Anal, 60:101622.
34. Bernick C, Shan G, Zetterberg H, Banks S, **Mishra VR**, Bekris L, Leverenz JB, and Blennow K. Longitudinal change in regional brain volumes with exposure to repetitive head impacts. 2020; Neurology, 94(3):e232-e240.
35. **Mishra VR**, Sreenivasan KR, Yang Z, Zhuang X, Cordes D, Mari Z, Litvan I, Fernandez H, Eidelberg D, Ritter A, Cummings JL, and Walsh RR. Unique white matter structural connectivity in early stage, drug naïve Parkinson's disease. 2020; Neurology, 94(8):e774-e784.
36. Bergamino M, Keeling EG, **Mishra V**, Stokes AM, and Walsh RR. Assessing White Matter Pathology in Early-Stage Parkinson Disease Using Diffusion MRI: A Systematic Review. 2020; Front Neurol, 11:314. doi: 10.3389/fneur.2020.00314.
37. Yang Z, Zhuang X, **Mishra V**, Sreenivasan K, and Cordes D. CAST: A multi-scale convolutional neural network based automated hippocampal subfield segmentation toolbox. 2020; NeuroImage, 218:116947. doi: 10.1016/j.neuroimage.2020.116947.
38. Zhuang X\*, Yang Z\*, **Mishra V**, Sreenivasan KR, Bernick C, and Cordes D. Single-scale time-dependent window-sizes in sliding-window dynamic functional connectivity analysis: a validation study. 2020; NeuroImage, 220:117111. doi: 10.1016/j.neuroimage.2020.117111. \*Equal contribution.
39. Yang Z, Zhuang X, Sreenivasan K, **Mishra V**, and Cordes D. Disentangling time series between brain tissues improves fMRI data quality using a time-dependent deep neural network. 2020; NeuroImage, 223:117340. doi: 10.1016/j.neuroimage.2020.117340
40. Marquez JS, Hasan SSM, Siddique MR, Luca CC, **Mishra V**, Mari Z, and Bai O. Neural Correlates of Freezing of Gait in Parkinson's disease: An Electrophysiology Mini-Review. 2020; Front Neurol, doi: <https://doi.org/10.3389/fneur.2020.571086>.
41. Zhuang X, **Mishra V**, Nandy R, Yang Z, Sreenivasan K, Bennett L, Bernick C, and Cordes D. Resting-state static and dynamic functional abnormalities in active professional fighters with repetitive head trauma and with neuropsychological impairments. 2020; Front Neurol, doi: <https://doi.org/10.3389/fneur.2020.602586>.
42. Cordes D, Kaleem M, Yang Z, Zhuang X, Curran T, Sreenivasan K, **Mishra V**, Nandy R, and Walsh R. Energy-Period Profiles of Brain Networks in Group fMRI Resting-State Data: A Comparison of Empirical Mode Decomposition with the Short-Time Fourier Transform and the Discrete Wavelet Transform. 2021; Front Neurosci, doi: <https://doi.org/10.3389/fnins.2021.663403>.
43. Brodrick BB, Adler-Neal AL, Palka JM, **Mishra V**, Aslan S, and McAdams CJ. Structural brain differences in recovering and weight-recovered adult outpatient women with anorexia nervosa. 2021; J Eat Disord 9, 108, doi: <https://doi.org/10.1186/s40337-021-00466-w>
44. Longhurst JK, Cummings JL, John SE, Poston B, Rider JV, Salazar AM, **Mishra VR**, Ritter A, Caldwell JZ, Miller JB, Kinney JW, and Landers MR. Dual task performance is associated with amyloidosis in cognitively healthy adults. 2022; J Prev Alzheimers Dis, doi: <https://doi.org/10.14283/jpad.2022.1>
45. Shackelford M, **Mishra V**, and Mari Z. Levodopa-Carbidopa Intestinal Gel may improve treatment-resistant freezing of gait in Parkinson's disease. 2022; Clin Park Relat Disord. doi: <https://doi.org/10.1016/j.prdoa.2022.100148>
46. Sreenivasan K, Bayram E, Zhuang X, Longhurst J, Yang Z, Cordes D, Ritter A, Caldwell J, Cummings J, Mari Z, Litvan I, Bluett B, and **Mishra V**. Topological reorganization of functional hubs in patients with Parkinson's disease with freezing of gait. 2023; J. Neuroimaging, doi: <https://doi.org/10.1111/jon.13107>

#### **Preprints and Editorials (in chronological order, earliest first)**

1. **Mishra V**, Zhuang X, Sreenivasan K, Cordes D, Ritter A, Banks SJ, and Bernick C. Towards Understanding Comprehensive Morphometric Changes and Its Correlation with Cognition and Exposure to Fighting in Active Professional Boxers. 2021; bioRxiv, doi: <https://doi.org/10.1101/2021.09.25.461817>.
2. Vijayakumari AA and **Mishra V**. Understanding Cognitive Changes in Patients with Parkinson's Disease Using Novel Fiber Quantification Techniques. 2023; Parkinsonism Relat Disord, doi: [10.1016/j.parkreldis.2023.105857](https://doi.org/10.1016/j.parkreldis.2023.105857).

#### **Media Appearances & Coverage / Podcasts**

1. Radiological Society of North America and other media outlets extensively publicized our article titled "Multimodal MR Imaging Signatures of Cognitive Impairment in Active Professional Fighters." 2017
  - [http://press.rsna.org/timssnet/media/pressreleases/14\\_pr\\_target.cfm?ID=1961](http://press.rsna.org/timssnet/media/pressreleases/14_pr_target.cfm?ID=1961)
  - <https://medicalxpress.com/news/2017-07-mri-cognitive-impairment-professional-fighters.html>
  - <https://www.psychcongress.com/news/mri-biomarkers-linked-cognitive-impairment-professional-fighters>
2. News on our securing the NIH R01 titled "Towards Generating a Multimodal and Multivariate Classification Model from Imaging and Non-Imaging Measures for Accurate Diagnosis and Monitoring of Dementia in Parkinson's Disease" was publicized on Consult QD, Eureka Alert, and Neurology Live. 2020
  - <https://consultqd.clevelandclinic.org/in-search-of-predictive-biomarkers-of-dementia-in-parkinson-disease/>
  - [https://www.eurekaalert.org/pub\\_releases/2020-10/cc-cc100620.php](https://www.eurekaalert.org/pub_releases/2020-10/cc-cc100620.php)
  - <https://www.neurologylive.com/view/nih-awards-grant-for-parkinson-disease-dementia-research>

#### **Abstracts (in chronological order, earliest first)**

1. **Mishra V**, Fan X and Huang H. Systematic assessment of effects of noise and resolution on metrics of DTI tractography. 2010.

- Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings.
2. **Mishra V** and Huang H. Dual Tensor for Tract-Based Analysis: Towards application to routine clinical diffusion images. 2011 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings.
  3. Aslan S, Huang H, Uh J, **Mishra V**, Xiao G, van Osch M and Lu H. White matter cerebral blood flow is inversely correlated with structural and functional connectivity in the human brain. 2011 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings.
  4. Jeon T, **Mishra V**, Weiner M, Martin-Cook K, Hatanpaa K, Foong C and Huang H. Regional changes of cortical mean diffusivity with aging and Alzheimer disease after correction of partial volume effects. 2011 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings.
  5. **Mishra V**, Hua C, Gaolang G, Zhao YD, Yong H, Dong Q and Huang H. Changes of microstructural correlation of white matter tracts with human brain development. 2012 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings. *Magna Cum Laude*
  6. **Mishra V**, Gundapuneedi T, and Huang H. Multi-Tensor Tract-based Analysis (MTTA): towards application to routine clinical diffusion images. 2012. In vivo magnetic resonance, Gordon Research Conference.
  7. Jeon T, **Mishra V**, Yong H and Huang H. Interaction of cortex and white matter during development accessed by cortical thickness and microstructure of projected axons. 2012 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings.
  8. Huang H, Jeon T, Yoshioka T, **Mishra V**, Chen A, Hsiao S, van Zijl PC and Mori S. Microstructural evolution of white matter from macaque to human brain with in vivo DTI. 2012 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings.
  9. Huang H, Shu N, **Mishra V**, Jeon T, Gong G, Dong Q and He Y. Structural network development of human brain during childhood. 2012 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings.
  10. **Mishra V** and Huang H. Application of Multi-Tensor Tract-Based Analysis (MTTA) with routine clinical diffusion MRI. 2013 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings.
  11. **Mishra V**, Shu N, Chalak L, Rollins NK, Cathy H, He Y and Huang H. Exploring the human fetal brain network with diffusion MRI and graph theory. 2013 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings.
  12. Jeon T, **Mishra V** and Huang H. Coherent cortical pruning and axonal integrity enhancement during brain development accessed by DTI tractography from parcellated cortex. 2013 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings.
  13. **Mishra V**, Jeon T, Pletikos M, Sestan N and Huang H. Human fetal brain connectivity. 2014 Society for Neuroscience.
  14. Ouyang A, Yu Qiaowen, **Mishra V**, Chalak L, Jeon T, Chia J, Sivarajan M, Rollins N, Liu S and Huang H. White matter structural development from mid-fetal stage to normal time of birth. 2014 SPIE.
  15. **Mishra V**, Jeon T, Mihovil P, Nenad S and Huang H. The role of glial fibers in human fetal connectome with high resolution diffusion tensor imaging. 2015 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings.
  16. **Mishra V**, Oishi K, Li H, Jeon T, Ouyang M, Chalak L, Chia J, Peng Y, Rollins N and Huang H. Population- averaged age-specific DTI templates of preterm human brain at 33, 36 and 39 gestational weeks. 2015 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings.
  17. Jeon T, Ouyang A, **Mishra V**, Perez A, Chalak L, Chia J, Sivarajan M, Rollins N and Huang H. Comprehensive assessment of the regional microstructure of the preterm human brain cerebral cortex using DKI and DTI. 2015 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings.
  18. Thomas B, **Mishra V**, Peng S, Huang H and Lu H. Characterization of vascular response in white matter to hypercapnia and hyperoxia. 2015 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings.
  19. Ouyang A, Yu Qiaowen, **Mishra V**, Chalak L, Jeon T, Chia J, Sivarajan M, Rollins N, Liu S and Huang H. White matter structural development from mid-fetal stage to normal time of birth. 2015 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings.
  20. Zhao T, **Mishra V**, Huang H and Shu N. Age-related changes in the regional properties of structural connectome during early development. 2015 Organization of Human Brain Mapping (OHBM) (OHBM) Meeting Proceedings.
  21. Ouyang A, Yu Q, **Mishra V**, Chalak L, Jeon T, Chia J, Sivarajan M, Rollins N, Liu S and Huang H. Structural development of human brain white matter from mid-fetal to perinatal stage. 2015 SPIE Medical Imaging 9417.
  22. **Mishra V**, Sreenivasan K, Zhuang X, Yang Z, Banks S, Cordes D and Bernick C. Quantifying differences in the cerebral blood flow (CBF) between controls, professional boxers and Mixed Martial Arts (MMA) fighters using arterial spin labeling MRI. 2016 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings. *Summa Cum Laude*
  23. **Mishra V**, Zhuang X, Sreenivasan K, Yang Z, Banks S, Bernick C and Cordes D. Finding biomarkers of cognitive decline in active professional fighters with multimodal MRI and exploring the longitudinal relationship of these biomarkers with cognitive decline. 2016 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings. *Magna Cum Laude*
  24. **Mishra V**, Zhuang X, Sreenivasan K, Yang Z, Banks S, Bernick C and Cordes D. Combining multi-modal MRI and

- machine learning approach for TBI biomarkers in professional fighters. 2016 Annual Organization for Human Brain Mapping (OHBM) Meeting Proceedings.
25. **Mishra V**, Zhuang X, Sreenivasan K, Yang Z, Banks S, Bernick C and Cordes D. Exploring the relationship between cognitive impairment and age of “first” fight. 2016 Annual Organization for Human Brain Mapping (OHBM) Meeting Proceedings.
  26. **Mishra V**, Zhuang X, Sreenivasan K, Yang Z, Banks S, Cordes D and Bernick C. Differences in cerebral blood flow (CBF) in professional fighters: An ASL-MRI Study. 2016 Annual Organization for Human Brain Mapping (OHBM) Meeting Proceedings.
  27. **Mishra V**, Sreenivasan K, Zhuang X, Yang Z, Banks S, Cordes D and Bernick C. Lower cerebral blood flow in professional fighters using Arterial spin labeling MRI. 2016 American Academy of Neurology.
  28. **Mishra V**, Zhuang X, Sreenivasan K, Banks S, Cordes D and Bernick C. Predicting cognitive impairment in active professional fighters using multimodal MRI. 2016 American Society of Neuroimaging. **Oldendorf Award**
  29. Zhuang X, **Mishra V**, Sreenivasan K, Charles B, Banks S and Cordes D. A combinatorial model approach for feature selection from multimodal MRI data. 2016 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings.
  30. Sreenivasan K, **Mishra V**, Zhuang X, Yang Z, Hua L and Cordes D. MRI in multiple sclerosis: Relationship between diffusivity measures and quantitative MRI measures. 2016 Annual Organization for Human Brain Mapping (OHBM) Meeting Proceedings.
  31. Sreenivasan K, **Mishra V**, Zhuang X, Yang Z, Hua L and Cordes D. A clustering based approach for white matter lesion detection in multiple sclerosis. 2016 Annual Organization for Human Brain Mapping (OHBM) Meeting Proceedings.
  32. Zhuang X, **Mishra V**, Sreenivasan K, Bernick C, Banks S and Cordes D. Feature selection from multimodal MRI data: a combinatorial model approach. 2016 Annual Organization for Human Brain Mapping (OHBM) Meeting Proceedings.
  33. Zhao T, **Mishra V**, Huang H and Shu N. Preterm human brain structural connectome with diffusion MRI. 2016 Annual Organization for Human Brain Mapping (OHBM) Meeting Proceedings.
  34. Jeon T, **Mishra V**, and Huang H. Effects of cortical region of interests on tractography and brain connectivity quantification. 2016 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings
  35. Sreenivasan K, Zhuang X, **Mishra V**, Yang Z, Deshpande G, Banks S and Cordes D. Training induced olfactory network changes in master sommeliers: Connectivity analysis using Granger causality and graph-theoretical approach. 2016 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings.
  36. Ouyang M, Jeon T, Muller J, **Mishra V**, Du H, Wang Y, Peng Y, Hong B and Huang H. Global and Regional Cortical Connectivity Maturation Index (CCMI) of Developmental Human Brain with Quantification of Short- Range Association Tracts. 2016 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings.
  37. Feng L, Li H, Oishi K, **Mishra V**, Ouyang M, Jeon T, Peng Y, Liu S and Huang H. Age-specific gray and white matter DTI atlas for human brain at 33 and 36 postmenstrual weeks. 2016 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings.
  38. Sreenivasan K, Zhuang X, **Mishra V**, Yang Z, Deshpande G, Banks S and Cordes D. Investigating training induced changes in olfactory network in master sommeliers using graph theory. 2016 Annual Organization for Human Brain Mapping (OHBM) Meeting Proceedings.
  39. Feng L, Li H, Oishi K, **Mishra V**, Ouyang M, Jeon T, Lee L, Heyne R, Chalak L, Peng Y, Liu S and Huang H. Age-specific gray and white matter DTI atlas for human brain at 33,36 and 39 postmenstrual weeks. 2016 Annual Organization for Human Brain Mapping (OHBM) Meeting Proceedings.
  40. Ouyang M, Jeon T, Muller J, **Mishra V**, Du H, Wang Y, Peng Y, Hong B and Huang H. Cortical connectivity maturation index of human brain based on short-range association tracts. 2016 Annual Organization for Human Brain Mapping (OHBM) Meeting Proceedings.
  41. Ouyang M, Jeon T, **Mishra V**, Du H, Wang Y, Peng Y and Huang H., 2016. Global and regional cortical connectivity maturation index (CCMI) of developmental human brain with quantification of short-range association tracts. SPIE Medical Imaging 9788.
  42. **Mishra V**, Banks S, Bernick C and Cordes D. Disrupted topological brain organizations in large-scale cortical networks between impaired and nonimpaired active fighters. 2017 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings **Summa Cum Laude**
  43. **Mishra V**, Sreenivasan K, Bird C, Cordes D and Walsh RR. Distinct structural backbone-network in early Parkinson’s disease (PD) subjects: Insights from Parkinson’s Progressive Markers Initiative (PPMI) dataset. 2017 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings.
  44. **Mishra V**, Sreenivasan K, Bird C, Cordes D and Walsh RR. Disrupted topological organization of brain networks in early Parkinson’s disease (PD) subjects: Insights from Parkinson’s Progressive Markers Initiative (PPMI) dataset. 2017 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings.
  45. **Mishra V**, Cordes D and Walsh RR. Decreased axial diffusivity in early Parkinson’s disease subjects: Insights from Parkinson’s Progressive Markers Initiative (PPMI) dataset. 2017 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings.
  46. **Mishra V**, Sreenivasan K, Zhuang X, Yang Z, Bird C, Cordes D and Walsh RR. Altered hierarchical modularity in Parkinson’s disease. 2017 Annual Organization of Human Brain Mapping (OHBM) (OHBM) Proceedings.



47. **Mishra V**, Banks S, Bernick C and Cordes D. Disrupted topological brain organizations in cortical networks between impaired and nonimpaired active fighters. 2017 Annual Organization of Human Brain Mapping (OHBM) (OHBM) Proceedings.
48. **Mishra V**, Sreenivasan K, Zhuang X, Yang Z, Bird C, Cordes D and Walsh RR. Investigating structural backbone network in early Parkinson's disease (PD) subjects. 2017 Annual Organization of Human Brain Mapping (OHBM) (OHBM) Proceedings.
49. **Mishra V**, Sreenivasan K, Zhuang X, Yang Z, Bird C, Cordes D and Walsh RR. Altered topological organization of brain networks in early Parkinson's disease (PD) subjects. 2017 Annual Organization of Human Brain Mapping (OHBM) (OHBM) Proceedings.
50. **Mishra V**, Sreenivasan K, Zhuang X, Yang Z, Bird C, Cordes D and Walsh RR. Voxelwise comparisons of white matter damages in early Parkinson's disease (PD) subjects. 2017 Annual Organization of Human Brain Mapping (OHBM) (OHBM) Proceedings.
51. Zhuang X, Yang Z, **Mishra V**, Sreenivasan K, and Cordes D. A new method of HRF estimation containing high frequency content. 2017 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings.
52. Zhuang X\*, Walsh RR\*, Yang Z, **Mishra V**, Sreenivasan K, and Cordes D. Co-activation pattern analysis in Parkinson's disease. 2017 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings.
53. Sreenivasan K, **Mishra V**, Yang Z, Zhuang X, Banks S, Cordes D, and Walsh RR. Effects of motor dysfunction on functional connectivity and network topology in Parkinson's disease. 2017 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings.
54. Sreenivasan K, **Mishra V**, Yang Z, Zhuang X, Banks S, Cordes D, and Walsh RR. Hierarchical organization of functional networks in patients with Parkinson's disease. 2017 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings.
55. Yang Z, Zhuang X, Curran T, Byrd R, **Mishra V**, Sreenivasan K, and Cordes D. Spatial adaptive kernel canonical correlation analysis. 2017 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings.
56. Yang Z, Walsh RR, **Mishra V**, Sreenivasan K, Zhuang Z, Banks S, and Cordes D. Eigenvector centrality mapping in detecting Parkinson's disease. 2017 Annual International Society for Magnetic Resonance in Medicine (ISMRM) Meeting Proceedings.
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171. **Mishra V**, Sreenivasan K, and Cordes D. Systematic Comparison of Reproducibility of Diffusion-MRI Derived Free-Water Measures Across Two Multi-Shell Protocols. 2023 Alzheimer's Association International Conference.
172. Thomas B, Mari Z, and **Mishra V**. 3D Multi-Delay pCASL to Understand Perfusion Changes in Patients with Parkinson's disease with Mild Cognitive Impairment. 2023 Movement Disorder Society.
173. Catiul C, Lopez S, and **Mishra V**. Does Cognitive Complaint in Parkinson's Disease Reflect in Neuropsychological Testing? 2023 Movement Disorder Society.
174. Gardner A, Lopez S, Mari Z, and **Mishra V**. Exploring Local Gyrfication Index Changes in Patients with Parkinson's Disease Experiencing Freezing of Gait. 2023 Society for Neuroscience.
175. Lopez S, Catiul C, and **Mishra V**. MRI Correlates of Subjective Cognitive Complaint in a Subset of Participants with Parkinson's disease from the PPMI Database. 2023 Alabama Academy of Neurology (AAN).
176. Gardner A, Lopez S, and **Mishra V**. Exploring Correlation between Local Gyrfication Index and Clinical Symptoms in Patients with Parkinson's disease experiencing Freezing of Gait. 2023 Alabama Academy of Neurology (AAN).

## **RESEARCH/GRANT SUPPORT**

### **Current**

|                            |                                                                                                                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sponsor Agency and ID #    | NIH/NINDS R01NS117547                                                                                                                                                                |
| Title of Grant             | Towards Generating a Multimodal and Multivariate Classification Model from Imaging and Non-Imaging Measures for Accurate Diagnosis and Monitoring of Dementia in Parkinson's Disease |
| Role                       | PI                                                                                                                                                                                   |
| Percent Effort             | 45%                                                                                                                                                                                  |
| Percent Salary Support     | 45%                                                                                                                                                                                  |
| Total Direct Costs Awarded | \$2,500,000                                                                                                                                                                          |
| Start-End Dates            | 09/2020-06/2025                                                                                                                                                                      |
| Sponsor Agency and ID #    | Department of Radiology at The University of Alabama at Birmingham; Radiology Research Imaging Pilot Award (RRIPA)                                                                   |

Virendra R. Mishra, PhD

|                            |                                                                                                                                                         |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Title of Grant             | Freezing of Gait in Parkinson's disease: L-DOPA, $\beta$ -amyloid, and tau interaction                                                                  |
| Role                       | PI                                                                                                                                                      |
| Percent Effort             | 1.2%                                                                                                                                                    |
| Percent Salary Support     | 0%                                                                                                                                                      |
| Total Direct Costs Awarded | \$20,000                                                                                                                                                |
| Start-End Dates            | 07/2023-06/2024                                                                                                                                         |
| <b><u>Expired</u></b>      |                                                                                                                                                         |
| Sponsor Agency and ID #    | Lou Ruvo Center for Brain Health Pilot Award                                                                                                            |
| Title of Grant             | Towards Understanding Dynamic Changes in Brain Functional Connectivity During Active Freezing in Parkinson's disease with Freezing of Gait              |
| Role                       | PI                                                                                                                                                      |
| Percent Effort             | 4%                                                                                                                                                      |
| Percent Salary Support     | 4%                                                                                                                                                      |
| Total Direct Costs Awarded | \$25,000                                                                                                                                                |
| Start-End Dates            | 01/2022-09/2022                                                                                                                                         |
| Sponsor Agency and ID #    | Lou Ruvo Center for Brain Health Philanthropy                                                                                                           |
| Title of Grant             | Accurate Prediction of Conversion to Alzheimer's Dementia from Mild Cognitive Impairment Using A Machine Learning Approach with Multimodal MRI Measures |
| Role                       | PI                                                                                                                                                      |
| Percent Effort             | 30%                                                                                                                                                     |
| Percent Salary Support     | 30%                                                                                                                                                     |
| Total Direct Costs Awarded | \$250,000                                                                                                                                               |
| Start-End Dates            | 02/2022-09/2022                                                                                                                                         |
| Sponsor Agency and ID #    | Keep Memory Alive Young Scholar Award                                                                                                                   |
| Title of Grant             | Understanding the Pathophysiological Processes Involved with Parkinson's Related Psychosis, using functional MRI (PATH-PDP)                             |
| Role                       | Co-PI                                                                                                                                                   |
| Percent Effort             | 7%                                                                                                                                                      |
| Percent Salary Support     | 7%                                                                                                                                                      |
| Total Direct Costs Awarded | \$225,000                                                                                                                                               |
| Start-End Dates            | 04/2020-09/2022                                                                                                                                         |
| Sponsor Agency and ID #    | NIH/NINDS R01NS118760                                                                                                                                   |
| Title of Grant             | Peripheral Tissue Biomarker for Premortem Diagnosis of Lewy Body Dementia                                                                               |
| Role                       | Co-PI (Site)                                                                                                                                            |
| Percent Effort             | 3%                                                                                                                                                      |
| Percent Salary Support     | 3%                                                                                                                                                      |
| Total Direct Costs Awarded | \$287,762                                                                                                                                               |
| Start-End Dates            | 09/2021-09/2022                                                                                                                                         |
| Sponsor Agency and ID #    | NIH/NINDS R01NS118760-S1                                                                                                                                |
| Title of Grant             | Peripheral Tissue Biomarker for Premortem Diagnosis of Lewy Body Dementia                                                                               |
| Role                       | Co-PI (Site)                                                                                                                                            |
| Percent Effort             | 7%                                                                                                                                                      |
| Percent Salary Support     | 7%                                                                                                                                                      |
| Total Direct Costs Awarded | \$135,000                                                                                                                                               |
| Start-End Dates            | 09/2021-09/2022                                                                                                                                         |
| Sponsor Agency and ID #    | NIH/NIGMS P20GM109025                                                                                                                                   |
| Title of Grant             | COBRE GRANT                                                                                                                                             |
| Role                       | Co-I; Assistant Director: Brain Imaging Core                                                                                                            |
| Percent Effort             | 10%                                                                                                                                                     |
| Percent Salary Support     | 10%                                                                                                                                                     |
| Total Direct Costs Awarded | \$3,000,000                                                                                                                                             |
| Start-End Dates            | 09/2021-09/2022                                                                                                                                         |
| Sponsor Agency and ID #    | NIH/NIGMS P20GM109025                                                                                                                                   |
| Title of Grant             | Imaging Biomarkers of Freezing of Gait (FoG) Parkinson's Disease (PD) Patients                                                                          |

|                            |                                                                                                                           |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Role                       | Project Leader                                                                                                            |
| Percent Effort             | 40%                                                                                                                       |
| Percent Salary Support     | 40%                                                                                                                       |
| Total Direct Costs Awarded | \$368,000                                                                                                                 |
| Date                       | 09/2018-05/2021                                                                                                           |
| Sponsor Agency and ID #    | Keep Memory Alive Young Scholar Award                                                                                     |
| Title of Grant             | Develop sophisticated methods for acquisition and analysis of diffusion-weighted MRI at a clinically acceptable scan time |
| Role                       | PI                                                                                                                        |
| Percent Effort             | 50%                                                                                                                       |
| Percent Salary Support     | 50%                                                                                                                       |
| Total Direct Costs Awarded | \$225,000                                                                                                                 |
| Start-End Dates            | 06/2017-05/2020                                                                                                           |

## **EDUCATIONAL ACTIVITIES**

### **Educational Focus**

I have contributed to education by peer-mentoring students and colleagues. I have peer-mentored 7 students while working towards my PhD in Dr Huang's laboratory. Additionally, I have peer-mentored 3 M.S. students and 1 postdoctoral fellow at Cleveland Clinic Lou Ruvo Center for Brain Health. I have primarily tutored and mentored my peers and colleagues by explaining to them the basics of diffusion MRI, acquisition of MRI data including diffusion, perfusion (Arterial Spin Labelling MRI), and functional MRI on both 3T Philips (Acheiva) and Siemens (Prisma, Skyra and Verio) systems, pre/post-processing of structural and diffusion MRI data using publicly available tools and assisted them in scientific writing for publications of their findings as conference proceedings and manuscripts.

### **Curriculum/ Course Development**

University of Texas at Southwestern Medical Center, Dallas, Texas, USA, 01/2011-12/2014

Time spent was 200 hours over four years, 2010-2014.

Mentored new graduate students and rotating graduate students in the laboratory of Dr. Huang, Advised Science Teachers Access to Resources at Southwestern (STARS) students, Mentored MD students who rotated in the laboratory of Dr. Huang, Taught the principles of diffusion MRI and diffusion tensor imaging to all the new laboratory members who came to the laboratory of Dr. Huang.

### **Invited Lectures**

#### **International**

1. "Hands on analysis of conventional and advanced diffusion-weighted MRI in the brain." 5th Annual Scientific Meeting of the Asian Society of Magnetic Resonance in Medicine: Quantitative MR Imaging & AI (ASMRM 2023), New Delhi, India, 08/2023.
2. "Diffusion MRI: From neurodevelopmental to neurodegeneration." King George's Medical University, Lucknow, India, 08/2023.

#### **National**

1. "Exploring structural brain network dynamics in neurodegenerative disorders." Nevada Institute of Personalized Medicine, Las Vegas, NV. 08/2017
2. "Effect of repetitive head injury on brain connectivity: Insights from Professional Fighters Brain Health Study." Nevada Regional Neuroscience Meeting, Las Vegas, NV. 09/2018
3. "Neuroimaging insights into Parkinson's disease." Society for Brain Mapping and Therapeutics, Los Angeles, CA. 05/2020
4. "Beyond Single Tensor Diffusion MRI Measures and their Applications in Neurodegenerative Disorders" Lerner Research Institute, Cleveland Clinic, OH. 10/2020
5. "Advanced diffusion MRI models and its application in neurodegenerative disorders." Nevada Institute of Personalized Medicine, Las Vegas, NV. 10/2020
6. "Utility of Advanced MRI techniques to understand Parkinson's disease." Society for Brain Mapping and Therapeutics, Los Angeles, CA, 07/2021
7. "Role of Diffusion-Weighted MRI in Understanding Parkinson's disease." Parkinson's disease Grand Rounds at Cleveland Clinic Lou Ruvo Center for Brain Health, Las Vegas, NV, 09/2021

Virendra R. Mishra, PhD



8. “Towards Understanding Neurodegenerative Diseases Through the Lens of Diffusion-Weighted MRI: Local White Matter Disorganization, Structural Connectome, and Multivariate Approaches.” The University of Alabama at Birmingham School of Medicine, Birmingham, AL, 01/2022
9. “Advanced Diffusion MRI in Understanding Non-Motor Symptoms in Parkinson’s Disease.” Society for Brain Mapping and Therapeutics, Los Angeles, CA, 03/2022
10. “Diffusion MRI: From Basics to Applications in Neurodegenerative Diseases.” The University of Alabama at Birmingham, Birmingham, AL, 10/2022
11. “Hands-On Introduction to Diffusion MRI.” The University of Alabama at Birmingham, Birmingham, AL, 10/2022
12. “Towards Diagnosing Early-Stage Parkinson’s Disease and Predicting Cognitive Decline in PD with Disease Progression Utilizing Advanced MRI Techniques.” Johns Hopkins University, Baltimore, MD, 01/2023
13. “Predicting Cognitive Decline in Participants with Repeated Head Impacts Through Multimodal MRI.” The University of Alabama at Birmingham, Birmingham, AL, 03/2023
14. “Predicting Cognitive Impairment Due to Repeated Head Impacts in Active Professional Fighters through Multimodal MRI and Machine Learning Techniques.” The University of Alabama at Birmingham, Birmingham, AL, 03/2023
15. “Neuroimaging approaches to diagnosing Parkinson’s disease – Opportunities and Challenges.” The University of Alabama at Birmingham, Birmingham, AL, 09/2023

### **Conference Oral Presentations**

#### **International**

1. “Quantifying differences in the cerebral blood flow (CBF) between controls, professional boxers and Mixed Martial Arts (MMA) fighters using arterial spin labeling MRI”. Singapore. 05/2016
2. “Disrupted topological brain organizations in large-scale cortical networks between impaired and nonimpaired active fighters”. Paris, France. 05/2017

#### **National**

1. “Predicting cognitive impairment in active professional fighters using multimodal MRI”. Florida, USA. 01/2016
2. “Unique structural backbone topological organization in early-stage Parkinson’s disease”. Hawaii, USA. 05/2019
3. “Distinctive structural connectivity between cognitively impaired and nonimpaired active professional fighters”. Hawaii, USA. 05/2019

### **Mentoring**

#### **Current**

|              |                                                                                                                                                              |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2023-Current | Taylor Robin Davis, Primary Advisor, Ph.D. Program, Department of Neurobiology, The University of Alabama at Birmingham, AL, USA                             |
| 2023-Current | Krishna Kanth Bodempudi, Primary Advisor, Ph.D. Program, Department of Electrical and Computer Engineering, The University of Alabama at Birmingham, AL, USA |
| 2023-Current | Alan Gardener, Step-Up Program Advisor, B.S. Program, Department of Neuroscience, The University of Alabama at Birmingham, AL, USA                           |
| 2023-Current | Ivan Campbell, Co-Primary Advisor, Ph.D. Program, Neuropsychology, The University of South Alabama, AL, USA                                                  |

#### **Previous**

|           |                                                                                                                                                                                                                                                                                                                                          |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2020-2022 | Karthik R. Sreenivasan, Ph.D. Advisor at Cleveland Clinic Foundation while Karthik was a Ph.D. student in Dr. Jefferson Kinney’s laboratory at The University of Nevada, Las Vegas. Karthik did not finish his Ph.D. due to personal reasons and joined Northwestern University, Chicago, IL.<br><u>Current:</u> Northwestern University |
| 2023-2023 | Saul Lopez,<br><u>Current:</u> Ph.D. Program, Neuroengineering, The University of Alabama at Birmingham, AL, USA                                                                                                                                                                                                                         |

## **Community Service**

1. Key member of the planning committee to organize the first ever University-level symposium on Neuro-engineering at The University of Alabama at Birmingham, AL, March 29-31, 2023.

## **RESEARCH ACTIVITIES**

My research is focused on understanding both brain development and neurodegenerative disorders as studied through the window of MRI techniques; diffusion MRI, Cerebral blood flow (CBF)-ASL MRI, functional MRI, and structural MRI. Specifically, I am interested in designing new machine learning algorithms for finding imaging biomarkers and understanding brain configuration changes using graph theoretical approaches within the context of neurodegenerative disorders (Eg: Alzheimer's Disease, Parkinson's disease, and Repetitive Head Impacts) and brain development. Broadly, I am interested in developing algorithms and pulse sequence protocols that are clinically relevant, for instance: understanding perinatal and prenatal brain development, folding of the brain and its changes thereof in brain disorders, connectivity of the brain both in neurodevelopment and neurodegeneration, developing new neuroimaging software for the community, designing new algorithms based on machine learning for finding predictive imaging biomarkers for diagnosis and disease progression, surface reconstruction and brain segmentation of human brain and developing new algorithms for understanding the diffusion processes in the gray and white matter structures in the human brain specifically in Alzheimer's and Parkinson's disease. I am also interested in writing novel pulse sequences alongside optimizing the current pulse sequences that are used in clinical research for faster, reproducible, and high-fidelity MRI data.

## **MEMBERSHIP IN PROFESSIONAL SOCIETIES**

|                 |                                                                                             |
|-----------------|---------------------------------------------------------------------------------------------|
| Name of Society | International Society for Magnetic Resonance in Medicine                                    |
| Role / Title    | Member                                                                                      |
| Start-End Dates | 2010-present                                                                                |
| Name of Society | Organization of Human Brain Mapping (OHBM)                                                  |
| Role / Title    | Member                                                                                      |
| Start-End Dates | 2016-present                                                                                |
| Name of Society | Alzheimer's Association International Society to Advance Alzheimer's Research and Treatment |
| Role / Title    | Member                                                                                      |
| Start-End Dates | 2019-present                                                                                |
| Name of Society | American Academy of Neurology                                                               |
| Role / Title    | Member                                                                                      |
| Start-End Dates | 2019-present                                                                                |
| Name of Society | Society for Neuroscience                                                                    |
| Role / Title    | Member                                                                                      |
| Start-End Dates | 2023-present                                                                                |
| Name of Society | Radiological Society of North America                                                       |
| Role / Title    | Member                                                                                      |
| Start-End Dates | 2023-present                                                                                |
| Name of Society | International Parkinson and Movement Disorder Society (MDS)                                 |
| Role / Title    | Member                                                                                      |
| Start-End Dates | 2023-present                                                                                |

## **PROFESSIONAL SERVICES**

### **Editorial Board Membership**

|                         |                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------|
| Journal 1               | Neuroimaging for Cognitive Neuroscience (Frontiers in Neuroimaging), Associate Editor |
| Start-End Dates         | 2022-present                                                                          |
| Journal 2               | Brain Imaging and Stimulation (Frontiers in Human Neuroscience), Review Editor        |
| Start-End Dates         | 2022-present                                                                          |
| Journal 3               | Brain Imaging Methods (Frontiers in Neuroscience), Review Editor                      |
| Start-End Dates         | 2022-present                                                                          |
| Journal 4               | Brain and Behavior, Editor                                                            |
| Virendra R. Mishra, PhD |                                                                                       |

|                                   |                                                                                                                                 |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Start-End Dates                   | 2022-present                                                                                                                    |
| Journal 5                         | Journal of Neuroimaging, Section Editor                                                                                         |
| Start-End Dates                   | 2020-present                                                                                                                    |
| Journal 6                         | Clinical Neurology and Neuroscience, Editor                                                                                     |
| Start-End Dates                   | 2020-present                                                                                                                    |
| <b><u>Grant Reviewer</u></b>      |                                                                                                                                 |
| Organization                      | Department of Defense                                                                                                           |
| Panel                             | Congressionally Directed Medical Research Programs, Parkinson's Research Program                                                |
| Date                              | 10/2022                                                                                                                         |
| Organization                      | Department of Defense                                                                                                           |
| Panel                             | Congressionally Directed Medical Research Programs, 2022 Traumatic Brain Injury Psychological Health Research Program (TBIPHRP) |
| Date                              | 02/2023                                                                                                                         |
| Organization                      | National Institutes of Health: National Institute of Biomedical Imaging and Bioengineering                                      |
| Panel                             | 2023/05 ZEB1 OSR-H (M1) R                                                                                                       |
| Date                              | Brain Initiative RFA EB-22-001<br>02/2023                                                                                       |
| Organization                      | National Institutes of Health: National Institute of Neurological Disorders and Stroke                                          |
| Panel                             | Special Emphasis Panel;                                                                                                         |
| Date                              | National Institute of Neurological Disorders and Stroke; ZNS1 SRB-S (15)<br>07/2023                                             |
| Organization                      | Department of Defense                                                                                                           |
| Panel                             | Peer Reviewed Alzheimer's Research Program (PRARP) TD-1                                                                         |
| Date                              | 09/2023                                                                                                                         |
| Organization                      | Department of Defense                                                                                                           |
| Panel                             | Congressionally Directed Medical Research Programs, 2022 Traumatic Brain Injury Psychological Health Research Program (TBIPHRP) |
| Date                              | 11/2023                                                                                                                         |
| <b><u>Manuscript Reviewer</u></b> |                                                                                                                                 |
| Journal 1                         | NeuroImage                                                                                                                      |
| Start-End Dates                   | 2015-present                                                                                                                    |
| Journal 2                         | PLoS One                                                                                                                        |
| Start-End Dates                   | 2015-present                                                                                                                    |
| Journal 3                         | Epilepsia                                                                                                                       |
| Start-End Dates                   | 2015-present                                                                                                                    |
| Journal 4                         | Springer Plus                                                                                                                   |
| Start-End Dates                   | 2015-present                                                                                                                    |
| Journal 5                         | Journal of Neuroimaging                                                                                                         |
| Start-End Dates                   | 2017-present                                                                                                                    |
| Journal 6                         | Brain and Behavior                                                                                                              |
| Start-End Dates                   | 2017-present                                                                                                                    |
| Journal 7                         | NeuroImage: Clinical                                                                                                            |
| Start-End Dates                   | 2018-present                                                                                                                    |
| Journal 8                         | Journal of Cerebral Blood Flow and Metabolism                                                                                   |

|                 |                                                |
|-----------------|------------------------------------------------|
| Start-End Dates | 2018-present                                   |
| Journal 9       | Human Brain Mapping                            |
| Start-End Dates | 2018-present                                   |
| Journal 10      | Frontiers                                      |
| Start-End Dates | 2018-present                                   |
| Journal 11      | Journal of Science and Medicine in Sports      |
| Start-End Dates | 2018-present                                   |
| Journal 12      | Parkinsonism and Related Disorders             |
| Start-End Dates | 2018-present                                   |
| Journal 13      | Annals of Clinical and Translational Neurology |
| Start-End Dates | 2018-present                                   |
| Journal 14      | Brain Connectivity                             |
| Start-End Dates | 2020-present                                   |
| Journal 15      | Physica A                                      |
| Start-End Dates | 2020-present                                   |
| Journal 16      | Journal of Visualized Experiments              |
| Start-End Dates | 2020-present                                   |
| Journal 17      | Neuroscience                                   |
| Start-End Dates | 2022-present                                   |
| Journal 18      | CNS Neuroscience & Therapeutics                |
| Start-End Dates | 2023-present                                   |
| Journal 19      | Nutritional Neuroscience                       |
| Start-End Dates | 2023-present                                   |
| Journal 20      | Neural Regeneration Research                   |
| Start-End Dates | 2023-present                                   |
| Journal 21      | Journal of Neuroscience                        |
| Start-End Dates | 2023-present                                   |
| Journal 22      | Brain Imaging and Behavior                     |
| Start-End Dates | 2023-present                                   |

## **HONORS AND AWARDS**

The University of Texas at Arlington, Dean's Doctoral Fellowship, 2009-2013.

International Society for Magnetic Resonance in Medicine Trainee Educational Stipend Award, 2011.

International Society for Magnetic Resonance in Medicine (ISMRM) Magna Cum Laude merit award, 2012.

- Abstract titled "Differences in the inter-tract correlations between puberty and neonatal subjects"

International Society for Magnetic Resonance in Medicine Trainee Educational Stipend Award, 2012.

Gordon's Research Conference on In-vivo Magnetic Resonance, Trainee Educational Stipend Award, 2012.

The University of Texas at Arlington Trainee Educational Stipend Award, 2013.

Keep Memory Alive Scholar, Cleveland Clinic Lou Ruvo Center for Brain Health, 2016.

Oldendorf Award from American Society of Neuroimaging, 2016.

Virendra R. Mishra, PhD

- Abstract titled “Predicting Cognitive Impairment in Active Professional Fighters using Multimodal MRI”

International Society for Magnetic Resonance in Medicine (ISMRM) Summa Cum Laude merit award, 2016.

- Abstract titled “Machine learning for predictive biomarkers in professional fighters”

International Society for Magnetic Resonance in Medicine (ISMRM) Magna Cum Laude merit award, 2016.

- Abstract titled “Vascular dysregulation in professional fighters”

International Society for Magnetic Resonance in Medicine Trainee Educational Stipend Award, 2016.

International Society for Magnetic Resonance in Medicine (ISMRM) Summa Cum Laude merit award, 2017.

- Abstract titled “Disrupted topological brain organizations in large-scale cortical networks between impaired and nonimpaired active fighters”

International Association of Parkinsonism and Related Disorders, Best Poster in Session award, 2022.

- Abstract titled “Understanding correlation between diffusion MRI-derived white-matter organization and clinical measures in Parkinson’s disease patients with freezing of gait”

Heersink Innovation Fellows, The University of Alabama at Birmingham, 2022.

Alabama Academy of Neurology, Second prize awarded to Mr. Saul Lopez (Researcher in Dr. Mishra’s laboratory), 2023.

- Abstract titled “MRI Correlates of Subjective Cognitive Complaint in a Subset of Participants with Parkinson’s disease from the PPMI Database”

**FORMAT FOR  
STANDARDIZED CURRICULUM VITAE  
University of Alabama at Birmingham  
School of Medicine Faculty**

Date: 11/1/2023

**PERSONAL INFORMATION**

Name: Daniel J Tyrrell  
Citizenship: United States  
Foreign Language(s): none  
Home Address: 2506 Cobblestone Way, Birmingham, AL 35226  
Phone: 734-476-0246 (cell)

**RANK/TITLE**

Rank: Assistant Professor  
Department: Pathology - Molecular and Cellular  
Business Address: PBMR2 504  
Phone: 205-975-0088  
Email: danieltyrrell@uabmc.edu

**HOSPITAL AND OTHER (NON-ACADEMIC) APPOINTMENTS:**

Associate Scientist: Center for Clinical and Translational Science (CCTS), The University of Alabama at Birmingham  
Associate Scientist: Nathan Shock Center, The University of Alabama at Birmingham  
Member: Immunology Institute, The University of Alabama at Birmingham  
Investigator: McKnight Brain Institute, The University of Alabama at Birmingham

**PROFESSIONAL CONSULTANTSHIPS:** none

**EDUCATION:**

2008-2010 AS, Math & Science, Washtenaw Community College, Ann Arbor, MI  
2010-2012 BS, Kinesiology – Movement Science, University of Michigan, Ann Arbor, MI  
2012-2016 PhD, Integrated Physiology and Pharmacology, Department of Gerontology, Wake Forest University, Winston-Salem, NC, Supervisor: Anthony J. A. Molina, PhD

**POSTDOCTORAL TRAINING:**

2016-2021 Research Fellow, Internal Medicine, Dept. of Cardiology, University of Michigan, Ann Arbor, MI, Supervisor: Daniel R. Goldstein, MBBS  
2021-2022 Research Investigator, Internal Medicine, Dept. of Cardiology, University of Michigan, Ann Arbor, MI, Supervisor: Daniel R. Goldstein, MBBS

**AWARDS/HONORS**

|      |                                                                                                                                                                                                              |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2023 | Agilent Applications and Core Technology University Research Award                                                                                                                                           |
| 2023 | Nathan Shock Center Pilot/Feasibility Award                                                                                                                                                                  |
| 2021 | Early Career Researcher, Michigan Alzheimer's Disease Research Center                                                                                                                                        |
| 2021 | Poster winner, 5th Annual Beyond Amyloid Research Symposium, University of Michigan                                                                                                                          |
| 2020 | Best Poster, University of Michigan-Israel partnership Conference 2020                                                                                                                                       |
| 2019 | AHA Scientific Sessions oral presentation, ATVB Council Travel Awardee                                                                                                                                       |
| 2018 | Emerging Scholars and Professionals Organization/Biological Sciences Symposium Speaker Travel Award from Gerontological Society of America                                                                   |
| 2017 | T32-HL007853 - Institutional Postdoctoral Research Fellow, Multidisciplinary Cardiovascular Research Training Program (PI: Dr. David Pinsky), Internal Medicine, Dept. of Cardiology, University of Michigan |
| 2017 | University of Michigan Internal Medicine 25th Annual Research Symposium Plenary Poster Award                                                                                                                 |
| 2016 | Wake Forest Innovation Quarter, People's Choice Award for Featured Technologies - Blood based Diagnostic to Monitor Healthy Aging                                                                            |
| 2015 | Emerging Scholars and Professionals Organization/Biological Sciences Symposium Speaker Travel Award from the Gerontological Society of America                                                               |
| 2015 | WFU Alumni Student Travel Award from Wake Forest School of Medicine                                                                                                                                          |
| 2015 | Visiting Scientist - Oroboros Instruments MITOFIT Laboratory, Innsbruck, Austria                                                                                                                             |
| 2014 | Carol Schutz Student Travel Award from The Gerontological Society of America                                                                                                                                 |
| 2014 | Seahorse Bioscience Travel Award from Seahorse Bioscience                                                                                                                                                    |

#### **PROFESSIONAL SOCIETIES:**

International Society to Advance Alzheimer's Research and Treatment

Michigan Physiological Society

American Heart Association (AHA) – ATVB Council

Gerontological Society of America (GSA) – Biological Sciences Section

American Physiological Society (APS)

Federation of American Societies for Experimental Biology (FASEB)

Society for Neuroscience

#### **COUNCILS AND COMMITTEES:**

|              |                                                                                                                            |
|--------------|----------------------------------------------------------------------------------------------------------------------------|
| 2024         | Ad hoc member, National Institutes of Health, Clinical Neuroimmunology and Brain Tumors (CNBT) Study Section               |
| 2023         | Ad hoc member, American Heart Association Fellowship Molecular Signaling Study Section Committee                           |
| 2021         | University of Michigan Post-doctoral Association – Anti-Racism Subcommittee                                                |
| 2020-current | Co-organizer/Treasurer of Black In Cardio initiative ( <a href="https://blackincardio.com">https://blackincardio.com</a> ) |

- |           |                                                                                                                                     |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------|
| 2017-2019 | Biological Sciences Senior Representative for Emerging Scholars and Professionals Organization to Gerontological Society of America |
| 2015-2016 | Biological Sciences Junior Representative for Emerging Scholars and Professionals Organization to Gerontological Society of America |

**UNIVERSITY ACTIVITIES:**

- |              |                                                                                                   |
|--------------|---------------------------------------------------------------------------------------------------|
| 2023-current | University of Alabama at Birmingham Graduate Biomedical Sciences Neuro Theme Admissions Committee |
| 2023-current | University of Alabama at Birmingham Medical School Admissions Committee                           |
| 2023-current | RMS Roadmap Scholars – Career Coach for 1 PhD student                                             |
| 2023         | Hosted Blazer BRAIN summer undergraduate researcher                                               |

**EDITORIAL BOARD MEMBERSHIPS:**

Journal of Heart and Lung Transplantation  
 Arteriosclerosis, Thrombosis, and Vascular Biology

**MAJOR RESEARCH INTERESTS:**

I am interested understanding the mechanisms of how aging leads to disease. Specifically, I want to understand how age-related vascular changes promote cardiovascular and neurodegenerative diseases. I also want to understand how age-related changes in populations and phenotypes of adaptive immune cells like cytotoxic T lymphocytes contribute to cardiovascular and neurodegenerative diseases. My laboratory uses tissue-specific knockout mouse models, AAV approaches, confocal and light-sheet fluorescence microscopy, multi-parameter and spectral flow cytometry, imaging cytometry, and single-cell RNA sequencing approaches.

**TEACHING EXPERIENCE:**

- |           |                                                                                                                                  |
|-----------|----------------------------------------------------------------------------------------------------------------------------------|
| 2023      | Lecture: Aging Immune System, 9/26/23. Biology of Aging (FA2023 GBS746).<br>Course director: Josh Stern, PhD                     |
| 2023      | Course Co-Director, New Perspectives in Cardiovascular Biology, Summer 2, 6/28/23 – 8/8/23. (SU2023 GBS758).                     |
| 2022      | Lecture: Aging Immune System, 9/27/22. Biology of Aging (FA2022 GBS746).<br>Course director: Constanza Cortes, PhD               |
| 2022      | Lecture: Aging Immune System, 9/29/22. Biology of Aging (FA2022 GBS746).<br>Course director: Constanza Cortes, PhD               |
| 2022      | Lecture: Aging and Single Cell RNA sequencing. 11/4/22. University of Madras (Zoom).                                             |
| 2016      | Adjunct Instructor of Biology, Salem College, Winston-Salem, NC, Anatomy and Physiology I Lab (full semester)                    |
| 2015      | Adjunct Instructor of Biology, Salem College, Winston-Salem, NC, Anatomy and Physiology I Lab (full semester)                    |
| 2015-2016 | Preparatory Biochemistry (Masters course), Wake Forest School of Medicine, Winston-Salem, NC, Bioenergetics I & II (full module) |



- 2015 Lecture: Mitochondrial respiration in isolated human blood cells (Invited instructor) - Techniques Session at 9th Mitochondrial Physiology School, East Carolina University, Greenville, NC
- 2015 Lecture: Anatomy & Physiology (Undergraduate course), Winston-Salem State University, Winston-Salem, NC, Muscle Tissue Physiology. Course director: Manju Bhatt, PhD

#### MAJOR LECTURES AND VISITING PROFESSORSHIPS:

- 2023 Symposium chair, AHA Vascular Discovery, Plenary Session 2, Highlights from the *ATVB* Journal
- 2023 Invited speaker, NIH Workshop, Advances in Aging, Immunity, and Chronic Inflammatory Diseases
- 2021 Invited speaker, Cellular and Integrative Physiology Seminar. Vascular-Intrinsic and T Cell Mechanisms of Age-Enhanced Atherosclerosis. University of Nebraska Cardiovascular Center

#### GRANT SUPPORT:

|               |           |                 |    |
|---------------|-----------|-----------------|----|
| R00-AG068309  | 2022-2025 | \$250,000/year  | PI |
| K99-AG068309  | 2021-2022 | \$100,000/year  | PI |
| F32-HL1400728 | 2017-2020 | \$165,445 total | PI |

#### OTHER:

Nathan Shock Center 2023 Pilot award (\$26,804)  
Agilent University Relations program 2023 gift (\$55,848)

#### BIBLIOGRAPHY:

##### MANUSCRIPTS:

Ali MA, Gioscia-Ryan R, Yang D, Sutton NR, **Tyrrell DJ\***. Cardiovascular Aging: Spotlight on Mitochondria. *Am J Physiol Heart Circ Physiol*. 2023 Dec 1. doi: 10.1152/ajpheart.00632.2023. Epub ahead of print. doi: 10.1152/ajpheart.00632.2023 PMID: 38038719. **\*Corresponding author**

**\*Tyrrell DJ**, Wragg K, Chen J, Wang H, Song J, Blin MG, Bolding C, Vardaman III D, Giles K, Tidwell H, Ali MA, Janappareddi A, Wood SC, Goldstein DR. Clonally expanded memory CD8<sup>+</sup> T cells accumulate in atherosclerotic plaques and are pro-atherogenic in aged mice. *Nature Aging*. 2023 Nov 23. doi: 10.1038/s43587-023-00515-w. PMID: 37996758. **\*Corresponding author**

Featured in *Nature Reviews Cardiology* Research Highlight:  
Huynh K. Clonal expansion of CD8<sup>+</sup> T cells in aged mice linked to pro-atherogenic phenotype. *Nat Rev Cardiol*. 2023 Dec 8. doi: 10.1038/s41569-023-00981-0. Epub ahead of print. PMID: 38066087.

Woitowich NC, Hengel SR, Vilgalys TP, Babbior J, **Tyrrell DJ\***. Analysis of NIH K99/R00 Awards and the Career Progression of Awardees. *eLife*. 2023 Jun 22. doi: 10.7554/eLife.88984.1. PMID: 37162873; PMCID: PMC10168267. **\*Corresponding author**

Zhang X, **Tyrrell DJ**, Alliston T, Schilling B, Yousefzadeh MJ, Schafer MJ. Senescence and

Inflammation: Summary of a Gerontological Society of America and National Institute on Aging-Sponsored Symposium. *J Gerontol A Biol Sci Med Sci*. 2023 May 6. doi: 10.1093/gerona/glad120. PMID: 37148367.

Song J, Farris D, Ariza P, Moorjani S, Varghese M, Blin M, Chen J, **Tyrrell D**, Zhang M, Singer K, Salmon M, Goldstein DR. Age-associated adipose tissue inflammation promotes monocyte chemotaxis and enhances atherosclerosis. *Aging Cell*. 2023. doi: 10.1111/ace.13783. PMID: 36683460.

Hindy G<sup>1</sup>, **Tyrrell DJ**<sup>1</sup>, Vasbinder A<sup>1</sup>, Wei C, Presswalla F, Wang H, Blakely PK, Ozel AB, Graham SE, Holton GH, Dowsett J, Fahed AC, Amadi KM, Erne G, Tekumulla A, Ismail A, Launius C, Sotoodehnia N, Pankow JS, Thørner LW, Erikstrup C, Pedersen OB, Banasik K, Brunak S, Ullum H, Eugen-Olsen J, Ostrowski SR, Haas ME, Nielsen J, Lotta L, Engström G, Melander O, Orho-Melander M, Zhao L, Murthy VL, Pinsky DJ, Willer C, Heckbert SR, Reiser J, Goldstein DR, Desch KC, Hayek SS. Clinical, genetic, and experimental increase in soluble urokinase plasminogen activator receptor levels promotes atherosclerosis. *Journal of Clinical Investigation*. Doi: 10.1172/JCI158788. PMID: 36194491. <sup>1</sup>co-first authors.

Featured in *JCI* December 2022 edition with accompanying commentary: Goodchild TT, Zhen L, Lefer DJ. Soluble urokinase plasminogen activator receptor: from biomarker to active participant in atherosclerosis and cardiovascular disease. *Journal of Clinical Investigation*. (Dec 2022). doi: 10.1172/JCI165868. PMID: 36519539.

Amartey J, Okagbue C, Saccoh A, Buffonge S, Francois A, Tcheandjieu C, Mitchell S, **Tyrrell DJ**, Kamin-Mukaz D. Black In Cardio: Promoting Diversity and Representation in the Cardiovascular Field. *Nature Reviews Cardiology*. (Sept. 2022). doi: 10.1038/s41569-022-00774-x. PMID: 36127463

**\*Tyrrell DJ**, Chen JC, Li BY, Wood SC, Rosebury-Smith W, Remmer HA, Jiang L, Zhang M, Salmon M, Ailawadi G, Yang B, Goldstein DR. Aging Alters the Aortic Proteome in Health and Thoracic Aortic Aneurysm. *Arteriosclerosis, Thrombosis, and Vascular Biology*. (May 2022). doi: 10.1161/ATVBAHA.122.317643. PMID: 35510553.

**\*Corresponding author**

Featured article in *ATVB* August 2022 edition with accompanying editorial:

Watson AMD, Chen YC, Karlheinz P. Vascular Aging and Vascular Disease Have Much in Common! *Arteriosclerosis, Thrombosis, and Vascular Biology*. (Jun 2022). doi: 10.1161/ATVBAHA.122.317892. PMID: 35735019.

**\*Tyrrell DJ**, Blin MG, Song J, Wood SC, Goldstein DR. Aging impairs mitochondrial function, mitophagy, and elevates IL-6 within the cerebral vasculature. *Journ of the Am Heart Assoc*. (Dec. 2020). doi: 10.1161/JAHA.120.017820. PMID: 33225820. **\*Corresponding author**

**Tyrrell DJ**, Goldstein DR. Ageing and atherosclerosis: vascular intrinsic and extrinsic factors and potential role of IL-6. *Nature Reviews Cardiology*. (Sept. 2020). doi: 10.1038/s41569-020-0431-7. PMID: 32918047.

**Tyrrell DJ**, Blin MG, Song J, Wood SC, Zhang M, Beard DA, Goldstein DR. Age-Associated Mitochondrial Dysfunction Accelerates Atherogenesis. *Circulation Research*. (Jan. 2020). doi: 10.1161/CIRCRESAHA.119.315644. PMID: 31818196.

Smith CA, **Tyrrell DJ**, Kulkarni UA, Wood S, Leng L, Zemans R, Bucala R, Goldstein DR. Macrophage migration inhibitory factor enhances influenza-associated mortality in mice.

*JCI Insight*. 2019;4(13): e128034. doi: 10.1172/jci.insight.128034

**Tyrrell DJ**, Bharadwaj MS, Jorgensen MJ, Register TC, Shively C, Andrews RN, Neth B, Keene CD, Mintz A, Craft A, Molina AJA. Blood-Based Bioenergetic Profiling Reflects Differences in Brain Bioenergetics and Metabolism. *Oxid Med Cell Longev*. (Oct. 2017). doi: 10.1155/2017/7317251. PMID: 29098063

Bellumkonda L, **Tyrrell D**, Hummel SL, Goldstein DR. Pathophysiology and Heart Failure: a common inflammatory origin? *Aging Cell*. 16(3):444-450 (Jun. 2017). doi: 10.1111/accel.12581 PMID: 28266167

**Tyrrell DJ**, Bharadwaj MS, Jorgensen MJ, Register TC, Molina AJ. Blood Cell Respirometry is Associated with Skeletal and Cardiac Muscle Bioenergetics: Implications for a Minimally Invasive Biomarker of Mitochondrial Health. *Redox Biol*. 0:65-77 (Sep. 2016). doi: 10.1016/j.redox.2016.09.009. PMID: 27693859

Bharadwaj MS, **Tyrrell DJ**, Leng I, Demons JL, Lyles MF, Carr JJ, Nicklas BJ, Molina AJ. Relationships between mitochondrial content and bioenergetics with obesity, body composition and fat distribution in healthy older adults. *BMC Obesity*. 2:40 (Oct. 2015). doi:10.1186/s40608-015-0070-4 PMID: 26448868

**Tyrrell DJ**, Bharadwaj MS, Van Horn CG, Marsh AP, Nicklas BJ, Molina AJ. Blood-Cell Bioenergetics are Associated with Differences in Physical Function, Strength, and Muscle Quality in Older Adults. *Exp Gerontol*. 70:84-91 (Oct. 2015). doi: 10.1016/j.exger.2015.07.015 PMID: 26226578

Bharadwaj MS, **Tyrrell DJ**, Lyles MF, Demons JL, Rogers GW, Molina AJA. Preparation and Respirometric Assessment of Mitochondria Isolated from Skeletal Muscle Tissue Obtained by Percutaneous Needle Biopsy. *J. Vis. Exp.* (96), e52350 (2015). doi:10.3791/52350 PMID: 25741892

**Tyrrell DJ**, Bharadwaj MS, Van Horn CG, Kritchevsky SB, Nicklas BJ, Molina AJ. Respirometric Profiling of Muscle Mitochondria and Blood Cells are Associated with Differences in Gait Speed Among Community-Dwelling Older Adults. *J Gerontol A Biol Sci Med Sci*. 70 (11):1394-97 (Nov. 2015). doi: 10.1093/gerona/glu096 PMID: 25030980

**BOOKS:** none

#### **PUBLISHED ABSTRACTS:**

**Tyrrell DJ**, Goldstein DR. Aging Enhances Vascular Mitochondrial Dysfunction Prior to Hyperlipidemia to Accelerate Atherosclerosis. *American Heart Association's 2019 Scientific Sessions*, ATVB session: Novel Insights into Coronary Arterial Disease and Aging. Philadelphia, PA. 11/11/2019. Published in: *Circulation*. doi: 10.1161/circ.140.suppl\_1.12990. Platform Presentation

**\*Tyrrell DJ**, Wood SC, Goldstein DR. Aging Impairs Aortic Mitochondrial Function & Enhances Inflammation & Plaque Necrosis in Atherosclerotic Mice. *The Gerontological Society of America's 2018 Annual Scientific Meeting*, ESPO/ Biological Sciences Section Symposium: The Crossroads of Aging—Targeting Immunity, Metabolism, and Cellular Stress. Boston, MA. 11/16/2018. doi: 10.1093/geroni/igy023.2063. *\*Symposium Chair and Organizer*. Platform Presentation

**Tyrrell DJ**, Bharadwaj MS, Jorgensen MJ, Register TC, Craft S, Molina AJA. Blood based bioenergetic profiling reports on muscle mitochondrial function and is responsive to dietary intervention. *2016 European Bioenergetics Conference*, Riva del Garda, Italy,

7/4/16. Published in: *Biochimica et Biophysica Acta (BBA) – Bioenergetics*. 2016. 1857:32 (non-presenting author)

**Tyrrell DJ**, Bharadwaj MS, Van Horn CG, Marsh AP, Nicklas BJ, Molina AJ. Relationships Between Blood-Based Bioenergetic Capacity and Fat Loss After Diet and Exercise Intervention. *The Gerontological Society of America's 68th Annual Scientific Meeting, ESPO/Biological Sciences Symposium Featuring Junior Investigators*. Orlando, FL. 11/19/15. Published in: *The Gerontologist*. 2015. 55:163. Platform Presentation

**Tyrrell DJ**, Bharadwaj MS, Van Horn CG, Kritchevsky SB, Nicklas BJ, Molina AJ. Blood and Muscle Mitochondrial Bioenergetics are Associated with Physical Function in Older Adults. *The Gerontological Society of America's 67th Annual Scientific Meeting, Biological Sciences Paper Presentation*. Washington DC. 11/9/14. Published in: *The Gerontologist*. 2014; 54:642. Platform Presentation

#### **POSTER EXHIBITS:**

**Tyrrell DJ**, Wood SC, Goldstein DR. Age-associated Granzyme K-expressing CD8+ T-cells enhance atherosclerosis in mice. *Cell Press Translational Immunometabolism Conference*. Basel, Switzerland. 06/28/2022

**Tyrrell DJ**, Blin MG, Song J, Wood SC, Goldstein DR. Aging impairs mitochondrial function, mitophagy, and elevates IL-6 within the cerebral vasculature. *Michigan Alzheimer's Disease Research Center Beyond Amyloid Conference 2021*. Ann Arbor, MI, USA. 06/10/2021.

**Tyrrell DJ**, Blin MG, Song J, Wood SC, Goldstein DR. Aging impairs mitochondrial function, mitophagy, and elevates IL-6 within the cerebral vasculature. *Michigan-Israel Conference 2020*. Ann Arbor, MI USA. 12/07/2020.

**Tyrrell DJ**, Goldstein DR. Aging enhances atherosclerotic plaque necrosis independently of metabolic dysfunction. *Cell Symposia: Aging & Metabolism 2018*. Sitges, Spain. 09/24/2018.

**Tyrrell DJ**, Wood SC, Goldstein DR. Host Age Enhances Atherosclerotic Plaque Necrosis and Macrophage Infiltration in Mice Independently of Metabolic Alterations. *4<sup>th</sup> Annual Celebration of Excellence & Scientific Symposium – Cardiovascular Medicine*, University of Michigan, Ann Arbor, MI. 06/07/18.

**Tyrrell DJ**, Wood SC, Goldstein DR. Host Age Enhances Atherosclerotic Plaque Necrosis and Macrophage Infiltration in Mice Independently of Metabolic Alterations. *Vascular Discovery: From Genes to Medicine 2018 Scientific Sessions (ATVB|PVD)*, San Francisco, CA. 05/10/18.

**Tyrrell DJ**, Mondragon RR, Guerrero-Serna G, Valdivia HH, Jalife J, Goldstein DR. Aging Enhances Atrial Fibrillation Inducibility in Atherosclerotic Hosts. *Gordon Research Conference: Atherosclerosis*, Newry, ME. 06/22/17.

**Tyrrell DJ**, Mondragon RR, Guerrero-Serna G, Valdivia HH, Jalife J, Goldstein DR. Aging Enhances Atrial Fibrillation Inducibility in Atherosclerotic Hosts. *25th Annual Internal Medicine Research Symposium*, University of Michigan, Ann Arbor, MI, 05/12/17.

**Tyrrell DJ**, Mondragon RR, Guerrero-Serna G, Valdivia HH, Jalife J, Goldstein DR. Aging Enhances Atrial Fibrillation Inducibility in Atherosclerotic Hosts. *36th Cell & Molecular Biology Research Symposium*, University of Michigan, Ann Arbor, MI, 05/3/17.

**Tyrrell DJ**, Bharadwaj MS, Van Horn CG, Marsh AP, Nicklas BJ, Molina AJ. Mitochondrial Bioenergetics, Inflammation, and Physical Ability in Older Adults. *2015 Pepper Older Americans Independence Center Annual Meeting*, Arlington VA, 4/27/15. (non-presenting author)

**Tyrrell DJ**, Bharadwaj MS, Van Horn CG, Kritchevsky SB, Nicklas BJ, Molina AJ. Respiriometric Profiling of Isolated Muscle Mitochondria and Blood Cells are Associated with Differences in Gait Speed in Community-Dwelling Older Adults. *WFU Student Research Day*, Winston-Salem NC, 5/28/14.

## ORAL PRESENTATIONS

Session Moderator: Plenary Session 2: Highlights from the *ATVB Journal*. American Heart Association, *Vascular Discovery 2023*. Boston, MA. 5/11/23.

Memory CD8 T Cells Contribute to Atherosclerosis in Aged Mice. American Heart Association, *Vascular Discovery 2023*. Boston, MA. 5/11/23.

Inflammation, aging, and cardiovascular disease. NIH Workshop, *Advances in Aging, Immunity and Chronic Inflammatory Diseases*. Bethesda, MD, 5/9/2023.

Age-associated Granzyme K-Expressing CD8<sup>+</sup> T cells Enhance Atherosclerosis in Mice. *Gerontological Society of America Annual Scientific Meeting*. Indianapolis, IN 46225. 11/4/2022.

Exploring CD8<sup>+</sup> T cells in aging and disease. *Program in Immunology Seminar Series*. University of Alabama at Birmingham, Program in Immunology. Birmingham, AL 35205. 10/20/2022.

Terminally Differentiated CD8<sup>+</sup> T cells Accumulate in Atherosclerotic Plaques and Are Pro-atherogenic in Aged Mice. *4<sup>th</sup> Annual M-BOCA Symposium*. University of Michigan. Ann Arbor, MI 48109. 10/07/2022.

Exploring CD8<sup>+</sup> T cells in aging and disease. *Dept. of Cardiology Grand Rounds*. University of Alabama at Birmingham, Division of Cardiology. Birmingham, AL 35205. 09/28/2022.

Exploring CD8<sup>+</sup> T cells in aging and disease. *Dept. of Pathology Grand Rounds*. University of Alabama at Birmingham, Department of Pathology. Birmingham, AL 35205. 09/15/2022.

Age-associated Granzyme K-expressing CD8<sup>+</sup> T-cells enhance atherosclerosis in mice. *Dept. of Internal Medicine Annual Research Symposium*. Ann Arbor, MI USA. 05/06/2022.

Faculty Candidate Seminar. Dept. Cell Biology & Physiology. Dec. 15, 2021. University of North Carolina at Chapel Hill.

Invited Lecture. Cellular and Integrative Physiology Seminar. Vascular-Intrinsic and T Cell Mechanisms of Age-Enhanced Atherosclerosis. Dec. 11, 2021. University of Nebraska Cardiovascular Center.

Faculty Candidate Seminar. Dept. of Applied Physiology and Kinesiology. Vascular-intrinsic and T Cell Mechanisms of Age-Enhanced Atherosclerosis. Nov. 29, 2021. University of Florida.

Faculty Candidate Seminar. Dept. of Nutrition. Links Between Mitochondria and Inflammation in Age-Related Vascular Diseases. Nov. 23, 2021. Texas A&M University.

Faculty Candidate Seminar. Dept. of Internal Medicine, Dept. of Pathology, Dept. of Molecular and Integrative Physiology. Vascular and Immune Age-related Mechanisms of Atherosclerosis. Nov. 15, 2021. University of Michigan (virtual).

Panel Participant. Novel Strategies to Promote Healthy Vascular Aging. Nov. 13, 2021. American Heart Association Annual Scientific Sessions 2021.

Faculty Candidate Seminar. Dept. of Physiology. Age-related Vascular and Immune Mechanisms Contribute to Vascular Diseases. Oct. 20, 2021. University of Toledo.

Faculty Candidate Seminar. Center for Molecular Medicine and Genomics. Links Between Mitochondria and Inflammation in Age-Related Vascular Diseases. Sept. 10, 2021. Wayne State University.

Pathology Special Seminar Series. Links Between Mitochondria and Inflammation in Age-related Vascular Diseases. Aug. 12, 2021. University of Alabama at Birmingham.

Faculty Candidate Seminar. Dept. of Pathology and Translational Pathobiology. Mechanisms of Age-Enhanced Cardio- and Cerebrovascular Disease. June 24, 2021. Louisiana State University Health at Shreveport.

Invited Lecturer. Immersion in Comparative Aging and Regenerative Biology. Topic: Vascular Aging. MDI Biological Laboratory, Bar Harbor, ME. July 2020 (Postponed to July 2022 due to SARS-CoV-2 pandemic).

Blood-Cell Bioenergetics are Associated With Physical Function and Inflammation in Overweight/Obese Older Adults. *9th Mitochondrial Physiology School*, Greenville, NC. 8/12/15.

Blood and Muscle Bioenergetics are Associated with Physical Function, Strength, and Inflammation in Older Adults. *Wake Forest University Redox Biology Annual Retreat*, Winston-Salem, NC. 5/15/15.

NOVEMBRE/2023

Curriculum Vitae

**DAVID EUGENE VANCE, PHD, MGS**  
(ORCID: 0000-0002-0498-6263)



**Abridged:** Dr. David Vance is a Professor at the University of Alabama at Birmingham (UAB) School of Nursing and psychologist actively pursuing research in positive and negative neuroplasticity, neurocognitive aging, neurocognitive remediation, aging with HIV, and more recently neurocognition in cancer survivors. With a passion for successful cognitive aging and for mentoring scientific leaders, Dr. Vance's work has resulted in **+372 publications (+300 peer-reviewed articles with 63% as first/senior author)** including numerous book chapters and editorials, and he has disseminated his research prolifically in **national and international presentations (+430)** across +24 countries/territories. He has received a White House invitation to attend the first forum on aging with HIV and has participated as an invited member of the National Institutes of Health (NIH) Think Tank – Working Group on HIV and Aging sponsored by the Office of AIDS Research to develop the national research agenda, published in the *Journal of Acquired Immunodeficiency Syndromes*. He has been heavily involved in several NIH grants as co-investigator, and several as Principal Investigator (R01, R21, R03, etc.); **his grants as Principal Investigator total to \$4,148,508 and as Co-Investigator total to \$35,547,130**. In 2022, he was awarded a \$408,000 grant from the National Institute on Aging titled: "Executive Function Training to Reduce Cognitive Intra-Individual Variability in Adults with HIV".

**Unabridged:** Dr. David E. Vance is a Professor at the University of Alabama at Birmingham (UAB) School of Nursing and psychologist actively pursuing research in positive and negative neuroplasticity, neurocognitive aging, neurocognitive remediation, aging with HIV, and more recently neurocognition in cancer survivors. With a passion for successful cognitive aging and for mentoring scientific leaders, Dr. Vance's work has resulted in **+372 publications** including **+300 peer-reviewed articles (48% as 1<sup>st</sup> author; 16% as senior author)** as well as numerous book chapters and editorials. From his +725 presentations, he has disseminated his research prolifically in **+430 national and international presentations across +24 countries/territories**. In 2011, he received a White House invitation to attend the first forum on aging with HIV and has participated as an invited member of the National Institutes of Health (NIH) Think Tank – Working Group on HIV and Aging sponsored by the Office of AIDS Research to develop the national research agenda, published in the *Journal of Acquired Immunodeficiency Syndromes*. He participants on many editorial boards and is the founding editor of *Nursing: Research and Reviews*. He has been awarded several research grants; **his grants as Principal Investigator total to \$4,148,508 and as Co-Investigator total to \$35,547,130**. In 2016, he was awarded a \$2.96 million dollar R01 grant from the National Institute of Mental Health (NIMH) titled, "An RCT of Speed of Processing Training in Middle-Aged and Older Adults with HIV" and later a \$404,000 grant from the National Institute on Nursing Research (NINR) titled, "Individualized-Targeted Cognitive Training in Older Adults with HAND." In 2022, he was awarded a \$404,000 grant from the National Institute on Aging titled: "Executive Function Training to Reduce Cognitive Intra-Individual Variability in Adults with HIV".

**VISION** – Cognition is the greatest resource we possess to live an enriched and energized life as we age; maintain that is essential for successful aging.

**VALUE** – Over the lifespan, cognition is worth protecting and improving and when in decline, worth remediating and compensating, to help older adults and adults with HIV remain engaged in a quality-enriched everyday life and with those they love.

**MISSION** – Using our scientific tools of inquiry, my mission is to observe and discover innovative strategies to improve cognitive functioning in older adults and adults with HIV, breast cancer survivors, and other cognitively vulnerable people.

**FOCUS** – Within my vision, value, and mission, I specifically study strategies to promote successful aging with HIV, with cognition being a cornerstone of this scientific and personal pursuit.

**LEADERSHIP** – Leadership requires direct communication, trust, caring, and open relationships to build a community of like-minded individuals committed to a common goal of building each other up.

**DIVERSITY** – Different perspective are needed to gain insights on how to define and address issues as either problems or solutions. Our personal and cultural lens can be combined to examine atoms or stars.

**COMMUNITY** – Many hands make for lightwork, many minds make for interesting work worth doing.

## ADDRESS

Professor (Tenured)  
School of Nursing, NB 470E  
1701 University Boulevard  
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## PERSONAL

Birthdate/Birthplace/Hometown: 17 September 1969; Abingdon, Virginia, USA  
Home Address: 2908 10<sup>th</sup> Court South  
Birmingham, AL 35222  
Home Phone: (205) 915-1707

## EDUCATION

NIA Postdoctoral Fellowship, Emphases on Cognitive Aging, Older Drivers, and Aging with HIV. Roybal Center for Research in Applied Gerontology, University of Alabama at Birmingham, Birmingham, AL. 2001-2003

Doctorate of Developmental Psychology, Emphases on Dementia Caregiving, Intervention Research, Behavioral Programming and Analysis, and Structural Equation Modeling, August 2000, University of Alabama at Birmingham, Birmingham, AL.

Masters of Applied Developmental Psychology, Emphases on Cognitive Aging, Activities for Patients with Dementia, and Alzheimer's Disease, December 1996, University of New Orleans, New Orleans, LA.

Masters of Gerontological Studies, Concentrations in Program Administration & Research, Emphases on Homelessness, Service Utilization, & Qualitative Research, May 1993, Miami University, Oxford, OH.

Bachelor of Science, Psychology, Double-major: Family and Child Development, Emphasis in Adulthood and Aging, Minor in Sociology, May 1991, Virginia Tech, Blacksburg, VA. Cum Laude.

## EXPERIENCE

4/2023 – Present Investigator, The Evelyn F. McKnight Brain Institute, University of Alabama at Birmingham, Birmingham, AL.

9/2020 – Present Director of Regulatory and Review Processes, School of Nursing, University of Alabama at Birmingham, Birmingham, AL.



Directed and developed programs to support faculty and student in nursing research, especially concerning IRB, pre-grant reviews, and pilot grants.

- 10/2019 – 9/2020 Associate Dean of Research and Scholarship, School of Nursing, University of Alabama at Birmingham, Birmingham, AL.  
Directed and developed programs to support faculty and student in nursing research. Participated in several university committees including: Institutional Review Board, DRIVEN, IRCP Oversight Committee, UAB CORE COVID Research Platform Advisory Committee, Comprehensive Neuroscience Center Executive Committee, etc.
- 8/2018 – 10/2019 Interim Associate Dean of Research and Scholarship, School of Nursing, University of Alabama at Birmingham, Birmingham, AL.  
Directed and developed programs to support faculty and student in nursing research.
- 10/2015 – Present Professor (Tenured), School of Nursing, University of Alabama at Birmingham, Birmingham, AL.  
Conducted research in cognitive remediation, aging with HIV, and other health-related topics; taught statistics and research methods; mentored faculty and doctoral students.
- 6/2018 – Present Senior Scientist, UAB O'Neal Comprehensive Cancer Center, University of Alabama at Birmingham, Birmingham, AL.
- 2/2016 – Present Senior Scientist, UAB Center for Palliative and Supportive Care, University of Alabama at Birmingham, Birmingham, AL.
- 6/2014 – Present Scientist, Global Center for Craniofacial, Oral and Dental Disorders, University of Alabama at Birmingham, Birmingham, AL.
- 8/2012 – Present Senior Scholar, Center for Palliative Care and Supportive Care (CPSC), University of Alabama at Birmingham, Birmingham, AL.
- 6/2012 – Present Senior Scientist, Center for Outcomes and Effectiveness Research and Education, University of Alabama at Birmingham, Birmingham, AL.
- 12/2011 – Present Scientist, Civitan International Research Center, University of Alabama at Birmingham, Birmingham, AL.
- 5/2011 – Present Scientist, Resource Center for Minority Aging Research (RCMAR), University of Alabama at Birmingham, Birmingham, AL.  
Participated in minority health and health disparities research,

reviewed grants.

- 5/2011 – Present Associate Scientist, Minority Health and Health Disparities Research Center, University of Alabama at Birmingham, Birmingham, AL.  
Participated in minority health and health disparities research, reviewed grants.
- 6/2011 – 2018 Associate Director/Director of Research and Scholarly Development, Center for Nursing Research/Office of Research and Scholarship, University of Alabama at Birmingham, Birmingham, AL.  
Managed internal IRB submission process, directed grant submission and grant award process, provided statistical consultation, conducted lectures and workshop on writing, provided mentoring and served as a writing coach.
- 10/2009 – 10/2015 Associate Professor (Tenured), School of Nursing, University of Alabama at Birmingham, Birmingham, AL.  
Conducted research in cognitive remediation, aging with HIV, and other health-related topics; taught statistics and research methods; mentored faculty and doctoral students.
- 10/2012 – 12/2014 PhD Coordinator, School of Nursing, University of Alabama at Birmingham, Birmingham, AL.  
Oversaw day-to-day operations of the PhD Nursing Research Program.
- 2/2010 – 12/2010 Affiliate Member/Graduate Faculty, College of Nursing, The University of Alabama, Tuscaloosa, AL.  
Conducted on-line teaching of research methods and statistics.
- 2/2010 – 12/2010 Affiliate Member/Graduate Faculty, College of Nursing, The University of Alabama at Huntsville, Huntsville, AL.  
Conducted on-line teaching of research methods and statistics.
- 10/2006 – 10/2009 Assistant Professor (Tenured), Center for Nursing Research, School of Nursing, University of Alabama at Birmingham, Birmingham, AL.  
First non-nurse in the School of Nursing -- Conducted research in cognitive remediation, aging with HIV, and other health-related topics; taught statistics and research methods; mentored faculty and doctoral students.
- 6/2009 – Present Member, Center for Clinical and Translational Science (CCTS), University of Alabama at Birmingham, Birmingham, AL.

Funded through a pilot mechanism to research speed of processing training in order to improve cognitive functioning in adults with HIV. Participated in center events and committees.

- 5/2008 – Present Faculty Investigator, 1917(HIV/AIDS) Clinic Cohort, University of Alabama at Birmingham, Birmingham, AL.  
Involved with collaborative papers and chair of the HIV and Aging Research Interest group.
- 1/2016 – Present Scientist, Alzheimer's Disease Research Center, University of Alabama at Birmingham, Birmingham, AL.  
Involved in promoting multidisciplinary approaches in improving Alzheimer's disease research and education across the university.
- 4/2008 – 1/2016 Associate Scientist, Alzheimer's Disease Research Center, University of Alabama at Birmingham, Birmingham, AL.  
Involved in promoting multidisciplinary approaches in improving Alzheimer's disease research and education across the university.
- 10/2006 – Present Secondary Appointment/Assistant Professor, Department of Psychology/Lifespan Developmental Psychology, University of Alabama at Birmingham.  
Involved in mentoring graduate students, staff meeting, and contributing to policies and procedures.
- 4/2005 – Present Scientist, Center for Aging, University of Alabama at Birmingham, Birmingham, AL.  
Recognized for contributing to the scientific community in gerontology; appointed by the Center for Aging Steering Committee.
- 10/2005 – Present Scientist, Center for AIDS Research, University of Alabama at Birmingham, Birmingham, AL.  
Recognized for contributing to the scientific community in HIV research.
- 8/2004 – 9/2006 Research Assistant Professor, Center for Translational Research in Gerontology, Center for Aging, Center for AIDS Research, and Department of Psychology, University of Alabama at Birmingham, Birmingham, AL.  
Analyzed data and generated papers and presentations from existing data, managed off-site data collection of the State Farm Project, wrote grants related to aging and HIV research, advised students concerning thesis/dissertations and writing projects.
- 6/2001 – 8/2004 NIA Postdoctoral Fellowship/Project Manager, Roybal Center for

Research in Applied Gerontology, University of Alabama at Birmingham, Birmingham, AL.

Managed the day-to-day operations of a R01 NIH grant designed to improve processing speed in normal older adults, wrote manuscripts for publication, analyzed data, presented materials at professional meetings and conferences, monitored the use and function of a driving simulator, supervised staff of testers and trainers, and implemented a center-wide recruitment database.

6/2000 – 6/2001

Project Manager/Associate Research Psychologist, Applied Gerontology Program, University of Alabama, Tuscaloosa, AL. Managed the day-to-day operations of two NIH grants, recruited participants with dementia from both community and nursing home populations, recruited nursing homes for intervention project, developed coding techniques for audio taped samples of nursing home residents' vocalizations, calculated direct computer observation reliabilities, calculated treatment fidelity scores and reliability scores, created and maintained data collection and data management systems, taught intervention techniques to nursing home staff, handled the IRB paperwork involved with providing consent to the nursing homes and the participants' families, supervised research assistants and graduate students, devised behavioral programs for nursing home residents and community-dwelling elders experiencing agitation, represented both projects professionally at local and national events, and negotiated and maintained the budgets of both projects.

7/2000 – 8/2000

Adjunct Professor, Samford University, Birmingham, AL.

8/2002 – 12/2002

Taught General Psychology (PSYC 101) and Social Psychology (PSYC 304) to undergraduates, gave daily two-hour lectures, made and graded exams, and advised students of career options in Psychology.

3/1997 – 6/2000

Project Coordinator, Center for Aging, University of Alabama at Birmingham, Birmingham, AL.

Managed the day-to-day operations of a R01 NIH grant (aka, REACH – Resources for Enhancing Alzheimer's Caregiver's Health) examining the effectiveness of problem-solving skills in reducing Alzheimer's caregiver stress, coordinated data collection, achieved 100% recruitment goal of African American and Caucasian dementia caregivers, analyzed data, wrote and compiled reports, managed intervention and data collection of staff, gave presentations in the community, arranged workshops, created several data tracking systems, conducted treatment fidelity measures on several aspects of the intervention, wrote behavioral prescriptions for use with dementia-patients, used cognitive

reappraisal in therapeutic contacts with caregivers, presented work at conferences, and published papers.

- 8/1996 – 3/1997     Instructor, Department of Psychology, University of New Orleans, New Orleans, LA.  
Taught General Psychology (PSYC 1000) and Adult Development & Aging (PSYC 2130).
- 9/1993 – 7/1994     Behavior Therapist, Cumberland River Comprehensive Care Center, Corbin, KY.  
Designed behavioral programs for mentally retarded adults, taught behavioral management skills to parents and caregivers, trained staff on safety restraints and holds, informed and monitored staff use of physical restraint protocols, acted as liaison between clients and community services, wrote psychological reports for the State of Kentucky, constructed behavior tracking systems, advised staff of current client issues in weekly meetings, and reported and physically managed severe behavioral difficulties.
- 1/1994 – 5/1994     Instructor, Sue Bennett College, London, KY.  
Taught concepts and theories of Sociology (SOC 101), evaluated student performance, provided feedback to students, created and implemented novel class exercises, and demonstrated research methods.
- 6/1993 – 8/1993     Lead Counselor, Western Psychiatric Institute & Clinic, University of Pittsburgh, Pittsburgh, PA.  
Supervised and managed clinical group of four counselors and twelve ADHD children in an outpatient treatment program, reviewed confidential case files, formulated treatment goals, instructed parents on behavior management, wrote daily progress notes, coordinated daily schedules, and participated in assessments of psychotropic medications.

### **Paraprofessional Experience**

- 8/1994 – 3/1997     Graduate Teaching Assistant, Department of Psychology, University of New Orleans, New Orleans, LA.  
Presented lectures, constructed exams, tutored students, graded papers, conducted experimental research, arranged testing schedules, and used statistical procedures.
- 8/1991 – 5/1993     Graduate Research Assistant, Scripps Gerontology Center Foundation, Miami University, Oxford, OH.  
Utilized computerized statistical packages (SPSSx, SAS) to enter data, coded data, organized undergraduate research seminars,

edited journal articles, and gathered data through mail and telephone survey techniques.

- 5/1992 – 6/1992     Research Assistant, Benjamin Rose Institute, Cleveland, OH.  
Coded data for Project RESPECT, constructed survey instruments, conducted literature searches, and observed and maintained research protocol.
- 6/1991 – 8/1991 & 6/1992 – 8/1992     Paraprofessional Counselor, Wediko Children's Services, Hillsboro, NH.  
Monitored treatment goals of eight emotionally disturbed children in a residential treatment setting, lead group problem-solving discussions, provided recreational activities, tutored students, and designed and implemented behavioral programs.
- 11/1986 – 5/1991     Social Companion Volunteer, Cedar Lawn Convalescent Home, Abingdon, VA.  
Provided companionship to frail elders, assisted in individual and group activities, lead group activities, monitored residents with advanced Alzheimer's disease, and alerted staff to psychological and physical changes in clients.

## SPECIFIC AREAS OF INTEREST

- NeuroAIDS, Aging with HIV
- Statistics, especially Structural Equation Modeling
- Successful Aging
- Cognitive Training and Cognitive Aging
- Driving, Falling, and Mobility
- Alzheimer's Disease and Dementia Care
- Spirituality and Religiosity

## TEACHING AND MENTORING

### TEACHING

- **Introduction to Sociology (SOC 101)** – Sue Bennett College, Spring 1993.
- **Adult Development & Aging (PSYC 2130)** – University of New Orleans, Spring 1997.
- **Introduction to Psychology (PSYC 1000)** – University of New Orleans, Fall 1996.
- **General Psychology (PSYC 101)** – Samford University, Fall 1999.
- **Social Psychology (PSYC 304)** – Samford University, Summer 2000.
- **Design and Statistical Methods (NUR 732)** – University of Alabama at Birmingham, Fall 2008, Spring 2009, Fall 2009, Spring 2010, Summer 2010,

- Fall 2010, Summer 2010, Fall 2010, Summer 2011, Fall 2011, Summer 2012, Fall 2012, Summer 2013, Fall 2013
- **Writing for Publication (NRM 701)** – University of Alabama at Birmingham, Fall 2014.
  - **Designs for Nursing Studies I (NRM 770)** – University of Alabama at Birmingham, Fall 2008
  - **Designs for Nursing Studies II (NRM 772)** – University of Alabama at Birmingham, Fall 2006 & 2007, Spring 2011.
  - **Methods/Measurement in Nursing Research (NRM 771Q)** – University of Alabama at Birmingham, Spring 2007 & 2008, Summer 2009, Summer 2011, Summer 2012.
  - **Scientific Dissemination (NRM 760Q)** – University of Alabama at Birmingham, Summer 2015 & 2016.
  - **Independent Study (NUR 698)** – University of Alabama at Birmingham, Summer, 2007. Helped student with publishing a secondary data analysis on HIV and empowerment in African American women.
  - **Independent Study (NUR 698)** – University of Alabama at Birmingham, Summer, 2009. Helped student develop his dissertation protocol for studying service men.
  - **Independent Study (NUR 490)** – University of Alabama at Birmingham, Summer 2011. Helped student (Jason Watkins) with writing a paper on cognition; he also observed my lab as part of his requirement.
  - **Independent Study (NUR 698)** – University of Alabama at Birmingham, Fall, 2009. Helped student develop his dissertation protocol for studying service men and write a grant.
  - **Independent Study (NUR 790)** – University of Alabama at Birmingham, Fall 2010, Spring 2010, Spring 2011, Summer 2011, Fall 2011, Spring 2012. Helped student develop his dissertation topic and prepare for his comprehensive exam.
  - **Independent Study (PSYC 398)** – University of Alabama at Birmingham, Fall 2007 & Spring 2008. Helped student with publishing a study on religiosity and biopsychosocial support in adults with HIV.
  - **Independent Study in Gerontological Substantive Area Seminar (GER 791)** with Jaspreet Kaur, Spring 2012.
  - **Independent Study (NUR 790)** – Taught doctoral student (Michele Talley) how to use structural equation modeling, Fall 2012.
  - **Independent Study (NUR 790)** – Taught doctoral student (Lucinda Graven) how to use structural equation modeling, Fall 2012.
  - **Independent Study (NUR 790)** – Helped doctoral student (Michele Talley) conceptualize her dissertation topic, explore CARDIA data, and write articles for publication, Fall 2013, Spring 2014, Summer 2014.
  - **Dissertation Hours (NUR 799)** – Helped doctoral student (Michele Talley) to analyze dissertation data using hierarchical linear regression and structural equation modeling. This also entailed a great deal of data management, Fall 2014, Spring 2015, Summer 2015, Spring 2023 (Byun), Summer 2023

(Byun).

- **Research Practicum (NUR 798)** – Helped doctoral student (Shameka Cody) with gaining research experience by providing opportunities to work on my transcranial direct current stimulation study, Fall 2014, Spring 2015.
- **Guest lecturer in several classes** including Developmental Psychology, Human Sexuality, Psychology of Aging, and Culture and Psychopathology (See Presentations below for details)
- **Writing Workshop Series, Center for Nursing Research** – Lead the development of a writing workshop series for the UAB Center for Nursing Research in Spring and Summer of 2012, Spring 2013, and Spring 2014 where we met 4-6 half days. Participants were provided lectures and protected time to work on scholarly publications.
- **Writing Career Development Grant (NUR 759-QL)** – The focus of this class is to instruct doctoral students on how to write and assemble different parts of a grant. Spring 2022, Spring 2022, Spring 2023
- **Scientific Dissemination (NUR 760-Q)** – The focus of this class is to instruction doctoral student how to write for publication. Summer 2015, Summer 2016, Summer 2017, Summer 2018, Summer 2019, Summer 2020, Summer 2021, Summer 2022, Summer 2023 (Instructor – **IDEA Evaluation = 4.6/5**)
- **Clinical Data Management and Analysis (NUR 700)** – The focus of this class is learning how to build database and statistically analyze data for clinicians. Fall 2022 (Course Coordinator), Summer 2023 (Course Coordinator – **IDEA Evaluations – NUR700QL = 4.7/5; NUR700QM = 4.5/5; NUR700QN = 4.7/5; NUR700QO = 4.5/5; NUR700QP = 4.5/5; NUR700QP2 = 4.9/5; NUR700QP3 = 4.6/5**)

### Teaching Training:

- Master Teacher Program (2006): Attended workshop on improving teaching skills.
- Attended Blackboard Vista Training (6-3-2008): Used for distance education in nursing.

### Teaching Awards:

- **2010 Dean's Award for Excellence in Mentorship** – At the University of Alabama at Birmingham, 12 mentors, one selected from each of the 12 schools, are nominated by their doctoral students and early career colleagues each year and recognized in a special, university-wide assembly acknowledging their assistance and accomplishments (e.g., papers, grants, presentations) with their mentees.
- **2010 President's Award for Teaching Excellence** – At the University of Alabama at Birmingham, 12 teachers, one selected from each of the 12 schools, are nominated by their peers for this award that includes \$2,500 and a Steuben crystal apple trophy.



**THESIS/DISSERTATION COMMITTEES (Provided/to be provided: \*statistical assistance; #conceptual/methodological/theoretical assistance; all students received editorial assistance and are expected to publish results; Currently Chairs 3 PhD students; Successfully Chaired/Co-Chaired 6 PhD & 2 DNP students)**

**Current Thesis/Dissertation Committees (5 active)**

**\*#Shakaye R. Haase** (current student) – Co-Chair & Dissertation Committee 2022 – present – Resilience and HIV. Department of Psychology, University of Alabama at Birmingham, Birmingham, AL.

**\*#Alexandra Jacob** (current student) – Chair, Dissertation Committee 2021 – present – TBA: Cognition and HIV. Medical Psychology Program, Psychology Department, University of Alabama at Birmingham, Birmingham, AL.

**#Lexi Long** (current student) – Dissertation Committee 2023 – present – TABA: Transgender health.

**#Ikenna Obasi Oddi** (current student)—Co-Chair & Dissertation Committee 2023 – present – PREP uptake in minority students of African descent.

**\*#Hathaichanok Phaowiriya** (current student) – Chair & Dissertation Committee – 2023 – present – Personality factors predicting depression in adults with HIV.

**Completed Theses/Dissertations (54 completed; 11 Theses/Dissertations Chaired/Co-Chaired)**

**\*#Michelle Ackerman** (completed dissertation – June, 2008) – Dissertation Committee 2007 – The impact of feedback on self-rated driving ability among older drivers. Department of Psychology, University of Alabama at Birmingham, Birmingham, AL.

**\*#Michelle Ackerman** (completed thesis – May, 2007) – Masters Committee 2006 – 2007 – Predictors of driving exposure in older adults over time. Department of Psychology, University of Alabama at Birmingham, Birmingham, AL.

**#Shiquina Andrews** (completed dissertation – March 2013) – Dissertation Committee 2009 – 2013 – Psychological effects of spiritually integrated therapy for infertile women. Department of Psychology, University of Alabama at Birmingham, Birmingham, AL.

**#Jennifer R. Bail** (completed dissertation June, 2017) – Dissertation Committee 2015 – 2017– Cancer-related symptoms and cognitive intervention adherence among breast cancer survivors: A mixed methods study. School of Nursing, University of Alabama at Birmingham, Birmingham, AL.

**\*#Cady Block** (completed dissertation – June, 2013) – Dissertation Committee 2009 – 2013 – Examining neuropsychological sequelae of chronic pain and the effect of immediate-release opioid analgesics. Department of Psychology, University of Alabama at Birmingham, Birmingham, AL.

**\*#Pamela Bowen** (completed dissertation – June, 2012) – Chair & Dissertation Committee 2009 – 2012 – A phenomenological study of obesity and its impact on functional status, life-space mobility, and physical activity in southern African American older women. School of Nursing, University of Alabama at Birmingham, Birmingham,

AL.

**\*#Mary Brethour** (completed thesis – June, 2011) – Dissertation Committee 2006 – 2011 – The predictability of C-reactive protein, lipoprotein-associated phospholipase A2, and depression on later health outcomes in patients experiencing a first-time stroke. School of Nursing, University of Alabama at Birmingham, Birmingham, AL.

**\*#Jun Y. Byun** (completed dissertation – June 2023) – Chair & Dissertation Committee 2020 – 2023 – Aging with HIV and Comorbid Chronic Obstructive Pulmonary Disease. School of Nursing, University of Alabama at Birmingham, Birmingham, AL.

**\*#Michael Joshua Carter** (completed dissertation – May, 2015) – Dissertation Committee 2010 – 2015 – Exploring the relationship between study abroad and emotional intelligence. Department of Education, University of Alabama at Birmingham, Birmingham, AL.

**\*#Stephanie Chopko** (completed dissertation – January 2011) – Dissertation Committee 2010 – 2011 – Exploration of attitudes toward individuals with intellectual disabilities. Medical/Clinical Psychology Program, University of Alabama at Birmingham, Birmingham, AL.

**#Olivio Clay** (completed dissertation – July, 2007) – Dissertation Committee 2006 – 2007 – Racial differences in health care utilization between older African American and Caucasian Medicare beneficiaries. Department of Psychology, University of Alabama at Birmingham, Birmingham, AL.

**\*#Shameka L. Cody** (completed dissertation – October, 2017) – Chair & Dissertation Committee 2013 – 2017 – Improving cognitive predictors and outcomes in adults with HIV. School of Nursing, University of Alabama at Birmingham, Birmingham, AL.

**\*#Jacqueline Cuevas** (completed thesis – May, 2009) – Honor's Thesis 2008 – 2009 – Spirituality in adults aging with HIV. Department of Psychology, University of Alabama at Birmingham, AL.

**\*#Jawanner Davis** (completed DNP Project – December, 2013) – Co-chair 2012 – 2013 – Predictors of proactive coping behavior in adults with HIV: Psychosocial implications for nurses. School of Nursing, University of Alabama at Birmingham, Birmingham, AL.

**\*#Joan E. Dodson** (completed dissertation – March, 2012) – Dissertation Committee 2010 – 2012 – The impact of cognitive training on physical function and mobility trajectories in old age. Lifespan Developmental Psychology Program, University of Alabama at Birmingham, Birmingham, AL.

**\*#Pariya Fazeli** (completed dissertation – March, 2012) – Co-Chair of Dissertation Committee 2010 – 2012 – Cognitive functioning in adults aging with HIV: Exploring cognitive subtypes and influential factors. Lifespan Developmental Program, Department of Psychology, University of Alabama at Birmingham, Birmingham, AL.

**\*#Pariya Fazeli** (completed thesis – October 2010) – Master's Committee 2010 – Computerized cognitive testing among older adults: Exploring the effect of prior computer experience, anxiety, and attitudes on performance. Lifespan Developmental Psychology Program, Department of Psychology, University of Alabama at Birmingham, Birmingham, AL.

**\*#Lisa George** (completed project – December, 2007) – Honor's Thesis 2006 – 2007 – What effects does long term stigmatization have on aging lesbians? Department of Psychology, University of Alabama at Birmingham, Birmingham, AL.

**\*#Linda Gibson** (completed dissertation – February, 2011) – Dissertation Committee 2006 – 2011 – A study of the relationships among maternal caregiver family management behaviors, childhood asthma morbidity, and asthma control. School of Nursing, University of Alabama at Birmingham, Birmingham, AL.

**#Trina Gilbert** (completed dissertation – March, 2006) – Dissertation Committee 2006 – Informal and formal social support of adolescent mothers: How do supports affect moms and their children? Department of Psychology, University of Alabama at Birmingham, Birmingham, AL.

**\*#Lucinda Graven** (completed dissertation – February, 2014) – Dissertation Committee 2012 – 2014 – The impact of social support on depressive symptoms in individuals with heart failure: Update and review. School of Nursing, University of Alabama at Birmingham, Birmingham, AL.

**\*#Shannon Hartley** (completed dissertation – March, 2006) – Hope, self-efficacy, and functional recovery post-knee and hip replacement. Department of Psychology, University of Alabama at Birmingham, Birmingham, AL.

**\*#Bridget Hill** (completed thesis – June, 2010) – Master's Committee 2008 – 2010 – Racial disparities in healthcare utilization between cognitively impaired African Americans and caucasians. Department of Psychology, University of Alabama at Birmingham, Birmingham, AL.

**\*#Jay Irwin** (completed dissertation – March, 2009) – Dissertation Committee 2007 – 2009 – The ties that bind: The impact of social support, family ties, and social capital on well-being among lesbians. Department of Sociology, University of Alabama at Birmingham, Birmingham, AL.

**\*#Alexandra Jacob** (current student) – Chair, Master's Thesis Committee 2020 – 2021 – Predictors of subjective and objective everyday functioning in middle-aged and older adults with HIV. Medical Psychology Program, Psychology Department, University of Alabama at Birmingham, Birmingham, AL.

**\*#Jaspreet Kaur** (completed thesis – July, 2013) – Masters Committee 2012 – 2013 – Predictors of falls among older adults. Department of Psychology, University of Alabama at Birmingham, Birmingham, AL.

**#Leslie Keener** (completed dissertation – February, 2006) – Dissertation Committee 2006 – Adult and adolescent parenting: Differences in maternal knowledge of infant development and parenting style. Department of Psychology, University of Alabama at Birmingham, Birmingham, AL.

**\*#Bridget Kennedy (formerly Hill)** (completed dissertation – October, 2011) – Dissertation Committee 2011 – Explaining racial differences in MCI classification in the ACTIVE sample. Department of Psychology, University of Alabama at Birmingham, Birmingham, AL.

**\*# Donald Labbe** (completed thesis – November, 2009) – Thesis Committee 2008 – 2009 – Predictors of Driving Avoidance and Exposure Following Traumatic Brain Injury. Department of Psychology, University of Alabama at Birmingham, Birmingham, AL.

**\*#Donald Labbe** (completed dissertation – June, 2012) – Dissertation

Committee 2010 – Factors associated with posttraumatic stress disorder and mild traumatic brain injury in veterans of Operation Iraqi Freedom and Enduring Freedom: The role of neuropsychological assessment. Department of Psychology, University of Alabama at Birmingham, Birmingham, AL.

**\*#Ann Long** (completed dissertation – March, 2009) – Dissertation Committee 2006 – 2009 – The relationship of sexual empowerment and sexual pressure to condom use of young adult African American and Caucasian women. School of Nursing, University of Alabama at Birmingham, Birmingham, AL.

**#Penny Loosier** (completed dissertation – February, 2011) – Dissertation Committee 2009 – 2011 – Sexual orientation and risk: Patterns of association across outcomes. Department of Psychology, University of Alabama at Birmingham, Birmingham, AL.

**\*Tanja Malone** (completed dissertation – August, 2006) – Dissertation Committee 2006 – Teen parent training interventions: A model to analyze effectiveness and to predict Success. Department of Psychology, University of Alabama at Birmingham, Birmingham, AL.

**\*#Benjamin J. McManus** (current student) – Master's Thesis Committee 2013 – present – Effect of vigilance on driving performance in commercial motor vehicle drivers. Department of Psychology, University of Alabama at Birmingham, Birmingham, AL.

**\*#Kia Miles** (completed DNP Project – December, 2013) – Co-chair 2012 – 2013 – Predictors of proactive coping behavior in adults with HIV: Psychosocial implications for nurses. School of Nursing, University of Alabama at Birmingham, Birmingham, AL.

**\*#Shannon Morrison** (completed dissertation – March, 2010) – Dissertation Committee 2006 – 2010 – The role of parental autonomy support in the motivation of the health behaviors of diet and exercise in adolescents aged 18-20. School of Nursing, University of Alabama at Birmingham, Birmingham, AL.

**\*#Rachel L. Mumbower** (current student) – Dissertation Committee 2015 – 2017 – Sleep experiences following traumatic brain injury: A qualitative descriptive study. School of Nursing, University of Alabama at Birmingham, Birmingham, AL.

**\*#Kathy Newman** (completed dissertation – October, 2010) – Dissertation Committee 2007 – 2010 – Parenting behaviors and early adolescent obesity. School of Nursing, University of Alabama at Birmingham, Birmingham, AL.

**\*#Chance W. Nicholson** (completed dissertation – June, 2019, Chair & Dissertation Committee 2014 – 2019 – Vagal mediated heart rate variability and cognitive impairments in HIV-seropositive women. School of Nursing, University of Alabama at Birmingham, Birmingham, AL.

**\*#Yeow Chye Ng** (completed dissertation – April, 2013) – Dissertation Committee 2012 – 2013 – The effects of markers for HIV disease progression, social networks, depression, and substance abuse on medical appointment adherence of HIV-infected adults. School of Nursing, University of Alabama at Birmingham, Birmingham, AL.

**\*#Louise O'Keefe** (completed dissertation – June, 2013) – Dissertation Committee 2011 – 2013 – Obesity, prediabetes, and perceived stress in municipal workers. School of Nursing, University of Alabama at Birmingham, Birmingham, AL.

**\*#Ozioma Okonkwo** (completed dissertation – April, 2008) – Dissertation

Committee 2006 – 2010 – Awareness of functional deficits in mild cognitive impairment: Relation to cognitive variables and mood. Department of Psychology, University of Alabama at Birmingham, Birmingham, AL.

\***Kameron Partridge** (completed dissertation – March, 2006) – Adult siblings: Does disability influence family cohesion, coping, and overall self-mastery? Department of Psychology, University of Alabama at Birmingham, Birmingham, AL.

\***Caitlin Nortchcutt Pope** (completed dissertation – August, 2017). Dissertation Committee 2014 – 2017 – Cognitive correlates of driving behavior in older adults with HIV. Department of Psychology, University of Alabama at Birmingham, Birmingham, AL.

\***Richard Rector** (completed dissertation – October, 2006) – Dissertation Committee 2006 – Maternal characteristics associated with language outcomes of extremely low birth weight children. Department of Psychology, University of Alabama at Birmingham, Birmingham, AL.

\***Bettina Riley** (completed dissertation – July, 2011) – Dissertation Committee 2008 – 2011 – Parental influences on late adolescents' autonomous motivation and sexual risk knowledge and behavior. School of Nursing, University of Alabama at Birmingham, Birmingham, AL.

\***Leslie Ross** (completed dissertation – June, 2006) – Dissertation Committee 2006 – Does speed of processing training impact driving mobility in older adults? Department of Psychology, University of Alabama at Birmingham, Birmingham, AL.

\***Lesley Ross** (completed thesis – September, 2006) – Master's Thesis Committee 2006 – The impact of cognition on driving in older adults: Results from the Maryland Department of motor Vehicles Project. Department of Psychology, University of Alabama at Birmingham, Birmingham, AL.

\***Andrea C. Sartori** (completed dissertation – June, 2013) – Dissertation Committee 2011-present – The relationship between inflammatory biomarkers and cognitive function in older adults. Department of Psychology, University of Alabama at Birmingham, Birmingham, AL.

\***Larry Slater** (completed dissertation – June, 2011) – Co-Chair and Dissertation Committee 2008 – 2011 – Social support, social stigma, health, coping, and quality of life in older gay men with HIV. School of Nursing, University of Alabama at Birmingham, Birmingham, AL.

\***Michelle Talley** (completed dissertation – June, 2015) – Chair & Dissertation Committee 2011 – 2015 – Effects of hyperglycemia on cognitive functioning in the CARDIA Study Cohort. School of Nursing, University of Alabama at Birmingham, Birmingham, AL.

\***Josie M. Tyrer** (completed master's thesis – September, 2013) – Pain in spinal cord injury due to gunshot wound: A longitudinal examination of related psychosocial factors. Department of Psychology, University of Alabama at Birmingham, Birmingham, AL.

\***Sarah Viamonte** (completed dissertation – May, 2008) – Dissertation Committee 2007 – 2008 – Cardiovascular function, cognition, and everyday activities in older adults. Department of Psychology, University of Alabama at Birmingham, Birmingham, AL.

\***Sarah Viamonte** (completed thesis – November, 2006) – Master's Thesis

Committee 2006 – The effects of hypertension, heart disease, and both on cognitive functioning in older adults. Department of Psychology, University of Alabama at Birmingham, Birmingham, AL.

\***#Laura William** (completed dissertation – May, 2009) – Dissertation Committee 2007 – 2009 – Topic: Geriatrics and sleep. School of Nursing, University of Alabama at Birmingham, Birmingham, AL.

\***#Natalie L. Wilson** (completed dissertation – March 2016) – Dissertation Committee 2013 – present – Examining HIV-associated symptom burden and microbial translocation in the Veterans Aging Cohort Study: A secondary data analysis. School of Nursing, University of Alabama at Birmingham, Birmingham, AL.

\***#Jenni Wise** (completed dissertation – November, 2019) – Dissertation Committee 2017 – 2019 – Occupational health outcomes in women living with and at risk for HIV. School of nursing, University of Alabama at Birmingham, Birmingham, AL.

## MENTORING

- UAB Alumni Association Mentoring Program 2008: Mentored Yih-Ying (Eva) Yuan, an undergraduate in Biology and assisted her in her professional development to enter medical school.
- UAB School of Nursing Honors Student Spring/Summer 2009: Mentored Brenna Harnish on her honor project examining cognitive remediation in adults with HIV.
- 2010 Dean's Award for Excellence in Mentorship: (See above under Teaching).
- 2010 President's Award for Teaching Excellence: (See above under Teaching).
- Writing Coach: Met with Dr. Laura Steadman one-on-one each week and served as a writing to coach to transform her dissertation into a published peer-reviewed manuscript (2011).
- Cyber Mentor: In a grant sponsored by the National Institute of Mental Health, the Office of Ethnic Minority Affairs at the American Psychological Association asked me to mentor Monique Janiel Brown, PhD, MPH, Assistant Professor at the University of South Florida, and to assist her in developing a grant for submission.

## SERVICE

### CONSULTING

2021, October      National Institutes of Health – I served as a grant reviewer for a PAR Panel: Alzheimer's Disease Clinical Trials.

2020, March      National Institutes of Health – I was asked to review a series of R21s for PAR-20-030: HIV-associated Non-Communicable Disease Research at Low- and Middle-Income Country Institutions.

- 2020, February      Mitacs Elevate Proposal Application, University of Calgary, Canada  
– I was a grant reviewer on an HIV study – “Eng/aging and HIV: Knowledge Exchange Between Administrative Data Project and Aging Individuals with HIV/AIDS in British Columbia.”
- 2019, November      Center for Aging Research, Emory University, Atlanta, GA – I was a grant reviewer on an opioid/HIV study – “HIV and opioid use: Provider perspectives on medication-assisted treatment and integrated care.”
- 2019, August      McGill University, Graduate and Postdoctoral Studies (Canada) – I was asked to evaluate a dissertation titled, “The Role of Cognitive Reserve in Protecting Cognitive Ability in People with HIV.”
- 2019, July      National Institute on Aging – I was asked to review a series of R01s on cognitive aging and Alzheimer’s care (SRO of the 201910 ZRG1 BBBP B55 study section)
- 2018, October      University of Miami School of Nursing – I was asked to review a grant of a faculty member on a HIV prevention study targeting older Hispanic women.
- 2016, March      University of Mississippi Health Center – In February/March of this year, I was asked to review a grant on the effects of exercise in women with HIV.
- 2015, March  
2016, January  
2016, December  
2021, January      Resource Center for Minority Aging Research (RCMAR), UAB, Tuskegee University, & Morehouse University – I served a grant reviewer for their pilot program on health disparities research.
- 2014, November      Nazarbayev University, Kazakhstan – I was invited and paid to review a grant on age-related dementia.
- 2014, November      POSIT Science, Inc. – I was invited to San Francisco to give a speech and work with this company as they were designing cognitive remediation software to help improve neurocognition in adults with HIV.
- 2014, July      Bradford Health Services (Substance Abuse Treatment Center), Birmingham, AL – I provided a literature review and report titled, “Unintentional Opioid Overdose Literature Review: Is There a Clinical Screener for This?”
- 2014, June      External Grant Reviewer, HIV Neurobehavioral Research Program, University of California, San Diego – I served as one of the

|                              |                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| was<br>main                  | reviewers for the pilot grant program. The focus of the grant aging with HIV; therefore, they contacted me since this is my area of research.                                                                                                                                                                                                                                       |
| 2013, September              | <u>External Reviewer for the PhD Program, School of Nursing, University of Texas at Arlington, Arlington, TX</u> – I served as one of two external reviewers of School of Nursing’s PhD program at the University of Texas at Arlington. In this capacity, I spent two days interviewing staff, students, faculty, and various deans to evaluate the effectiveness of this program. |
| 2013, July                   | <u>Grant Reviewer for HIVERA (Harmonizing Integrating Vitalizing European Research on AIDS/HIV)</u> – I was chosen to attend a conference in Berlin, Germany (all expenses paid) to review grants on HIV.                                                                                                                                                                           |
| 2013, February               | <u>Grant Reviewer for the Health Research Board (HRB), Dublin, Ireland</u> – I reviewed a grant for HRB on an psychosocial intervention to improve mental health and reduce stigma in adults with HIV.                                                                                                                                                                              |
| 2013, January                | <u>Grant Reviewer for the Medical Research Council, Wiltshire, United Kingdom</u> – I was selected to review a grant based on my experience with physical activity in older adults.                                                                                                                                                                                                 |
| 2012, June                   | <u>Grant Reviewer for NIH/NINR Centers of Excellence in Symptoms Science: Building Research Teams for the Future (P20s and P30s)</u> – I was selected to review center grants for the National Institute of Nursing Research which met in Rockville, Maryland June 28-29, 2012.                                                                                                     |
| 2012, May                    | <u>Oak Ridge Institute for Science and Education (ORISE), Grant Reviewer</u> – I provided a grant review for an international university in Kazakhstan.                                                                                                                                                                                                                             |
| 2012, April                  | <u>Bradford Health Services (Substance Abuse Treatment Center), Birmingham, AL</u> – I provided information to them on how to calculate the number of hospital beds needed.                                                                                                                                                                                                         |
| 2011, December               | <u>Grant Reviewer for HIVERA (Harmonizing Integrating Vitalizing European Research on AIDS/HIV)</u> – I was chosen to attend a conference in Frankfurt (all expenses paid) to review grants on aging with HIV.                                                                                                                                                                      |
| 2011, November<br>2015, July | <u>Grant Reviewer, Center for Clinical and Translational Science, University of Alabama at Birmingham, Birmingham, AL.</u>                                                                                                                                                                                                                                                          |



- 2011, October      Grant Reviewer, NIH/NIA Alzheimer's Disease Pilot Grants. Reviewed research grants for NIH/NIA.
- 2011, September      Statistical Consultant, Dr. Adriane Rose Lolan, Department of Education, University of New Orleans, New Orleans, LA. Provide statistical support to Dr. Culver's project on play therapy.
- 2011, May, June, November; 2012, March; 2013, March, November; 2015, March; November, 2015; March, 2016      Grant Reviewer, TriService Nursing Research Program, Department of Defense, Washington, DC. Reviewed research grants for the military.
- 2011      Statistical Consultant, Dr. Leslie Culver, Department of Education, University of New Orleans, New Orleans, LA. Provide statistical support to Dr. Culver's project on counseling with trauma patients.
- 2010-2011      Co-Investigator/Data Analyst, AIDS Alabama, Birmingham, AL. Designed state-wide survey, analyzed data, wrote sections of final report.
- 2007-2008      Co-Investigator/Data Analyst, AIDS Alabama, Birmingham, AL. Designed state-wide survey, analyzed data, wrote sections of final report.
- 5/2006      Neuropsychological Tester, Department of Defense and Veteran Administrations, New Orleans, LA. Administered neuropsychological battery to soldiers returning from Iraq. Testing took place in two army reserve sites in Tennessee.
- 5/2006 – 6/2006      Statistical Consultant, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. Conducted structural equation modeling for Dr. Carol Dashiff's study on diabetes in adolescents.
- 3/2003 – 2/2004      Neuropsychological Tester, Visual Awareness, Chicago, IL. Tested new computer software to determine in older adults to determine whether it was a valid and reliable instrument of speed of processing (see publication #55 for details concerning this consulting and study).
- 1/2003 - 7/2004      Co-Investigator, LA Data Management, Birmingham, AL. Designed instrumentation for program evaluation for an HIV/AIDS

Assisted Housing Program, statistically analyzed data, conducted focus groups, and generated reports for an AIDS Service Organization.

- 6/2004      Database Consultant, Center for Aging and Mental Health, University of Alabama, Tuscaloosa, AL.  
Explain the National Center for Nursing Research (NCNR) data to staff, shared information on the creation of the real-time behavioral observation system for the collection of behavioral stream data, explain coding techniques that were used in this study.
- 8/2002 – 12/2003      Co-Investigator/Data Analyst, AIDS Alabama, Birmingham, AL.  
Designed state-wide survey, analyzed data, wrote sections of final report.
- 12/2000 – 6/2001      Psychological and Study Advisor, Visual Awareness Inc., Bowling Green, KY.  
Recruited study participants, designed recruitment database, monitored recruitment procedures, administered cognitive batteries to older adults, operated a driving simulator, and scored the Benton Visual Retention Test and the Rey-Osterreith Test.
- 9/1999 – 2/2000      Statistical Advisor, Center for Nursing Research, University of Alabama at Birmingham, Birmingham, AL.  
Offered statistical and methodological advice for a HIV study with Dr. Barbara Smith, provided articles for literature review, and analyzed study-related data.
- 1/1997 – 3/1997      Day Care Advisor, Greenwalt Alzheimer's and Research Center, Kenner, LA.  
Instructed and monitored student volunteers who were conducting research on activities for adults with Alzheimer's, consulted with day care staff on adult behavioral difficulties, and designed environmental modifications to accommodate cognitive loss in demented adults.

## SKILLS

- Computer Skills: Proficient in several computer programs including SPSS, LISREL, ACCESS, Microsoft Powerpoint, word processing software (Volkswriter, Microsoft Word, & Word Perfect), and e-mail software (Pegasus, Eudora, Microsoft Outlook). Some experience in Endnote, Excel, SAS, and Hierarchical Linear Modeling (HLM).
- Neuropsychological Testing Skills: Qualified to administer and score a variety of neuropsychological and psychometric tests, for example: Dementia Rating

Scale, Mini-Mental Status Exam, Stanford-Binet, Kaufman Assessment Battery for Children, Wechsler Adult Intelligent Scale, Wisconsin Card Sorting Task, California Card Sorting Task, Peabody Picture Vocabulary Test, Ordinal Scales of Psychological Development - Modified, Benton Visual Retention Task, Rey-Osterreith, Trails A & B, Letter and Pattern Comparison, WRAT, CLOX, Useful Field of View (UFOV®), a computerized driving simulator, and several adjustment and psychosocial measures such as the Geriatric Depression Scale, Beck Depression Scale, etcetera.

- Project Coordinator/Project Manager Skills: Able to put a research project together from start to finished based upon the grant proposal. This includes data tracking, recruiting, writing and managing IRB applications, monitoring testers/interviewers, data base set up and management, data cleaning, data analysis, and dissemination.
- Grant Writing and Reviewing Skills: Able to identify knowledge gaps in the literature, develop hypotheses and corresponding methodology, propose appropriate statistical methods, and submit grants to NIH.

## ASSOCIATIONS

### Current Standing

- Association of Nurses in AIDS Care (ANAC): Associate member since 2011; published several articles in their Journal of the Association of Nurses in AIDS Care. Member number: **18462** – **Membership will expire on 01/31/2025**
- American Psychological Association (APA): Member since 2002; participated in several poster presentations, symposia, and a radio interview. Member number: **0003-8855** – **Renewed on 10/03/2023 (expires December 2024)**
- Gerontological Society of America (GSA): Member since 1998; participated in several presentations. Member number: **00106311** -- **Renewed on 02/10/2023**
- Association of Psychological Science (APS): Member since 2003; participated in several presentations. Member number: #46220 – **Renewed on 10/03/2023 (expires December 31, 2024)**

### Previous Standing

- Association of Professional Gerontologists: Member 1995-1998.
- American Association on Mental Retardation (AAMR): Member 1999-2005.
- National Association of HIV Over Fifty (NAHOF): Member since 2004; organization no longer exists.
- American Society on Aging (ASA): Member since 1991-2013; participated as a presenter in over 50 poster and podium presentations; consulted in 2008 with their poster presentation formatting; served on the 2009-2010 Advisory Council on Brain Health Forum; 2010 MindAlert Award Review Panel. Member number: **183480** (Good through 2/19/2013).
- International AIDS Society (IAS): Member since 2004; participated in one

- poster presentation. Member number: **16226** (Good through **6/30/2016**)
- Society for the Scientific Study of Religion (SSSR): Member since 2005; renewed to 2012.
- Southern Nursing Research Society (SNRS): Member since 2007; participated in several presentations. Member number: **Vance48759** (Good through 3/31/2013).
- Society for Clinical and Translational Science (SCTS): Member 2009-2011.

## AWARDS AND HONORS

- Sigma Phi Omega Gerontological Honor Society: Secretary.
- Phi Kappa Phi: Member.
- National Crisis Prevention Institute: Instructor.
- Psi Chi: National Psychology Honor Society: Member.
- Golden Key National Honor Society: Member.
- Graduate Research Award, Alzheimer's Disease and Related Disorders Association (Greater New Orleans Chapter): May 1995.
- Rising Star in Gerontology (Southern Nursing Research Society): Nominated 2/2008.
- UAB Center for Aging Conference Behavioral Science Poster Winner: August 2008.
- Busse Award for Excellence in Gerontology: Nominated 9/2008.
- Sigma Theta Tau International, Nu Chapter: "Friend of Nursing" – 2009.
- 2010 Dean's Award for Excellence in Mentorship: (See above under Teaching).
- 2010 President's Award for Excellence in Teaching: (See above under Teaching).
- White House Invitation to Attend a Forum on HIV and Aging – As a part of President Obama's National HIV/AIDS Strategy, a series of discussions were convened at the White House by the Office of National AIDS Policy (ONAP) covering a range of topics (e.g., Women and HIV, Youth and HIV). This special forum on HIV and Aging was held on October 27, 2010 where I was invited and attend this special event.
- Working Group on HIV and Aging, Office of AIDS Research – Invited by Dr. Jack Whitescarver, NIH Associate Director for AIDS Research & Director, Office of AIDS Research (OAR), to serve as a member of the newly established Working Group to HIV and Aging. This is a special initiative of the OAR with the mandate to provide independent expert advice and guidance to AIRA and NIH on the critical scientific opportunities and priorities in the area of research on HIV and aging. **Subgroup Leader** – Societal Infrastructure/Mental Health/Substance Abuse – Group 4.
- UAB Healthcare Leadership Academy (2011 – 2012) – I was selected with 23 others from UAB to participate in monthly workshops (full days with outside projects) to improve my leadership skills in relation to emerging healthcare issues. Our project was the submission of a grant submitted to UAB on the

“Evaluation of Sutter Health’s Advanced Illness Management (AIM) Program: Implication for Adaptation and Implementation at UAB”. I graduated May 16, 2012.

- Grant Reviewer for HIVERA (Harmonizing Integrating Vitalizing European Research on AIDS/HIV) – I was chosen to attend a conference in Frankfurt (all expenses paid) to review grants on aging with HIV.
- 2017 Distinguished Scholar Alumni Award Winner – This award is given annually to a most distinguished alumnus, and reflect the very impressive scholarly work in which the winner has produced since graduating from the Department of Psychology, University of Alabama at Birmingham. The winner delivers an address at a specially held colloquium on his research, and is presented the award following a reception.

## ACTIVITIES

### Scholarly Activities

- Research Camp: A one-day workshop offered by the UAB Center for Nursing Research, June 2008.
- NIH K30 Clinical Research Training Program (CRTP): A certificate program awarded upon completion of a 9-month course held at the University of Alabama at Birmingham, Birmingham, AL 2005.
- Mock Review for Dr. Burrage’s Study “Self-Care and Social Networks: Reducing Stigma in HIV”: Held by the UAB School of Nursing, 2002.
- Structural Equation Modeling Workshop: Offered by Scientific Software International, Attended in October 1999 and September 2004.
- Hierarchical Linear Modeling Workshop: Offered by Scientific Software International, Attended in May 2004.

### Service Activities (Current)

- Grant Reviewer for UAB CCTS, Reviewer for 3 University-Wide Interdisciplinary Center (UWIRC) Applications: July 2023
- PROVOST AWARD COMMITTEE (Member): July 2023 Distinguished Faculty Lecturer Award: Appointed by the Provost.
- Distinguished Faculty Lecturer Award – Faculty Award Committee – 2023 – Present: Appointed by the UAB School of Nursing Dean.
- Birmingham AIDS Outreach – Advisory Board Member – 2011 – Present: Provide feedback and advice on organizational needs.
- UAB FIRST Partnership, Committee Member – March 2022 -- Present: This program provides opportunities for placement of faculty at UAB to engage in health disparities research.
- UAB CARES Program – Committee Member – 2021 – Present: This opportunity is made possible by a grant from the *Doris Duke Charitable Foundation* as well as matching funds from aforementioned partners. CARES at UAB will make 12-month awards ranging from \$10,000 to \$50,000 to scientists with active intramural and/or extramural research funding. Awards can be used to support ‘extra hands’ personnel and resources to augment

- the research productivity of faculty whose scholarship has been impacted by caregiving responsibilities due to the COVID-19 global pandemic.
- UAB DRIVEN (Driving Research: An Interdisciplinary, Vibrant, Engaged Network) Program – Committee Member – 2019 – Present: The mission of Driving Research: An Interdisciplinary, Vibrant, Engaged Network (DRIVEN) is to cultivate a community of interdisciplinary clinical and translational investigators and promote their individual and collective professional development, recognition, and advancement to foster an inclusive, equitable and diverse research workforce.
  - UAB Institutional Research Cores Program (IPAC) Committee Member – September 2022 – Present: The UAB Institutional Research Core Program (IRCP) functions to promote the development and operation of exceptional research core facilities that serve the needs of UAB investigators. The IRCP is designed to provide research infrastructure aligned with the University's Schools and Colleges strategic plan for research, assist cores in developing sound business plans, developing and maintaining robust standard operating and quality assurance procedures, while providing customer-focused service to facilitate the advancement of scholarship, and to assist in maintaining the financial stability of the core. I also review core grant applications.
  - Advancement, Promotion, and Tenure (APT) Committee Member (2021 - 2024) – UAB School of Nursing: Reviewed applications for promotion and tenure of faculty and developed policy.
  - UAB School of Nursing Excellence in Teaching Award Selection Committee – 2021 – Present: We evaluate the nominations and vote on the teacher of the year.
  - UAB School of Nursing Protocol Oversight Review of Faculty (PORF) – 2011 – Present: Review research protocols for the UAB School of Nursing before they are forwarded to the IRB.
  - UAB NeuroCOVID COERE Working Group – Co-Chair since May 2020 – Present: The goal of our working group is to develop the infrastructure to study the impact of neuroCOVID across UAB. We have bi-weekly meetings and have developed an IRB protocol and have collected data, submitted abstracts, and grants (of which 1 was funded – Fazeli, PI).
  - UAB IRACDA-MERIT Program – Invited Speaker (October 2022): The UAB IRACDA-MERIT Program invites undergraduate students from its Institutional Partners, including Oakwood University, University of Montevallo, and Lawson State, to visit UAB and learn about graduate and professional programs. I spoke on behalf of our UAB SON PHD Program.
  - UAB Resources Center for Minority Aging Research – Pilot Grant Reviewer 2022: I reviewed a grant for the RCMAR; I periodically do this and other duties as requested.
  - UAB Institutional Review Board (IRB) – Committee Member since 2009 – Present: The UAB Institutional Review Board for Human Use (IRB) is a committee established under federal regulations for the protection of human subjects in research (45 CFR 46). Its purpose is to help protect the rights and welfare of human participants in research conducted under the auspices of

the University of Alabama at Birmingham. The guiding ethical principles of the IRB - respect for persons, beneficence and justice—are embodied in the “Belmont Report”: Ethical Principles and Guidelines for the Protection of Human Subjects of Research (*The National Commission for the Protection of Human Subjects of Biomedical and Behavioral Research*, April 18, 1979).

### **Service Activities (Past)**

- Rural Breach Cancer Survivor Data Safety Monitor Board – Member – 2009 -- 2018: Serves a member on this grant (5R01-NR005332 – Quality of Life Intervention in Breast Cancer Survivor).
- Reducing Care-Resistant Behaviors During Oral Hygiene in Persons with Dementia – Member – 2013 to 2016: Serve as a DSMB member on this grant (R01-NR012737-01 – Reducing Care-Resistant Behaviors During Oral Hygiene in Persons with Dementia).
- School of Nursing, University of Virginia (July 2014) – Advised Dr. Karen M. Rose, PhD, RN, FAAN, Assistant Dean for Research and Innovation at the University of Virginia, on how to structure a writing workshop as we have done here at UAB.
- Florida International University (May 2014) – Reviewed a tenure application for one of their professors studying HIV.
- UAB School of Nursing Search Committee, Assistant Dean for Graduate Clinical Programs – Committee Member – 2014 – 2015.
- Executive Conference Planning Committee Member – Mitochondria to the Metropolis (October 2-3, 2014), Emory University (R13 Educational Grant), Atlanta, GA.
- Grant Reviewer for Australian Government, National Health and Medical Research Council (May 2014) – I was asked to review a grant on promoting better cognitive functioning in adults with HIV-associated Neurocognitive Disorder.
- Grant Reviewer for Pilot Grant, Center for AIDS Research, Emory University – I was asked to review a grant on aging with HIV and caregiving.
- Search Committee for Chair, UAB Department of Family/Child Health and Caregiving, Member from 2012 – 2013.
- Search Committee for Non-Tenure Track Faculty, UAB Department of Psychology, Member from 2012 – 2013.
- Advancement, Promotion, and Tenure (APT) Committee, Chair – UAB School of Nursing – February 2013 – October 2013: Reviewed applications for promotion and tenure of faculty and developed policy.
- Search Committee for Chair, Department of Adult Acute and Chronic Care and Foundations in the UAB School of Nursing, Member from 2010-2011.
- Working Group on HIV and Aging, Office of AIDS Research, Member from 2011-2012 (see above).
- Advisory Board – UAB Dual Adult/Gerontological Nurse Practitioner Program – 2008 – 2012: Reviewed distance education curriculum.
- Southern Nursing Research Society 2007, 2008, 2009: Review abstracts for

national conference.

- Distinguished Faculty Lecturer Committee, Member from 2011-2014.
- President's Teaching Excellence Search Committee: January 2012, January 2013, January 2014, January 2015, January 2016, January 2017, January 2018, Chair 2013 – 2015. February 2021-2023.
- Scientific Advisory Committee of the AIDS Fond Netherlands, Grant Reviewer: April 2011, reviewed a research grant on HIV and co-morbidities located in Amsterdam, Netherlands.
- Scholarship Committee for UAB School of Nursing, Member: December 2010, July, 2011; reviewed essays and letters of recommendation for students seeking scholarships.
- White House Invitation to Attend a Forum on HIV and Aging: As a part of President Obama's National HIV/AIDS Strategy, a series of discussions were convened at the White House by the Office of National AIDS Policy (ONAP) covering a range of topics (e.g., Women and HIV, Youth and HIV). This special forum on HIV and Aging was held on October 27, 2010 where I was invited and attend this special event.
- Advisory Council on Brain Health, American Society on Aging – 2009 – 2010: The goal was to develop a focus within the normal annual national conference forum.
- Faculty Search Council – 2008 to 2010: Sought out and interviewed faculty to join the UAB School of Nursing.
- Birmingham AIDS Outreach – Board Member & Member-at-Large – 2008 to 2010: Provided knowledge about HIV and advised the board on emerging HIV issues, assisted in fund raising and education.
- RIG Aging with HIV – UAB 1917 Clinic – Co-Chair with Linda Moneyham - 2008 – 2010: It is our responsibility to begin developing this study group in order to promote dialogue, research, and grants in this area.
- Dementia Research in African Americans: Breaking down the Barriers, Committee Member for Conference Design, 1999.
- Program Committee, AIDS Alabama, Committee Member since November 2005 – 2006.
- Advocacy for the Elderly: Member 1999-2001. Designed advocacy questionnaire, aided the planning of resource fairs for low-income, minority elders, analyzed data, provided feedback on community involvement initiatives.
- Alzheimer's of Central Alabama: Board Member from 1998 to 2003; Secretary for 1999 to 2001; Vice-President from 2001-2002. Involved in fund-raising activities including benevolent walk and garden art auction; engaged in secretarial and documenting duties, actively participated in executive/planning committees, provided assistance with advocacy initiatives, initiated and supervised research grant program, rated and scored grants, and spoke on caregiver education and dementia-related behavior problems in the community-based lecture series.
- UAB School of Nursing, Self-Study II Standards – 2007- 2009: Gathering data on academic resources for accreditation.



- UAB School of Nursing, Faculty Annual Evaluation Form Committee – 2008: Revised the faculty annual evaluation form for the School of Nursing.
- UAB School of Nursing, Research, Teaching, Service Scholarship Committee – 2009 to 2010: Research interest group that meets monthly to discuss research topics.
- NIH Stage 1 Grant Reviewer – Summer 2009: Reviewed 4 NIH grants focusing on aging with HIV.
- Advisory Council on Brain Health Forum, American Society on Aging – 2009 – 2010: The goal was to develop a focus within the normal annual national conference.
- PSI Foundation – 2010: Reviewed an aging with HIV.
- Grant Reviewer – 2010: 2010 Dean's Scholar Award Program, School of Nursing, University of Alabama at Birmingham, Birmingham, AL
- Grant Reviewer – 2010 – 2011: Charles Barkley/CCTS Health Disparities Research Award, University of Alabama at Birmingham, Birmingham, AL.
- Transportation Research Board – 2010 & 2011: Reviewed a paper for their conference, publication, and award.
- Grant Reviewer – 2014: Resource Center for Minority Aging Research, University of Alabama at Birmingham, Birmingham, AL.
- Mock Grant Reviewer – 2015: CCTS (Center for Clinical and Translational Science).
- Research on Older Adults with HIV (ROAH) – Research Advisory Committee Members – 2015-2016: I was invited based upon my focus on aging with HIV to serve as an advisory board member on the ROAH 2.0 (their second large foray in examining this phenomenon). I provide feedback on the conceptual direction of this large multi-site study, lending expertise on neurocognition.
- Grant Reviewer, Center for AIDS Research, Emory University, May 2019 – Reviewed a grant on Aging, HIV, and Opioid Use Recovery: Identifying Ways to Improve Social Support and Care.
- UAB CCTS, GRIT Program Grant Review – November 2021.
- Advancement, Promotion, and Tenure (APT) **Committee Member and Chair** (2016-2017) – UAB School of Nursing – July 2015 – July 2017: Reviewed applications for promotion and tenure of faculty and developed policy
- Judge of Science Fair, UAB-CORD 2020 Regional Science and Engineering Fair, March 7, 2020.
- UAB Center for Outcomes & Effectiveness Research & Education (COERE) – October 2021 – Internal Advisory Committee Member.
- UAB Comprehensive Neuroscience Center – October 2021 – Internal Advisory Committee Member.
- Director-at-Large, Association of Nurses in AIDS Care (September 2018 – September 2020): Participated in board meetings and initiatives to propel the practice and science of HIV prevention and treatment.
- Sigma Theta Tau International, Grant Reviewer, May 2021.
- HIV Neurobehavioral Research Program (HNRP) Pilot Grant Program, University of California at San Diego, Grant Reviewer, September 2022.

## MEDIA EVENTS

- Alzheimer's Hot-Line (November, 1998). NBC 13 Local News, Birmingham, AL.
- ACTIVE Project (November, 2002). NBC Nightly News, Birmingham, AL.
- American Psychological Association Radio Interview on Statistical Models of Driving Cessation in Older Adults (July, 2004).
- **Vance, D. E.** (November 29, 1993). Caring for the caregivers of Alzheimer's Pentecostal Evangel, 4151, 12.
- **Vance, D. E.** (April, 1998). Acknowledging Alzheimer's disease. Mature Living, 40-42.
- Senior, K. (2005). Growing old with HIV. Lancet – Infectious Disease, 5, 739. This article is a special report with interviews with **Vance** and other specialists in aging with HIV.
- Interviewed concerning publication (publication #48) on older adults drivers (May, 2005); to appear in the journal Geriatrics in the June 2006 issue.
- In general, I have participated in a variety of health fairs to promote recruitment of participants and disseminate results of past studies.
- Interviewed by Sue Rochman in March 2007 for an issue on aging with HIV in Positive Magazine to appear in 2007.
- Commentary written on an article: Hines, M. E. (2008). Commentary on "Biopsychosocial benefits of spirituality in adults aging with HIV: Implications for nursing practice and research": New challenges for providing spiritual care in aging patients with HIV. Journal of Holistic Nursing, 26(2), 126-127
- Van Pelt, J. (2009). New purview for HIV/AIDS. AgingWell, 2(1), 24-27. I was interviewed for this article; I am mentioned six times in this article.\
- Hardiness, cognitive function, and psychosocial support: Overlooked factors in slowing HIV-related aging? (An interview with David E. Vance, Ph.D., MGS). Research Initiative, Treatment Action (RITA), Center for AIDS in Houston, Texas – Spring, 2010. [www.centerforaids.org/publications](http://www.centerforaids.org/publications) & <http://www.centerforaids.org/pdfs/mar2010ritagm.pdf>
- An article written by Marian Plaza-Mayorca titled "Study finds older HIV-positive adults have more age-related diseases, but lower viral loads and better HIV-related outcomes" was published on July 8, 2010 in AIDS Beacon. Our study (Vance, Mugavero, Willig, Raper, & Saag, 2010) was the study she highlighted. <http://www.aidsbeacon.com/news/2010/07/08/study-finds-older-hiv-positive-adults-have-more-age-related-diseases-but-lower-viral-loads-and-better-hiv-related-outcomes/>
- I was interviewed for an article by Robert Volansky which was published in Infectious Disease News titled "Neurocognitive disorders may be rising in aging patients with HIV". I am quoted extensively about the cognitive problems that impact everyday functioning in adults aging with HIV. This article first appeared on October 20, 2010. <http://www.infectiousdiseaseneews.com/article/76606.aspx>
- I was interviewed by Abraham Feingold, Psy.D. for a section on "Positively

- Golden: Advances in Aging with HIV (Part 1)” where my previous studies were cited and quoted. This article appeared within Mental Health AIDS, 12(4), 8-11. <http://www.samhsa.gov/HIV/mh aids.aspx>
- On August 2, 2011, the announcement of being Editor-in-Chief of a new journal was made public. The journal is Nursing: Research and Reviews. <http://www.prweb.com/releases/DoveMedical/Press/prweb8642586.htm>  
I was interviewed by Clarinda MacLow for ID Advisor: Focus on HIV/AIDS, a multi-modal news and information source for practitioners specializing in infections diseases, especially HIV/AIDS. The article came out in Fall 2011 titled “The Aging Patient with HIV.” I am quoted extensively throughout the article.  
[http://www.theidadvisor.com/ViewArticle.aspx?d=Clinical%2bCorner&d\\_id=454&i=October%2b2011&i\\_id=776&a\\_id=19437](http://www.theidadvisor.com/ViewArticle.aspx?d=Clinical%2bCorner&d_id=454&i=October%2b2011&i_id=776&a_id=19437)
  - UAB Psychology News Magazine, Fall 2011 – Interviewed for the Alumni Voice – “Mentor/Teacher/Collaborator: An On Campus Perspective of Alumnus” – In this article, my perspectives on the merger of psychology and nursing education was voiced (p. 14).
  - HIV-related Cognitive Decline and Cognitive Remediation Therapy – A press release was issued by POSIT Science (<http://www.positscience.com/why-brainhq/world-class-science/peer-reviewed-research/ongoing-research-in-specific-health-conditions/hiv-related-cognitive-decline>) and UAB (Title: Cognitive training helps adults with HIV, UAB study finds (<http://www.uab.edu/news/latest/item/2826-cognitive-training-helps-adults-with-hiv-uab-study-finds>)) on my study investigating speed of processing training in middle-aged and older adults with HIV (study appeared in the *Journal of the Association of Nurses in AIDS Care*, 23(6), 500-510). This story was also featured in the UAB Magazine (Fall 2012, p. 16) (<https://www.uab.edu/uabmagazine/fall2012/coverstory/growing>).
  - Journal of the Association of Nurses in AIDS (JANAC) Care Pod Cast – A pod cast of an interview with me was release in February 2013 by JANAC to highlight my article, “Assessing and Treating Forgetfulness and Cognitive Problems in Adults with HIV.”  
<http://www.facebook.com/ANACJournal/posts/10151345555888911>
  - HIV Plus Magazine (2013) – I was interviewed for an article titled, “Why You Need Mental Aerobics.”
  - Daily RX, November 29, 2012 – I was interviewed for an article titled, “Boosting Brains for Older Adults with HIV.”  
<http://www.dailyrx.com/print/cognitive-training-improves-life-older-adults-hiv>
  - Yahoo! Health, April, 4, 2014 – Featured my article published in the *Journal of the Association of Nurses in AIDS Care* on “Driving Ability May Falter With Age In HIV-Positive Adults. <http://health.yahoo.net/news/s/hsn/driving-ability-may-falter-with-age-in-hiv-positive-adults>
  - ABC 33/40 (Local Birmingham News) on March 3, 2017 – I was interviewed for receiving my R21 Grant “Individualized-Targeted Cognitive Training in Older Adults with HAND”.
  - Psychiatry Advisor on October 16, 2017 – My doctoral student, Chance

Nicholson, was interviewed about our recent article that was published on “Vagus Nerve Stimulation in HIV-Associated Depression.”

- Do People with HIV See Less Benefit from Exercise, November 10, 2019 – Interviewed on Dr. Joe Perazzo’s study on functional impairment. Presented at the Association of Nurses in AIDS Care Conference, Portland, OR.  
<https://www.medpagetoday.com/meetingcoverage/anac/83242>
- Speed of Processing Training Resulted in Significant Improvements for Individuals with HAND, November 8, 2019 – Interviewed by Contagion Live on my THINKFAST Study at the Association of Nurses in AIDS Care Conference, Portland, OR.  
<https://www.youtube.com/watch?v=FDgMUqvuszo>  
<https://www.contagionlive.com/news/speed-of-processing-training-resulted-in-significant-improvements-for-individuals-with-hand>
- Everyone Fears Dementia. Fight Back with These Research-backed Habits You Can Try Today – November 7, 2019 (written by Matt Windsor) in UAB Reporter – This article features my work in cognitive aging.  
[https://www.uab.edu/reporter/research/publications-research-findings/item/8917-everyone-fears-dementia-fight-back-with-these-research-backed-habits-you-can-try-today?utm\\_source=MC\\_100006781&utm\\_medium=email&utm\\_campaign=11082019ereporter&utm\\_content=Here%27s+a+recipe+for+dementia+%e2%80%94+and+a+prescription+to+reduce+your+risk](https://www.uab.edu/reporter/research/publications-research-findings/item/8917-everyone-fears-dementia-fight-back-with-these-research-backed-habits-you-can-try-today?utm_source=MC_100006781&utm_medium=email&utm_campaign=11082019ereporter&utm_content=Here%27s+a+recipe+for+dementia+%e2%80%94+and+a+prescription+to+reduce+your+risk)
- Cognitive Training for People with HIV-Associated Neurocognitive Disorder – November 11, 2019 – Dr. Shameka Cody was interviewed by Contagion Live on my Training On Purpose Study (TOPS) at the Association of Nurses in AIDS Care Conference, Portland, OR.  
<https://www.youtube.com/watch?v=FDgMUqvuszo>
- BrainHQ from Posit Science Newsletter, November 26, 2019 by Jeff Zimman – My work on cognitive training in older adults with HIV to reduce the prevalence and severity of HAND was highlighted.
- Nye, J. (November 23, 2022). HIV-associated neurocognitive decline aided by speed of processing training. Clinical Advisor.  
[HIV-Associated Neurocognitive Decline Aided by Speed of Processing Training \(clinicaladvisor.com\)](https://clinicaladvisor.com/hiv-associated-neurocognitive-decline-aided-by-speed-of-processing-training/)
- The Role of the Multidisciplinary Approach in the Management of PWH. Video created as part of the Consultant360 Multidisciplinary Medical Information Network – I was interviewed for my work on neurocognition in HIV.
  - o <https://www.consultant360.com/videos/multidisciplinary-approach-managing-people-hiv>
- Hot Topics in HIV Comorbidities and Treatment. Video created as part of the Consultant360 Multidisciplinary Medical Information Network – I was interviewed for my work on neurocognition in HIV.
  - o <https://www.consultant360.com/videos/hot-topics-hiv-comorbidities-and-treatment>
- Mixed Results with Cognitive Training in HIV (by Fran Lowry). *Medscape*,

Monday, November 3, 2023. [Mixed Results With Cognitive Training in HIV \(medscape.com\)](https://www.medscape.com)

**EDITORIAL ACTIVITIES (reviewed for +270 journals)**

- Family Relations, Guest Reviewer: 1999.
- The Journal of Religious Gerontology, Guest Reviewer: 2004.
- Psychological Reports, Consulting Reader: 2005 – 2007, 2009, 2011.
- Perceptual and Motor Skills, Consulting Reader: 2005 – 2007, 2009, 2011.
- AIDS Research and Human Retroviruses, Guest Reviewer: 2005 – 2006, 2017, 2018, 2021, **August 2023**.
- Preventive Medicine, Guest Reviewer: 2005.
- Physical and Occupational Therapy in Geriatrics, **Editorial Board Member: 2005 – Present.**
- AIDS and Behavior, Guest Reviewer: 2006 – 2008, 2011 – 2013, February 2017, June 2018, October 2018, February 2019, May 2020, July 2020, January 2021, August 2021, February 2022
- International Journal of Psychology, Guest Reviewer: November, 2006.
- ASA's Lesbian and Gay Aging Issues Network Newsletter, Guest Co-Editor: 2007. *(ea10)*
- AIDS Care, Guest Reviewer: January 2007, July 2009, July 2011, November 2013, March 2014, January 2016, November 2016, June 2017, **August 2023**.
- Rehabilitation Psychology, Guest Reviewer: March 2007, February 2010, February 2012, August 2016, April 2017.
- Journal of Clinical and Experimental Neuropsychology, Guest Reviewer: March 2007, October 2014.
- Journal of the Alabama Academy of Science, Guest Reviewer: July 2007.
- Clinical Interventions in Aging, Guest Reviewer: July 2007, November 2012, January 2013, February 2013, June 2016, August 2017, January 2018, February 2019.
- Journal of Adolescence, Guest Reviewer: August 2007.
- Brain, Behavior, and Immunity, Guest Reviewer: September 2007.
- ACRIA Booklet on Aging and HIV, Guest Reviewer: September 2007.
- The Open Ergonomics Journal, Editorial Board member: 2008 – 2015.
- Journal of the Association of Nurses in AIDS Care, Guest Reviewer: January 2008, January 2009, August 2009, June 2011, January 2015, November, 2015, February 2016, May 2016, July 2016, November 2016, December 2017, January 2018 *(ea20)*
- Oxford University Press – Dementia Book Proposal, Guest Reviewer: June 2008.
- IET Intelligent Transport System Journal, Guest Reviewer: June 2008, January 2009, January 2010, February 2010, July 2010, August 2011.
- European Journal of Neurology, Guest Reviewer: July 2008.
- Research in Gerontological Nursing, Ad Hoc Reviewer: July 2008, December 2009, January 2011; Review Panelist: April 2010, May 2011, June 2011, April 2012, February 2013; January 2017, January 2018.

- Research on Aging, Guest Reviewer: October 2008, May 2011, May 2012, July 2017.
- Journal of HIV/AIDS and Social Services, Guest Reviewer: November 2008, April 2009, June 2011, January 2012, November 2015, February 2016.
- Journal of Neuroscience Nursing, Guest Reviewer: January 2009 – February 2013, June 2014, February 2018, February 2021.
- Journal of Gerontology: Medical Sciences, Guest Reviewer: April 2009, **June 2023**.
- BMC Geriatric, **Associate Editor**: August 2009 – June 2015.
- Journal of Aging and Physical Activity, Guest Reviewer: October 2009, January 2010, May 2012, January 2013, April 2014, February 2017, July 2018 (ea30)
- Journal of Child Health Care, Guest Reviewer: November 2009.
- African Journal of AIDS Research, Guest Reviewer: March 2010, October 2016, February 2017.
- The Gerontologist, Guest Reviewer: March 2010, June 2010, January 2013, May 2014, May 2015, June 2020, February 2022.
- Geriatric Nursing, Guest Reviewer: May 2010, May 2014, February 2016, January 2017, December 2020.
- The Graying of AIDS: Stories from an Aging Epidemic, Advisory Board Panelist for this special publication: August 2010.
- Journal of Alzheimer's Disease, Guest Reviewer: September 2010, January 2017, August 2021.
- Ageing International, Guest Reviewer: January 2011.
- Transportation Research Record, Guest Reviewer: January 2011, October, 2011.
- Archives of Gerontology and Geriatrics, Guest Reviewer: March 2011, January 2017.
- Journal of Nursing Scholarship, Guest Reviewer: April 2011. (ea40)
- Health Promotion and Practice, Guest Reviewer: June 2011.
- Aging and Mental Health, Guest Reviewer: June 2011, October 2014, March 2018, **October 2023**.
- Nursing: Research and Reviews, **Editor-in-Chief**: July 2011 – February 2015; **Founding Editor and Honorary Editorial Board**: February 2015 – **Present**.
- Journal of the National Medical Association, Guest Reviewer: August 2011.
- Nursing Research and Practice, Guest Reviewer: October 2011, January 2012, November 2014, March 2022.
- HIV/AIDS – Research and Palliative Care, Guest Reviewer: October 2011, May 2018, July 2018.
- Canadian Journal of Aging, Guest Reviewer: December 2011, February 2012.
- Behavioral and Brain Functions, Guest Reviewer: January 2012.
- International Journal of STD & AIDS, Guest Reviewer: March 2012.
- Accident Analysis & Prevention, Guest Reviewer: June 2012, February 2015,



- October 2015, January 2016. (ea50)
- Journal of Nutrition, Health and Aging, Guest Reviewer: June 2012, July 2015, June 2017.
  - Journal of Neurology and Neurophysiology, Guest Reviewer: September 2012.
  - Future Virology, Guest Reviewer: October 2012.
  - Journal of NeuroVirology, Guest Reviewer: October 2012, January 2017.
  - AIDS Patient Care and STDS, Guest Reviewer: October 2012.
  - International Journal of Infectious Disease, Guest Reviewer: October 2012.
  - Clinical Nursing Studies, **Editorial Board Member**: October 2012 – **Present**.
  - PLOS One, Guest Reviewer: November 2012, June 2017, January 2022, July 2022.
  - Neuropsychiatric Disease and Treatment, Guest Reviewer: November 2012, March, 2013, August, 2016, February 2018.
  - Cognitive and Behavioral Neurology, Guest Reviewer: November 2012. (ea60)
  - Neurobiology of Aging, Guest Reviewer: January 2013.
  - BMC Research Notes, Guest Reviewer: January 2013.
  - Journal of the International AIDS Society, Guest Reviewer: January 2013, October 2015.
  - Western Journal of Nursing Research, Guest Reviewer: March 2013, May 2014, September 2017, **November 2023**.
  - Patient Preference and Adherence, Guest Reviewer: March 2013.
  - BMC Public Health, Guest Reviewer: March 2013, August 2017.
  - Nursing Research, Guest Reviewer: April 2013.
  - Alzheimer Disease & Associated Disorders – An International Journal, Guest Reviewer: April 2013.
  - Journal of Gerontology: Psychological Sciences, Guest Reviewer: April 2013, May 2018.
  - BMC Neurology, Guest Reviewer: May 2013. (ea70)
  - Nature and Science of Sleep, Guest Reviewer: May 2013.
  - Sage Open, Guest Reviewer: August 2013.
  - Archives of Clinical Neuropsychology, Guest Reviewer: August 2013, February 2014.
  - Journal of Gerontology and Geriatric Research, Guest Reviewer: August 2013.
  - Journal of Gerontology: Social Sciences, Guest Reviewer: September 2013, March 2015, September 2016.
  - Aging Health, Guest Reviewer: October 2013.
  - International STD Research & Reviews, Guest Reviewer: November 2013.
  - British Journal of Pharmaceutical Research, Guest Reviewer: November 2013.
  - Journal of Scientific Research and Reports, Guest Reviewer: November 2013.
  - International Journal of Tropical Disease & Health, Guest Reviewer: November 2013. (ea80)

- Health Psychology and Behavioral Medicine, Guest Reviewer: November 2013.
- Austin Journal of HIV/AIDS Research, **Editorial Board Member**: December 2013 – April 2015.
- International Journal of HIV/AIDS and Clinical Research, Guest Reviewer: December 2013.
- British Journal of Medicine and Medical Research, Guest Reviewer: January 2014.
- Annals of Gerontology and Geriatric Research, **Editorial Board Member**: January 2014 – **Present**.
- British Journal of Education, Society & Behavioral Science, Guest Reviewer: January 2014.
- Psychology and Psychotherapy, Guest Reviewer: February 2014.
- Journal of Forensic Research, Guest Reviewer: February 2014.
- Alzheimer's Disease and Parkinsonism, Guest Reviewer: February 2014, April 2014, June 2017.
- BMJ Open, Guest Reviewer: February 2014, October 2017, September 2019. (ea90)
- International Journal of Aging and Human Development, Guest Reviewer: February 2014.
- HIV and AIDS Review, Guest Reviewer: February 2014.
- Journal of Infectious Diseases and Therapy, Guest Reviewer: February 2014.
- Mechanisms of Ageing and Development, Guest Reviewer: March 2014.
- Chronic Wound Care Management and Research, Guest Editor: March 2014.
- Trauma and Treatment, Guest Reviewer: April 2014.
- Austin Journal of Sleep Disorders, **Editorial Board Member**: May 2014 – April 2015.
- Journal of Aging Research, Guest Reviewer: May 2014, September 2017.
- Frontiers in Human Neuroscience, Guest Reviewer: May 2014, January 2015, November 2019, January 2020, February 2021, March 2021.
- Journal for the Scientific Study of Religion, Guest Reviewer: June 2014. (ea100)
- Clinical Research in HIV/AIDS, **Editorial Board Member**: June 2014 – **Present**.
- Journal of Aging and Health, Guest Reviewer: June 2014, July 2017.
- Clinical Journal of AIDS/HIV, **Editorial Board Member**: June 2014 – September 2015.
- British Microbiology Research Journal, Guest Reviewer: June 2014.
- Annals of Depression and Anxiety, **Editorial Board Member**: July 2014 – 2017.
- Chronic Diseases – International, **Editorial Board Member**: July 2014 – **Present**.
- Austin Alzheimer's and Parkinson's Disease, **Editorial Board Member**: July 2014 – April 2015.
- Austin Journal of Neuropsychiatry and Cognitive Science, **Editorial Board Member**: July 2014 – April 2015.



- Advances in Research, Reviewer: August 2014.
- International Journal of Plant and Soil Science, Reviewer: August 2014. (ea110)
- HIV Advance Research and Development, **Editorial Board Member**: August 2014 – **Present**.
- World Journal of Psychiatry, Reviewer: September 2014.
- International Journal of School and Cognitive Psychology, **Editorial Board Member**: September 2014.
- Journal of Nursing and Care, **Editorial Board Member**: November 2014.
- The Lancet Infectious Diseases, Reviewer, December 2014.
- Journal of HIV and AIDS, **Editorial Board Member**: December 2014 – **Present**.
- Journal of Neuropsychiatry and Clinical Neurosciences, Guest Reviewer: January 2015.
- Gerontology and Geriatric Medicine, Guest Reviewer: March 2015.
- Human Immunology, Guest Reviewer: March 2015.
- Journal of Homosexuality, Guest Reviewer: April 2015, July 2015. (ea120)
- AIDS, Guest Reviewer: July 2015, July 2016, February 2017, September 2020, March 2021, November, 2021, February, 2022.
- AIDS, **Editorial Board Member**: January 2022-2024.
- Journal of Psychosomatic Research, Guest Reviewer: August 2015.
- The Clinical Neuropsychologist, Guest Reviewer: September 2015, November 2015.
- Metabolic Brain Disease, Guest Reviewer: September 2015.
- Neuropsychology, Guest Reviewer: October 2015, January 2016, May 2017, September 2022.
- Journal of General Internal Medicine, Guest Reviewer: December 2015, March 2016.
- Journal of Motor Behavior, Guest Reviewer: January 2016.
- Journal of the American Psychiatric Nurses Association, Guest Reviewer: February 2016, June 2016.
- Journal of Visualized Experiments, Guest Reviewer, March 2016, **July 2023**.
- International Journal of Epidemiology, Guest Reviewer, April 2016. (ea130)
- American Journal of Geriatric Psychiatry, Guest Reviewer, May 2016.
- The Lancet Psychiatry, Guest Reviewer, June 2016.
- Alzheimer's & Dementia: Diagnosis, Assessment & Disease Monitoring, Guest Reviewer, June 2016.
- Aging, Neuropsychology and Cognition, Guest Reviewer, June 2016.
- Medical Science Monitor, Guest Reviewer, July 2016, January 2017.
- Archives of Depression and Anxiety, Guest Reviewer, July 2016.
- Psychology and Aging, Guest Reviewer, July 2016, December 2016.
- Cochrane Review, Guest Reviewer, July 2016.
- Journal of Applied Gerontology, Guest Reviewer, July 2016, September 2017, June 2018, July 2020, **August 2023**.
- International Journal of Critical Care and Emergency Medicine, Guest

- Reviewer, July 2016. *(ea140)*
- Psychology, Health and Medicine, Guest Reviewer, August 2016.
- Journal of Neurological Sciences and Psychiatry, Guest Reviewer, September 2016.
- Journal of Neurology and Neurosurgery, Guest Reviewer, September 2016.
- Nutrients, Guest Reviewer, September 2016, February 2020, May 2022.
- Current HIV Research, Guest Reviewer, September 2016, January 2017.
- Journal of the Association of Nurses in AIDS Care (JANAC), **Editorial Board Member**,
  - o January 2017 – December 2019 (3-year term)
  - o January 2020 – December 2022 (3-year term)
  - o January 2023 – December 2025 (3-year term)
  - o **RED RIBBON REVIEWER 2020 (for reviewing +50 times)**
  - o **Guest Co-Editor 3 times (see below)**
  - o **Article of the Year Committee, Member 2021, 2022**
  - o **Article of the Year Committee, Chair, 2023 (July)**
- Journal of Family Medicine and Disease Prevention, Guest Reviewer, October 2016.
- International Journal of Nursing Studies, Guest Reviewer, November 2016.
- Prevention and Treatment of HIV/AIDS, Guest Reviewer, December 2016.
- AIMS Neuroscience, Guest Reviewer, February 2017. *(ea150)*
- Journal of the International Neuropsychological Society, Guest Reviewer, March 2017, November 2021, **August 2023**.
- Asian Nursing Research, Guest Reviewer, March 2017.
- Neuropsychology Review, Guest Reviewer, March 2017, September 2017, February 2022.
- International Archives of Nursing and Health Care, Guest Reviewer, March 2017.
- Social Work in Health Care, Guest Reviewer, March 2017, April 2017.
- European Medical Journal, Guest Reviewer, April 2017.
- Journal of the International Association of Providers of AIDS Care (JIAPAC), Guest Reviewer, April 2017, January 2018, January 2023, **October 2023**.
- Journal of Medical Internet Research: Research Protocols, Guest Reviewer, May 2017, March 2018, December 2020.
- Journal of HIV/AIDS and Infectious Diseases, Guest Reviewer, June 2017.
- Physical Science International Journal, Guest Reviewer, June 2017. *(ea160)*
- Journal of Epidemiology and Preventive Medicine, Guest Reviewer, July 2017.
- Expert Review of Clinical Pharmacology, Guest Reviewer, July 2017.
- Journal of Religion, Spirituality and Aging, Guest Reviewer, August 2017, July 2018, February 2021, September 2022, **August 2023**.
- Nursing and Health Care, Guest Reviewer, August 2017.
- Journal of Clinical Psychology in Medical Settings, Guest Reviewer, August 2017.
- Therapeutic Advances in Infectious Disease, Guest Reviewer, August 2017.

- European Journal of Hematology, Guest Reviewer, September 2017.
- Nutrients, Guest Reviewer, October 2017.
- Clinical Epidemiology, Guest Reviewer, October 2017.
- Health Psychology, Guest Reviewer, December 2017. (ea170)
- International Journal of Nursing Education Scholarship, Guest Reviewer, January 2018.
- Current Medicinal Chemistry, Guest Reviewer, January 2018.
- Medical Science Monitor Basic Research, Guest Reviewer, February 2018.
- Journal of Mental Health & Clinical Psychology, Guest Reviewer, February 2018.
- Journal of Religion and Spirituality in Social Work, Guest Reviewer, February 2018.
- Journal of Affective Disorders, Guest Reviewer, February 2018.
- Annals of General Psychiatry, Guest Reviewer, March 2018.
- BMC Infectious Diseases, Guest Reviewer, April 2018, June 2018.
- Psychiatry Review, Guest Reviewer, May 2018.
- HIV and AIDS Research Journal, Guest Reviewer, May 2018. (ea180)
- The Journal of Infectious Diseases, Guest Reviewer, June 2018, September 2019, June 2021, May 2022.
- Research Square, Guest Reviewer, June 2018.
- Journal of Advanced in Medicine and Medical Research, Guest Reviewer, June 2018.
- International Journal of Molecular Sciences, Guest Reviewer, July 2018, December, 2021.
- Oxford Research Encyclopedia of Psychology, Guest Reviewer, July 2018.
- Journal of Acquired Immunodeficiency Syndromes (JAIDS), Guest Reviewer, July 2018, December 2019, January 2020.
- Health Promotion Practice, Guest Reviewer, August 2018.
- BMC Geriatrics, Guest Reviewer, August 2018, May 2019, July 2020, October 2020, December 2020, June 2022.
- Journal of Clinical Medicine, Guest Reviewer, September 2018.
- Current Alzheimer Research, Guest Reviewer, September 2018. (ea190)
- Nursing and Family Health Care, Guest Reviewer, September 2018.
- Asian Journal of Research and Reports in Neurology, Guest Reviewer, September 2018.
- Patient-Centered Outcomes Research Institute (PCORI), Guest Reviewer, November 2018.
- Asian Journal of Biotechnology and Genetic Engineering, Guest Reviewer, December 2018.
- Asian Journal of Case Reports in Medicine and Health, Guest Reviewer, December 2018.
- Frontiers Aging Neuroscience, Guest Reviewer, January 2019, September 2021, June 2022.
- OBM Genetics, Guest Reviewer, January 2019.
- Neurocase, Guest Reviewer, February 2019.

- Contemporary Clinical Trials, Guest Reviewer, February 2019.
- BMC Family Practice, Guest Reviewer, February 2019, November 2021.  
(ea200)
- Psychiatry Research, Guest Reviewer, March 2019, **June 2023, August 2023.**
- The Lancet HIV, Guest Reviewer, March 2019.
- Current Journal of Applied Science and Technology, Guest Reviewer, March 2019.
- Frontiers in Behavioral Neuroscience, Guest Reviewer, April 2019.
- Journal of the American Geriatrics Society, Guest Reviewer, April 2019, January 2020.
- Open Forum Infectious Disease, Guest Reviewer, April 2019.
- Psycho-Oncology: Journal of the Psychological, Social and Behavioral Dimensions of Cancer, Guest Reviewer, May 2019, October 2021, May 2022.
- International Journal of Medical and Pharmaceutical Case Study, Guest Reviewer, September 2019.
- Applied Nursing Research, Guest Reviewer, October 2019.
- Clinical Infectious Diseases, Guest Reviewer, October 2019.(ea210)
- Revista do Instituto de Medicina Tropical de Sao Paulo, Guest Reviewer, November 2019.
- Research in Nursing and Health (RINAH), **Editorial Board Member:** January 2020 – December 2021.
- Brain Sciences, Guest Reviewer, December 2019.
- Journal of the Association of Nurses in AIDS Care (JANAC), Special Issue on Well-Being Across the Lifespan (Guest Co-Editor), Volume 33, Issue 1 (January-February 2022).
- Journal of Psychiatry and Brain Sciences, Guest Reviewer, May 2020.
- Mini Open Research, Guest Reviewer, June 2020.
- Ethnicity and Health, Guest Reviewer, June 2020.
- Healthcare, Guest Reviewer, July 2020.
- International Journal of Methods in Psychiatric Research, Guest Reviewer, August 2020, October 2020.
- Applied Neuropsychology: Adult, Guest Reviewer, September 2020, November 2020, February 2022, May 2022, April 2023, **July 2023, November 2023.** (ea220)
- Journal of Geriatric Psychiatry and Neurology, Guest Reviewer, September 2020.
- Brain and Behavior, Guest Reviewer, September 2020.
- Ageing Research Reviews, Guest Reviewer, November 2020.
- Journal of Economic Psychology, Guest Reviewer, November 2020, June 2021.
- International Journal of Environmental Research and Public Health, Guest Reviewer, December 2020.
- Journal of Alzheimer's Disease Reports, Guest Reviewer, September 2021, **August 2023.**
- The Lancet Health Longevity, Guest Reviewer, September 2021.

- Journal of Gerontological Social Work, Guest Reviewer, September 2021.
- Aging, Guest Reviewer, November 2021.
- International Social Work, Guest Reviewer, December 2021. (ea230)
- Frontiers in Neurology, Guest Reviewer, December 2021.
- Journal of the Association of Nurses in AIDS Care (JANAC), Special Edition of Resilience & Wellbeing Trough the Lifespan of People with HIV (Guest Editors, Vera Caine, David Vance, & Allison Webel), Spring 2022
- Nursing Open, Guest Reviewer, December 2021.
- Frontiers in Psychiatry, Guest Reviewer, January 2022.
- Frontiers in Psychology, Guest Reviewer, January 2022, February 2022.
- Activities, Adaptation and Aging, Guest Reviewer, February 2022.
- BMC Primary Care, Guest Reviewer, February 2022.
- Cancer Control, Guest Reviewer, May 2022.
- Integrative Medicine Reports, Guest Reviewer, June 2022.
- Neurology, Guest Reviewer, July 2022.
- Digital Health, Guest Reviewer, August 2022, **June 2023**. (ea240)
- AIDS Care – Psychology, Health & Medicine, Guest Reviewer, September 2022.
- Health & Social Care in the Community, Guest Reviewer, October 2022.
- Case Reports in Infectious Diseases, Guest Reviewer, November 2022.
- Current Neuropharmacology, Guest Reviewer, December 2022.
- Cognitive Processing, Guest Reviewer, January 2023.
- Molecules, Guest Reviewer, January 2023.
- Psychology and Health, Guest Reviewer, January 2023, **June 2023**.
- Journal of Clinical Medicine, Guest Reviewer, February 2023.
- Frontiers in Medicine, Guest Reviewer, March 2023.
- Biosafety and Health, Guest Reviewer, March 2023. (ea250)
- Journal of Neuropsychology, Guest Reviewer, March 2023.
- BMC Nursing, Guest Reviewer, **June 2023**.
- Journal of Pathology, Microbiology and Immunology, Guest Reviewer, **July 2023**.
- The Aging Male, Guest Reviewer, **July 2023**.
- Scientific Reports, Guest Reviewer, **July 2023**.
- The International Journal of Health Planning and Management, Guest Reviewer, **July 2023**.
- Anatomical Sciences Education, Guest Reviewer, **July 2023**.
- Nursing Forum, Guest Reviewer, **August 2023**.
- Frontiers in Ophthalmology, Guest Reviewer, **August 2023**.
- CNS Neuroscience & Therapeutics, Guest Reviewer, **August 2023**. (ea260)
- Medicine, Guest Reviewer, **August 2023**.
- American Journal of Alzheimer's Disease & Other Dementias, Guest Reviewer, **August 2023**.
- Public Health Challenges, Guest Reviewer, **September 2023**.
- Quantitative Imaging in Medicine and Surgery, Guest Reviewer, **September**

- 2023, November 2023.
- Clinical Gerontologist, Guest Reviewer, September 2023.
- Frontiers in Immunology, Guest Reviewer, September 2023.
- Geriatrics and Gerontology International, Guest Reviewer, September 2023.
- Journal of Physical and Rehabilitation Medicine, Guest Reviewer, September 2023.
- International Journal of Gerontology, Guest Reviewer, September 2023.
- Psychiatry Research Case Reports, Guest Reviewer, September 2023. (ea270)
- Biology, Guest Reviewer, October 2023.
- International Journal of Human-Computer Interaction, Guest Reviewer, October 2023.
- PLOS Global Public Health, Guest Reviewer, October 2023.
- Behaviour and Information Technology, Guest Reviewer, October 2023.
- Health Promotion Journal of Australia, Guest Reviewer, October 2023.
- Japan Journal of Nursing Science, Guest Reviewer, November 2023.
- Public Health Nursing, Guest Reviewer, November 2023.
- Health Promotion and Chronic Disease Prevention in Canada, Guest Reviewer, November 2023.
- Journal of Medicine and Life, Guest Reviewer, November 2023.
- Viruses, Guest Reviewer, November 2023. (ea280)
- Advances in Mental Health, Guest Reviewer, November 2023.
- World Journal of Gastrointestinal Surgery, Guest Reviewer, November 2023.
- Frontiers in Nutrition, Guest Reviewer, November 2023.
- Journal of Psychiatric Research, Guest Reviewer, November 2023.
- HIV Research and Clinical Practice, Editor of Special Collection titled – “Dusting Off the Cognitive Cobwebs: Unveiling Strategies to Foster a Better Understanding of Healthy Cognitive Ageing in HIV” – August 2023 – ???
- Journal of the Association of Nurses in AIDS Care (JANAC), Special Edition of Community Engaged Approaches to Addressing HIV in the US. South and in Rural Communities (Guest Editors, Gregory Carter, Emiko Kamatani, & David Vance), to be published around 2024.

## GRANT RELATED ACTIVITIES

Total Funded NIH Grants as PI:  
Total Funded NIH Grants:  
Total Funded Extramural Grants (non-NIH) as PI:  
Total Funded Extramural Grants (non-NIH):  
Total Funded Intramural Grants:  
Total Funded Grants as PI: \$4,148,508 (9/26/2023)  
Total Funded of All Grants: \$35,547,130 (9/26/2023)

### Funded Intramural (past to most recent)

Career Enhancement Award, Vance (PI)

2/15/2002 – 4/20/2002



University of Alabama at Birmingham \$2,100  
The major thrust of this award was to fund the presentation of three papers at the American Society on Aging in Denver, CO. The paper topics dealt with aging successfully with HIV, spiritual aspects of successful aging, and correlates of dementia-related behavior.  
Role: Principal Investigator

Career Enhancement Award, Vance (PI) 6/28/2002 – 7/2/2002  
University of Alabama at Birmingham \$2,100  
The major thrust of this award was to fund travel and expenses of a collaboration with Dr. Daniel Roenker at Western Kentucky University in Bowling Green, KY. From this endeavor, papers on validation and reliability were generated on the UFOV® as well as several treatment related papers dealing with factors associated with driving safety (See publications #37 & #42).  
Role: Principal Investigator

Protocol #: X02062002, Vance (PI) 2/1/2003 – 2/1/2004  
UAB Office of Postdoctoral Education \$7,000  
Psychological Aging with HIV  
The purpose of this project was to investigate trends associated with aging with HIV. Such basic trends were examined by comparing responses of people of different ages with HIV to people of different ages without HIV. Areas that were investigated included cognitive differences, depression, loneliness, spiritual beliefs, coping, sleeping patterns, and health attitudes and behaviors. (See publications #44, #45, #47, #51, & #56).  
Role: Principal Investigator

Career Enhancement Award, Vance (PI) 3/28/2003 – 8/2/2003  
University of Alabama at Birmingham \$2,100  
The major thrust of this award was to fund travel and expenses to three national conferences: American Society on Aging, American Psychological Society, and American Psychological Association. At all of these conferences, presentation on cognitive aging and HIV were presented.  
Role: Principal Investigator

Career Enhancement Award, Vance (PI) 2/28/2004 – 6/1/2004  
University of Alabama at Birmingham \$5,000  
The major thrust of this award was to fund travel and expenses for the Cognitive Aging conference in Atlanta, American Society on Aging conference in San Francisco, and Hierarchical Linear Modeling workshop in Chicago.  
Role: Principal Investigator

Career Enhancement Award, Vance (PI) 9/10/2004 – 9/13/2004  
University of Alabama at Birmingham \$1,500  
The major thrust of this award was to fund travel and expenses for the Scientific Software International workshop on Structural Equation Modeling Techniques at the University of Chicago.

Role: Principal Investigator

Center for AIDS Research, **Vance (PI)** 10/10/2005 – 10/10/2006  
University of Alabama at Birmingham \$25,000  
Chronicity of HIV and Aging on Neuropsychological Functioning and Everyday Performance

This application proposed to investigate the role that declines in psychomotor skills and speed of processing plays in the ability to perform instrumental activities of daily living (IADL) in adults aging with HIV.

Role: Principal Investigator

UAB School of Nursing Dean's Award, **Vance (PI)** \$10,000 April 2008  
Feasibility of Speed of Processing Training in Adults with HIV

The major goal of this proposal is to investigate the effectiveness of speed of processing training in adults with HIV, with special emphasis on aging with this disease.

Role: Principal Investigator

UAB, **Vance (PI)** 3/1/2009 – 2/28/2010  
Center for Clinical and Translational Science \$60,000  
Improving Cognitive Speed of Processing in Adults Aging with HIV

The major goal of this proposal is to investigate the effectiveness of speed of processing (SOP) training in adults with HIV, with special emphasis on aging with this disease.

Role: Principal Investigator (5%)

Pilot Grant, **Vance (PI)** 5/1/2010 – 5/1/2011  
UAB Center for Aging \$20,000  
Feasibility of Speed of Processing Training in Rural, Middle-aged and Older Adults with HIV

This study is a pilot intervention study examining speed of processing training in rural older adults with HIV.

Role: Principal Investigator (5%)

Dean's Scholar Award, Gakumo (PI) 10/2011 – 11/2011  
UAB School of Nursing \$10,000  
The Relationship between Health Literacy, Health Numeracy, and Cognition to HIV Health Outcomes

The purpose of this study is to assess the relationship of health literacy and health numeracy to patient recall of accurate CD4+ lymphocyte count, viral load, and other lab values (i.e., HDL, LDL, triglycerides).

Role: Investigator

Pilot, Wright (PI) 1/2010 – 9/2012  
UAB Diabetes Center \$50,000  
A Randomized Trial to Study Technologies that Extend the Research and Effectiveness of the EatRight Lifestyle Program



The purpose of this project is to determine the feasibility and effectiveness of new technologies when added to the EatRight Lifestyle Program. The program will utilize a 2x2 factorial design to test and interactive telephone counseling program (TruSage) and an incentive program (ChipRewards). These new technologies will be evaluated both alone and in combination.

Role: Methodologist/Statistician (2%)

Pilot Grant, Heaton (PI) 3/2010 – ~2011  
Deep South Center Pilot/Feasibility Study \$20,000

Sleep, Cognition, and Medication Use in Older Truck Drivers

The purpose of this study is to explore the relationships between, cognition, sleep, and medication use in a group of older truck drivers.

Role: Investigator (5%)

Dean's Scholar Award, Han (PI) 1/2013 – ~2014  
UAB School of Nursing \$10,000

Assessment of a Peer Evaluation Clinical Tool

The purpose of this study was to develop and examine the utility of didactic tool to evaluate student nurses' clinical performance.

Role: Statistician

Pilot, **Vance (PI)** 7/1/2013 – 6/30/2014  
UAB Resource Center for Minority Aging Research \$25,000

Olfactory/Gustatory Dysfunction in Older African Americans and Caucasians with HIV

The primary goal of this study is to examine chemosensory differences between African American and Caucasians older adults with HIV.

Role: Principal Investigator (5%)

Edward R. Roybal Center Pilot Projects/NIH, **Vance (PI)** 9/1/2013 – 8/31/2014  
Speed of Processing Training with Transcranial \$50,000

Direct Current Stimulation

The purpose of this study is to combine speed of processing training with transcranial direct current stimulation (using anodal current given that this has been shown to be more effective than cathodal current) in community-dwelling older adults.

Role: Principal Investigator (2.4%)

UAB School of Nursing, Dean Scholar Award, **Vance (PI)** 10/1/2015 – 9/30/2016  
Development of the Cognitive Prescription Protocol \$20,000

in Older Adults with HIV

The goal of this proposal is to augmenting cognitive functioning through cognitive prescriptions.

Role: Principal Investigator (0%)

UAB Center for AIDS Research (CFAR) Pilot Study, 7/1/2018 – 6/30/2019  
Fazeli (PI) \$50,000

Acceptability and Modifications of a Resilience Building Intervention in Older Adults with

### HIV

The purpose of this grant is to test a psychoeducational resilience program in older adults with HIV.

Role: Investigator (**Vance**)

UAB College of Arts and Sciences, Yookyong Lee (PI) \$25,000 3/1/2021-2/28/2022

Older Persons with HIV Who Are Caregivers: Unrecognized Gap in HIV Research

This is a qualitative study examining the lived experience of older caregivers with HIV.

Role: Co-Investigator

### **Funded Extramural – Nongovernmental (past to most recent)**

Neinhuis Pilot Grant, **Vance (PI)**

12/1/1996 – 12/1/1997

Nienhuis Montessori Company

\$6,000

& Alzheimer's of Greater New Orleans

The Effect of Montessori Materials in Alzheimer's Daycare Settings

The major goal of this study was to examine the uses and efficacy of Montessori equipment in adult day care settings (See publications #9, #11, and #17).

Role: Principal Investigator

AIDS Alabama

6/27/2003 – 4/1/2003

Alabama HIV Needs Assessment

\$25,000

This award was to fund instrument design and data processing of a statewide needs assessment for a non-profit organization. My role was to advise in instrument creation and produce papers associated with housing issues in this population (publications in preparation, under review, or publication #59).

Role: Co-Principal Investigator

AIDS Alabama

8/1/2004 – 8/1/2006

Housing Program Assessment

\$25,000

This award was to fund study design, instrument development, focus groups, and data processing in order to evaluate an HIV Housing Program in Birmingham, Alabama for a two-year period.

Role: Co-Principal Investigator

### **Funded Extramural – Governmental (past to most recent)**

5P50 AG11684-10, Ball (PI)

7/01/2001 – 7/01/2005

NIH/National Institute on Aging

\$415,891

Enhancing Mobility in the Elderly (ACTIVE Project)

ACTIVE proposes to test the efficacy of cognitive interventions to maintain and promote independent functioning in a diverse group of at-risk older adults.

Role: Co-Investigator

3U01 AG14289-05S1, Ball (PI)

7/01/2001 – 7/01/2004

NIH/National Institute on Aging

\$233,913

Cognitive Training and Everyday Competence in the Elderly (Accelerate Project)

The major goal of the project is to study the impact of Useful Field of View training on a large sample of older drivers across multiple sites. (See publication #60).

Role: Co-Investigator

1R3 AG202-02, Keirn (PI)

3/01/2002 – 3/01/2003

NIH/National Institute on Aging

Home Based Attentional Training for Older Adults

The focus of this project is to evaluate the effectiveness of a home-based intervention program to enhance the cognitive functions needed to drive safely, and to perform other instrumental activities of daily living. (See publication #55)

Role: Consultant

5T32 AG00274-02, Ball (PI)

6/20/2001 – 7/20/2004

NIH/National Institute on Aging

\$1,393,033

Clinical and Behavioral Training in Gerontology

The major goal of this project is to provide training to four pre-doctoral and four postdoctoral fellows in the field of gerontology. Each trainee works with a mentor in some aspect of the aging process.

Role: Fellow

Loan Repayment Program, Vance (PI)

7/25/2003 – 7/25/2005

NIH/National Institute on Aging

This award was to fund initiatives to keep clinical researchers active in the research community. Upon receipt of this award, I was to continue my work in clinical research settings for two years. In turn, half of my student loans would be paid.

Role: Principal Investigator

2 P50 AG 16582, Wadley/Ball (PI)

9/01/2004 – 9/01/2009

NIH/National Institute on Aging

\$637,096

Measuring Independence in the Elderly Study (MILES Project)

This study investigates the impact of neuropsychological presentation on everyday functioning and mobility in older adults with mild cognitive impairment.

Role: Co-Investigator (15%)

Loan Repayment Program, Vance (PI)

7/25/2005 – 7/25/2006

NIH/National Institute on Aging

This award was to fund initiatives to keep clinical researchers active in the research community. Upon receipt of this award, I was to continue my work in clinical research settings for one year. In turn, half of my student loans would be paid.

Role: Principal Investigator

Loan Repayment Program, Vance (PI)

7/25/2006 – 7/25/2007

NIH/National Institute on Aging

This award was to fund initiatives to keep clinical researchers active in the research community. Upon receipt of this award, I was to continue my work in clinical research

settings for one year. In turn, half of my student loans would be paid.

Role: Principal Investigator

5R01AG005739-23, Ball (PI) 09/01/2006 – ~2011

NIH/National Institute on Aging \$337,259

Improvement of Visual Processing in Older Adults (PACES Project)

The major goal of this project is to determine the underlying reasons for visual/perceptual problems in older adults, as well as to understand the mechanisms for improved performance with training.

Role: Co-Investigator (15%)

R03MH076642-02, **Vance (PI)** 2/28/2008 – 3/31/2011

NIH/National Institute on Mental Health \$143,225

Chronicity of HIV and Aging on Cognitive and Everyday Performance

This application proposes to investigate the role that declines in psychomotor skills and speed of processing plays in the ability to perform instrumental activities of daily living (IADL) in adults aging with HIV.

Role: Principal Investigator (20%; score of 113, percentile 0.5)

School of Medicine, Allman (PI) 1/2007 – unknown

NIH/National Institute on Aging \$30,000

Development of a Long-Term Care Decision-Making Instrument for Rural African American Family Caregivers

Pilot Project Research submitted as part of the P30 Deep South Resource Center for Minority Aging Research (RCMAR) Application. Richard M. Allman, M.D., & Mona Fouad, M.D., Co-Principal Investigators. Funds Requested = \$30,000. Yvonne D. Eaves, PI of Pilot

Role: Co-Investigator of Pilot Project (10%).

R21, Dashiff (PI) 2009 – 2011

NIH/National Institute of Nursing Research \$404,000

Multifamily Group Autonomy Support Psychoeducation for Parents and Middle Adolescents with Type 1 Diabetes

This study will test a cognitive and psychoeducational intervention to increase self-care and parental autonomy behavior in adolescents diagnosed with diabetes.

Role: Co-Investigator (2%)

1 R01 AG021958-04, Ball (PI) 02/15/2010 – 01/31/2015

NIH/National Institute on Aging ~\$423,181 per year

Predicting Long-Term Mobility Outcomes for Older Adults

This project proposes to re-examine the original participants on a modified version of the screening battery administered five years later during their next license renewal cycle and to monitor, via telephone survey, the mobility of the entire sample over an additional three year period.

Role: Investigator (10%)

- Pilot Grant, Heaton (PI) 1/2011 – Present  
National Transportation Research Center, Inc. \$20,000  
The Impact of Distraction and Health on Commercial Driving Performance  
The purpose of this study is to explore well commercial truck drivers are able to avoid distractions within their useful field of view.  
Role: Co-Investigator (10%)
- Developmental Award, **Vance (PI)** 4/2011 – 4/2013  
UAB Center for AIDS Research \$15,000  
The Effects of Visual Speed of Processing Training on Driving Simulator Performance in Adults with HIV  
The purpose of this study is to examine how visual speed of processing training impacts driving simulator performance in adults with HIV.  
Role: Principal Investigator
- HRSA, Baker (PI) 6/1/2012 – 8/1/2013  
Facilitating Interprofessional Care to Rural Older Adults  
The purpose of this project is to: 1) provide continuing education to individuals who provide care for rural older Alabamians in home health care agencies and long-term care facilities and 2) provide traineeships for individuals who are preparing for advanced nursing degrees and demonstrates the desire to improve the lives of Alabama's older adults residing in rural, underserved areas.  
Role: Statistician (2%)
- HRSA, McGuiness (PI) 9/1/2012 – 6/30/2015  
Technology Enhancement for Psychiatric NPs Using Interprofessional Education \$1,053,059  
This is an educational grant whereby I would provide the cognitive and aging information.  
Role: Investigator (5%)
- UAB School of Nursing Dean' Scholar Grant, **Han (PI)** 10/2012  
Assessment of a Peer Evaluation Clinical Tool \$10,000  
The goal of this study is to develop and assess the useful of a peer guided evaluation form for nursing students.  
Role: Statistician (0%)
- NCATS/NIH KL2, Pearson (PI) 7/1/2013 – 6/30/2015  
University of Rochester CTSA \$113,564  
Role of Vision-based Computerized Cognitive Training in Preventing Cognitive and Functional Decline in Older Adults with Mild Cognitive Impairment  
The goal of this research is to examine way to use cognitive remediation therapy to improve cognitive and functional abilities.  
Role: Consultant
- NIH - 1U01AI103401-01 Saag (PI) 01/01/2013-12/31/2017

UAB-MS Women's Interagency HIV Study (WIHS) Cohort ~\$649,844

The Women's Interagency HIV Study (WIHS) is a multicenter longitudinal study funded by the National Institute of Allergy and Infectious Diseases (NIAID), the Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD), the National Institute of Drug Abuse (NIDA), and the National Cancer Institute (NCI) to investigate the impact and progression of HIV disease in women. This proposal funds UAB as one of the nationwide sites for the WIHS cohort.

Role: Investigator, Chair of the Neurocognitive Subgroup (10%)

Women's Interagency HIV Study (WIHS), **Vance (PI)** 9/1/2014 – 1/1/2015  
National Institutes of Health \$50,000

The Role of Occupation on Neurocognitive Reserve in Adults with HIV

The purpose of this proposal is to examine the effects of employment on cognition cross-sectionally and longitudinally using WIHS data.

Role: Principal Investigator

Roybal Pilot, Menses (PI) 7/1/2014 – 6/30/2015  
Edward R. Roybal Center 2013 Pilot Grant Program/NIH \$50,000

Speed of Processing in Middle Aged and Older Breast Cancer Survivors

The goal of this proposal is to determine the feasibility of speed of processing training among older working breast cancer survivors.

Role: Co-Principal Investigator (contributed)

CCTS Pilot, Morrison (PI) 10/1/2015 – 9/30/2016  
Center for Clinical and Translational Science \$60,000

The Effect of a Ketogenic Diet on HIV-Associated Neurocognitive Impairment

The goal of this study is examine the impact of an 8-week ketogenic diet on neurocognitive impairment in adults with HIV using neurocognitive measures, inflammatory and cardiometabolic markers, and MRI.

Role: Investigator

R21 NIH/NINR, Vance (PI) 7/1/2016 – 6/30/2018  
Individualized-Targeted Cognitive Training in Older Adults with HAND \$404,000

**1R21NR016632-01 (THE TRAINING ON PURPOSE STUDY (TOPS))**

The purpose of this study is to compare adults who do received Individualized-Targeted Cognitive Training to those who do not in order to determine whether a change in HAND prevalence and severity occurs between groups.

Role: Principal Investigator

ClinicalTrials.gov → NCT03122288

Emory University CFAR R03, Rubstova (PI) 8/1/2017 – 7/31/2019  
From Surviving to Thriving: Correlates of Successful Aging among Older Women Living with HIV

The purpose of study is to explore subjective successful aging and its relationship to objective successful aging and examine whether it varies by HIV status, race/ethnicity, SES, and age group using the Women's Interagency HIV Study (WIHS) data.

Role: Mentor

MRSRG-14-204-01-PCSM Triebel (PI)/0.48 cal months 1/1/2015 – 12/31/2019  
American Cancer Society \$728,000

Decisional Capacity Evaluation in Metastatic Brain Cancer (December Study)

The ultimate goal of this research will be to identify optimal ways of supporting treatment decision making in patients with metastatic brain cancer, with the goal of improved patient care and quality of life.

Role: Primary Mentor

RCMAR Cody (PI) \$25,000 05/01/2019 – 04/31/2020  
Exploring Racial Disparities in Sleep Health among Older HIV-Positive Adults with HIV-Associated Neurocognitive Disorder (HAND)

Role: Consultant

R01 Administrative Supplement, Webel (PI) \$368,430 5/1/2019 – 4/30/2020  
The Association of Physical Activity and Diet with Cognitive Functioning in HIV

The purpose of this administrative supplement is to add cognitive function data to an existing NINR funded R01 cohort (R01NR018391; The PROSPER-HIV Study).

Role: Investigator (5%)

NIH 1 R21 AG076377-01A1, NIH/NIA, Fazeli (PI) 04/01/2022-03/31/2024  
Testing the Efficacy and Mechanisms of an Adapted Resilience Building Intervention in People Aging with HIV \$275,000

Role: Co-Investigator (0% effort)

1<sup>st</sup> Attempt: 9th percentile, 26 impact

R01: National Institute of Mental Health (NIMH), **Vance (PI)** 4/2016 – 3/2021  
An RCT of Speed of Processing Training in Middle-aged and Older Adults with HIV \$2,962,736

**1R011MH106366-01A1 (THE THINK FAST STUDY)**

The purpose of this study was to examine immediate and longitudinal effects of a laboratory-based and a home-based SOP training protocol on targeted cognitive tasks among PLWH with HAND.

Role: Principal Investigator

1<sup>st</sup> Attempt: 34<sup>th</sup> percentile, 46 impact

2<sup>nd</sup> Attempt: **10<sup>th</sup> percentile, 21 impact – Funded!**

ClinicalTrials.gov → NCT02758093

NIH Administrative Supplement, Jimenez (PI) \$250,000 5/1/2020 – 4/31/2021  
University of Miami

Physical Activity Health Promotion Intervention to Prevent and Reduce Aging-Related Cognitive Decline in Latinos Living with HIV/AIDS: HOLA

The purpose of this project responds to NOT-CA-20-019 Notice of Special Interest:

Alzheimer's-focused Administrative Supplements for NIH/NCI Grant that are not

focused on Alzheimer's Disease. The proposed will conduct a pilot single-arm trial with



Latinx individuals living with HIV to assess feasibility, acceptability and preliminary intervention effects on cognition.

Role: Consultant

Pilot Grant, Wei Li (PI) \$30,000 4/1/2021 – 3/31/2022  
MWCCS

Proteomic Biomarkers for Assessing Neurocognitive Function in Women Living with HIV

Role: Investigator/Mentor

### Current Funding

U01AI103401-01 Kempf, M.C., Konkle-Parker, D (MPI) 04/01/2019 – 03/31/2026  
UAB-MISS WIHS Cohort \$16,800,000

The Women's Interagency HIV Study (WIHS) is a multicenter longitudinal study funded by NIAID, NICHD, NIDA, and NCI to investigate the impact and progression of HIV disease in women. This proposal funds UAB as one of the nationwide sites for the WIHS project. This study funds UAB as one of the nationwide sites for the WIHS project. Dr. Vance is the Chair of the Neurocognitive Working Group for WIHS.

Role: Co-Investigator (Chair of the Neurocognitive Working Group)

R34, Gouse (PI) University of Cape Town 01/2022 – 01/2025  
NIH/NIMH

Adaptation and Implementation of Cognitive Remediation Therapy for Neurocognitive Impairment Associated with HIV

This study aims to adapt and develop a culturally-sensitive cognitive intervention for adults living in South Africa.

Role: Consultant (\$1000 per year)

Score of 40 (22 percentile)

Second Attempt: 9 percentile

KL2, Raymond Jones (PI) UAB 07/2022 – 07/2024  
UAB (\$100,000/year)

Central Vascular Implications in Neurocognitive Functioning among Older Adults with HIV

This internal career development grant will support Dr. Jones as he studies the relationship between vascular and cognition in adults with HIV.

Role: Co-Mentor

UAB Center for AIDS Research (CFAR) Pilot Study, 05/01/2022 – 04/30/2023  
Yookyong Lee (PI) \$50,000

Health for Older People (Project HOPE)

The purpose of this study is to characterize the population of older (50+ years of age) Black adults at risk for HIV and who seek HIV testing in the Birmingham, Alabama area.

Role: Investigator (**Vance**)

R01MH131177, Fazeli (PI) 10/1/2022 – 09/30/2027  
Evaluation of Neurobiological Mechanisms Mediating the Effect of Immune Activation



on Cognitive Impairment and the Role of Psychosocial Factors among Women Living with HIV

Role: Investigator (5%)

R21AG077957 **Vance (PI)**

08/23/2022 – 08/22/2024

NIH

\$408,375

Executive Function Training to Reduce Cognitive Intra-Individual Variability in Adults with HIV

Compare adults who receive Executive Functioning Training to those who do not to determine whether they improve in global cognitive ability (i.e., clinical ratings & HAND diagnoses) and overall cognitive IIV.

Role: PI (10%)

1<sup>st</sup> Attempt – Percentile: 13%; Impact Score: 29

UAB Health Services Foundation General Endowment Fund, Cho (PI)

An Unmet Need: Smell and Taste Clinic \$114,000 08/2022 –02/2024

The overarching goal of the proposed “Smell and Taste Clinic” at UAB is to provide comprehensive and state-of-the-art care to patients.

Role: Investigator (0%)

NCT04632654, NIH, Wang (PI)

08/2020 – 07/2025

A Motion Exergaming Approach for Symptom Management: HNC

Role: Investigator (3%)

Schexnayder (PI)

\$30,000

07/01/2023 – 6/30/2024

MWCCS UAB Pilot Grant

Exploring Psychosocial Stress and Executive Function as Modifiable Factors Influencing Weight Gain among Women Living with HIV and Obesity

Determine associations between stress, EF, and annual body weight and WC changes among women participants in the WIHS who meet body mass index (BMI) criteria for clinical obesity

Role: Mentor

1 R21 AG076366-01, **Vance (PI)**

04/01/2023 – 03/31/2025

NIH/NIA

\$408,375

Reducing Cognitive Intra-Individual Variability and Cognitive Impairment in HIV

Compare adults who receive Targeted Neurocognitive Training (TNT) to those who do not to determine whether they improve in global cognitive ability (i.e., clinical ratings & HAND diagnoses) and overall cognitive IIV.

Role: PI (10%)

1<sup>st</sup> Attempt: 49 Impact Score & 46 Percentile

2<sup>nd</sup> Attempt: 24 impact Score & 11 Percentile

Wang (PI) 09/01/2023 – 8/31/2024 \$50,000

The Role of Vision Function Over the Course of Head and Neck Cancer Treatment

UAB Vision Science Research Center Pilot Grant

Role: Investigator

CFAR Pilot, Rowan (PI)                      \$50,000                      9/1/2023 -- 8/31/2024  
Johns Hopkins University  
Olfactory Dysfunction and Its Association with Cognitive Dysfunction and Physical Frailty in Aging People with HIV

The pilot study will: 1) described the prevalence of olfactory dysfunction in aging people with HIV; 2) evaluate the association between olfaction (self-reported and psychophysical) and cognitive function in aging people with HIV; and 3) evaluate the association between olfaction (self-reported and psychophysical) and frailty in aging people with HIV.

Role: Investigator

K01AG86063 Jones (PI)    NIH/NIA    Total: \$667,941.00    12/1/2023 – 11/30/2028  
Direct: \$618,465.00 (Indirect: \$49,476.00)  
A Pilot Trial of High-Intensity Exercise to Combat Vascular and Cognitive Dysfunction in Older Adults with HIV

The purpose of this project is to evaluate the effectiveness of a high-intensity interval training (HIIT) intervention on arterial stiffness and neurocognitive function in OPWH and neurocognitive disorder.

Role: Co-Mentor

1<sup>st</sup> Attempt: Impact score = 16

**Under Review**

1 R01 MH134814-01                      \$3,590,024 (\$2,432,615 direct)    03/01/2024 – 02/28/2029  
Lee/Vance (MPI)  
Examining Social Brain in People Living with HIV: A Social Neuroscientific Approach

The purpose of this study is to establish and categorize the social cognitive abilities of adults with and without HIV and to examine their influence on social integration and medication adherence.

Role: MPI

1<sup>st</sup> Attempt:

NHLBI                      \$635,265                      4/1/2024 – 3/31/2028  
Wise (PI)  
Adapting and Piloting a Stress Management Intervention to Reduce Cardiovascular Disease Risk among Women Living with HIV

This proposed K23 would provide Dr. Wise the essential training and mentorship necessary to optimize her transition to scientific independence and build skillsets in 1) stress and cardiovascular outcomes and interventions to reduce risk, 2) the adaptation of behavioral interventions to maximize feasibility, acceptability, and impact, and 3) the design and conduct of behavioral-implementation trials. With the support of her mentors, Dr. Wise will systematically adapt and pilot the evidence-based Stress Management and Resiliency Intervention (SMART) and generate data on the feasibility, acceptability, and preliminary impact of the intervention to reduce stress and

cardiovascular disease risk among women living with HIV in the South.  
Role: Mentor

UAB NHLBI K12, Schexnayder (PI) 9/1/2023-8/31/2025  
Exploring Sex Differences in Psychosocial Stress, Resilience Resources, and  
Hypertension Control Cascade Outcomes among People Living with HIV  
Role: Co-Mentor

Brown (PI) 07/01/2023 – 06/20/2028 NIH/NIMH  
The Impact of COVID on Cognition and Alzheimer's Disease Risk among People Living  
with HIV: A Psychosocial and Neuroimaging Approach  
The purpose of this protocol is document and explore the role of COVID infection in  
people with HIV.  
Role: Consultant (\$5K/yr)  
1<sup>st</sup> Attempt:

## In Process

## BIBLIOGRAPHY

**BIBLIOGRAPHY (373 total: 301 peer-reviewed journal articles (*\*apr*) of which 145 (47%) are first authored (*\*fapr*), 45 (16%) as senior author (*\*snior*), and 179 as databased (*\*data*); 14 book chapters (*\*bc*) of which 4 (25%) are first authored (*\*fabc*); 16 book reviews (*\*bkr*); 3 theses/dissertations (*\*th/d*); 6 reports (*\*rp*); 34 other editorials/newsletters/etcetera (*\*oth*); 113 student involved publications (*\*sdt*); 135 (36%) article/book chapters in +33 different Nursing Journals/Publications (*\*nurjnl*); 11 are specifically educational publications (*\*edp*); published conference abstracts and lay/media articles not included.)**

- The majority of the publications focus on cognition, gerontology, HIV, or a combination thereof.
- Scopus Recognized Documents as of 8/26/2023 = **281**
- Scopus Score as of 8/26/2023 = **5,708**
- Scopus *h* index as of 8/26/2023 = **39**
- Scopus Author ID: 7101775022
- Google Scholar *h* index as of 8/26/2023 = **52**
- Google Scholar Citations as of 8/26/2023 = **9,862**
- ORCID: 0000-0002-0498-6263

Nursing Journals/Outlets include (N=**33**; **135** articles):

- American Journal of Nursing
- Biological Research for Nursing

- Cancer Nursing
  - GSTF Journal of Nursing and Health Care
  - Home Healthcare Nurse
  - ISRN Nursing
  - Journal of Advanced Nursing
  - Journal of Family Nursing
  - Journal of Gerontological Nursing
  - Journal of Holistic Nursing
  - Journal of Neuroscience Nursing
  - Journal of Nursing Doctoral Students' Scholarship
  - Journal of Nursing Education and Practice
  - Journal of the American Association of Nurse Practitioners
  - Journal of the American Psychiatric Nurses Association
  - Journal of the Association of Nurses in AIDS Care
  - Journal of Professional Nursing
  - Journal of Psychosocial Nursing and Mental Health Services
  - Journal of Research in Nursing
  - Journal of Rehabilitation Nursing
  - Keltner's Psychiatric Nursing (Philippine Edition)
  - Nurse Education and Practice
  - Nursing Education Perspectives
  - Nursing Forum
  - Nursing Outlook
  - Nursing: Research and Reviews
  - Pain-free writing for nurses: A step-by-step approach
  - Pediatric Nursing
  - Person with HIV/AIDS: Nursing perspectives (4th Edition)
  - Psychiatric Nursing (7<sup>th</sup> edition)
  - Research and Theory for Nursing Practice: An International Journal
  - Research in Nursing and Health
  - Workplace Health and Safety
1. **\*Vance, D.**, Vogel, P., & Scharf, K. (1993). Traits of volunteers preferred by older adults. Psychological Reports, 73, 1246. (\*fapr) (\*data)  
[PMID: 8115577](#)  
[PMCID: PMC8115577](#)
  2. **Vance, D.** (1993). Older homeless people: Problems in studying them and barriers to service utilization. Unpublished master's thesis, Scripps Gerontology Foundation, Miami University, Oxford, OH. (\*th/d)
  3. **\*Vance, D. E.** (1994). Barriers to use of services of older homeless people. Psychological Reports, 73, 1377-1378. (\*fapr) (\*data)  
[PMID: 7892409](#)  
[PMCID: PMC7892409](#)

4. **\*Vance, D. E.** (1995). Barriers and aids in conducting research with older homeless individuals. Psychological Reports, 76, 783-786. (\*fapr) (\*data)  
[PMID: 7568590](#)  
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[Found in Textbook\(s\):](#)  
Researching the Vulnerable  
Criminology, Penology, and Police Science Abstracts
5. **\*Vance, D. E.** (1995). Belief in lunar effects on human behavior. Psychological Reports, 76, 32-34. (\*fapr) (\*data)  
[PMID: 7770587](#)  
[PMCID: PMC7770587](#)  
[Found in Textbook\(s\):](#)  
50 Shades of Grey Matter  
The Moon and Madness  
Shapeshifters: A Doctor's Notes on Medicine and Human Change  
Why Astrology Is Science: Five Good Reasons  
The Out Edge: Classic Investigations of the Paranormal
6. **\*Vance, D. E.** (1995). A portrait of older homeless men: Identifying hopelessness and adaptation. Journal of Social Distress and the Homeless, 4(1), 57-71. (\*fapr) (\*data)  
[DOI: 10.1007/BF02087251](#)  
[Found in Textbook\(s\):](#)  
International Bibliography of Sociology  
Homelessness in America  
Invisible Victims: Homelessness and the Growing Security Gap  
Cities in a Globalizing World: Global Report on Human Settlements  
Health Promotion International (Volume 19)
7. **Vance, D.,** Camp, C, Kabacoff, M., & Greenwalt, L. (Winter, 1996). Montessori methods: Innovative interventions for adults with Alzheimer's disease. Montessori Life, 10-12. (\*oth)  
[Found in Textbook\(s\):](#)  
Geropsychological Interventions in Long-Term Care  
Dementia: From Diagnosis to Management – A Functional Approach  
Annual Review of Gerontology and Geriatrics Volume 18  
Cognitive Rehabilitation in Dementia  
Can Do Activities for Adults with Alzheimer's Disease  
Innovative Behavioral Healthcare for Older Adults  
Handbook of Assessment in Clinical Gerontology  
A Life Worth Living: Practical Strategies for Reducing Depression in Older Adults  
Adding Value to Long-Term Care
8. **\*Vance, D. E.** (1996). Geophysical variables and behavior: LXXXI. Testing the lunar hypothesis with rural behavioral reports. Psychological Reports, 79, 1080-1082. (\*fapr) (\*data)  
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[PMCID: PMC8969120](#)
9. **Vance, D. E.** (1996). Implementing Montessori didactic into Alzheimer's day care centers: A comparison of cognitive measures between using Montessori and control activities. Unpublished master's thesis, Department of Psychology,

University of New Orleans, New Orleans, LA. (\*th/d)

10. **\*Vance, D. E.** (1999). Considering olfactory stimulation for adults with age-related dementia. Perceptual and Motor Skills, 88, 398-400. (\*fapr)  
DOI: 10.2466/PMS.88.2.398-400  
PMID: 10483627  
PMCID: PMC10483627  
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Care-Giving in Dementia: Research and Applications  
Key Topics in Psychiatry  
Effects of Toy Simulation on Communications in Alzheimer's Disease  
Complementary and Alternative Medicine
11. **\*Vance, D. E., & Porter, R. J., Jr.** (2000). Montessori methods yield cognitive gains in Alzheimer's day cares. Activities, Adaptation, and Aging, 24(3), 1-22. (\*fapr) (\*data)  
DOI: 10.1300/J016v24n03\_01
12. **Vance, D. E.** (2000). Examining the role of naturalistic factors of agitation in nursing home residents. Unpublished dissertation, Department of Psychology, University of Alabama at Birmingham, Birmingham, AL. (\*th/d)
13. **\*Cotter, E. M., Stevens, A., Vance, D. E., & Burgio, L. D.** (2000). Caregiver skills training in problem solving. Alzheimer's Care Quarterly, 1(4), 50-61. (\*apr)  
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14. **Vance, D. E.** (2000). Eye-opening. Generations, 14, 100. (\*oth)
15. **\*Jennings, B., & Vance, D.** (2002). The short-term effects of music therapy on different types of agitation in adults with Alzheimer's. Activities, Adaptation, and Aging, 26(4) 27-33. (\*apr) (\*data)  
DOI: 10.1300/J016v26n04\_03  
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Arts and Culture for Older People in Singapore  
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The Creative Arts in Counseling  
Counseling as an Art: The Creative Arts in Counseling
16. **\*Ball, K., Berch, D. B., Helmers, K. F., Jobe, J. B., Leveck, M. D., Mariske, M., Morris, J. N., Rebok, G. W., Smith, D. M., Tennstedt, S. L., Uverzagt, F. W., Willis, S. L., for The ACTIVE Study Group\*** (2002). Effects of cognitive training interventions with older adults: A randomized controlled trail. Journal of the American Medical Association, 288(18), 2271-2281. \*Authors listed alphabetically within site. **Vance, D. E.** appears within University of Alabama site. (\*apr) (\*data)  
DOI: 10.1001/jama.288.18.2271

PMID: 12425704

PMCID: PMC12425704

17. **\*Vance, D. E., & Johns, R. N. (2002).** Montessori improved cognitive domains in adults with Alzheimer's disease. Physical and Occupational Therapy in Geriatrics, 20(3/4), 19-36. (\*fapr) (\*data)  
DOI: 10.1300/J148v20n03\_02  
Found in Textbook(s):  
Spiritual Assessment Intervention with Older Adults  
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18. **\*Vance, D. E., Burgio, L. D., Roth, D. L., Stevens, A. B., & Kaci, K. (2003).** Predictors of agitation in nursing home residents. Journals of Gerontology: Psychological Sciences, 58B(2), P59-P67. (\*fapr) (\*sdt) (\*data)  
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**NAMS/Menopause Best Paper Award** – This award recognizes the best paper published in *Menopause* in 2021. The recipient is selected by the Editor-in-Chief of the journal. Recipient: Dr. Pauline Maki

<https://www.menopause.org/annual-meetings/2022-meeting/award-scholarship-recipient>

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PMID: XXXXXX  
PMCID: XXXXXXXXX



371. Li, X., Yucel, R., Clervius, H., Kamalakar, K., Zetterberg, H., Blennow, K., Zhang, J., Adimora, A., Collins, L., Fischl, M., Kassaye, S., Maki, P., Seaberg, E., Sharma, A., **Vance, D. E.**, Gustafson, D. (**in press October, 2023**). Plasma A $\beta$ 40, A $\beta$ 42, T-tau, P-tau231, GFAP, and NFL in women with and without HIV infection. JAMA Network Open. (RCMAR-AGING) (\*fapr) (inpress)  
DOI: XXXXXX  
PMID: XXXXXX  
PMCID: XXXXXXXXX
372. Fazeli, P. L., Davey, C. H. Webel, A. R., Oliveira, V., Buford, T. W., **Vance, D. E.**, Burkholder, G., Crane, H. M., Fleming, J., & Willig, A. (**in press 11- 2023**). Select dietary components are associated with better global cognition in adults with HIV. Journal of the Association of Nurses in AIDS Care. (RCMAR-OTHER) (\*apr)  
DOI: XXXXXX  
PMID: XXXXXX  
PMCID: XXXXXXXXX
373. Byun, J. Y., Chapman Lambert, C., Fazeli, P. L., Iyer, A. S., Batey, D. S., & **Vance, D. E.** (**in press 11-2023**). Symptomatology and quality of life of older people living with HIV and comorbid chronic obstructive pulmonary diseases from an HIV clinic in Birmingham, Alabama. Journal of the Association of Nurses in AIDS Care. (RCMAR-AGING) (inpress) (\*sdt) (\*snior) (\*apr) (\*data)  
DOI: XXXXXX  
PMID: XXXXXX  
PMCID: XXXXXXXXX

### Under Review

**Vance, D. E.**, Azuero, A., Vinikoor, M., Schexnayder, J. K, Puga, F., Galatzan, B., Byun, J. Y., Xiao, C., Phaowiriya, H., James, D. L., & Fazeli, P. L. (**submitted November 2023**). Cognitive intra-individual variability as an outcome or modifier of speed of processing training in aging adults with HIV-associated neurocognitive disorder: A secondary data analysis of 2-year longitudinal randomized clinical trial. Archives of Gerontology and Geriatrics Plus.

DOI: XXXXXX  
PMID: XXXXXX  
PMCID: XXXXXXXXX

Kinnie, K., **Vance, D. E.**, Patrician, P. A., Billings, R., & Aroke, E. N. (**submitted November 2023**). Chronic pain resilience across clinical populations: A concept analysis. Pain Management Nursing.

DOI: XXXXXX  
PMID: XXXXXX  
PMCID: XXXXXXXXX



Wang, H-L, Heskett, M., Chen, X., Dreer, L., **Vance, D. E.**, McCammon, S., Yan, K., & Elliott, A. (**submitted October 2023**). Vision changes after head and neck cancer treatment. Journal of Head and Neck Cancer.

DOI: XXXXXX

PMID: XXXXXX

PMCID: XXXXXXXXX

Cysique, L. A., Aung, H. L., Brew, B. J., Bruning, J., Byrd, D., Costello, J., Daken, K., Ellis, R. J., Fazeli, P. L., Goodkin, K., Gouse, H., Heaton, R. K., Lewin, J., Mindt, M. R., Moore, D., Mullens, A. B., Munoz-Moreno, J., Power, C., Robbins, R. N., Rule, J., Rajasuriar, R., Savin, M. J., Taylor, J., Trunfio, M., **Vance, D. E.**, Wong, P. L., Woods, S. T., Wright, E. J., & Rourke, S. B. (**submitted August 2023**). Cognitive criteria in HIV: Greater consensus is needed. News and Views for Nature Reviews.

DOI: XXXXXX

PMID: XXXXXX

PMCID: XXXXXXXXX

Lewis Chumley, P., Dudding, K.M., Patrician, P., & **Vance, D. E.** (**submitted 8-2023**). An examination of acoustic neuroprotection in the neonate: A systematic review. Advances in Neonatal Care.

DOI: XXXXXX

PMID: XXXXXX

PMCID: XXXXXXXXX

Odi, I. O., Byun, J. Y., **Vance, D. E.**, & Chapman Lambert, C. (**submitted 8-2023**). Knowledge, attitudes, and utilization of HIV PrEP among Black college students in United States: A systematic review. Journal of American College Health.

DOI: XXXXXX

PMID: XXXXXX

PMCID: XXXXXXXXX

Odi, I. O., **Vance, D. E.**, Patrician, P., & Chapman Lambert, C. (**submitted 10-2023**). HIV PrEP coverage among Black adults: A concept analysis of the inequities, disparities, and implications. Health Equity.

DOI: XXXXXX

PMID: XXXXXX

PMCID: XXXXXXXXX

Harris, C., **Vance, D. E.**, & Heaton, K. (**submitted 8-2023**). Diesel engine exhaust exposure in relation to lung cancer in long-haul truck drivers: An eight-step concept analysis. Workplace Health and Safety.

DOI: XXXXXX

PMID: XXXXXX

PMCID: XXXXXXXXX

Lee, Y., **Vance, D. E., & Batey, D. S. (submitted 7-2021)**. Older caregivers with HIV (OCWH): Their story of caregiving. Journal of Association of Nurses in AIDS Care.

DOI: XXXXXX

PMID: XXXXXX

PMCID: XXXXXXXXX

Byun, J. Y., Wells, R., Bechthold, A. C., Coffee-Dunning, J., Armstrong, M., Taylor, R., O'Hare, L., Dransfield, M. T., Brown, C. J., Vance, D. E., J. N., Dionne-Odom, Bakitas, M., Iyer, A. S. **(submitted August 2023)**. Project EPIC (Early Palliative Care in COPD): Protocol for a hybrid implementation-effectiveness pilot randomized controlled trial of early telephonic geriatrics-palliative care in older adults with COPD and their care partners. Contemporary Clinical Trials.

DOI: XXXXXX

PMID: XXXXXX

PMCID: XXXXXXXXX

Jones, R., Jessee, M. B., Booker, R., Martin, S. L., **Vance, D. E., & Fazeli, P. L. (submitted June, 2023)**. Associations between estimates of arterial stiffness and cognitive impairment in older adults with HIV. Journal of Acquired Immunodeficiency Syndromes.

DOI: XXXXXX

PMID: XXXXXX

PMCID: XXXXXXXXX

**Vance, D. E., Fazeli, P. L., Azuero, A., Frank, J. S., Wadley, V. G., Raper, J. L., Pope, C. N., & Ball, K. K. (November 3, 2023)**. A 2-year longitudinal randomized control trial of speed of processing cognitive training in aging adults with HIV-Associated Neurocognitive Disorder: Results of the Think Fast Study. AIDS and Behavior. (RCMAR-OTHER) (\*fapr)

DOI: XXXXXX

PMID: XXXXXX

PMCID: XXXXXXXXX

**Vance, D. E., Billings, R., Chapman Lambert, C., Fazeli, P. L., Goodin, B., Kempf, M-C., Rubin, L. H., Turan, B., Wise, J., & Lee, J. (submitted FEB\_7\_2023)**. A systematic review of social cognition in HIV: Implications of non-social cognition, stigma, and social everyday functioning. Neuropsychology Reviews. (RCMAR-OTHER) (\*fapr) (\*sdt)

DOI: XXXXXX

PMID: XXXXXX

PMCID: XXXXXXXXX

**Vance, D. E.**, Maki, P., Yu, D., Dastgheyb, R., Springer, G., Anastos, K., Gustafson, D. R., Weber, K. M., Dykxhoorn, D. M., Milam, J., Diaz, M. M., Kassaye, S. G., Waldrop, D., Xu, Y., Wang, Y., & Rubin, L. H. (**submitted 6-2023**). Weighted logistic mixed effects models of cognitive predictors of everyday functioning in women with and without HIV in the Women's Interagency HIV Study. The Clinical Neuropsychologist. (RCMAR-OTHER) (\*fapr) (\*sdt)

DOI: XXXXXX

PMID: XXXXXX

PMCID: XXXXXXXXX

Rubtsova, A. A., Taylor, T., Wingood, G., Ofotokun, I., Gustafson, D., **Vance, D. E.**, & Holstad, M. (April, 2023). "As I grew older, my life got better:" Conceptions of successful aging among older women living with or at risk of HIV. AIDS and Behavior. (RCMAR-OTHER) (\*apr)

DOI: XXXXXX

PMID: XXXXXX

PMCID: XXXXXXXXX

Wise, J. M., Ott, C., Konkle-Parker, D., Raper, J. L., Heaton, K., **Vance, D. E.**, Azuero, A., Wingood, G., Adimora, A., Golub, E., & Kempf, M. C. (**submitted 7-2023**). Understanding the psychosocial context of employment and occupational productivity among women living with HIV: A mixed-methods study. WORK: A Journal of Prevention, Assessment & Rehabilitation. (RCMAR-OTHER) (\*apr)

DOI: XXXXXX

PMID: XXXXXX

PMCID: XXXXXXXXX

Byun, J. Y., Chapman Lambert, C., Fazeli, P. L., Goodin, B. R., Iyer, A. S., Kempf, M-C., Wise, J. M., Lee, Y., Batey, D. S., & **Vance, D. E.** (**submitted July 2023**). A conceptual framework for understanding successful aging living with HIV and chronic obstructive pulmonary disease. Nursing: Research and Reviews. (RCMAR-OTHER) (\*apr) (\*nurjnl) (\*sdt)

DOI: XXXXXX

PMID: XXXXXX

PMCID: XXXXXXXXX

Byun, J. Y., Chapman Lambert, C., Fazeli, P. L., Iyer, A. S., Batey, D. S., & **Vance, D. E.** (August, 2023). Intersectional stigma among older people with HIV and COPD in Alabama: A qualitative study of three cases. Nursing: Research and Reviews. (RCMAR-OTHER) (\*apr) (\*nurjnl) (\*sdt)

DOI: XXXXXX

PMID: XXXXXX

PMCID: XXXXXXXXX

Long, A., Vance, D. E., & Fazeli, P. L. (**August 2023**). Sexual risk behaviors among the transgender and gender diverse population: A concept analysis.

Journal of Sex Research.

DOI: XXXXXX

PMID: XXXXXX

PMCID: XXXXXXXXX

Del Bene, V. A., Fazeli, P. L., Blake, J., Li, W., Collette, C., Triebel, K. L., Byun, J. Y., Jacob, A., Kamath, V., & **Vance, D. E. (submitted 10-2023)**. Cognitive intra-individual variability in adults from the Deep South living with HIV-associated neurocognitive disorder: Effects of race, literacy, education, and disease duration. Archives of Clinical Neuropsychology.

DOI: XXXXXX

PMID: XXXXXX

PMCID: XXXXXXXXX

**In Preparation/Drafted**

Zondo, S., **Vance, D. E.**, & Basterfield, C. (June, 2022). A feasibility study exploring the efficacy of cognitive rehabilitation therapy for paediatric HIV in rural South Africa: A focus on sustained attention. TBD

Nicholson, W. C., Mirjam-Colette, K., Moneyham, L., Fazeli, P. L., Shacka, J. J., Clay, O. J., Weber, K., & **Vance, D. E. (written June 2019)**. Exploratory examination of respiratory sinus arrhythmia and cognitive function in women with HIV. Neurobiology of Disease.

- W10072 Maki et al.: [Host Genetics and HIV-1 Associated Neurocognitive Disorders in Women with HIV](#)
- [W18053 Heaton](#): Revised norms for the Hopkins Verbal Learning Test-Revised for older African Americans and Caucasians - coauthors needed from Bronx, DC, LA, SF, Chicago, UNC, UAB-MS. Revised norms for the Hopkins Verbal Learning Test-Revised for older African Americans and Caucasians” - W18053. Bronx: Anjali Sharma; Brooklyn: Howard Crystal; DC: Amanda Blair Spence; LA: Joel Milam; SF: Pauline Maki; Chicago: Kathleen Weber; WDMAC: Leah Rubin; Chapel Hill: Adaora Adimora; Atlanta: Kayla Smith; Miami: Margaret Fischl; UAB-MS: David Vance
- Rubin et al (concept sheet) – Metabolomic predictors of accelerated age-related decline in declarative memory in women with HIV.
- [Kaylee Crockett \(UAB\) & Bulent Turan \(UAB\)](#) – MWCCS – The Intersection of HIV and Race-related Stigma in Healthcare Settings and Associations with Cardiovascular Risk and Neurocognitive Functioning in Women with HIV.

- Semba (X19091) Concept Sheet – Lysophosphatidylcholines and cognitive decline in HIV-infected adults.
- CCS Concept Sheet -- Role of single nucleotide polymorphisms in EIF2AK3 in HIV-associated neurocognitive disorders.
- CCS Concept Sheet – Miller – Understanding how patterns of cumulative opioid use affect neurocognitive outcomes in patients with HIV.
- CCS Concept Sheet – Leah Rubin – Working HAND in HAND: Central nervous system complications in people with HIV.

## PRESENTATIONS

**PRESENTATIONS (745 Total: \*429 regional/national/international professional conferences (\*natp) of which 246 (65%) are first authored (\*fanatp) including 96 international presentations (\*intp) of which 67 (75%) are first authored (\*faintp); 3 chaired sessions (\*chs); 6 Keynote Addresses (\*KA); 300 state/local/organizational presentations (\*locp) of which 233 (83%) are first authored (\*falocp); 1 education/internet module; 2 other media (e.g., video, podcast, etc.) (\*other); 201 student involved presentations (\*studconf); \*sometimes these are published abstracts in their respective journals and conference manuals.)**



**24 Countries/Territories (spanning 5 continents)** represented include: Austria, Australia, Belgium, Canada, Chile, Czech Republic, France, Germany, Great Britain, Hungary, Jamaica, Mexico, Netherlands, Norway, Poland, Portugal, Puerto Rico, Spain, South Africa, Sweden, Switzerland, Tanzania, Thailand, and United States of America.

1. **Vance, D.** (March, 1992). Intergenerational inequity: The debate. Paper presented at the annual meeting of the Ohio Network of Education and Consulting Association Conference, Dayton, OH. (\*falocp)
2. **Vance, D.** (March, 1992). Alzheimer's disease: The impending epidemic. Paper presented at the annual meeting of the Ohio Network of Education and Consulting Association Conference, Dayton, OH. (\*falocp)
3. **Vance, D.** (March, 1993). Researching older homeless people. Paper presented at the annual meeting of the Ohio Network of Education and Consulting Association Conference, Mansfield, OH. (\*falocp)
4. **\*Vance, D.** (April, 1993). Older homeless individuals in double jeopardy. Paper presented at the annual meeting of the North Central Sociological Association Conference, Toledo, OH. (\*fanatp)

5. **Vance, D.** (April, 1993). Older homeless people: Problems in studying them and barriers to service utilization. Thesis defense before the Department of Sociology and Anthropology, Miami University, Oxford, OH. (\*falocp)
6. **\*Vance, D.** (March, 1994). Hopelessness of older homeless individuals. Paper presented at the American Society on Aging Conference, San Francisco, CA. (\*fanatp)
7. **Vance, D.** (April, 1994). Crisis prevention and intervention for agitation and aggression. Workshop presented at Cumberland River Comprehensive Care Center, Corbin, KY. (\*falocp)
8. **\*Barrett, L., Dodge, H., & Vance, D.** (March, 1995). Life after graduate school: Miami University MGSers tell all. Paper presented at the American Society on Aging Conference, Atlanta, GA. (\*fanatp)
9. **\*Vance, D., & Scharf, K.** (March, 1995). Attributes of volunteers preferred by older Americans. Paper presented at the annual meeting of the American Society on Aging Conference, Atlanta, GA. (\*fanatp)
10. **\*Vance, D. E., & Camp, C. J.** (November, 1995). Designing interventions for middle and late-stage AD: Lessons from Montessori. Paper presented at the Gerontological Society of America Conference, Los Angeles, CA. (\*fanatp)
11. **\*Vance, D. E., & Greenwalt, L.** (March, 1996). Practicing various types of art at an Alzheimer's adult day care. Paper presented at the annual meeting of the American Society on Aging Conference, Anaheim, CA. (\*fanatp)
12. **Vance, D. E.** (April, 1996). Principles of learning and social psychology. Guest lecturer for the Introductory Psychology Class at the University of New Orleans, Department of Psychology, New Orleans, LA. (\*falocp)
13. **Vance, D. E.** (October, 1996). Application of Montessori in Alzheimer's adult day cares. Paper presented at Colloquium Series at the Department of Psychology, University of New Orleans, New Orleans, LA. (\*falocp)
14. **Vance, D. E.** (September, 1996). Implementing Montessori didactic into Alzheimer's day care centers: A comparison of cognitive measures between using Montessori and control activities. Thesis defense before the Department of Psychology, University of New Orleans, New Orleans, LA. (\*falocp)
15. **\*Vance, D. E.** (March, 1997). Case studies of environmental modification for cognitively impaired adults. Paper presented at the American Society on Aging Conference, Nashville, TN. (\*fanatp)

16. **\*Vance, D. E.** (March, 1997). Reviewing the role of light therapy on sundowning. Paper presented at the American Society on Aging Conference, Nashville, TN. (\*fanatp)
17. **\*Vance, D. E.** (March, 1997). Advantages and disadvantages of using Montessori equipment in Alzheimer's day cares. Paper presented at the American Society on Aging Conference, Nashville, TN. (\*fanatp)
18. **Vance, D. E.** (May, 1997). The REACH Project: Recruitment is necessary. Invited speaker at the Alabama Head Injury and Mental Impairment Association hosted at Carraway Hospital, Bessemer, AL. (\*falocp)
19. Guy, D., Hardy, C., & **Vance, D.** (January, 1998). Minorities in clinical trials. Invited address at the UAB Center for Aging Seminar Series, University of Alabama at Birmingham, Birmingham, AL. (\*locp)
20. **\*Vance, D.,** Guy, D., & Burgio, L. (November, 1998). Implementing behavioral programs with African American caregivers of Alzheimer's Disease. Paper presented at the Gerontological Society of American Conference, Philadelphia, PA. (\*fanatp)
21. **Vance, D.** (December, 1998). Alzheimer's disease and the need for research. Invited speaker at Oak Mountain Baptist Church, Hoover, AL. (\*falocp)
22. **Vance, D.** (March, 1999). Preparing to care: Early intervention strategies for Alzheimer's caregivers. Paper presented at Alacare Headquarters as part of the Alzheimer's of Central Alabama Lecture Series, Birmingham, AL. (\*falocp)
23. **Vance, D.** (May, 2000). Treatment of behavioral disturbances in Alzheimer's disease and related dementias. Invited Speaker to Y2K Health Education Seminars, Birmingham, AL. (\*falocp)
24. **Vance, D. E.** (July, 2000). Examining the role of naturalistic factors of agitation in nursing home residents. Dissertation defense before the Department of Psychology, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
25. **Vance, D.** (July, 2000). Dementia and depression in the elderly: A Workshop. Invited Speaker to Mountain View Hospital, Gadsden, AL. (\*falocp)
26. **Vance, D.** (September, 2000). Alzheimer's disease: What can be done? Invited Speaker to Stonehedge Garden Club, Birmingham, AL. (\*falocp)
27. **Vance, D.** (October, 2000). The REACH Project: Clinical and empirical Implications of therapeutic intervention techniques. Invited Speaker to Department of Psychology Colloquia Series, Tuscaloosa, AL. (\*falocp)

28. **\*Vance, D.**, Stevens, A. B., Roth, D. L., Burgio, L. D., & Gerstle, J. E. (November, 2000). Utilizing structural equation models to examine characteristics of agitated nursing home residents. Paper to be presented at the Gerontological Society of America Conference, Washington, D.C. (\*fanatp)
29. **\*DeLaine, S., & Vance, D. E.** (March, 2001). Consequences of self-administered assessments at a resource fair for low-income elders. Paper presented at the American Society on Aging Conference, New Orleans, LA. (\*natp) (\*studconf)
30. **\*Edwards, J., & Vance, D. E.** (March, 2001). Spiritual activities for adults with dementia: Exploring the cognitive side of dementia and religious practice. Paper presented at the American Society on Aging Conference, New Orleans, LA. (\*natp)
31. **\*Vance, D. E.** (March, 2001). Examining characteristics of agitated nursing home residents utilizing structural equation models. Paper presented at the American Society on Aging Conference, New Orleans, LA. (\*fanatp)
32. **\*Vance, D. E.** (March, 2001). Using structural equation modeling with gerontology data. Paper presented at the American Society on Aging Conference, New Orleans, LA. (\*fanatp)
33. **Vance, D. E.** (May, 2001). Issues in dementia care research. Invited speaker at the School of Nursing Lecture Series, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
34. **\*Vance, D. E.**, Burgio, L. D., Ragsdale, R. & Allen, B. A. (August, 2001). Examining agitation in nursing home residents using structural equation models. Poster presented at the American Psychological Association Conference, San Francisco, CA. (\*fanatp)
35. **Vance, D. E.** (August, 2001). Unipolar and bipolar disorders. Guest lecturer for the Abnormal Psychology Class at the University of Alabama at Birmingham's Department of Psychology, Birmingham, AL. (\*falocp)
36. **Vance, D. E.** (September, 2001). Using LISREL to examine naturalistic factors of agitation in nursing home residents. Paper presented at the University of Alabama's Center for Aging Data Management Series, Birmingham, AL. (\*falocp)
37. **Vance, D. E.** (September, 2001). Sexual and gender assignment. Guest lecturer for the Human Sexuality Class at the University of Alabama at Birmingham's Department of Psychology, Birmingham, AL. (\*falocp)
38. **Vance, D. E.** (January, 2002). Research methods in developmental psychology. Guest lecturer for the Developmental Psychology Class at the University of Alabama at Birmingham's Department of Psychology, Birmingham, AL. (\*falocp)



39. **Vance, D. E.** (February, 2002). Prevention and treatment of HIV: Dealing with the diagnosis. Guest lecturer for the Human Sexuality Psychology Class at the University of Alabama at Birmingham's Department of Psychology, Birmingham, AL. (\*falocp)
40. \*Edwards, J. D., Ball, K. K., Wadley, V. G., & **Vance, D. E.** (April, 2002). Who benefits from speed of processing training? Paper presented at the Cognitive Aging Conference, Atlanta, GA. (\*natp)
41. \***Vance, D. E.**, Edwards, J. D., Ball, K. K., & Wadley, V. G. (April, 2002). Predicting successful cognitive aging in elders. Paper presented at the Cognitive Aging Conference, Atlanta, GA. (\*fanatp)
42. \***Vance, D. E.**, Edwards, J. D., Wadley, V. G., & Ball, K. K. (April, 2002). The relation between sensory function and cognitive decline. Paper presented at the Cognitive Aging Conference, Atlanta, GA. (\*fanatp)
43. \***Vance, D. E.** (April, 2002). Aging successfully with HIV. Paper presented at the American Society on Aging Conference, Denver, CO. (\*fanatp)
44. \***Vance, D. E.** (April, 2002). Correlates of dementia-related agitation: A review of 102 naturalistic studies. Poster presented at the American Society on Aging Conference, Denver, CO. (\*fanatp)
45. \***Vance, D. E.** (April, 2002). Investigating various world views on the role of successful aging. Paper presented at the American Society on Aging Conference, Denver, CO. (\*fanatp)
46. \***Vance, D. E.**, Edwards, J. D., Rizzo, M., Ball, K. K., & Wadley, V. G. (August, 2002). Effects of physical activity on cognitive health in older adults. Poster presented at the American Psychological Association Conference, Chicago, IL. (\*fanatp)
47. \***Vance, D. E.**, Edwards, J. D., Rizzo, M., Ball, K. K., & Wadley, V. G. (August, 2002). The effects of speed of processing on training older adults. Poster presented at the American Psychological Association Conference, Chicago, IL. (\*fanatp)
48. \***Vance, D. E.**, Edwards, J. D., Ball, K. K., & Wadley, V. G. (August, 2002). Predictors of successful cognitive aging. Poster presented at the American Psychological Association Conference, Chicago, IL. (\*fanatp)
49. \*Ball, K. K., Roenker, D. L., Wadley, V. G., Edwards, J. D., & **Vance, D. E.** (August, 2002). Field evaluation of a brief driver assessment battery. Poster presented at the American Psychological Association Conference, Chicago, IL. (\*natp)

50. **Vance, D. E.** (September, 2002). Cultural aspects of mental illness: Implications for analysis and treatment. Invited speaker for the Abnormal Psychology Class for the Department of Psychology, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
51. **Vance, D. E.,** Edwards. J. D., Rizzo, M., Ball, K. K., & Wadley, V. G. (August, 2002). Physical activity on cognitive health in older adults. Poster presented at the Center for Aging Conference, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
52. **Vance, D. E.,** Edwards. J. D., Rizzo, M., Ball, K. K., & Wadley, V. G. (August, 2002). Speed of processing on training older adults. Poster presented at the Center for Aging Conference, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
53. **Vance, D. E.,** Edwards. J. D., Ball, K. K., & Wadley, V. G. (August, 2002). Predicting successful cognitive aging. Poster presented at the Center for Aging Conference, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
54. Ball, K. K., Roenker, D. L., Wadley, V. G., Edwards, J. D., & **Vance, D. E.** (August, 2002). Field evaluation of a brief driver assessment battery in older adults. Poster presented at the Center for Aging Conference, University of Alabama at Birmingham, Birmingham, AL. (\*locp)
55. **Vance, D. E.** (November, 2002). Sexual transitions and sexual development. Paper presented at the Developmental Psychology Class, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
56. \*Wadley, V. G., Ball, K. K., & **Vance, D. E.** (November, 2002). Implications for driver assessment and rehabilitation. Paper presented at the International Society of Gerontechnology Conference, Miami, FL. (\*natp)
57. \*Edwards, J. D., Wadley, V. G., Ball, K. K., & **Vance, D. E.** (November, 2002). Demographic variables do not predict gains resulting from speed-of-processing training. Paper presented at the International Society of Gerontechnology Conference, Miami, FL. (\*natp)
58. \***Vance, D. E.,** Edwards, J. D., Ball, K. K., Wadley, V. G., & Frankel, M. S. (November, 2002). Accelerate: Impact of speed of processing training on cognition and driving performance. Paper presented at the Gerontological Society of America Conference, Boston, MA. (\*fanatp)
59. \*Wadley, V., Edwards, J., Ball, K., & **Vance, D.** (November, 2002). Demographic factors do not predict speed-of-processing training gains. Paper presented at the Gerontological Society of America Conference, Boston, MA. (\*natp)

60. \*Edwards, J. D., Ball, K. K., Wadley, V. G., Wood, K. M., & **Vance, D. E.** (November, 2002). SKILL: Impact of speed of processing training on cognitive and everyday performance. Paper presented at the Gerontological Society of America Conference, Boston, MA. (\*natp)
61. **Vance, D. E.**, Edwards, J. D., Ball, K. K., Wadley, V. G., & Frankel, M. S. (November, 2002). The Accelerate Project: Impact of speed of processing training on cognition and driving. Paper presented at the UAB Center for Aging Conference, Birmingham, AL. (\*falocp)
62. Wadley, V., Edwards, J., Ball, K., & **Vance, D.** (November, 2002). Demographic factors that predict speed-of-processing training gains. Paper presented at the UAB Center for Aging Conference, Birmingham, AL. (\*locp)
63. Edwards, J. D., Ball, K. K., Wadley, V. G., Wood, K. M., & **Vance, D. E.** (November, 2002). The SKILL Project: Impact of speed-of-processing training on cognitive and everyday performance. Paper presented at the UAB Center for Aging Conference, Birmingham, AL. (\*locp)
64. **Vance, D. E.** (March, 2003). Psychological aspects of aging with HIV. Paper to the Center for Nursing Research Seminar Series, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
65. \***Vance, D. E.**, Ball, K. K., Edwards, J. D., Wadley, V. G., & Rizzo, M. (March, 2003). The effect of speed of processing on cognitive and driving performance. Paper presented at the American Society on Aging Conference, Chicago, IL. (\*fanatp)
66. \***Vance, D. E.** (March, 2003). The psychological effects of aging with HIV. Paper presented at the American Society on Aging Conference, Chicago, IL. (\*fanatp)
67. \***Vance, D. E.**, Edwards, J. D., Ball, K. K., & Wadley, V. G. (March, 2003). What predicts successful cognitive aging in elders? Poster presented at the American Society on Aging Conference, Chicago, IL. (\*fanatp)
68. \***Vance, D. E.**, Edwards, J. D., Wadley, V. G., Ball, K. K., & Wood, K. M. (March, 2003). Exploring the role of sensory function on cognitive decline. Poster presented at the American Society on Aging Conference, Chicago, IL. (\*fanatp)
69. **Vance, D. E.** (March, 2003). Psychoneuroimmunological overlap of aging and HIV. Paper presented at Issues in Gerontology Class, Birmingham, AL. (\*falocp)
70. **Vance, D. E.** (April, 2003). Psychology of aging with HIV. Poster presented at the UAB Postdoctoral Research Day, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)

71. **\*Vance, D. E.**, Ball, K. K., Wadley, V. G., & Edwards, J. D. (May, 2003). Speed of processing training in community-dwelling older adults. Poster presented at the American Psychological Society Conference, Atlanta, GA. (*\*fanatp*)
72. **\*Vance, D. E.**, Edwards, J. D., Wadley, V. G., & Ball, K. K. (May, 2003). Competing hypotheses on cognitive vitality and physical activity in older adults. Poster presented at the American Psychological Society Conference, Atlanta, GA. (*\*fanatp*)
73. **\*Vance, D. E.**, Ball, K. K., Wadley, V. G., & Edwards, J. D. (May, 2003). Factors predicting physical activity in older adults. Poster presented at the American Psychological Society Conference, Atlanta, GA. (*\*fanatp*)
74. **Vance, D. E.** (May, 2003). Aging with HIV: Trends and implications. Paper presented at the UAB Center for Aging Seminar, Birmingham, AL. (*\*falocp*)
75. **Vance, D. E.** (July, 2003). Sexual development across the lifespan. Invited speaker to the Developmental Psychology Class, Samford University, Birmingham, AL. (*\*falocp*)
76. **Vance, D. E.** (July, 2003). Moral development across the lifespan. Invited speaker to the Developmental Psychology Class, Samford University, Birmingham, AL. (*\*falocp*)
77. **\*Vance, D. E.**, Ball, K. K., Roenker, D. L., & Cissell, G. M. (August, 2003). Path analysis of driving exposure and avoidance in older adults. Poster presented to the American Psychological Association Conference, Toronto, Canada. (*\*faintp*)
78. **\*Vance, D. E.**, Wadley, V. G., Edwards, J. D., & Rizzo, M. (August, 2003). Competing hypotheses of physical activity on cognitive health in elders. Poster presented to the American Psychological Association Conference, Toronto, Canada. (*\*faintp*)
79. **\*Vance, D. E.**, Neidig, J., & Smith, B. (September, 2003). Cognitive aspects of aging with HIV: Examining potential pitfalls in the coming years. Invited speaker to the Department of Psychology Lecture Series, University of Auckland, Auckland, New Zealand. (*\*faintp*)
80. **Vance, D. E.** (September, 2003). Cultural considerations in conducting clinical assessment. Invited speaker to the Culture and Psychopathology Psychology Class, University of Alabama at Birmingham, Birmingham, AL. (*\*falocp*)
81. **Vance, D. E.**, Neidig, J., & Smith, B. (October, 2003). Psychological issues of aging with HIV: Challenges and strengths. Invited speaker to the Department of Psychology Lecture Series, University of Alabama, Tuscaloosa, AL. (*\*falocp*)

82. **Vance, D. E.** (November, 2003). Older drivers: A safety and mobility perspective. Invited speaker to the Developmental Psychology Class, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
83. **Vance, D. E.** (November, 2003). Rites of passage: Psychological development of sexual development. Invited speaker to the Developmental Psychology Class, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
84. **Vance, D. E.** (November, 2003). Diagnosis and treatment of anxiety across cultures. Invited speaker to the Culture and Psychopathology Psychology Class at the University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
85. **Vance, D. E.** (November, 2003). Psychosocial issues of sexual development across cultures. Invited speaker to the Culture and Psychopathology Psychology Class at the University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
86. **\*Vance, D. E., & Woodley, R.** (November, 2003). Cortical and subcortical aspects of aging with HIV. Poster presented to the Gerontological Society of America Conference, San Diego, CA. (\*fanatp)
87. **\*Vance, D. E., Darling, L., Wadley, V., Edwards, J. D., Noles, N. S., & Ball, K. K.,** (November, 2003). Unanticipated benefits of a social contact control group: Internet training. Paper presented to the Gerontological Society of America Conference, San Diego, CA. (\*fanatp) (\*studconf)
88. **\*Edwards, J. D., Vance, D. E., Wadley, V., & K. Ball** (November, 2003). Choosing control groups for cognitive training studies. Paper presented to the Gerontological Society of America Conference, San Diego, CA. (\*natp)
89. **\*Ball, K., Wadley, V., Edwards, J. D., Vance, D. E., Roenker, D., & Cissell, G.** (November, 2003). Home based speed of processing training. Paper presented to the Gerontological Society of America Conference, San Diego, CA. (\*natp)
90. **Vance, D. E.** (January, 2004). Alzheimer's disease and driving safety. Paper presented to the UAB West Alzheimer's Support Group, Bessemer, AL. (\*falocp)
91. **Ball, K. K., Wadley, V. G., Edwards, J. D., Vance, D. E., & Roenker, D. L.** (January, 2004). The impact of cognitive training on mobility-related cognitive and everyday functions. Paper presented at the Transportation Advisory Board, Washington, DC. (\*natp)
92. **Vance, D. E.** (February, 2004). Predictors of psychomotor decline in adults aging with HIV. Paper presented to the UAB Center for Nursing Research, Birmingham, AL. (\*falocp)

93. **Vance, D. E.** (March, 2004). Sexual rites of passage: Implications for developmental transitions. Paper presented to the Developmental Psychology Class, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
94. **Vance, D. E.** (March, 2004). Demographic concerns of aging with HIV: Implications for healthcare. Paper presented to the Psychology of Aging Class, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
95. **Vance, D. E., & Ball, K. K.** (March, 2004). Extending safe driving for older adults. Paper presented at the Alabama Gerontological Society Conference, Birmingham, AL. (\*falocp)
96. **Vance, D. E., Ball, K. K., Wadley, V. G., & Edwards, J. D.** (March, 2004). Impact of speed of processing training on cognition and driving performance. Invited speaker at Department of Psychology, Texas State University, San Marcos, TX. (\*falocp)
97. **Vance, D. E.** (April, 2004). Structural equation modeling for evaluating multiple hypotheses simultaneously. Paper presented to the Center for Aging Data Management Series, Birmingham, AL. (\*falocp)
98. **Vance, D. E.** (April, 2004). Portrait of aging and HIV: What to expect? Paper presented to the monthly meeting of Brother to Brother, Birmingham AIDS Outreach, Birmingham, AL. (\*falocp)
99. **\*Vance, D. E., & Woodley, R. A.** (April, 2004). The effects of age on psychomotor decline in adults with HIV. Paper presented to the Cognitive Aging Conference, Atlanta, GA. (\*fanatp)
100. **\*Vance, D. E., & Woodley, R. A.** (April, 2004). Perception of cognition in adults aging with HIV. Paper presented to the Cognitive Aging Conference, Atlanta, GA. (\*fanatp)
101. **\*Vance, D. E., Ball, K. K., Wadley, V. G., & Edwards, J. D.** (April, 2004). Extended and standard speed training schedules produce equivalent gains. Paper presented to the Cognitive Aging Conference, Atlanta, GA. (\*fanatp)
102. **\*Vance, D. E.** (April, 2004). Cortical and subcortical cognitive aging with HIV. Paper presented to the American Society on Aging Conference, San Francisco, CA. (\*fanatp)
103. **\*Vance, D. E.** (April, 2004). Predictors of physical activity in older community-dwelling adults. Paper presented to the American Society on Aging Conference, San Francisco, CA. (\*fanatp)
104. **\*Vance, D. E.** (April, 2004). Challenging gerontological science and aging through science fiction. Paper presented to the American Society on Aging

Conference, San Francisco, CA. (\*fanatp)

105. \***Vance, D. E.** (April, 2004). The relationship of physical activity, health, depression, and social networks on cognitive vitality in older adults. Paper presented to the American Society on Aging Conference, San Francisco, CA. (\*fanatp)
106. \***Vance, D. E.** (April, 2004). The path less chosen: Spiritual gems of aging with HIV. Paper presented to the American Society on Aging Conference, San Francisco, CA. (\*fanatp)
107. \***Vance, D. E.**, Sims, R., Myles, T., & Ball, K. K. (May, 2004). Physiological and psychosocial predictors of speed of processing in older community-dwelling adults. Poster presented to the American Geriatrics Society Conference, Las Vegas, NV. (\*fanatp)
108. \***Vance, D. E.**, Sims, R., Myles, T., & Ball, K. K. (May, 2004). Medical and psychosocial predictors of falling and balance in community-dwelling older adults. Poster presented to the American Geriatrics Society Conference, Las Vegas, NV. (\*fanatp)
109. \***Vance, D. E.** (July, 2004). Examination of spirituality in adults aging with HIV. Role of Families in Preventing and Adapting to HIV/AIDS Conference, NIMH Sponsor, Atlanta, GA. (\*fanatp)
110. \***Vance, D. E.**, & Cissell, G. (July, 2004). Causal paths of driving avoidance and exposure in older drivers. Paper presented to the American Psychological Association Conference, Honolulu, HI. (\*fanatp)
111. \*Wadley, V. G., **Vance, D. E.**, & Edwards, J. D. (July, 2004). Possible MCI produces mobility risk potentially amenable to training. Paper presented to the American Psychological Association Conference, Honolulu, HI. (\*natp)
112. \***Vance, D. E.**, & Woodley, R. (July, 2004). Effects of age on psychomotor decline in adults with HIV. Poster presented to the American Psychological Association Conference, Honolulu, HI. (\*fanatp)
113. \*Blanshan, S. A., Antia, L. A., Bodner, E. V., Daniel, K. C., Hiers, B. A., Smith, B. A., & **Vance, D. E.** (July, 2004). Assessing HIV/AIDS consumer needs in the southern United States. Poster presented to the XV International AIDS Conference, Bangkok, Thailand. (\*intp)
114. \*Ball, K., Wadley, V., Edwards, J., **Vance, D.**, Roenker, D., & Cissell, G. (September, 2004). Increasing older adults mobility through cognitive training. Paper presented to the North American Conference on Elderly Mobility: Best Practice from Around the World, Detroit, MI. (\*natp)

115. **Vance, D. E.** (September, 2004). The effects of age and HIV on psychomotor ability. Poster presented to University of Alabama at Birmingham Center for Aging Conference, Birmingham, AL. (\*falocp)
116. **Vance, D. E.** (September, 2004). Perceptions of cognitive, physical, and emotional changes in adults aging with HIV. Poster presented to the University of Alabama at Birmingham Center for Aging Conference, Birmingham, AL. (\*falocp)
117. **Vance, D. E.** (September, 2004). Structural equation modeling of driving avoidance and exposure in older adults. Poster presented to the University of Alabama at Birmingham Center for Aging Conference, Birmingham, AL. (\*falocp)
118. **Vance, D. E.** (September, 2004). The effects of sedentary behavior and physical activity on cognitive health in older adults. Poster presented to the University of Alabama at Birmingham Center for Aging Conference, Birmingham, AL. (\*falocp)
119. **Vance, D. E.** (October, 2004). Cognition and everyday functioning in adults aging with HIV. Paper presented to the Center for Aging Seminar Series, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
120. **Vance, D. E.** (November, 2004). Coming of age: Sexual rites of passage. Paper presented to the Developmental Psychology class, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
121. **Vance, D. E.** (November, 2004). Cognitive implications of aging with HIV. Grand Rounds of UAB Medical School - Infectious Disease, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
122. **\*Vance, D. E.** (November, 2004). The effects of HIV, years diagnosed, and age on psychomotor performance. Paper presented to the Gerontological Society of America Conference, Washington, DC. (\*fanatp)
123. **\*Vance, D. E., & Woodley, R. A.** (November, 2004). Perceptions of cognition and aging in adults adult with HIV. Paper presented to the Gerontological Society of America Conference, Washington, DC. (\*fanatp)
124. **\*Ball, K. K., Wadley, V. G., Vance, D. E., & Edwards, J. D.** (November, 2004). Adapting to declining health and function in older age: Impact on mobility and quality of life. Paper presented to the Gerontological Society of America Conference, Washington, DC. (\*natp)
125. **\*Ball, K. K., Wadley, V. G., Edwards, J. D., & Vance, D. E.** (November, 2004). Cognitive function and measures of everyday mobility. Paper presented to the Gerontological Society of America Conference, Washington, DC. (\*natp)



126. **Vance, D. E., & Crowe, M.** (November, 2004). How to publish in science and academia. Paper presented to the Cognitive Neuroscience Class, Department of Psychology, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
127. **Vance, D. E.** (January, 2005). Cultural paradigms and mental illness. Paper presented to the Cultural and Mental Illness Class, Department of Psychology, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
128. **Vance, D. E.** (January, 2005). The graying of HIV: Implications of a Growing Population. Paper presented at the UAB Geriatric Grand Rounds, University of Alabama at Birmingham Hospital, Birmingham, AL. (\*falocp)
129. **Vance, D. E.** (March, 2004). Cognitive aging and HIV: Results of a Pilot Study. Paper presented at the UAB School of Nursing Scientific Series, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
129. **\*Vance, D. E.** (March, 2005). Implications of chemosensory declines in aging with HIV. Paper presented to the American Society on Aging Conference, Philadelphia, PA. (\*fanatp)
130. **\*Vance, D. E., Antia, L., Bodner, E., Smith, B., Hiers, K., & Blanshan, S.** (March, 2005). Patterns of recreational drug in older adults with HIV: Results of a state-wide survey. Paper presented to the American Society on Aging Conference, Philadelphia, PA. (\*fanatp)
131. **\*Vance, D. E., Antia, L., Bodner, E., Smith, B., Hiers, K., & Blanshan, S.** (March, 2005). Aging trends in state-wide sample of HIV-positive adults. Paper presented to the American Society on Aging Conference, Philadelphia, PA. (\*fanatp)
132. **\*Vance, D. E., Antia, L., Bodner, E., Smith, B., Hiers, K., & Blanshan, S.** (March, 2005). Housing patterns in adults aging with HIV: Results from a state-wide survey. Paper presented to the American Society on Aging Conference, Philadelphia, PA. (\*fanatp)
133. **\*Vance, D. E.** (March, 2005). Perceptions of cognitive vitality and aging in HIV-positive and HIV-negative adults. Paper presented to the American Society on Aging Conference, Philadelphia, PA. (\*fanatp)
134. **\*Vance, D. E.** (March, 2005). Sleep patterns in aging with HIV. Paper presented to the American Society on Aging Conference, Philadelphia, PA. (\*fanatp)
135. **\*Vance, D. E.** (March, 2005). Strengths and barriers of conducting research in aging with HIV. Paper presented to the American Society on Aging Conference, Philadelphia, PA. (\*fanatp)
136. **Vance, D. E.** (March, 2005). What does it mean to age with HIV? Paper

presented to the Psychology of Aging Class, Department of Psychology,  
University of Alabama at Birmingham, Birmingham, AL. (\*falocp)

137. **Vance, D. E.** (April, 2005). Applied research in Gerontology. Paper presented to the Psychology of Aging Class, Department of Psychology, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
138. \*Ball, K., Roenker, D., Wadley, V., Cissell, G., Matthews, M., Ball, D., Benz, D., **Vance, D.**, Frankel, M., & McConnell, K. (May, 2005). Longitudinal assessment of older drivers in a DMV setting. Paper presented to the Third International Driving Symposium on Human Factors in Driver Assessment, Training, and Vehicle Design, Rockport, MA. (\*intp)
139. \***Vance, D. E.**, Sims, R., & Ball, K. K. (May, 2005). Speed of processing training in older veteran drivers. Paper presented to the American Geriatrics Society Conference, Washington, DC. (\*fanatp)
140. \***Vance, D. E.** (July, 2005). The effects of aging on awareness of cognitive vitality in HIV-positive adults. Paper presented to the 16<sup>th</sup> Biennial Meeting of the International Society for Sexually Transmitted Diseases Research, Amsterdam, Netherlands. (\*faintp)
141. **Vance, D. E.** (September, 2005). Spirituality of aging with HIV: A pilot study. Paper presented to the UAB Center for Aging Conference, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
142. **Vance, D. E.**, Okonkwo, O., Antia, L., Smith, B., Blanshan, S., Heirs, K., & Bodner, E. (September, 2005). Age and cognitive complaints in adults with HIV: A structural equation model analysis. Paper presented to the UAB Center for Aging Conference, University of Alabama at Birmingham, Birmingham, AL. (\*falocp) (\*studconf)
143. **Vance, D. E.** (October, 2005). Understanding the spiritual interaction of aging with HIV. Presented to the Religion, Spirituality, and Health Research Working Group, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
144. **Vance, D. E.** (October, 2005). Aging, HIV, and spirituality. Paper presented at the UAB Center for Aging Noon Conference, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
145. **Vance, D. E.** (October, 2005). Cultural perspectives of anxiety. Invited speaker to the Culture and Psychopathology Psychology Class at the University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
146. \*Sims, R., **Vance, D.**, & Ball, K. (November, 2005). Biomarkers of speed of processing training gains in older adults. Paper presented to the Gerontological

- Society of American Conference, Orlando, FL. (\*natp)
147. \*Ball, K., Benz, R., & **Vance, D.** (November, 2005). Past, present, and future of translational research benefiting older drivers. Paper presented to the Gerontological Society of American Conference, Orlando, FL. (\*natp) (\*studconf)
  148. \***Vance, D. E.** (November, 2005). The effects of age and HIV on sleep patterns. Paper presented to the Gerontological Society of America Conference, Orlando, FL. (\*fanatp)
  149. \***Vance, D. E.**, Antia, L., & Blanshan, S. (November, 2005). Recreational drug use in older adults with HIV. Paper presented to the Gerontological Society of America Conference, Orlando, FL. (\*fanatp)
  150. \***Vance, D. E.**, Antia, L., & Blanshan, S. (November, 2005). Financial and medical utilization in older adults with HIV. Paper presented to the Gerontological Society of America Conference, Orlando, FL. (\*fanatp)
  151. \***Vance, D. E.**, Antia, L., & Blanshan, S. (November, 2005). Housing patterns in older adults with HIV. Paper presented to the Gerontological Society of America Conference, Orlando, FL. (\*fanatp)
  152. \*Beauchamp, M. A., MaloneBeach, E. E., & **Vance, D.** (November, 2005). Depression, loneliness, and stigma in aging persons living with and without HIV/AIDS. Paper presented to the Gerontological Society of American Conference, Orlando, FL. (\*fanatp)
  153. Burrage, J. W., & **Vance, D. E.** (December, 2005). Establishing an interdisciplinary program of scholarship. Paper presented at the UAB School of Nursing Noon Conference, University of Alabama at Birmingham, Birmingham, AL. (\*locp)
  154. **Vance, D. E.** (January, 2006). Developmental psychology overview. Lecture presented to the Developmental Psychology Class, Department of Psychology, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
  155. **Vance, D. E.** (January, 2006). Psychopathology and culture overview. Lecture presented to the Developmental Psychology Class, Department of Psychology, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
  156. \***Vance, D. E.** (March, 2006). Cognitive remediation therapy for older adults: A review. Paper presented to the American Society on Aging Conference, Anaheim, CA. (\*fanatp)
  157. \***Vance, D. E.** (March, 2006). The importance of HIV chronicity on research, service utilization, and aging. Paper presented to the American Society on Aging

- Conference, Anaheim, CA. (*\*fanatp*)
158. **\*Vance, D. E.** (March, 2006). Structural equation model of cognitive complaints in adults aging with HIV. Paper presented to the American Society on Aging Conference, Anaheim, CA. (*\*fanatp*)
159. **\*Vance, D. E.** (March, 2006). Recreational drug use in older adults with HIV. Paper presented to the American Society on Aging Conference, Anaheim, CA. (*\*fanatp*)
160. **\*Vance, D. E., & Yelena, G.** (March, 2006). Aging with HIV – an epidemic goes gray. Chaired symposium presented to the American Society on Aging Conference, Anaheim, CA. (*\*fanatp*) (*\*chs*)
161. **Vance, D. E.** (March, 2006). Growing older with HIV. Paper presented to the Psychology of Aging Class, Department of Psychology, University of Alabama at Birmingham, Birmingham, AL. (*\*falocp*)
162. **\*Beauchamp, M. A., MaloneBeach, E. E., & Vance, D.** (March, 2006). Depression, loneliness, and stigma in aging persons living with and without HIV. Paper presented to the American Society on Aging Conference, Anaheim, CA. (*\*natp*)
163. **Vance, D. E.** (June, 2006). HIV and growing older: Implications for a positive life. Keynote speaker at the Area Agency on Aging Annual Meeting, Birmingham Botanical Gardens, Birmingham, AL. (*\*falocp*)
164. **Vance, D.** (August, 2006). Cognitive remediation therapy for use in older adults: An overview. Paper presented at the UAB School of Nursing Noon Conference, University of Alabama at Birmingham, Birmingham, AL. (*\*falocp*)
165. **\*Vance, D. E., Antia, L. K., & Blanshan, S. A.** (August, 2006). Predictors of cognitive complaints in adults with HIV. Poster presented to the American Psychological Association Conference, New Orleans, LA. (*\*fanatp*)
166. **\*Vance, D. E.** (August, 2006). Religiosity on biopsychosocial outcomes in adults with HIV. Paper presented to the American Psychological Association Conference, New Orleans, LA. (*\*fanatp*)
167. **Dashiff, C., & Vance, D.** (August, 2006). A SEM of Family Process Influences on Self Care in Adolescents with Diabetes. Paper presented at the UAB School of Nursing Noon Conference, University of Alabama at Birmingham, Birmingham, AL. (*\*locp*)
169. **Vance, D. E.** (August, 2006). Cultural perspectives of mental illness. Invited speaker to the Culture and Psychopathology Psychology Class at the University of Alabama at Birmingham, Birmingham, AL. (*\*falocp*)

170. **Vance, D. E.** (October, 2006). Aging with HIV: What does it mean for Alabama? Alabama Family Conference, Huntsville, AL. (\*falocp)
171. **\*Vance, D. E.** (November, 2006). Cognitive complaints in adults aging with HIV: A structural equation model. Paper presented to the Gerontological Society of America Conference, Dallas, TX. (\*fanatp)
172. **\*Vance, D. E.** (November, 2006). Spirituality and coping in adults with HIV: Implications for successful aging. Paper presented to the Gerontological Society of America Conference, Dallas, TX. (\*fanatp)
173. **Vance, D. E.** (March, 2007). Aging with HIV: Implications for a growing population. Alabama Gerontological Society, Montgomery, AL. (\*falocp)
174. **\*Vance, D. E.** (March, 2007). Hardiness, successful aging, and HIV: Implications for health care providers. Paper presented to the American Society on Aging Conference, Chicago, IL. (\*fanatp)
175. **\*Vance, D. E.** (March, 2007). A review of metacognition in aging with HIV. Paper presented at the American Society on Aging Conference, Chicago, IL. (\*fanatp)
176. **\*Vance, D. E.** (March, 2007). Spiritual expressions of coping in adults with HIV: Implications for successful aging. Paper presented at the American Society on Aging Conference, Chicago, IL. (\*fanatp)
177. **\*Vance, D. E.** (March, 2007). Effects of age and religiosity on biopsychosocial outcomes in adults with HIV. Paper presented to the American Society on Aging Conference, Chicago, IL. (\*fanatp)
178. **\*Vance, D. E.** (March, 2007). Cognitive remediation therapy: Advances for improving neuropsychological vitality in older adults. Paper presented to the American Society on Aging Conference, Chicago, IL. (\*fanatp)
179. **\*Vance, D. E.** (March, 2007). Procedural and Emotional Religious Activity Therapy (PERAT) for adults with dementia. Paper presented to the American Society on Aging Conference, Chicago, IL. (\*fanatp)
180. **Vance, D. E.** (April, 2007). Biopsychosocial functioning in adults aging with HIV. Invited speaker the Psychology of Aging class in the Department of Psychology at the University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
181. **Vance, D. E.** (April, 2007). Cognitive and everyday functioning in adults aging with HIV. Speech given to the School of Nursing Scientific Seminar, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)

182. \*Rector, R. V., Andrews, W. W., **Vance, D. E.**, Copper, R., & Biasini, F. J. (May 2007). Maternal characteristics associated with language outcomes of very premature children. Paper presented to the American Psychological Society, Washington, DC. (\*natp) (\*studconf)
183. George, L. & **Vance, D. E.** (June, 2007). Stigmatization and health-outcomes in older Lesbians. Speech given to the Center for Aging, University of Alabama at Birmingham, Birmingham, AL. (\*locp) (\*studconf)
184. Durham, E., & **Vance, D.** (August 2007). Driving, mild cognitive impairment, and dementia: Implications of the MILES Study. Presentation at the UAB West Hospital Alzheimer's Support Group, Bessemer, AL. (\*locp)
185. **Vance, D. E.** (September 2007). Aging with HIV: Implications for older gay men. Invited speaker to the Day of Equality Conference, Birmingham, AL. (\*falocp)
186. **Vance, D. E.** (September 2007). Spiritual expressions of coping in adults with HIV: Implications for successful aging. Poster presented at the Alabama State Nurses Association Conference, Birmingham, AL. (\*falocp)
187. **Vance, D. E.**, Antia, L., & Blanshan, S. (September 2007). Spirituality and coping in adults with HIV: Implications for successful aging. Poster presented at the Alabama State Nurses Association Conference, Birmingham, AL. (\*falocp)
188. **Vance, D. E.** (October, 2007). Diversity and rites of passage. Invited speaker to the Culture and Psychopathology Class, Department of Psychology, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
189. \***Vance, D. E.**, Ball, K. K., Wadley, V. G., & Crowe, M. (October 2007). The effects of memory, reasoning, and speed of processing on falls in community-dwelling older adults. Poster presented to the Annual University of Alabama Center for Aging Conference, Birmingham, AL. (\*falocp)
190. \*Ackerman, M., Antia, L., Hiers, K., Blanshan, S., Smith, B., & **Vance, D.** (October 2007). The effects of aging on the role of religiosity in mediating biopsychosocial outcomes indifferent groups with HIV: A SEM comparison study. Poster presented to the Annual University of Alabama Center for Aging Conference, Birmingham, AL. (\*locp) (\*studconf)
191. \*Hill, B., **Vance, D. E.**, Okonkwo, O., Wadley, V. G., & Ball, K. K. (October 2007). The mitigating effects of depressive symptoms and social support between physical activity and cognitive functioning. Poster presented to the Annual University of Alabama Center for Aging Conference, Birmingham, AL. (\*locp) (\*studconf)
192. \*George, L., & **Vance, D. E.** (October 2007). Do older Lesbians exhibit greater

- hardiness than younger Lesbians? Poster presented to the Annual University of Alabama at Birmingham Center for Aging Conference, Birmingham, AL. (\*locp) (\*studconf)
193. \***Vance, D. E.**, Lee, S. K., South, J. L., Ball, K. K (November, 2007). Neurocognitive impairment and everyday functioning in older HIV patients. Invited speaker to the Gerontological Society of America Conference, San Francisco, CA. (\*fanatp) (\*studconf)
194. \*Wadley, V. G., Okonkwo, O., Crowe, M., **Vance, D. E.**, Ball, K. K., & Elgin, J. W. (November, 2007). A controlled study of driving performance in individuals with Mild Cognitive Impairment. Paper presented to the Gerontological Society of America, San Francisco, CA. (\*natp) (\*studconf)
195. \*Perkins, M., Roth, D. L., Eaves, Y. D., **Vance, D. E.**, Sawyer, P., & Allman, R. A. (November 2007). Association between family caregiving and life-space mobility and psychological distress. Poster presented at the Gerontological Society of America Conference, San Francisco, CA. (\*natp) (\*studconf)
196. \*Hill, B., **Vance, D. E.**, Okonkwo, O., Wadley, V. G., & Ball, K. K. (November, 2007). The mitigating effects of depressive symptoms and social support between physical activity and cognitive functioning. Paper presented to the Gerontological Society of America, San Francisco, CA. (\*natp) (\*studconf)
197. \***Vance, D.**, Lee, S., South, J., Ball, K., & Wadley, V. (November, 2007). The impact of age and HIV status on psychological well-being and vigor. Paper presented to the Gerontological Society of America, San Francisco, CA. (\*fanatp) (\*studconf)
198. \*Ross, L., Ackerman, M. L., Edwards, J. D., Okonkwo, O., **Vance, D. E.**, & Ball, K. (November, 2007). Self-rated driving ability and crash risk among older drivers. Paper presented to the Gerontological Society of America, San Francisco, CA. (\*natp) (\*studconf)
199. \*Ackerman, M., Antia, L., Hiers, K., Blanshan, S., Smith, B., & **Vance, D.** (November 2007). The effects of aging on the role of religiosity in mediating biopsychosocial outcomes in different groups with HIV: A SEM comparison study. Paper presented to the Gerontological Society of America, San Francisco, CA. (\*natp) (\*studconf)
200. **Vance, D. E.** (January, 2008). Implications of aging with HIV: Directions for the future. Paper presented to the Developmental Psychology Class, Department of Psychology, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
201. **Vance, D. E.** (February, 2008). HIV, aging, and spirituality. Paper presented to the UAB Religion/Spirituality in Health Research Work Group Meeting, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)

202. \*Brethor, M. K., Kang, D. H., & **Vance, D. E.** (February 2008). The effect of C-reactive protein, Lp-PLA2 and depression on health outcomes in patients experiencing a first-time stroke. Poster presented at the annual American Stroke Association conference. (\*natp) (\*studconf)
203. \*Viamonte, S. M., Benz, R., **Vance, D.**, Ross, L., Crowe, M., Wadley, V. G., Edwards, J. D., & Ball, K. K. (February, 2008). A longitudinal evaluation of demographic, functional, and cognitive factors that predict self-reported falls in older adults. 2<sup>nd</sup> International Congress on Gait & Mental Function, Amsterdam, Netherlands. (\*intp) (\*studconf)
204. \*Long, C. A., Vance, D. E., & Antia, L. A. (February 2008). Empowerment and sexual decisions among HIV-positive African American women. Poster presented at the Southern Nursing Research Society, Birmingham, AL. (\*natp) (\*studconf)
205. \*Benz, R., **Vance, D. E.**, Ross, L., Crowe, M., Wadley, V. G., Edwards, J. D., & Ball, K. K. (February 2008). The influence of memory, reasoning, and speed of processing on falling in community-dwelling older adults over two years. Poster presented at the Southern Nursing Research Society, Birmingham, AL. (\*natp) (\*studconf)
206. \*Dashiff, C., **Vance, D. E.**, & Abdullatif, H. (February 2008). Parenting, cognitive autonomy and self-care of adolescents with Type 1 Diabetes. Paper presented at the Southern Nursing Research Society, Birmingham, AL. (\*natp)
207. \*Ross, L. A., Ball, K. K., **Vance, D. E.**, Rizzo, M., & Wadley, V. G. (February 2008). Predicting individual physical activities in community-dwelling older adults. Paper presented at the Southern Nursing Research Society, Birmingham, AL. (\*natp) (\*studconf)
208. \*Raper, J. L., & **Vance, D. E.** (February 2008). Cognitive impairment and everyday functioning in older adults with HIV. Paper presented at the Southern Nursing Research Society, Birmingham, AL. (\*natp)
209. \*Ackerman, M., **Vance, D. E.**, & Farr, K. (February 2008). Religiosity and biopsychosocial outcomes in HIV: A SEM comparison of gender, race, and sexual orientation. Paper presented at the Southern Nursing Research Society, Birmingham, AL. (\*natp) (\*studconf)
210. \***Vance, D. E.**, Ball, K. K., & Wadley, V. G. (February 2008). The effects of age and HIV status on vigor and psychological well-being. Paper presented at the Southern Nursing Research Society, Birmingham, AL. (\*fanatp)
211. \***Vance, D. E.**, Ball, K. K., Wadley, V. G., & Hill, B. (February 2008). The mitigating effects of physical activity and depressive symptomatology on cognition in older adults. Paper presented at the Southern Nursing Research



- Society, Birmingham, AL. (*\*fanatp*) (*\*studconf*)
212. \*George, L., **Vance, D. E.**, & Farr, K. (February 2008). Stigmatization and health-outcomes in older lesbians. Poster presented at the Southern Nursing Research Society, Birmingham, AL. (*\*natp*) (*\*studconf*)
  213. Cuevas, J., **Vance, D.**, & Viamonte, S. (April 2008). A comparison of spirituality and religiosity in older and younger adults with and without HIV. University of Alabama at Birmingham Expo, Birmingham, AL. (*\*locp*) (*\*studconf*)
  214. \***Vance, D. E.** (March, 2008). The effects of cognitive impairment on everyday functioning in older adults with HIV. Poster presented to the American Society on Aging Conference, Washington, DC. (*\*fanatp*)
  215. \***Vance, D. E.** (March, 2008). Predictors of individual physical activities in community-dwelling older adults. Poster presented to the American Society on Aging Conference, Washington, DC. (*\*fanatp*)
  216. \***Vance, D. E.** (March, 2008). Advances in cognitive remediation therapy for older adults. Paper presented to the American Society on Aging Conference, Washington, DC. (*\*fanatp*)
  217. \***Vance, D. E.**, & George, L. (March, 2008). Health-outcomes and stigmatization in older lesbians. Poster presented to the American Society on Aging Conference, Washington, DC. (*\*fanatp*) (*\*studconf*)
  218. Long, C. A., **Vance, D. E.**, & Antia, L. A. (March, 2008). The relationship of empowerment and sexual decision-making among HIV-positive African American women. Podium session presented at the annual forum of the UAB Graduate Student Research Days Competition, Birmingham, AL. (*\*locp*) (*\*studconf*)
  219. \*Long, C. A., **Vance, D. E.**, & Antia, L. A., (April, 2008). The relationship of empowerment and sexual decision-making among HIV-positive African American women. Podium session presented at the annual conference of the first African American Studies Program, Temple University, Philadelphia, PA. (*\*natp*) (*\*studconf*)
  220. \***Vance, D. E.**, Wadley, V. G., & Ball, K. K. (April, 2008). Cognitive and everyday functioning in older and younger adults with and without HIV. Poster presented at the Cognitive Aging Conference, Atlanta, GA. (*\*fanatp*)
  221. \***Vance, D. E.**, Ross, L., Wadley, V., Crowe, M., Edwards, J., & Ball, K. (April, 2008). The effects of reasoning, memory, and speed of processing on falling in community-dwelling older adults. Poster presented at the Cognitive Aging Conference, Atlanta, GA. (*\*fanatp*) (*\*studconf*)
  222. Cuevas, J., **Vance, D.**, & Viamonte, S. (April, 2008). A comparison of spirituality

- and religiosity in older and younger adults with and without HIV. Poster presented to the University of Alabama at Birmingham (UAB) Expo, Birmingham, AL. (\*locp) (\*studconf)
223. \*Ackerman, M. L., Trent, L. K., **Vance, D. E.**, & Ball, K. K. (May, 2008). Feedback and subsequent self-restriction among older drivers. Poster presented to the American Psychological Society, Chicago, IL. (\*fanatp) (\*studconf)
224. **Vance, D. E.** (May, 2008). Aging with HIV: Welcome prognosis, unwelcome challenges. UAB Center for Aging Scientific Series, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
225. \*Umlauf, M., & **Vance, D.** (June, 2008). Sleep quality in lower income adults with HIV. Paper presented at the National Sleep Conference, Baltimore, MD. (\*natp)
226. \*Chasens, E. R., **Vance, D. E.**, Williams, L. L., & Umlauf, M. G. (June, 2008). Sleep disturbances, mood and nocturia in community dwelling elders in the US and Germany. Paper presented at the National Sleep Conference, Baltimore, MD. (\*natp) (\*studconf)
227. **Vance, D. E.** (July 2008). Aging with HIV: Implications for nursing practice and research. Guest speaker to the Accelerated MSN (NUR 504), School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
228. \*Blanshan, S., Smith, B., Kiama, B., Hiers, K., Antia, L., Bausell, B., Park, J. H., & **Vance, D. E.** (August, 2008). Developing an assessment instrument for health care workers on housing, nutrition and transportation issues among people living with HIV/AIDS (PLWHAS) in Sub-Saharan Africa. XVII International AIDS Conference, Mexico City, Mexico. (\*intp)
229. **Vance, D. E.**, Ross, L., Wadley, V. G., Crowe, M., Edwards, J. D., & Ball, K. K. (August, 2008). The effects of reasoning, memory, and speed of processing on falling in community-dwelling older adults. Poster presented at the UAB Center for Aging Conference, University of Alabama at Birmingham, Birmingham, AL. (\*falocp) (\*studconf)
230. **Vance, D. E.**, Wadley, V. G., & Ball, K. K. (August, 2008). Cognitive and everyday functioning in older and younger adults with and without HIV. Poster presented at the UAB Center for Aging Conference, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
231. **Vance, D. E.**, Lee, S., South, J., Ball, K., & Wadley, V. (August, 2008). The impact of age and HIV status on psychological well-being. Poster presented at the UAB Center for Aging Conference, University of Alabama at Birmingham, Birmingham, AL. (\*falocp) (\*studconf)

232. Eaves, Y. D., **Vance, D. E.**, Allman, R. M., Sawyer, P. L., Roth, D. L., & Perkin, M. (August, 2008). Effects of demographic factors on perceived social support and depression in African American and European American spousal caregivers. Poster presented at the UAB Center for Aging, University of Alabama at Birmingham, Birmingham, AL. (\*locp)
233. \*Brennan, M., & **Vance, D.** (August, 2008). Cognitive and everyday functioning in older and younger adults with and without HIV. American Psychological Association, Boston, MA. (\*natp)
234. \*Brennan, M., **Vance, D.**, Shippy, R. A., & Karpiak, S. E. (August, 2008). Stigma, spiritual abuse, and resilience among older adults with HIV. American Psychological Association, Boston, MA. (\*natp)
235. Long, C. A., **Vance, D. E.**, & Antia, L. A. (September, 2008). A descriptive study of empowerment and sexual decision-making in HIV-positive African American women in rural Alabama. Ninth Annual University of Alabama Rural Health Conference, Tuscaloosa, AL. (\*locp) (\*studconf)
236. \***Vance, D. E.**, Ross, L., Wadley, V. G., Crowe, M., Edwards, J. D., & Ball, K. K. (September, 2008). The effects of reasoning, memory, and speed of processing on falling in community-dwelling older adults. Poster presented at the Alabama State Nurses Association, University of Alabama, Tuscaloosa, AL. (\*falocp) (\*studconf)
237. \***Vance, D. E.**, Wadley, V. G., & Ball, K. K. (September, 2008). Cognitive and everyday functioning in older and younger adults with and without HIV. Poster presented at the Alabama State Nurses Association, University of Alabama, Tuscaloosa, AL. (\*falocp)
238. \***Vance, D. E.**, Lee, S., South, J., Ball, K., & Wadley, V. (September, 2008). The impact of age and HIV status on psychological well-being. Poster presented at the Alabama State Nurses Association, University of Alabama, Tuscaloosa, AL. (\*falocp) (\*studconf)
239. \*George, L., Ogletree, V., & **Vance, D. E.** (October, 2008). Disclosure of sexual identity to health care professionals: Do elderly Lesbians exhibit greater hardiness than younger Lesbians? Poster presented to SAGE's 4<sup>th</sup> National Conference on LGBT Aging, New York, NY. (\*natp) (\*studconf)
240. \*Holcomb, L., Buckner, E. B., & Vance, D. E. (October 2008). Integrating personal data assistants (PDAs) into nursing education. Presented at the Region 8 STTI Conference, Birmingham, AL. (\*locp)
241. **Vance, D. E.** (October, 2008). Developmental transitions within a cultural context. Invited speaker to the Department of Psychology's Culture and Psychopathology Class, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)

242. **Vance, D. E.** (October, 2008). Aging and HIV: The good, the bad, and the ugly. Invited speaker to the UAB Center for AIDS Research Seminar Series, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
243. \*Viamonte, S. M., Cuevas, J. E., Perkins, M. M., **Vance, D. E.**, Ball, K. K., & (November, 2008). The biopsychosocial factors associated with spirituality, aging, and HIV. Gerontological Society of America, American Harbor, MD. (\*natp) (\*studconf)
244. \*Eaves, Y. D., **Vance, D. E.**, Allman, R. M., Sawyer, P. L., Roth, D. L., & Perkins, M. (November, 2008). Effects of demographic factors on perceived social support and depression in African American and European American spousal caregivers. Gerontological Society of America, National Harbor, MD. (\*natp)
245. **Vance, D. E.** (February, 2009). Aging with HIV: The good, the bad, and the ugly. Invited speaker to the Department of Psychology's Aging Class, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
246. \*George, L. L., Ogletree, V. M., & **Vance, D. E.** (February, 2009). Are older lesbians harder than younger lesbians? A look at hardness and medical disclosure. Paper presented at the Association for Geriatrics in Higher Education, San Antonio, TX. (\*natp) (\*studconf)
247. \***Vance, D. E.**, & Ball, K. K. (February, 2009). Does memory, reasoning, and speed of processing affect falling among community-dwelling older adults? Poster/paper presented at the International Neuropsychological Society, Atlanta, GA. (\*faintp)
248. \***Vance, D. E.** (February, 2009). A comparison of cognitive and everyday functioning in younger and older adults with and without HIV. Poster/paper presented at the International Neuropsychological Society, Atlanta, GA. (\*faintp)
249. \***Vance, D. E.** (March, 2009). Suicidal ideation in adults with HIV. Paper/poster presented at the American Society on Aging conference, Las Vegas, NV. (\*fanatp)
250. \***Vance, D. E.** (March, 2009). Physical activity in mild cognitive impairment. Paper/poster presented at the American Society on Aging conference, Las Vegas, NV. (\*fanatp)
251. \***Vance, D. E.** (March, 2009). Spirituality of aging with HIV. Paper/poster presented at the American Society on Aging conference, Las Vegas, NV. (\*fanatp)
252. **Vance, D. E.** (April, 2009). Cognitive and everyday functioning in younger and older adults with and without HIV. Poster presented at the 2009 Alabama Gerontological Society, Birmingham, AL. (\*falocp)

253. \*George, L., & **Vance, D. E.** (April, 2009). Do older lesbians exhibit greater hardiness than younger lesbians? Poster presented at the 2009 Alabama Gerontological Society, Birmingham, AL. (\*locp) (\*studconf)
254. **Vance, D. E.** (April, 2009). Speed of processing training in African Americans and Caucasians: A pilot study. Podium presentation at the UAB Health Disparities Research Symposium, Birmingham, AL. (\*falocp)
255. **Vance, D. E.** (May, 2009). Neuropsychological deficits and cognitive training in adults with HIV. Paper presented at the Center for Nursing Research Seminar Series, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
256. \***Vance, D. E.** (May, 2009). Declines in cognitive and everyday functioning in adults aging with HIV. Poster presented at the 2009 Social Work HIV/AIDS Conference, New Orleans, LA. (\*fanatp)
257. \***Vance, D. E.** (May, 2009). Cognitive deficits that lead to suicidal ideation in adults aging with HIV. Poster presented at the 2009 Social Work HIV/AIDS Conference, New Orleans, LA. (\*fanatp)
258. \***Vance, D. E.** (May, 2009). The psychosocial impact of aging with HIV. Poster presented at the 2009 Social Work HIV/AIDS Conference, New Orleans, LA. (\*fanatp)
259. \*Williams, L. L., Pryor, E. R., Drentea, P., **Vance, D. E.**, & Umlauf, M. G. (2009). Factors associated with sleep disruption in the Health and Retirement Study. Sleep, 32: A123. (\*natp) (\*studconf)
260. **Vance, D. E.**, & Moneyham, L. (July, 2009). Scientific writing: Challenges and pitfalls. Discussion lead at the School of Nursing, Community, Health, and Outcome Systems Departmental Meeting, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
261. \*Fazeli, P. L., Marceaux, J. C., & Vance, D. E. (August, 2009). Aging with HIV: Predictors of neuropsychological functioning. Poster presented Center for Aging Annual Conference, University of Alabama at Birmingham, Birmingham, AL. (\*falocp) (\*studconf)
262. \***Vance, D. E.** (September, 2009). HIV and successful aging: An overview. Geriatric/Palliative Care Noon Conference, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
263. **Vance, D. E.**, Marceaux, J. C., Fazeli, P., McKie-Bell, P., & Ball, K. K. (October,

- 2009). Speed of processing training in older and younger adults with HIV: A pilot study. Centers for Clinical and Translational Science First Annual Conference, University of Alabama at Birmingham, Birmingham, AL. (\*falocp) (\*studconf)
264. **Vance, D. E.**, Fazeli, P. L., & Marceaux, J. C. (October, 2009). Predicting neuropsychological performance among HIV-positive aging adults. Alabama State Nurses Association Annual Conference, Florence, AL. (\*falocp) (\*studconf)
265. **Vance, D. E.**, Marceaux, J. C., Fazeli, P., McKie-Bell, P., & Ball, K. K. (October, 2009). Speed of processing training in older and younger adults with HIV: A pilot study. Alabama State Nurses Association Annual Conference, Florence, AL. (\*falocp) (\*studconf)
266. **Vance, D. E.**, Mugavero, M., Willig, J., Raper, J. L., & Saag, M. (October, 2009). Clinical characteristics and co-morbidity prevalence associated with aging with HIV. Alabama State Nurses Association Annual Conference, Florence, AL. (\*falocp)
267. **Vance, D. E.** (October, 2009). Project management in HIV research. CNR Faculty Research Seminar, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
268. \*Marceaux, J. C., Fazeli, P., & **Vance, D. E.** (November, 2009). Speed of processing training in adults with HIV: A pilot study. Paper presented at the 2009 National Academy of Neuropsychology, New Orleans, LA. (\*natp) (\*studconf)
269. \*Fazeli, P., Marceaux, J. C., & **Vance, D. E.** (November, 2009). Aging with HIV: Predictors of neuropsychological functioning. Paper presented at the 2009 National Academy of Neuropsychology, New Orleans, LA. (\*natp) (\*studconf)
270. \*Fazeli, P., Marceaux, J. C., & **Vance, D. E.** (November, 2009). Predictors of neuropsychological performance among HIV-positive aging adults. Paper presented at the 2009 Gerontological Society of America, Atlanta, GA. (\*natp) (\*studconf)
271. \***Vance, D. E.**, & Brennan, M. (November, 2009). Designing spiritual interventions for older adults with HIV: Overcoming stigma and activating spiritual resources. Paper presented at the 2009 Gerontological Society of America, Atlanta, GA. (\*fanatp)
272. \***Vance, D. E.**, Mugavero, M., Willig, J., Raper, J., & Saag, M. (November, 2009). Co-morbidity prevalence and clinical characteristics of aging with HIV. Paper presented at the 2009 Gerontological Society of America, Atlanta, GA. (\*fanatp)
273. \*Ackerman, M., Crowe, M., Wadley, V., **Vance, D.**, & Ball, K. (November, 2009). What factors influence the relationship between feedback on cognitive performance and subsequent driving self-regulation? Poster presented at the 2009 Gerontological Society of America, Atlanta, GA. (\*natp) (\*studconf)

274. \*O'Brien, T., Crowe, M., **Vance, D.**, Sawyer, P., & Allman, R. (November, 2009). Cognitive screening tools differentially predict IADL difficulty across levels of reading ability. Poster presented at the 2009 Gerontological Society of America, Atlanta, GA. (\*natp)
275. \*Eaves, Y., & **Vance, D.** (November, 2009). A long-term care decision-making instrument for rural African American family caregivers. Paper presented at the 2009 Gerontological Society of America, Atlanta, GA. (\*natp)
276. \*Blanshan, S., Smith, B., Kiama, B., Hiers, K., Antia, L., Bausell, B., Park, J. H., & **Vance, D.** (December, 2009). Developing a clinical tool to assess housing nutrition and transportation among PLWHAS in Sub-Saharan Africa. Paper presented at the 7th AMRN Biennial Scientific Conference Dar es Salaam, Tanzania. (\*intp)
277. \*Long, C. A., Marceaux, J. C., Fazeli, P. L., & **Vance, D. E.** (February, 2010). Improving speed of processing functioning in adults with HIV: A pilot study. Paper presented at the Southern Nursing Research Society, Austin, TX. (\*natp) (\*studconf)
278. \***Vance, D. E.**, Marceaux, J., & Fazeli, P. L. (February, 2010). Improving speed of processing in adults aging with HIV: A pilot study. Paper presented at the 2010 International Neuropsychological Society, Acapulco, Mexico. (\*faintp) (\*studconf)
279. \***Vance, D. E.**, Fazeli, P. L., & Marceaux, J. (February, 2010). Predictors of neuropsychological functioning in adults with HIV. Paper presented at the 2010 International Neuropsychological Society, Acapulco, Mexico. (\*faintp) (\*studconf)
280. **Vance, D. E.**, Mugavero, M., Willig, J., Raper, J., & Saag, M. (February, 2010). Clinical and psychological characteristics of adults with HIV by decade. Center for AIDS Research Data Management Meeting, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
281. **Vance, D. E.** (February, 2010). Aging with HIV: Implications of a growing clinical population. Invited speaker to the Psychology of Aging Class, Department of Psychology, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
282. \***Vance, D. E.**, Marceaux, J. C., Fazeli, P., McKie-Bell, P., & Ball, K. K. (February, 2010). Improving speed of processing in older and younger adults with HIV: A pilot training study. Poster/paper presented at the University of Alabama at Birmingham Geriatric Education Conference, Birmingham, AL. (\*falocp) (\*studconf)
283. \***Vance, D. E.**, Fazeli, P., & Marceaux, J. C. (February, 2010). Predicting

- cognitive functioning among HIV-positive aging adults. Poster/paper presented at the University of Alabama at Birmingham Geriatric Education Conference, Birmingham, AL. (\*falocp) (\*studconf)
284. **\*Vance, D. E.**, Mugavero, M., Willig, J., Raper, J. L., & Saag, M. S. (February, 2010). Co-morbidity prevalence and clinical characteristics associated with aging with HIV. Poster/paper presented at the University of Alabama at Birmingham Geriatric Education Conference, Birmingham, AL. (\*falocp)
285. **\*Vance, D. E.** (March, 2010). HIV comorbidities across the lifespan: Implications for successful aging with HIV. Paper presented at the 2010 American Society on Aging Conference, Chicago, IL. (\*fanatp)
286. Robinson, L., Lowery, A., **Vance, D.**, & Elliott, G. (March, 2010). Client's perspective of LGBT issues and spirituality. LGBT Issues and Spirituality Winter Workshop of ALGBTICAL, Birmingham, AL. (\*locp)
287. **Vance, D. E.** (March, 2010). Improving speed of processing in adults with HIV. UAB School of Nursing Dean's Scholar Award Project Panel Discussion, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
288. **Vance, D. E.**, Fazeli, P. L., & Marceaux, J. C. (April, 2010). Predictors of neurocognitive functioning in adults with HIV. Poster presented at the 2010 UAB Comprehensive Nursing Conference, Birmingham, AL. (\*falocp) (\*studconf)
289. **Vance, D. E.**, Mugavero, M., Willig, J., Raper, J. L., & Saag, M. S. (April, 2010). Prevalence of co-morbidity and clinical characteristics associated with aging with HIV. Poster presented at the 2010 UAB Comprehensive Nursing Conference, Birmingham, AL. (\*falocp)
290. **Vance, D. E.**, Marceaux, J. C., Fazeli, P., McKie-Bell, P., & Ball, K. K. (April, 2010). Improving speed of processing in adults with HIV: An intervention pilot study. Poster presented at the 2010 UAB Comprehensive Nursing Conference, Birmingham, AL. (\*falocp) (\*studconf)
291. **\*Vance, D. E.**, Marceaux, J. C., & Fazeli, P. L. (April, 2010). Improving speed of processing in adults with HIV: A pilot study. Poster/paper presented at the 2010 Cognitive Aging Conference, Atlanta, GA. (\*fanatp) (\*studconf)
292. **\*Vance, D. E.**, Fazeli, P. L., & Marceaux, J. C. (April, 2010). Predictors of cognitive performance in adults aging with HIV. Poster/paper presented at the 2010 Cognitive Aging Conference, Atlanta, GA. (\*fanatp) (\*studconf)
293. **Vance, D. E.**, Marceaux, J. C., Fazeli, P. L., & Long, C. A. (April, 2010). Improving speed of processing in adults with HIV. Paper presented at the UAB School of Nursing Review of the Southern Nursing Research Society,



Birmingham, AL. (\*falocp) (\*studconf)

294. \*Williams, L., Pryor, E. R., Drentea, P., **Vance, D. E.**, Chasen, E. R., & Umlauf, M. (June, 2010). Factors associated with sleep disruption in the Health and Retirement Study. Paper/presentation presented at the 24<sup>th</sup> Annual Meeting of the American Academy of Sleep Medicine and the Sleep Research Society, San Antonio, TX. (\*natp) (\*studconf)
295. **Vance, D. E.** (May, 2010). Writing for publication. UAB Hospital Educator Council Workshop, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
296. Moneyham, L., & **Vance, D. E.** (May, 2010). Team writing: Writing with junior faculty and students. Paper presented at the Center for Nursing Research, University of Alabama at Birmingham, Birmingham, AL. (\*locp)
297. **Vance, D. E.** (July, 2010). Improving cognitive ability in older adults by combining cognitive remediation therapy and physical activity: Preliminary findings from the PACES Study. Paper presented as Visiting Professor to the Sports and Exercise Science Department, University of Auckland, Auckland, New Zealand. (\*faintp)
298. \***Vance, D. E.**, Mugavero, M. J., Willig, J. H., Raper, J. L., & Saag, M. (July, 2010). Clinical characteristics associated with aging with HIV. Paper presented at the International Congress on Applied Psychology, Melbourne, Australia. (\*faintp)
299. \***Vance, D. E.**, Macrceaux, J. C., & Fazeli, P. L. (July, 2010). Improving speed of processing in older and younger adults with HIV: A pilot study. Paper presented at the International Congress on Applied Psychology, Melbourne, Australia. (\*faintp) (\*studconf)
300. \***Vance, D. E.**, Ackerman, M. L., Antia, L., Blanshan, S. A., Smith, B. A., Bodner, E., & Hiers, K. M. (July, 2010). The role of religiosity in mediating biopsychosocial outcomes in homosexuals and heterosexuals with HIV: A structural-equation-modeling comparison study. Paper presented at the International Congress on Applied Psychology, Melbourne, Australia. (\*faintp) (\*studconf)
301. \***Vance, D. E.**, Marceaux, J. C., & Fazeli, P. L. (July, 2010). Predicting neuropsychological performance among HIV-positive adults. Paper presented at the International Congress on Applied Psychology Education, Melbourne, Australia. (\*faintp) (\*studconf)
302. \***Vance, D. E.** (Chair, July, 2010). IAAP Division 8 Health Psychology: Individual Oral Presentations – HIV: Multiple Presenters. International Congress on Applied Psychology, Melbourne, Australia. (\*faintp) (\*chs)

303. \*Eaves, Y., & **Vance, D. E.** (September, 2010). A decision-making instrument for rural African American caregivers. Paper presented at the 2010 State of the Science Congress on Nursing Research, Washington, DC. (\*natp)
304. \***Vance, D. E.**, Fazeli, P. L., & McKie, P. R. (September, 2010). Functional and neurocognitive comparisons of older and younger adults with and without HIV. Poster presented at the European Federation of Neurological Societies, Geneva, Switzerland. (\*faintp) (\*studconf)
305. \***Vance, D. E.**, Fazeli, P. L., & McKie-Bell, P. (September, 2010). Improving speed of processing and everyday functioning in adults with HIV by using cognitive remediation therapy. Poster presented at the European Federation of Neurological Societies, Geneva, Switzerland. (\*faintp) (\*studconf)
306. \***Vance, D. E.**, Marceaux, J. C., Fazeli, P. L. (September, 2010). Predictors of neurocognitive functioning in adults with HIV. Poster presented at the European Federation of Neurological Societies, Geneva, Switzerland. (\*faintp) (\*studconf)
307. **Vance, D. E.** (September, 2010). Speed of processing training in adults with HIV: Implications for the future. Paper presented at the UAB 1917 Clinic Aging with HIV Research Interest Group, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
308. \***Vance, D. E.**, Fazeli, P. L., Ross, L. A., & Ackerman, M. L. (October, 2010). The effect of speed of processing intervention on adults with HIV. Poster presented at the National Academy of Neuropsychology, Vancouver, Canada. (\*faintp) (\*studconf)
309. \*Fazeli, P. L., **Vance, D. E.**, Ross, L. A., & Ackerman, M. L. (October, 2010). Comparison of older and younger adults with and without HIV on neuropsychological and everyday functioning. Poster presented at the National Academy of Neuropsychology, Vancouver, Canada. (\*faintp) (\*studconf)
310. Fazeli, P. L., **Vance, D. E.**, McKie-Bell, P., & Ross, L. A. (October, 2010). Neuropsychological and functional comparisons of older and younger adults with and without HIV. Poster presented at the Center for Aging Annual Conference, University of Alabama at Birmingham, Birmingham, AL. (\*locp) (\*studconf)
311. Fazeli, P., **Vance, D. E.**, McKie-Bell, P., & Ross, L. A. (October, 2010). The effect of visual speed of processing training on middle-aged and older adults with HIV. Poster presented at the Center for Aging Annual Conference, University of Alabama at Birmingham, Birmingham, AL. (\*locp) (\*studconf)
312. **Vance, D. E.**, Ross, L. A., Wadley, V., & Ball, K. (October, 2010). Cognitive predictors of timed instrumental activities of daily living: A structural equation modeling study. Poster presented at the UAB Center for Aging Annual

Conference, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)  
(\*studconf)

313. \***Vance, D. E.**, Fazeli, P. L., Ross, L. A., & Ackerman, M. L. (November, 2010). The effect of visual speed of processing training on middle-aged and older adults with HIV. Paper presented at the Gerontological Society of America Annual Conference, New Orleans, LA. (\*fanatp) (\*studconf)
314. \*Fazeli, P. L., **Vance, D. E.**, Ross, L. A., & Ackerman, M. L. (November, 2010). Neuropsychological and functional comparisons of older and younger adults with and without HIV. Poster presented at the Gerontological Society of America Annual Conference, New Orleans, LA. (\*fanatp) (\*studconf)
315. **Vance, D. E.**, Fazeli, P. L., & McKie, P. (November, 2010). The effect of speed of processing training on middle-aged and older adults with HIV. Poster presented at the Center for Clinical and Translational Science Annual Conference, University of Alabama at Birmingham, Birmingham, AL. (\*falocp) (\*studconf)
316. **Vance, D. E.** (February, 2011). Aging trends in HIV: What to expect? Invited speaker to the Psychology of Aging Class, Department of Psychology, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
317. \*Fazeli, P. L., **Vance, D. E.**, McKie-Bell, P., & Ross, L. A. (February, 2011). Speed of processing training in adults with HIV. Poster presented at the February 2011 International Neuropsychological Society Annual Conference, Boston, Massachusetts. (\*intp) (\*studconf)
318. \*Fazeli, P. L., **Vance, D. E.**, McKie-Bell, P., & Ross, L. A. (February, 2011). The effect of age and HIV on neuropsychological and everyday performance. Poster presented at the February 2011 International Neuropsychological Society Annual Conference, Boston, Massachusetts. (\*intp) (\*studconf)
319. \*Gibson, L., Lozano, D., **Vance, D.**, Gerald, L., Rice, M., & Turner-Henson, A. (February, 2011). The relationship among family management behaviors, asthma morbidity, and asthma control in maternal caregivers who have children with asthma. Poster presented to the Southern Nursing Research Society, Jacksonville, FL. (\*natp) (\*studconf)
320. **Vance, D. E.** (March, 2011). Nursing perspectives on positive and negative neuroplasticity. Class presentation to the NUR 503 Nursing Care of Older Adults, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
321. **Vance, D. E.** (March, 2011). Nursing perspectives on HIV and aging. Class presentation to the NUR 503 Nursing Care of Older Adults, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)

322. Musgrove, K. & **Vance, D. E.** (April, 2011). HIV and the aging epidemic. 30<sup>th</sup> Annual Training Conference of the Alabama Gerontological Society, Birmingham, AL. (\*locp)
323. **Vance, D. E.** (May, 2011). Low hanging fruit: Pursing intramural money. Presentation to the Center for Nursing Research, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
324. Gakumo, C. A., **Vance, D.**, & Moneyham, L. (May, 2011). Developing a health numeracy intervention for treatment adherence in HIV+ African Americans. Health Literacy Conference, University of Alabama at Birmingham, Birmingham, AL. (\*locp)
325. **Vance, D. E.**, Wright, M. A., McKie, P. R., Burton, L., Ard, J., & Klapow, J. (May, 2011). The impact of a minimum interaction weight loss program when combined with a behavioral-based incentive component. Presented to UAB Diabetes Research Day, Birmingham, AL. (\*falocp)
326. \***Vance, D. E.** (May, 2011). Neuropsychology of HIV: Cognitive deficits, predictors, and interventions. Workshop presented at the HIV/AIDS 2011: The Social Work Response, The Twenty-Third Annual National Conference on Social Work and HIV/AIDS, Boston College Graduate School of Social Work, Atlanta, GA. (\*fanatp)
227. \***Vance, D. E.**, Mugavero, M., Willig, J., Raper, J. L., & Saag, M. S. (May, 2011). Prevalence of comorbidity and clinical characteristics of HIV across the lifespan. Poster presented at the HIV/AIDS 2011: The Social Work Response, The Twenty-Third Annual National Conference on Social Work and HIV/AIDS, Boston College Graduate School of Social Work, Atlanta, GA. (\*fanatp)
328. \***Vance, D. E.**, Fazeli, P. L., McKie, P., & Ross, L. A. (May, 2011). Visual speed of processing training improves IADL performance in adults with HIV. Poster presented at the HIV/AIDS 2011: The Social Work Response, The Twenty-Third Annual National Conference on Social Work and HIV/AIDS, Boston College Graduate School of Social Work, Atlanta, GA. (\*fanatp) (\*studconf)
329. \***Vance, D. E.**, Fazeli, P. L., & McKie, P. (May, 2011). Comparing cognitive and everyday functioning in older and younger adults with and without HIV. Poster presented at the HIV/AIDS 2011: The Social Work Response, The Twenty-Third Annual National Conference on Social Work and HIV/AIDS, Boston College Graduate School of Social Work, Atlanta, GA. (\*fanatp) (\*studconf)
330. \*Fazeli, P. L., **Vance, D. E.**, & Marceaux, J. (May, 2011). Predictors of cognitive and everyday functioning in adults with HIV. Poster presented at the HIV/AIDS 2011: The Social Work Response, The Twenty-Third Annual National

- Conference on Social Work and HIV/AIDS, Boston College Graduate School of Social Work, Atlanta, GA. (\*natp) (\*studconf)
331. **Vance, D. E.** (May, 2011). Statistical analysis of quantitative data: Management of data for project. Workshop presentation to the Honor's Students in Nursing, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
332. **Vance, D. E.** (May, 2011). Statistical analysis of quantitative data: Introduction to SPSS. Workshop presentation to the Doctoral of Nurse Practitioner Orientation, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
333. Ball, K. K., & **Vance, D. E.** (June, 2011). Thinking better: Does physical and mental exercise matter? Paper presented to the UAB Center for Nursing Research Seminar Series, Birmingham, AL. (\*locp)
334. \*Ross, L. A., Ball, K. K., Ackerman, M., Cak, L. D., **Vance, D. E.**, Benz, D., & Ball, D. (June, 2011). Translational laboratory measures to real-world outcomes: Application of the UFOV® test in an insurance company setting. International Driving Symposium, Lake Tahoe, CA. \*Requires a drafted manuscript that will be published (See Publications). (\*intp) (\*studconf)
335. **Vance, D. E.** (July, 2011). Statistical analysis of quantitative data: Introduction to SPSS. Workshop presentation to the Doctoral of Nurse Practitioner Orientation, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
336. **Vance, D. E.** (August, 2011). Structure and process of master's level writing. 2011 NHSA Intensive, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
337. **Vance, D. E.** (August, 2011). Let's format it together: APA referencing and beyond. Workshop presented as part of the writing series for the Center for Nursing Research, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
338. Wright, M. A., & **Vance, D. E.** (September, 2011). Evaluating the impact of telephone technology and incentives. Presented to the Center for Nursing Research, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
339. \*Fazeli, P. L., **Vance, D. E.**, Ball, K. K., & Ross, L. A. (September, 2011). The effect of computer experience, anxiety, and attitudes on computerized cognitive test performance among older adults. Paper/poster presented at the 15<sup>th</sup> Congress of the European Federation of Neurological Societies, Budapest, Hungary. (\*faintp) (\*studconf)

340. **\*Vance, D. E.** (September, 2011). The effects of social networks, depression, and exercise on cognition in older adults: A structural equation modeling study. Paper/poster presented at the 15<sup>th</sup> Congress of the European Federation of Neurological Societies, Budapest, Hungary. (*\*faintp*)
341. **\*Vance, D. E.** (September, 2011). Cognitive predictors of timed instrumental activities of daily living in older adults: A structural equation modeling study. Paper/poster presented at the 15<sup>th</sup> Congress of the European Federation of Neurological Societies, Budapest, Hungary. (*\*faintp*)
342. Wright, M. A., McKie, P. R., Burton, L. S., Ard, J. D., Klapow, J., & **Vance, D. E.** (September, 2011). The impact of a minimum interaction weight loss program when combined with a behavioral-based incentive component. Poster presented to the Annual Magnet Evidence Based Practice and Research Day, UAB Center for Nursing Excellence, Birmingham, AL. (*\*locp*)
343. **Vance, D. E.,** & Fazeli, P. L. (September, 2011). Cognitive predictors of timed instrumental activities of daily living: A structural equation modeling study. Poster presented to the Annual Magnet Evidence Based Practice and Research Day, UAB Center for Nursing Excellence, Birmingham, AL. (*\*falocp*) (*\*studconf*)
344. **Vance, D. E.,** & Fazeli, P. L. (September, 2011). The mediating effect of depressive symptomatology between physical activity and cognitive functioning: A structural equation modeling study. Poster presented to the Annual Magnet Evidence Based Practice and Research Day, UAB Center for Nursing Excellence, Birmingham, AL. (*\*falocp*) (*\*studconf*)
345. **Vance, D. E.,** & Fazeli, P. L. (September, 2011). Increasing speed of processing and IADLs in aging adults with HIV. Paper presented to the Annual Magnet Evidence Based Practice and Research Day, UAB Center for Nursing Excellence, Birmingham, AL. (*\*falocp*) (*\*studconf*)
346. **Vance, D. E.** (September, 2011). Statistical overview. Presentation to the UAB School of Nursing Honor Student, Birmingham, AL. (*\*falocp*)
347. Meneses, K., McNeese, P., Kempf, M., Su, X., **Vance, D. E.,** & Wiser, F. (September, 2011). Wake-up with research. Workshop presented as part of the seminar series for the Center for Nursing Research, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (*\*locp*)
348. **\*Vance, D. E.,** Wright, M. A., McKie, P. R., Burton, L., Ard, J., & Klapow, J. (October, 2011). Evaluating the impact of an interactive telephone technology and incentives when combined with a behavioral intervention for weight loss. Presented to The Obesity Society's 29<sup>th</sup> Annual Scientific Meeting, Orlando, FL. (*\*fanatp*)

349. **Vance, D. E., & Fazeli, P. L.** (October, 2011). HIV and Aging: Complications and successes. Presented at the Center for Aging Scientific Seminar Series, University of Alabama at Birmingham, Birmingham, AL. (\*falocp) (\*studconf)
350. Fazeli, P. L., **Vance, D. E.,** Ball, K. K., & Ross, L. A. (2011, October). The effect of computer experience, anxiety, and attitudes on computerized cognitive test performance among older adults. Paper/poster to be presented at the 2011 annual meeting of the UAB Center for Aging, Birmingham, AL. (\*falocp) (\*studconf)
351. **Vance, D. E.,** Fazeli, P. L., & McKie, P. (November, 2011). Improving speed of processing and everyday functioning in adults with HIV by using cognitive remediation therapy. CCTS 3<sup>rd</sup> Annual Conference, University of Alabama at Birmingham, Birmingham, AL. (\*falocp) (\*studconf)
352. \*Fazeli, P. L., **Vance, D. E.,** Ross, L. A., & Ball, K. K. (November, 2011). The effect of computer experience, anxiety, and attitudes on computerized cognitive test performance among older adults. Poster/presentations presented to the Gerontological Society of America, Boston, MA. (\*natp) (\*studconf)
353. \*Kaur, J., **Vance, D. E.,** Ross, L. A., Wadley, V., Crowe, M. G., & Ball, K. (November, 2011). Latent cognitive predictors of timed instrumental activities of daily living in older adults. Poster presented to the Gerontological Society of America Conference, Boston, MA. (\*natp) (\*studconf)
354. Ross, L. A., Edwards, J. D. Roth, D. L., Ball, K., **Vance, D.,** & Wadley, V. G. (November, 2011). Maintaining older adults' mobility and independence. CCTS 3<sup>rd</sup> Annual Conference, University of Alabama at Birmingham, Birmingham, AL. (\*locp) (\*studconf)
355. **Vance, D. E.** (December, 2011). Ageing with HIV COGNITION-10 grant. Rapporteur for a grant of the 1<sup>st</sup> Joint Transnational call of "Harmonizing Integrating Vitalizing European Research on AIDS/HIV (HIVERA): European Research Project on HIV/AIDS", Frankfurt, Germany. \*All expenses paid. (\*faintp)
356. Meneses, K. McNeese, P., Su, X., Azuero, A., **Vance, D.,** Kempf, M., & Wiser, F. (January, 2012). Wake up with research. Center for Nursing Research, University of Alabama at Birmingham, Birmingham, AL. (\*locp)
357. Brethour, M. K., Albright, K. C., **Vance, D. E.,** Alexandrov, A. V., & Alexandrov, A. W. (February, 2012). The predictability of C-reactive protein, lipoprotein-associated phospholipase A2, and depression on later health outcomes in patients experiencing a first-time stroke. Poster presented at the 2012 International Stroke Conference, New Orleans, LA. (\*intp) (\*studconf)
358. \***Vance, D. E.,** McKie, P., Fazeli, P., & Kaur, J. (February, 2012). Improving visual speed of processing and IADLs in Middle-aged and Older Adults with HIV.

- Podium presentation at the Southern Nursing Research Society Annual Conference, New Orleans, LA. (\*fanatp) (\*studconf)
359. \*Morrison, S., **Vance, D.**, & Dashiff, C. (February, 2012). Motivating adolescents in diet and exercise health behaviors: The role of parental autonomy support. Poster presented to the South Nursing Research Society Annual Conference, New Orleans, LA. (\*natp) (\*studconf)
360. \*Riley, B. H., Dashiff, C., & **Vance, D. E.** (February, 2012). Parental influences on late adolescents' autonomous motivation, sexual risk knowledge and behavior. Poster presented to the South Nursing Research Society Annual Conference, New Orleans, LA. (\*natp) (\*studconf)
361. **Vance, D. E.** (February, 2012). Update on aging with HIV: Implications for general practice and research. Invited speaker to the Psychology of Aging Class, Department of Psychology, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
362. **Vance, D. E.** (March, 2012). SPSS basics. DNP Orientation, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
363. **Vance, D. E.** (March, 2012). Write for your life. UAB Center for Nursing Research, Writing Workshop, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
364. **Vance, D. E.** (March, 2012). Data playground: Toying with SPSS for project success. UAB School of Nursing DNP Intensive, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
365. \*Slater, L. Z., **Vance, D. E.**, Fazeli, P. L., McKie, P. R., & Kaur, J. (April, 2012). Cognitive remediation therapy improves speed of processing and IADLs in middle-aged and older adults with HIV. Poster presented at the 2012 Cognitive Aging Conference, Atlanta, GA. (\*natp) (\*studconf)
366. \*Slater, L. Z., **Vance, D. E.**, Fazeli, P. L., & Kaur, J. (April, 2012). Predictors of cognitive and everyday functioning in adults with HIV. Poster presented at the 2012 Cognitive Aging Conference, Atlanta, GA. (\*natp) (\*studconf)
367. **Vance, D. E.** (June, 2012). Statistics 101: What nursing honor's students need to know. University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
368. \***Vance, D. E.**, Fazeli, P., McKie, P. R., & Kaur, J. (July, 2012). Cognitive remediation therapy improves visual speed of processing and IADLs in middle-aged and older adults with HIV. Paper presented at the 30<sup>th</sup> International Conference of Psychology, Cape Town, South Africa. (\*faintp) (\*studconf)



369. **\*Vance, D. E.**, Slater, L. Z., Gakumo, C. A., & Fazeli, P. L. (July, 2012). Does cognitive functioning predict accurate recall of viral load and t-cell count in non-demented adults with HIV. Paper presented to the International Congress of Psychology, Cape Town, South Africa. (\*faintp) (\*studconf)
370. **\*Vance, D. E.**, Fazeli, P. L., & Kaur, J. (July, 2012). Predictors of cognitive and everyday functioning in adults with HIV. Paper presented at the 30<sup>th</sup> International Conference of Psychology, Cape Town, South Africa. (\*faintp) (\*studconf)
371. Vance, D. E. (July, 2012). The basics of SPSS, data management, and data analysis. Invited speaker to the UAB School of Nursing DNP Orientation Workshop, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
372. **Vance, D. E.** (July, 2012). The basics of SPSS, data management, and data analysis. Invited speaker to the UAB School of Nursing PhD Orientation Workshop, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
373. \*Deren, S., Brennan-Ing, M., & **Vance, D.** (July, 2012). Socio-behavioral issues in aging and HIV: Critical for success in prevention and care. Special session of the HIV and Aging: A Global Perspective on Research, Care and Prevention. Podium and satellite presentation at the International AIDS 2012 Annual Conference, Washington, DC. (\*faintp)
374. **Vance, D. E.** (August, 2012). Structure and process of masters level writing. 2012 NHSA Orientation Intensive, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
375. **Vance, D. E.** (August, 2012). Aging with HIV: Merging gerontological and immunological science. Invited speaker to the Department of Psychology Colloquium Series, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
376. **\*Vance, D. E.** (September, 2012). LGBT issues in middle and late adulthood. Presented to the UAB School of Medicine's course "Health and Wellbeing of the LGBTQ community: A geopolitical and health-centered perspective, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
377. \*Fazeli, P. L., Ross, L. A., Wadley, V., Crowe, M., Ball, K. K., & **Vance, D. E.** (September, 2012). Cognitive functioning in adults aging with HIV: Exploring cognitive subtypes and influential factors. Poster presented at the European Federation of Neurological Societies, Stockholm, Sweden. (\*faintp) (\*studconf)
378. **\*Vance, D. E.**, Fazeli, P. L., Gakumo, C. A., & Slater, L. Z. (September, 2012). Neurocognitive functioning does not predict accurate recall of CD4+ lymphocyte count or viral load in non-demented adults with HIV. Poster presented to the European Federation of Neurological Societies, Stockholm, Sweden. (\*faintp) (\*studconf)

379. **\*Vance, D. E., & Fazeli, P. L.** (September, 2012). Speed of processing training improve neurocognition and IADL performance in middle-aged and older adults with HIV. Paper/poster presented at the European Federation of Neurological Societies, Stockholm, Sweden. (*\*faintp*)
380. **\*Vance, D. E., & Fazeli, P. L.** (September, 2012). Comparing neurocognitive and everyday functioning between older and younger adults with and without HIV. Paper/poster presented at the European Federation of Neurological Societies, Stockholm, Sweden. (*\*faintp*)
381. **Vance, D. E.** (August, 2012). Basic data management. Presentation at the Data Daze Workshop Series, Center for Nursing Research, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (*\*falocp*)
382. **Vance, D. E.** (September, 2012). LGBT issues in middle and late adulthood. Presented to the UAB School of Medicine's course "Health and Wellbeing of the LGBTQ community: A geopolitical and health-centered perspective, University of Alabama at Birmingham, Birmingham, AL. (*\*falocp*)
383. Kaur, J., Ross, L., Dodson, J., Steadman, L., & **Vance, D.** (September, 2012). Predictors of improvement following speed of processing training in middle-aged and older adults with HIV: A pilot study. Poster presented at the UAB Annual EBP and Research Day, University of Alabama at Birmingham, Birmingham, AL. (*\*falocp*) (*\*studconf*)
384. **Vance, D. E.** (October, 2012). Statistical stars shine bright. Invited speaker to the BSN Honor's students, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (*\*falocp*)
385. **Vance, D. E.** (October, 2012). So, you're the editor? Presentation at the Center for Nursing Research Seminar Series, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (*\*falocp*)
386. **\*Gakumo, C. A., Vance, D. E., Raper, J. L., & Estrada, C. A.** (October, 2012). Do health literacy, health numeracy, and cognition predict better HIV outcomes? Introducing the HALO Study. Poster presented to the Health Literacy Annual Research Conference, Bethesda, MD. (*\*natp*)
387. **Vance, D. E.** (October, 2012). Basic inferential statistics. Presentation at the Data Daze Workshop Series, Center for Nursing Research, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (*\*falocp*)
388. **Vance, D. E.** (November, 2012). HIV and aging: An overview on successful aging with HIV. Invited speaker to the Psychology of Aging Class, Department of Psychology, University of Alabama at Birmingham, Birmingham, AL. (*\*falocp*)

389. **Vance, D. E.** (November, 2012). Covariates, multiple regressions, and other statistics that go bump in the night. Presentation at the Data Daze Workshop Series, Center for Nursing Research, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
390. \*Lin, F., Chen, D., **Vance, D. E.**, & Mapstone, M. (November, 2012). Trajectories of combined laboratory- and everyday-based speed of processing in community dwelling older adults. Poster presented at the 65<sup>th</sup> Annual Scientific meeting of the Gerontological Society of America, San Diego, CA. (\*natp)
391. \*Gakumo, C. A., & **Vance, D. E.** (November, 2012). The impact of health literacy, health numeracy, and cognition on HIV outcomes: The HALO Study. Podium session presented at the annual conference of the Association of Nurses in AIDS Care, Tucson, AZ. (\*natp)
392. \***Vance, D. E.** (December, 2012). Successful aging with HIV: Where we were and where we're going. Guest lecturer for the UAB Health Smart Program, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
393. **Vance, D. E.** (January, 2013). The association between cognitive functioning and driving simulator performance in middle-aged and older adults with HIV: A pilot study. Invited speaker to the Center for Health and Aging, Emory University, Atlanta, GA. (\*falocp)
394. **Vance, D. E.** (January, 2013). BoomerAIDS: HIV neurocognitive causes and effects in PWAs over 50. Invited speaker to the Center for AIDS Research, Emory University, Atlanta, GA. (\*falocp)
395. **Vance, D. E.** (January, 2013). Writing: Why bother? Presented at the Writing Workshop Series, Center for Nursing Research, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
396. \*Gakumo, C. A., **Vance, D. E.**, Davis, E. J., & Hayes, A. N. (February, 2013). The effect of health literacy and numeracy on health status of adults with HIV. Paper presented to the Southern Nursing Research Society, Little Rock, AR. (\*natp)
397. Wilson, N. L., **Vance, D.**, Azuero, A., & Kempf, M. C. (2013). Exploring symptom clusters indicating possible HIV related bowel dysfunction and subsequent chronic inflammation. UAB Graduate Research Days, University of Alabama at Birmingham, Birmingham, AL. (\*locp) (\*studconf)
398. \*Hess, M. A., **Vance, D. E.**, McKie, P. R., Burton, L. S., Ard, J. D., & Klapow, J. (February, 2013). The impact of a minimum interaction weight loss program when combined with a behavioral-based incentive component. Poster presented at the 14<sup>th</sup> Annual Rural Health Conference, The Weight of Our Rural

Communities, Partnering to Reduce Obesity, University of Alabama, Tuscaloosa, AL. (\*locp)

399. **Vance, D. E.** (March, 2013). Developing and maintaining your own vectors of research: AKA, realistically pursuing your passion. Podium presentation at the Center for Nursing Research Seminar Series, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
400. **Vance, D. E.** (March, 2013). Successful aging, even with HIV. Invited speaker to the Center for Aging Seminar Series, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
401. **Vance, D. E.** (March, 2013). Clinical assessment of cognition: Implications for cognitive reserve and rehabilitation. Present to the NPN 621-OL Advanced Psychiatric Nursing, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
402. Meneses, K., Schwiebert, L. M., Locher, J. L., & **Vance, D. E.** (April, 2013). Mentoring seminar. Panel for the Center for Clinical and Translational Science, University of Alabama at Birmingham, Birmingham, AL. (\*locp)
403. **Vance, D. E.** (April, 2013). Cognitive load and scientific writing. Presented to the Center for Nursing Research Writing Workshop Series, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
404. **Vance, D. E.** (April, 2013). Fun with SPSS...really! Presented to the Doctoral of Nurse Practitioner Intensive, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
405. **Vance, D. E.** (April, 2013). Writing for publication, and for fun! Presented to the Doctoral of Nurse Practitioner Intensive, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
406. **Vance, D. E.** (April, 2013). Don't be afraid. It is only statistics. Presented to the Doctoral of Nurse Practitioner Orientation, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
407. **Vance, D. E.** (May, 2013). Introduction to the PhD in nursing. Presented to the BSN Honor's Students, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
408. **Vance, D. E.** (June, 2013). HIV, cognition, and aging. Invited speaker to the Academy of Behavioral Medicine Research meeting, Monterrey, CA. (\*fanatp)
409. **\*Vance, D. E.** (July, 2013). HIV associated neurocognitive disorders: pathophysiology and therapeutic targets. Rapporteur for a grant of the 2<sup>nd</sup> Joint

Transnational call of “Harmonizing Integrating Vitalizing European Research on AIDS/HIV (HIVERA): European Research Project on HIV/AIDS”, Berlin, Germany. \*All expenses paid. (*\*faintp*)

410. **Vance, D. E.** (July, 2013). Data management and an orientation to SPSS. Invited speaker to the School of Nursing PhD Intensive, University of Alabama at Birmingham, Birmingham, AL. (*\*falocp*)
411. **Vance, D. E.** (July, 2013). An overview of the necessity of SPSS. Invited speaker to the School of Nursing PhD Intensive, University of Alabama at Birmingham, Birmingham, AL. (*\*falocp*)
412. **Vance, D. E.** (July, 2013). The basics of inferential statistics using SPSS. Invited speaker to the School of Nursing PhD Intensive, University of Alabama at Birmingham, Birmingham, AL. (*\*falocp*)
413. **Vance, D. E.** (July, 2013). The 101 of SPSS. Invited speaker to the School of Nursing DNP Intensive, University of Alabama at Birmingham, Birmingham, AL. (*\*falocp*)
414. **Vance, D. E.** (July, 2013). ANOVA, ANCOVA, multiple regression, power, and other statistical things that go bump in the night. Invited speaker to the School of Nursing PhD Intensive, University of Alabama at Birmingham, Birmingham, AL. (*\*falocp*)
415. Wilson, N., **Vance, D.**, Azuero, & Kempf, M. C. (July, 2013). Identifying symptom clusters in HIV infection. 2013 PhD Summer Intensive at University of Alabama at Birmingham School of Nursing, Birmingham, AL. (*\*falocp*) (*\*studconf*)
416. **Vance, D. E.** (August, 2013). Basic data management featuring SPSS. Presenter at the Data Daze Series, Center for Nursing Research, University of Alabama at Birmingham, Birmingham, AL. (*\*falocp*)
417. **Vance, D. E.** (September, 2013). An editor’s advice on writing scientific products. Invited speaker to the Children’s Hospital Nursing Scholar’s Program, University of Alabama at Birmingham, Birmingham, AL. (*\*falocp*)
418. **\*Vance, D. E., & Fazeli, P. L.** (September, 2013). Feasibility of speed of processing training in middle-aged and older adults with HIV: A pilot study. Poster presented at the XXI World Congress of Neurology, Vienna, Austria. (*\*faintp*)
419. **\*Vance, D. E., Ackerman, M. L., & Ball, K. K.** (September, 2013). What factors influence the relationship between feedback and neuropsychological performance and subsequent driving self-regulation? Poster presented at the XXI World Congress of Neurology, Vienna, Austria. (*\*faintp*) (*\*studconf*)

420. **Vance, D. E.** (October, 2013). Fundamentals of statistics. Invited speaker to the Children's Hospital Nursing Scholar's Program, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
421. **Vance, D. E.** (October, 2013). Parametric and nonparametric statistics: What every emerging researcher needs to know. Presenter at the Data Daze Series, Center for Nursing Research, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
422. **\*Vance, D. E.** (October, 2013). Neurocognitive aging with HIV: Implications for speed of processing training, everyday functioning, and driving. Women's Interagency HIV Study Executive Committee Meeting, Miami, FL. (\*fanatp)
423. **Vance, D. E.** (October, 2013). Generating and sharing scientific ideas. 12@12 UAB Center for Nursing Research, University of Alabama at Birmingham, Birmingham, AL. \*Session chair. (\*falocp) (\*chs)
424. **\*Bowen, P. G., Eaves, Y. D., & Vance, D. E.** (November, 2013). Southern African American older women's perspectives on obesity and physical activity. Poster presented to the Gerontological Society of America Annual Conference, New Orleans, LA. (\*natp) (\*studconf)
425. **\*Talley, M. H., Vance, D., Alexandrov, A., Alexandrov, A., Liebeskind, D., Pryor, E., & Wadley, V. G.** (November, 2013). Physiologic and sociobehavioral mechanisms for dementia: A focus on hyperglycemia. Rising Stars of Scholarship and Research Poster Program at Sigma Theta Tau International's 42<sup>nd</sup> Biennial Convention, Indianapolis, IN. (\*intp) (\*studconf)
426. **\*Vance, D. E.** (November, 2013). A biopsychosocial overview of aging with HIV: What to expect? Invited Keynote Speaker to the Association of Nurses in AIDS Care Annual Convention, Atlanta, GA. (\*fanatp)
427. **\*Ng, Y. C., Moneyham, L. D., Vance, D. E., Raper, J. L., & Childs, G. D.** (November, 2013). The effects of HIV disease progression, barriers to care, social network, depression, and substance abuse on medical appointment adherence of HIV-infected adults. Paper presented to the Association of Nurses in AIDS Care Annual Convention, Atlanta, GA. (\*natp) (\*studconf)
428. **\*Vance, D. E., & Fazeli, P. L.** (November, 2013). Remote training improves speed of processing training in middle-aged and older adults with HIV: A pilot study. Poster presented to the Association of Nurses in AIDS Care Annual Convention, Atlanta, GA. (\*fanatp)
429. **\*Vance, D. E., Fazeli, P. L., Ball, D. A., Slater, L. Z., & Ross, L. A.** (November, 2013). Neuropsychological functioning and driving simulator performance in middle-aged and older adults with HIV: A pilot study. Paper presented to the

Association of Nurses in AIDS Care Annual Convention, Atlanta, GA. (*\*fanatp*)  
(*\*studconf*)

430. **Vance, D. E.** (November, 2013). Covariates, multiple regression, and imputation. Presenter at the Data Daze Series, Center for Nursing Research, University of Alabama at Birmingham, Birmingham, AL. (*\*falocp*)
431. **Vance, D. E.** (November, 2013). Neuropsychology and cognitive evaluation: What every nurse should know. Presented to the NPN 621-OL Advanced Psychiatric Nursing, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (*\*falocp*)
432. **Vance, D. E.,** Fazeli, P. L., Ball, D. A., Slater, L. Z., Ross, L. A., & Humphrey, S. C. (2013). Cognitive functioning and driving simulator performance in middle-aged and older adults with HIV. World AIDS Day Research Poster Session, UAB Center for AIDS Research, Birmingham, AL. (*\*falocp*) (*\*studconf*)
433. **Vance, D. E.** (2014). Tips on professional writing. Speech delivered to the Writing Workshop Series, Center for Nursing Research, University of Alabama at Birmingham, Birmingham, AL. (*\*falocp*)
434. **Vance, D. E.** (2014). How I got in shape for academic writing? Invited speaker to the Writing Successfully: GRD 708 Class, Graduate School, University of Alabama at Birmingham, Birmingham, AL. (*\*falocp*)
435. **\*Vance, D. E.** (March, 2014). HIV and successful aging? They are more compatible than you think! Invited speaker to the Multidisciplinary Approaches across the Palliative Care Continuum, sponsored by the Georgia Gerontological Advanced Practice Nurses Association and Atlanta Regional Geriatric Education Center, Atlanta, GA. \*All expenses paid. (*\*fanatp*)
436. **\*Vance, D. E.** (April, 2014). Successful aging with HIV: A biopsychosocial overview. Invited speaker to The Graying of HIV: An Aging and Growing Population Conference, Johns Hopkins University, Baltimore, MD. \*All expenses paid. (*\*fanatp*)
437. **Vance, D. E.** (April, 2014). PORF – Protocol Oversight Review Form. Speed presented to the UAB School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (*\*falocp*)
438. **\*Pearce, P. F.,** Christian, B. J., Smith, S. L., & **Vance, D. E.** (April, 2014). Creative pedagogy: A practical framework for teaching research methods. National Organization of Nurse Practitioner Faculties (NONPF) 40<sup>th</sup> Annual Meeting, Denver, CO. (*\*natp*)
439. **Vance, D. E.** (April, 2014). Citations and Scopus scores: What every academic

- writer needs to know (for promotion and tenure). Lecture presented at the UAB Center for Nursing Writing Workshop Series, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
440. **Vance, D. E.** (April, 2014). The crossroads of HIV and aging: A biopsychosocial overview. Presented to the NPN 621-OL Advanced Psychiatric Nursing, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
441. **Vance, D. E.** (June, 2014). Being a grant review. Presented to the NUR 730 Grant Writing Course, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
442. **Vance, D. E., & Raju, D.** (June, 2014). Understanding basic data management and entry. Workshop to the School of Nursing PhD Students, UAB SON PHD Summer Intensive, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
443. **Vance, D. E., & Raju, D.** (June, 2014). Understanding parametric and non-parametric statistics. Workshop to the School of Nursing PhD Students, UAB SON PHD Summer Intensive, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
444. **Vance, D. E., & Raju, D.** (June, 2014). Understanding inferential statistics and special data skills. Workshop to the School of Nursing PhD Students, UAB SON PHD Summer Intensive, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
445. **\*Vance, D. E.** (July, 2014). Taking care of the older adult with HIV: A biopsychosocial overview. Invited speaker to the Georgia Medical Directors Association Summer Symposium, Savannah, GA. \*All expenses paid. (\*fanatp)
446. **Vance, D. E.** (July, 2014). PORF, PORF, PORF and IRB tips. Presented at the UAB Center for Nursing Research, Birmingham, AL. (\*falocp)
447. **Vance, D. E.** (July, 2014). Clinical neurocognitive assessment. Invited speaker the NUR 616, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
448. **\*Vance, D. E., Fazeli, P. L., Ball, D. A., Slater, L. Z., Ross, L. A., & Humphrey, S. C.** (August, 2014). Cognitive functioning and driving simulator performance in middle-aged and older adults with HIV. Nurse Practitioner Alliance of Alabama Annual Conference, Panama, FL. (\*fanatp) (\*studconf)
449. **Humphrey, S. C. & Vance, D. E.** (September, 2014). Olfactory testing and neurocognitive functioning in older adults with HIV: Three case studies. Abstract at the 2014 Annual Magnet Evidence Based Practice and Research Day, University Hospital, Birmingham, AL. (\*locp) (\*studconf)



450. Humphrey, S. C., Fazeli, P. L., & **Vance, D. E.** (September, 2014). Evaluation of a home-based speed of processing training program in middle-aged and older adults with HIV. Abstract at the 2014 Annual Magnet Evidence Based Practice and Research Day, University Hospital, Birmingham, AL. (\*locp) (\*studconf)
451. Humphrey, S. C., & **Vance, D. E.** (September, 2014). Cognitive function and its role on proactive coping behaviors in adults with and without HIV. Abstract at the 2014 Annual Magnet Evidence Based Practice and Research Day, University Hospital, Birmingham, AL. (\*locp) (\*studconf)
452. \***Vance, D. E.**, Meneses, K., Jablonski, R., Antia, L., Frank, J., & Moneyham, L. (September, 2014). Research immersion strategies for distance accessible nursing PhD programs. National League of Nursing conference, Phoenix, AZ. (\*fanatp)
453. \*Humphrey, S. C., Fazeli, P. L., & **Vance, D. E.** (September, 2014). Efficacy of a home-based neurocognitive remediation program in adults with HIV. Poster presented at the Annual Honor Society of Nursing, Sigma Theta Tau International, Indianapolis, IN. (\*intp) (\*studconf)
454. \*Graven, L. J., Grant, J. S., **Vance, D. E.**, Pryor, E. R., Grubbs, L., & Karioth, S. (September, 2014). The influence of social support and social problem-solving on depressive symptomatology and self-care behaviors in individuals with heart failure: A structural equation modeling study. Podium presentation at the 18th Annual Scientific Meeting of the Heart Failure Society of America, Las Vegas, NV. (\*natp) (\*studconf)
455. \***Vance, D. E.** (October, 2014). Neurocognitive aging and HIV disorders: Implications of positive and negative neuroplasticity. Invited speaker to HIV and Aging: Mitochondria to the Metropolis, Emory University (R13 Educational Grant), Atlanta, GA. \*All expenses paid. (\*fanatp)
456. \*Landay, A. L., High, K. P., & **Vance, D. E.** (filling in for Michael Saag) (October, 2014). Plenary panel: Challenges and disparities: Living with and caretaking for PLWH with multimorbidities. Invited speaker to HIV and Aging: Mitochondria to the Metropolis, Emory University (R13 Educational Grant), Atlanta, GA. \*All expenses paid. (\*natp)
457. \***Vance, D. E.** (October, 2014). Aging with HIV: A focus on cognitive impairment. Invited speaker to the 11<sup>th</sup> Annual RI ANAC Teaching Day “Addressing the Comorbidities Associated with HIV”, Alpert Medical School of Brown University, Providence, Rhode Island. \*All expenses paid. (\*fanatp)
458. Humphrey, S. C., & **Vance, D. E.** (October, 2014). Does cognitive function play an active role in coping behaviors between adults with and without HIV? Presented at the Comprehensive Center for Healthy Aging 22<sup>nd</sup> Annual Symposium, University of Alabama at Birmingham, Birmingham, AL. (\*locp) (\*studconf)

459. Humphrey, S. C., & **Vance, D. E.** (October, 2014). Detection of olfactory deficits in older adults with HIV: A simple peanut butter test. Presented at the Comprehensive Center for Healthy Aging 22<sup>nd</sup> Annual Symposium, University of Alabama at Birmingham, Birmingham, AL. **\*Won first place!** (\*locp) (\*studconf)
460. Humphrey, S. C., Fazeli, P., & **Vance, D. E.** (October, 2014). Potential benefits of a home-based speed of processing training program in middle-aged and older adults with HIV. Presented at the Comprehensive Center for Healthy Aging 22<sup>nd</sup> Annual Symposium, University of Alabama at Birmingham, Birmingham, AL. (\*studconf)
461. **Vance, D. E.** (November, 2014). Speed of processing training in adults with HIV. Invited consultant presentation to POSIT Science, Inc. San Francisco, CA.  
\*All expenses paid. (\*fanatp)
462. **Vance, D. E.,** & Humphrey, S. C. (November, 2014). Neuropsychology of HIV: Implications for an aging epidemic. Workshop presented at the 34<sup>th</sup> Conference of the National Academy of Neuropsychology (NAN): New Horizons in Neuropsychology Research and Practice, Fajardo, Puerto Rico. (\*faintp) (\*studconf)
463. **Vance, D. E.,** & Humphrey, S. C. (November, 2014). A brief olfactory detection test of HIV-associated neurocognitive disorder: Three case studies. Poster presented to 34<sup>th</sup> Conference of the National Academy of Neuropsychology (NAN): New Horizons in Neuropsychology Research and Practice, Fajardo, Puerto Rico. (\*faintp) (\*studconf)
464. Humphrey, S. C., Fazeli, P., & **Vance, D. E.** (November, 2014). Remote speed of processing training in middle-aged and older adults with HIV. Poster presented to 34<sup>th</sup> Conference of the National Academy of Neuropsychology (NAN): New Horizons in Neuropsychology Research and Practice, Fajardo, Puerto Rico. (\*intp) (\*studconf)
465. **Vance, D. E.,** & Humphrey, S. C. (November, 2014). Is there a cognitive contribution to proactive coping behaviors between adults with and without HIV? Poster presented to 34<sup>th</sup> Conference of the National Academy of Neuropsychology (NAN): New Horizons in Neuropsychology Research and Practice, Fajardo, Puerto Rico. (\*faintp) (\*studconf)
466. Wilson, N., Azuero, A., **Vance, D.,** & Kempf, M. C. (November, 2014). Identifying symptom clusters in HIV infection. Poster presented at the Association of Nurses in AIDS Care, Miami, FL. (\*natp) (\*studconf)
467. **Vance, D. E.** (January, 2015). Shameless self-promotion when writing grants. Grant Writer's Workshop, Office of Research and Scholarship, School of Nursing, University of Alabama at Birmingham, AL. (\*falocp)
468. Moneyham, L., Meneses, K., Jablonski, R., & **Vance, D.** (January, 2015).

Redesign of a research-focused doctoral program in nursing: Addressing the sacred cows and harsh realities. AACN's 2015 Doctoral and Faculty Practice Conference, San Diego, CA. (\*natp)

469. **Vance, D. E.** (January, 2015). NeuroAIDS in an aging epidemic. Invited speaker to the 2015 UAB Interprofessional Geriatric Education Conference, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
470. **Vance, D. E.** (February, 2015). Neurocognition, aging, and HIV: That pretty much says it all. Invited speaker to the Center for Mental Health and Aging, University of Alabama, Tuscaloosa, AL. \*All expenses paid. (\*falocp)
471. **Vance, D. E.** (March, 2015). An overview of neuroAIDS and aging: Implications for research. Invited speaker at Center for Neurocognitive Studies, Nell Hodgson Woodruff School of Nursing, Emory University, Atlanta, GA. \*All expenses paid!  
\*Simultaneously broadcast to Duke University. (\*fanatp)
472. **Vance, D. E.** (March, 2015). Being a grant review: What are they looking for?. Presented to the NUR 742 Grant Writing Course, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
473. **Vance, D. E.** (March, 2015). Positive thinking and thinking when positive: Reflections on neuroplasticity, HIV, and cognitive aging. Invited speaker for the International Antiviral Society – USA, Atlanta, GA.  
\*All expenses paid with honorarium & +350 HIV clinicians in attendance. (\*fanatp)
474. **Vance, D. E.** (March, 2015). Writing for publication: Tips and pitfalls. Invited speaker to the Clinical Scholars Program, UAB School of Nursing and Children's Hospital, Birmingham, AL. (\*falocp)
475. Wilson, N. L., Azuero, A., **Vance, D. E.**, & Kempf, M. C. (April, 2015). HIV symptoms reported in HIV disease may indicate gut microbiome dysfunction and inflammation from microbial translocation. Poster presented at the 1<sup>st</sup> International Workshop on Microbiome in HIV Pathogenesis, Treatment and Prevention, Bethesda, MD. (\*intp) (\*studconf)
476. Cody, S. L., & **Vance, D. E.** (April, 2015). NeuroAIDS and Aging: An Overview. Scientific Seminar Series Lecture for the UAB Comprehensive Center for Healthy Aging, University of Alabama at Birmingham, Birmingham, AL. (\*locp) (\*studconf)
477. Slater, L. Z., Moneyham, L. D., **Vance, D. E.**, Raper, J. L., Mugavero, M. J., & Childs, G. D. (April, 2014). The multiple stigma experience and quality of life in older gay men with HIV. Eastern Nursing Research Society, Washington, DC.  
(\*natp) (\*studconf)

478. **Vance, D. E.** (June, 2015). Professional development. A two-day (6 hr) workshop delivered to the UAB School of Nursing PhD Program Summer Intensive, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
479. Nicholson, C., & **Vance, D.** (June, 2015). The potential role of the vagus nerve in HIV-associated neurocognitive disorders. Poster presented at the UAB School of Nursing PhD Program Summer Intensive, University of Alabama at Birmingham, Birmingham, AL. (\*locp) (\*studconf)
480. Cody, S. L., & **Vance, D. E.** (June, 2015). The impact of olfactory dysfunction on cognitive performance: Three case studies of older adults with HIV. Poster presented at the UAB School of Nursing PhD Program Summer Intensive, University of Alabama at Birmingham, Birmingham, AL. (\*locp) (\*studconf)
481. Talley, M. H., Pryor, E., Morrison, S., Wadley, V. G., Crowe, M., & **Vance, D. E.** (June, 2015). The effects of hyperglycemia and related physiological markers on cognitive function in those with and without APOE e4: The methodology. Poster presented at the UAB School of Nursing PhD Program Summer Intensive, University of Alabama at Birmingham, Birmingham, AL. (\*locp) (\*studconf)
482. Palmer, J. J., Safford, M. M., Gamboa, C., & **Vance, D. E.** (June, 2015). The effect of widowhood on diabetes self-management behaviors in the Reasons for Geographic Differences in Stroke (ReGARDS) Study. Poster presented at the UAB School of Nursing PhD Program Summer Intensive, University of Alabama at Birmingham, Birmingham, AL. (\*locp) (\*studconf)
483. Palmer, J. J., Safford, M., Gamboa, C., & **Vance, D.** (June, 2015). The effect of widowhood on diabetes self-management behaviors in the Reasons for Geographic and Racial Differences in Stroke (REGARDS) study. Poster presentation UAH College of Nursing as an evaluation of current research, Huntsville, AL. (\*locp) (\*studconf)
484. **Vance, D. E.** (September, 2015). Innovative features for writing a grant. Speech delivered to the UAB School of Nursing Grant Writing Workshop, Intensive, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
485. **Vance, D.**, Antia, L., Frank, J., Meneses, K., Moneyham, L., Jablonski, R., & Heaton, K. (September, 2015). Developing a PhD community platform to empower distant accessible nursing students. Poster presentation at the National League of Nursing: Bridging Practice and Education: A New World of Innovation and Technology, Las Vegas, NV. (\*fanatp)
486. McManus, B., Heaton, K., **Vance, D.E.**, Stavrinou, D. (October, 2015). The useful field of view assessment predicts simulated commercial motor vehicle driving performance. Poster presented at the 2015 Road Safety & Simulation International Conference, Orlando, FL. (\*intp) (\*studconf)

487. Nicholson, W. C., & **Vance, D. E.** (October, 2015). Vagus nerve stimulation: Potential role in PTSD and implications for advanced psychiatric nurses. Podium presentation delivered to the American Psychiatric Nurses Association Annual Conference, Lake Buena Vista, FL. (\*natp) (\*studconf)
488. Nicholson, W. C., **Vance, D. E.**, & Moneyham, L. (November, 2015). The potential role of the vagus nerve in HIV-associated cognitive disorders. Poster presentation at the Sigma Theta Tau International Honors Society of Nursing 43<sup>rd</sup> Biennial Convention, Las Vegas, NV. (\*intp) (\*studconf)
489. Shirey, M. R., Wright, E. L., & **Vance, D. E.**, & Moneyham, L. (November, 2015). Development and evaluation of a scholarly writing course in the doctor of nursing practice program. Podium presentation at the Sigma Theta Tau International Honors Society of Nursing 43<sup>rd</sup> Biennial Convention, Las Vegas, NV. (\*intp)
490. **Vance, D. E.**, & Cody, S. L. (November, 2015). An examination of the relationship between neurocognition and self-reported coping behaviors in adults with and without HIV. Poster presentation at the 2015 World Congress of Neurology, Santiago, Chile. (\*faintp) (\*studconf)
491. **Vance, D. E.**, Frank, J. S., Bail, J., Triebel, K. L., Niccolai, L. M., Gerstenecker, A., & Meneses, K. (November, 2015). Neurocognitive interventions for breast cancer survivors: A state of the science. Podium presentation at the 2015 World Congress of Neurology, Santiago, Chile. (\*faintp) (\*studconf)
492. **Vance, D. E.**, Cody, S. L., & Nicholson, C. (November, 2015). Neurocognition predictors of everyday functioning in HIV-positive adults. Poster presentation at the 2015 World Congress of Neurology, Santiago, Chile. (\*faintp) (\*studconf)
493. **Vance, D. E.** (November, 2015). Evaluation of remediation and compensation strategies for HIV-associated neurocognitive disorder: A review of the state of the science. Poster presentation at the 2015 World Congress of Neurology, Santiago, Chile. (\*faintp)
494. **Vance, D. E.**, Cody, S. L., Nicholson, C., & Palmer, J. (November, 2015). Neurocognitive predictors of driving in older adults with HIV: A driving simulator study. Poster presented at the 2015 World Congress of Neurology, Santiago, Chile. (\*faintp) (\*studconf)
495. **Vance, D. E.** (January, 2016). Exploring the feasibility of successful aging with HIV. Webcast presentation sponsored by the NYC Health and Hospitals Corporation, New York City, NY. (\*fanatp)

496. **Vance, D. E.** (February, 2016). Writing for publication: Creating a legacy. Podium presentation at the Office of Research and Scholarship Annual Writer's Workshop, School of Nursing, University of Alabama at Birmingham. (\*falocp)
497. **Vance, D. E.** (February, 2016). Biopsychosocial effects of aging with HIV: Implications for practice and research. Podium presentation at the Ageing 2016 Summit, London, United Kingdom. (\*faintp)
498. **Vance, D. E.** (February, 2016). Psychosocial effects of ageing. Symposium Chair, Ageing 2016 Summit, London, United Kingdom. (\*faintp)
499. Vance, D. E. (March, 2016). The psychology of visually conceptualizing your scholarship with powerpoint. Workshop offered to the UAB School of Nursing, Birmingham, AL. (\*falocp)
500. **Vance, D. E.** (April, 2015). Being a grant writer and grant reviewer: What are they looking for? Presented to the NUR 742 Grant Writing Course, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
501. **Vance, D. E.** (April, 2016). Olfactory ability and cognitive functioning in older African Americans and Caucasians with HIV: The NOSe Study. Podium presentation at the Annual Deep South Resource Center for Minority Aging Research Conference, Tuscaloosa, AL. (\*natp)
502. **Vance, D. E.** & Nicholas, N. (May, 2016). An update on neuroAIDS and aging: Protective, remediation, and compensation strategies. Workshop presented at the 28<sup>th</sup> Annual National Conference on Social Work and HIV/AIDS, Minneapolis, MN. (\*fanatp)
503. Bail, J., Ivankova, N., **Vance, D.**, Triebel, K., Heaton, K., & Meneses, K. (June, 2016). Cancer-related symptoms and cognitive intervention participation among breast cancer survivors: A mixed methods study. Poster presented at the UAB School of Nursing PhD Summer Intensive, Birmingham, AL. (\*locp) (\*studconf)
504. Palmer, J. J., Safford, M. M., Gamboa, C., & **Vance, D.** (June, 2016). The effect of widowhood on diabetes self-management behaviors in the Reasons for Geographic and Racial Differences in Stroke (REGARDS) Study. Poster presented at the UAB School of Nursing PhD Summer Intensive, Birmingham, AL. (\*locp) (\*studconf)
505. Nicholson, C., Mirjam-Colette, K., Moneyham, L., & Vance, D. (June, 2016). A systematic review of the vagus nerve and its association with inflammation and cognition: Theoretical and treatment implications for HIV-associated neurocognitive disorder. Poster presented at the UAB School of Nursing PhD Summer Intensive, Birmingham, AL. (\*locp) (\*studconf)

506. **Vance, D. E.** (June, 2016). Tips on writing for publication. Poster presented at the UAB School of Nursing PhD Summer Intensive, Birmingham, AL. (\*falocp)
507. **Vance, D. E.** (July, 2016). Tips and pitfalls for writing for publications: Lessons learned. Invited speaker to the Children's Hospital Nursing Scholar's Program, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
508. Sharma, A., Hoover, D. R., Shi, Q., Holman, S., Plankey, M. W., Tien, P., Weber, K., Floris-Moore, M., Bolivar, H. H., **Vance, D. E.**, Golub, E. T., McDonnell, M., & Yin, M. T. (September, 2016). Longitudinal study of falls among HIV-infected and uninfected women: Results from the Women's Interagency HIV Study. Presented at the 7<sup>th</sup> HIV & Aging Workshop, Washington, DC. (\*natp)
509. **Vance, D. E.** (October, 2016). Tips on finding, starting, and finishing small writing projects. Workshop provided to the UAB School of Nursing, Office and Research Scholarship, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
510. Nicholson, W. C., McGuinness, T. M., **Vance, D. E.**, & Wyers, D. (October, 2016). Vagus nerve and PTSD: Heart-rate variability measurement and its clinical indications for social and cognitive symptoms. Podium presentation at American Psychiatric Nurses Association. Hartford, CT. (\*natp) (\*studconf)
511. **Vance, D. E.** (October, 2016). Brain fitness and cognitive interventions to promote successful cognitive aging with HIV. Presented in the plenary session "Strategies to Manage Neurocognitive Impairment (OHTN) at the Joint conference of the Ontario Ministry and Long-Term Care & The International Neurovirology Society Conference HIV Endgame, Toronto, Canada. (\*fanatp)
512. Gill, J., Brew, B., Cysique, L., Munoz-Moreno, J., Robbins, R., Moore, D., **Vance, D.**, Sacktor, N., Fellows, L., Letendre, S., Carvalhal, A., Martin, E., Becker, J., Falutz, J., Valcour, V., & Power, C. (October, 2016). HIV and the brain in 90 minutes: Key implications of new research for clinical practice. Panel discussion at the Joint conference of the Ontario Ministry and Long-Term Care & The International Neurovirology Society Conference HIV Endgame, Toronto, Canada. (\*natp)
513. **Vance, D. E.** (November, 2016). An update on neurocognitive interventions with HIV: Implications for an aging population. Invited speaker on a special symposium titled "Aging and HIV". Podium presentation at the ANAC Conference 2016: The Care to cure Continuum: No One Left Behind Conference, Atlanta, GA. (\*fanatp)
514. **Vance, D. E.**, Nicholson, C. W., Cody, S. L., Hoenig, A. K., & Fazeli, P. L.

- (November, 2016). Olfactory functioning in aging African American and Caucasian men with HIV. Presented at the ANAC 2016 Conference: Association of Nurses in AIDS Care, Atlanta, GA. (\*fanatp) (\*studconf)
515. Cody, S. L., Nicholson, C. W., Hoenig, A. K., **Vance, D. E.**, & Fazeli, P. L. (November, 2016). The effects of HIV-associated cognitive functioning on medication adherence and everyday functioning. Poster presented at the ANAC 2016 Conference, Association of Nurses in AIDS Care, Atlanta, GA. (\*natp) (\*studconf)
516. Cody, S. L., Nicholson, C. W., Hoenig, A. K., **Vance, D. E.**, & Fazeli, P. L. (November, 2016). Examining cognition and driving simulator performance in middle-aged and older adults with HIV. Podium presentation at the ANAC 2016 Conference: Association of Nurses in AIDS Care, Atlanta, GA. (\*natp) (\*studconf)
517. Hoenig, A., & **Vance, D. E.** (November, 2016). Awareness of brain health and cognition in older adults with HIV: A focus group study. Poster presented at the ANAC 2016 Conference: Association of Nurses in AIDS Care, Atlanta, GA. (\*natp) (\*studconf)
518. **Vance, D. E.**, Hoenig, A. K., & Fazeli, P. L. (November, 2016). Neurocognitive aging with HIV: A practical overview for successful cognitive aging. Symposium presentation at the Gerontological Society of America Annual Conference, New Orleans, LA. (\*fanatp) (\*studconf)
519. **Vance, D. E.** (November, 2016). Cognition and HIV: A brief overview of the WIHS Neurocognition Working Group. UAB Center for AIDS Research Roundtable, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
520. Wilson, N. L., McGinnis, K., Azuero, A., **Vance, D. E.**, Womack, J. A., So-Armah, K., Tate, J., Richman, J. S., Raper, J. L., Heath, S. L., Moneyham, L. D., Justice, A. C., & Kempf, M. K. (November, 2016). Gastrointestinal symptoms and inflammatory biomarkers among patients with and without HIV infection. Presented at the 2<sup>nd</sup> International Workshop on Microbiome in HIV Pathogenesis, Prevention, and Treatment, Bethesda, MD. (\*intp) (\*studconf)
521. Rubin, L. H., Springer, G., Maki, P. M., Anastos, K., Gustafson, D., Kassaye, S., Villacres, M., Waldrop-Valverde, D., Vance, D., Bolivar, H., & Valcour, V. (February, 2017). Cognitive trajectories over 4 years among HIV+ women with optimal viral suppression. Conference on Retroviruses and Opportunistic Infections, Seattle, Washington. (\*natp)
522. Sharma, A., Hoover, D. R., Shi, Q., Holman, S., Plankey, M. W., Weber, K., Floris-Moore, M., Bolivar, H. H., Vance, D. E., Colub, E. T., McDonnell, M., & Yin, M. T. (February, 2017). Cognitive complaints and development of falls among HIV-infected and uninfected women. Conference on Retroviruses and Opportunistic Infections, Seattle, Washington. (\*natp)



523. Etheridge, S., Smith, T. S., Hogewood, C., Britt, S., & **Vance, D. E.** (March, 2017). Simulated experience: Active vs observation role. Poster presented at the Alabama League for Nursing, Birmingham, AL. (\*locp)
524. Bell, T., Pope, C., Stavrinou, D., **Vance, D. E.**, & Fazeli, P. (March, 2017). Social dysfunction explains the relation between pain and depressive symptoms in older adults with HIV. Health Disparities Symposium, University of Alabama at Birmingham, Birmingham, AL. (\*locp) (\*studconf)
525. **Vance, D. E.** (March, 2017). Cognitive reserve and cognitive resilience across the lifespan: Implications for comorbidities. Keynote speaker of the Annual Conference of the Kentucky Chapter of the American Psychiatric Nurses Association, Lexington, KY. (\*KA) (\*fanatp)
526. **Vance, D. E.** (March, 2017). Behavioral engagement, brain fitness, and cognitive functioning across the lifespan: Clinical and research highlights. Keynote presentation at the 10<sup>th</sup> World Congress on Neurology and Therapeutics, Madrid, Spain. (\*KA) (\*faintp)
527. **Vance, D. E.**, & Fazeli, P. L. (March, 2017). The Think Fast Study – A randomized controlled study to improve speed of processing in adults with HIV-Associated Neurocognitive Disorder. Presentation at the 10<sup>th</sup> World Congress on Neurology and Therapeutics, Madrid, Spain. (\*faintp)
528. **Vance, D. E.**, & Fazeli, P. L. (March, 2017). HIV-Associated Neurocognitive Disorder: How useful is the diagnosis? Poster presented at the 10<sup>th</sup> World Congress on Neurology and Therapeutics, Madrid, Spain. (\*faintp)
529. **Vance, D. E.**, & Fazeli, P. L. (April, 2017). Do older adults with HIV know how to protect or improve their cognition? Poster presented at the 3<sup>rd</sup> World Congress of Nursing, Barcelona, Spain. (\*faintp)
530. **Vance, D. E.**, & Fazeli, P. L. (April, 2017). Are computerized cognitive training programs worth it? Poster presented at the 3<sup>rd</sup> World Congress of Nursing, Barcelona, Spain. (\*faintp)
531. **Vance, D. E.**, & Fazeli, P. L. (April, 2017). Neuroplasticity, cognitive interventions, and cognitive training in older adults with HIV: A state of the science. Podium presentation presented at the 3<sup>rd</sup> World Congress of Nursing, Barcelona, Spain. (\*faintp)
532. **Vance, D. E.**, & Fazeli, P. L. (April, 2017). What does successful aging with HIV mean for mental health? Tips for guiding patients. Podium presentation presented at the 3<sup>rd</sup> World Congress of Nursing, Barcelona, Spain. (\*faintp)

533. Prapanjaroensin, A., Patrician, P. A., & **Vance, D. E.** (April, 2017). Conservation of resources: A theory to explain nurse burnout. Poster presented at the AAOHN Conference, New Orleans, LA. (\*natp) (\*studconf)
534. **Vance, D. E.** (April, 2017). Publishing systematic reviews: Pointers and pitfalls. Invited lecturer for the NRMQ 750 Foundations of Quantitative Research, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
535. Radtke, K., Bacchetti, P., Anastos, K., Crystal, H., Merenstein, D., Karim, R., Weber, K., Golub, E., Edmonds, A., Shath, A., Fischl, M., **Vance, D.**, & Greenblatt, R. M. (April, 2017). Patterns and prevalence of use of neurocognitively active medications in HIV infected and uninfected women in the WIHS. Student poster presented at the UCSF School of Pharmacy, San Francisco, CA. (\*locp)
536. Pope, C. N., Fazeli, P. L., **Vance, D. E.**, & Stavrinos, D. (May, 2017). On the road to better healthcare access: Assessing transportation barriers in older adults with HIV. Submitted for presentation at the 12th Annual Health Disparities Research Symposium, University of Alabama at Birmingham, Birmingham, AL. **3<sup>rd</sup> Place Winner** (\*locp) (\*studconf)
537. Bell, T., Pope, C., Stavrinos, D., **Vance, D.**, & Fazeli, P. L. (May, 2017). Social dysfunction explains the relation between pain and depressive symptoms in older adults with HIV. Submitted for presentation at the 12th Annual Health Disparities Research Symposium, University of Alabama at Birmingham, Birmingham, AL. (\*locp) (\*studconf)
538. **Vance, D. E.**, Childs, G., Gakumo, C. A., Enah, C., & Fazeli, P. L. (May, 2017). What older adults with HIV know about protecting their brain health and cognition: Results of a focus group study. Podium presentation at the Nursing and Midwifery Conference, Mona, Jamaica. (\*faintp)
539. **Vance, D. E.**, & Fazeli, P. L. (May, 2017). Neuroprotective and compensatory strategies in adults with HIV-associated neurocognitive disorder: An ongoing literature review. Podium presentation at the Nursing and Midwifery Conference, Mona, Jamaica. (\*faintp)
540. **Vance, D. E.**, & Fazeli, P. L. (May, 2017). Olfactory functioning and everyday outcomes in older African American and Caucasian men with HIV. Podium presentation at the Nursing and Midwifery Conference, Mona, Jamaica. (\*faintp)
541. Raju, D., & **Vance, D. E.** (June, 2017). The psychology and practicality of using figures and tables to publish ideas and data. Presentation at the School of Nursing PhD Intensive, University of Alabama at Birmingham, Birmingham, AL. (\*locp)

542. Gakumo, C. A., Lee, L., Grau, G., **Vance, D. E.**, & Shorten, A. (June, 2017). Panel discussion: On diversity and conducting culturally competent research. Presentation at the School of Nursing PhD Intensive, University of Alabama at Birmingham, Birmingham, AL. (\*locp)
543. **Vance, D. E.**, & Becker, J. T. (June, 2017). Brainstorming about WIHS and MACS. Joint Session of the WIHS and MACS Executive Committee Meeting, National Institutes of Health, Rockville, MD. (\*faintp)
544. **Vance, D. E.**, & Becker, J. T. (June, 2017). Neurocognitive working group reports of WIHS and MACS. Joint Session of the WIHS and MACS Executive Committee Meeting, National Institutes of Health, Rockville, MD. (\*faintp)
545. **Vance, D. E.** (September, 2017 to present). An introductory overview of neurocognitive issues in adults with HIV: Implications for practice and research. Internet presentation with The World Continuing Education Alliance. (\*faintp)
546. **Vance, D. E.** (September, 2017). Navigating what it means to age successfully with HIV: A biopsychosocial overview. 3<sup>rd</sup> Annual Thomas Judd Care Center HIV Summit, Traverse City, MI. (\*KA) (\*fanatp)
547. **Vance, D. E.** (September, 2017). Low hanging fruit: Pursuing intramural grant funding. Talk presented as part of the Research and Scholarly Development Series for the UAB School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
548. Nicholson, W. C., Johnson, K., **Vance, D. E.**, & Speck, P. (October, 2017). A slippery slope – The relationship between trauma physiology and chronic disease. Podium presentation at the International Conference on Forensic Nursing Science and Practice, Toronto, Canada. (\*intp) (\*studconf)
549. Nicholson, W. C., **Vance, D. E.**, & Durand, S. (October, 2017). Borderline personality disorder or post-traumatic stress disorder: Do autonomic differences reveal unique trauma pathways and novel approaches for diagnosis and treatment? Podium Presentation at the 2017 American Psychiatric Nurses Association 31st Annual Conference, Phoenix, Arizona. (\*natp) (\*studconf)
550. **Vance, D. E.** (October, 2017). Living La Vida Loca: One researcher's journey. Reception speech for being the winner of the 2017 Distinguished Scholar Alumni Award, Department of Psychology, University of Alabama at Birmingham, Birmingham, AL. (\*KA) (\*falocp)
551. **Vance, D. E.** (October, 2017). Behavioral interventions and cognitive training to address cognitive problems in older adults with HIV. Invited speaker to the School of Medicine, Johns Hopkins University, Baltimore, MD. (\*fanatp)

552. Mumbower, R. M., Childs, G. D., Novak, T. A., Dreer, L. E., **Vance, D. E.**, & Heaton, K. L. (October, 2017). Sleep experiences following traumatic brain injury: A qualitative descriptive study. Poster presentation at the American Congress of Rehabilitation Medicine, Atlanta, GA. (\*natp) (\*studconf)
553. Cysique, L., Rourke, S., Ances, B., Arendt, G., Antinori, A., Becker, J., Brew, B. J., Brouwers, P., Byrd, D. A., Carvalhal, A., Cavassini, M., Chang, L., Cherner, M., Clifford, D., Cinque, P., Cohne, R., Penalva De Oliveira, C., Falutz, J., Fazeli, P., Fellows, L., Fennema-Notestine, C., Gissien, M., Grant, I., Hestad, K., Hoare, J., Imran, D., Jahanshad, N., Jeymohna, J., Joska, J., Kallianpur, K. J., Kanmongne, G., Kessels, P. P. C., Heaton, R. K., Hinkin, C., Lal, L., Letendre, S., Levine, A., Li, P., Ludicello, J., Marcotte, T., Martin, E., Meade, C., Marquine, M., McArthur, J. C., Milan, J., Morgello, S., Munoz-Moreno, J., Morgan, E., Nakasujja, N., Moore, D., Nath, A., Njamnshi, N., Nir, T., Renaud du Pasquier, R. P., Power, C., Price, R. W., Rivera-Mindt, M., Rao, V. R., Robertson, K., Robins, R., Underwood, J., Sacktor, N., Schouten, J., Spudich, S., Stein, D., Thames, A., Thompson, P., Valcour, V., **Vance, D.**, Waldrop-Valverde, D., Vidal, J., Winston, A., Wojna, V., Woods, S., & Wright, E. (October, 2017). Establishing an international task force to address potential revisions of HAND Frascati criteria: Rationale, proposal/goals, areas to review/update, logistics and timeline. Poster presented at the NeuroHIV in ART Era, sponsored by NIH (NINDS, NIAID, NIDA, NIA, NICHD, Division of AIDS Research at NIMH, & Office of AIDS Research, Bethesda, MD. (\*natp)
554. Hossain, S., Tende, F., Bradley, B., Hart, K., McKie, P., Fazeli, P. L., & **Vance, D. E.** (November, 2017). Can computerized cognitive training affect HIV-associated neurocognitive disorder? A preliminary case comparison study. Oral presentation at the Association of Nurses in AIDS Care 30<sup>th</sup> Annual Conference, Dallas, TX. (\*natp)
555. **Vance, D. E.**, Gakumo, C. A., Childs, G. D., Enah, C., & Fazeli, P. L. (November, 2017). Perceptions of a multi-modal cognitive intervention for older adults with HIV: A focus group study. Poster presented at the Association of Nurses in AIDS Care 30<sup>th</sup> Annual Conference, Dallas, TX. (\*fanatp)
556. Cody, S. L., Crowe, M. G., Fazeli, P. L., Heaton, K., Kempf, M-C., Moneyham, L. D., Stavrinou, D. & **Vance, D. E.** (November, 2017). The effects of speed of processing training and transcranial direct current stimulation on sleep and global processing in older adults with and without HIV. Presented at the HIV & Aging: From Mitochondria to the Metropolis Conference, Nell Hodgson Woodruff School of Nursing, Emory University, Atlanta, GA. (\*natp)
557. **Vance, D. E.**, Tende, F., Bradley, B., Hart, K., McKie, P., Roberts, J., & Fazeli, P. L. (November, 2017). A case comparison study of reversing HIV-Associated Neurocognitive Disorder with cognitive training technology. Presented at the HIV & Aging: From Mitochondria to the Metropolis Conference, Nell Hodgson

Woodruff School of Nursing, Emory University, Atlanta, GA. (\*fanatp)

558. **Vance, D. E.**, Bradley, B., Tende F., Hart, K., & Fazeli, P. L. (November, 2017). What do older adults with HIV know about brain health? Feedback on a multi-modal lifestyle intervention. Presented at the HIV & Aging: From Mitochondria to the Metropolis Conference, Nell Hodgson Woodruff School of Nursing, Emory University, Atlanta, GA. (\*fanatp)
559. Emlet, C., & **Vance, D.** (November, 2017). Rapporteur summary: Challenges and future directions for research and clinical care to promote functional wellness. Oral presentation at the HIV and Aging: From the Mitochondria to the Metropolis Conference, Atlanta, GA. (\*natp)
560. **Vance, D. E.** (January, 2018). Writing the aims page of the NIH grant: Tricks and pitfalls. Invited speaker to the Career Development Grant Proposal class in the Nursing PhD Program (NUR 759), School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
561. **Vance, D. E.** (February, 2018). Resiliency in research: A discussion on being a researcher. Workshop presented at the Office of Research and Scholarship 5<sup>th</sup> Annual Research Retreat, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
562. **Vance, D. E.**, & Fazeli, P. L. (March, 2018). Do older adults with HIV know how to protect or improve their cognition? E-poster presented at the 26<sup>th</sup> European Congress of Psychiatry, Nice, France. (\*faintp)
563. **Vance, D. E.**, & Fazeli, P. L. (March, 2018). The association between olfactory functioning in aging African American and Caucasian men with HIV and cognitive functioning. E-poster presented at the 26<sup>th</sup> European Congress of Psychiatry, Nice, France. (\*faintp)
564. **Vance, D. E.**, & Fazeli, P. L. (March, 2018). The association of olfaction on everyday outcomes in older African American and Caucasian men with HIV: A pilot study. E-poster presented at the 26<sup>th</sup> European Congress of Psychiatry, Nice, France. (\*faintp)
565. Cody, S. L., Crowe, M. G., Fazeli, P. L., Heaton, K., Kempf, M. C., Moneyham, L. D., Stavrinou, D., & **Vance, D. E.** (March, 2018). The effects of combined transcranial direct current stimulation and speed of processing training on sleep quality in older HIV-positive and HIV-negative adults. E-poster presented at the 26<sup>th</sup> European Congress of Psychiatry, Nice, France. (\*intp)
566. **Vance, D. E.**, Fazeli, P. L., Cheatwood, J., & Nicholson, C. (March, 2018). A meta-review of prevention, remediation, and compensation/adaptation approaches to address HIV-associated neurocognitive disorders: Implications for

- an aging population. E-poster presented at the 26<sup>th</sup> European Congress of Psychiatry, Nice, France. (*\*faintp*)
567. **Vance, D. E.** (March, 2018). NeuroAIDS and cognitive aging: Updates on current trends and interventions. Invited speaker to the John's Hopkins University 12<sup>th</sup> Annual Graying of HIV Conference, Baltimore, MD. (*\*fanatp*)
568. **Vance, D.**, Fazeli, P., Morrison, S., Cheatwood, J., & Nicholson, C. (March, 2018). Cognitive interventions and cognitive training in adults with HIV: A state of the science. Poster presented at the 12<sup>th</sup> CONy World Congress on Controversies in Neurology, Warsaw, Poland. (*\*faintp*) (*\*studconf*)
569. **Vance, D.**, Aroke, E., Cheatwood, J., Nicholson, C., & Fazeli, P. L. (March, 2018). What is the utility of the HIV-associated neurocognitive disorder (HAND) diagnosis?. Poster presented at the 12<sup>th</sup> CONy World Congress on Controversies in Neurology, Warsaw, Poland. (*\*faintp*) (*\*studconf*)
570. **Vance, D.**, Diehl, D., Tende, F., Jensen, M., & Fazeli, P. L. (March, 2018). Individualized-targeted computerized cognitive training to treat HIV-associated neurocognitive disorder: A case comparison study. What is the utility of the HIV-associated neurocognitive disorder (HAND) diagnosis?. Poster presented at the 12<sup>th</sup> CONy World Congress on Controversies in Neurology, Warsaw, Poland. (*\*faintp*)
571. Dumond, J., Bay, C., Nelson, J., Sykes, C., Anastos, K., Sharma, R., Kassaye, S., Villacres, M., Greenblatt, R., French, A. L., Gange, S., Ofotokun, I., Fischel, M., **Vance, D.**, & Adimora, A. (March, 2018). Higher NRTI metabolite: Endogenous nucleotide ratios in older HIV+ women on TDF/FTC. Poster presented at the Conference on Retroviruses and Opportunistic Infections, Boston, MA. (*\*natp*)
572. Radtke, K. K., Bacchetti, P., Rubin, L. H., Anastos, K., Crystal, H., Merenstein, D., Karim, R., Weber, K. M., Edmonds, A., Sheth, A. N., Fischl, M., **Vance, D.**, & Greenblatt, L. (March, 2018). Use of non-antiretroviral medications that may impact neurocognition. Poster presented at the Conference on Retroviruses and Opportunistic Infections, Boston, MA. (*\*natp*)
573. Cody, S. L., Crowe, M. G., Fazeli, P. L., Heaton, K., Kempf, M-C., Moneyham, L. D., Stavrinou, D., & Vance, D. E. (March 2018). The effects of speed of processing training with transcranial direct current stimulation on sleep quality and speed of processing in older adults with and without HIV. Poster presented at UAB 13th Annual Health Disparities Research Symposium, University of Alabama at Birmingham, Birmingham, AL. (*\*locp*) (*\*studconf*)
574. Bail, J., Ivankova, N., Heaton, K., **Vance, D.**, Triebel, K., Meneses, K. (March, 2018). Cancer-related symptoms and cognitive intervention adherence among breast cancer survivors. Poster presentation at the 42nd Annual American

Society of Preventive Oncology (ASPO) Conference, New York, NY. (\*natp)

575. **Vance, D. E.** (April, 2017). Pointers and pitfalls of publishing systematic reviews: Lessons learned. Invited lecturer for the NRMQ 750 Foundations of Quantitative Research, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
576. **Vance, D. E., & Fazeli, P. L.** (April, 2017). Cognitive training in older adults with HIV: Lessons from the THINKFAST and TOPS Studies. Invited speaker to the Comprehensive Center for Healthy Aging's Scientific Seminar Series, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
577. **Vance, D. E.** (May, 2018). Neuroplasticity and cognitive interventions: Practical implications for nursing practice and research. Invited Keynote Speaker to the Institute on Nursing Conference, New York City, NY. (\*fanatp)
578. Pope, C. N., Stavrinou, D., **Vance, D. E.**, Ball, K. K., Mrug, S., & Fazeli, P. L. (May, 2018). The association between age, disease state, and cognitive reserve on cognitive performance in adults aging with and without HIV. Poster presented at the Cognitive Aging Conference, Atlanta, GA. (\*natp)
579. Cheatwood, J., & **Vance, D. E.** (June, 2018). Cognitive training in adults with HIV-associated neurocognitive disorder: A systematic review. Poster presented at the UAB School of Nursing PhD Intensive Conference, Birmingham, AL. (\*locp)
580. Nicholson, W. C., & **Vance, D. E.** (June, 2018). HIV, aging, and cognitive function: Can heart rate variability be used as biomarker for self-regulation? Poster presented at the UAB School of Nursing PhD Intensive Conference, Birmingham, AL. (\*locp)
581. **Vance, D. E.** (June, 2018). Research and resilience: An atypical journey. Podium presentation at the UAB School of Nursing PhD Intensive Conference, Birmingham, AL. (\*falocp)
582. **Vance, D. E.** (June, 2018). Figure and tables: How to make your article sparkle!!! Invited speaker to the NRM 760 Scientific Dissemination Class, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
583. **Vance, D. E.** (July, 2018). Cognitive training protocols in middle-aged and older adults with HIV. Invited Keynote Speaker at the Sustained Training in Aging and HIV Research Program (STHR) Program (An NIH-funded research program at the University of California San Diego at the Neurobehavioral HIV Research Center (NHRC), PIs: D. Jeste & S. Letendre). \*All expenses paid. (\*KA)
584. Diehl, D., Pope, C. N., Stavrinou, D., Bell, T. R., **Vance, D. E.**, & Fazeli, P. L.

- (August, 2018). Association between executive function difficulty and quality of life in older adults with HIV. Poster presented at the 2018 American Psychological Association Convention, San Francisco, CA. (\*natp) (\*studconf)
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585. Pope, C. N., Stavrinou, D., **Vance, D. E.**, Ball, K. K., Mrug, S., & Fazeli, P. L. (August, 2018). Associations between age, HIV disease state, and cognitive reserve on cognitive performance. Poster presented at the 2018 American Psychological Association Convention, San Francisco, CA. (\*natp)
586. **Vance, D. E.** (August, 2018). Constructing a winning aims page for NIH. Invited speaker to the NRM 780 Class: Application of Research Design Principles I, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
587. **Vance, D. E.** (September, 2018). Assessment and management of HIV neurocognitive disorders. Advanced Management Issues in HIV Care Conference, Case Western University, Cleveland, OH. (\*fanatp)
588. **Vance, D. E.** (October, 2018). Fundamentals of writing for publication in healthcare and academic journals. Invited speaker to the Children's Hospital Nursing Scholar's Program, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
589. **Vance, D. E.**, Fazeli, P. L., Cheatwood, J., Nicholson, C., Morrison, S., & Moneyham, L. D. (October, 2018). Can HIV-associated neurocognitive disorder (HAND) be treated with computerized cognitive training? Evidence from a systematic review. Poster presented at the 20<sup>th</sup> International Workshop on Comorbidities and Adverse Drug Reactions in HIV, New York, NY. (\*faintp) (\*studconf)
590. Nicholson, W. C., Durand, S., Shacka, J. J., McGuinness, T. M., & **Vance, D. E.** (2018, October). Trauma-based disorders and the cardio-neural mechanisms involved in dysfunctional self-regulation. Pre-Conference Invited Podium Presentation. 32nd Annual American Psychiatric Nurses Association Conference, Columbus, OH. (\*fanatp) (\*studconf)
591. Fazeli, P. L., Wood, S. P., Gakumo, A., & **Vance, D. E.** (November, 2018). Neurocognitive functioning is associated with self-reported HIV treatment management abilities in HIV+ adults with health literacy impairment. Poster presented at the annual Association of Nurses in AIDS Care conference, Denver, CO. (\*natp)
592. **Vance, D. E.**, Fazeli, P. L., Cheatwood, J., Nicholson, C., Morrison, S., & Moneyham, L. D. (November, 2018). Can computerized cognitive training address the neurocognitive complications of HIV?: A systematic review. Poster presented at the annual Association of Nurses in AIDS Care conference, Denver, CO. (\*fanatp) (\*studconf)



593. Morrison, S., Fazeli, P. L., Gower, B., Willig, A., & **Vance, D.** (November, 2018). The effects of the ketogenic diet on cognitive performance in older adults with cognitive deficits: A randomized pilot trial. Poster presented at the annual Association of Nurses in AIDS Care conference, Denver, CO. (\*fanatp)
594. Halpin, S. N., Ge, L., Mehta, G., Gustafson, D., Robertson, K., **Vance, D.**, & Ofotokun, I. (November, 2018). Psychosocial resources and emotions in women with HIV-related cognitive impairment: Applying the Socio-Emotional Adaptation Theory. Podium presentation at the Gerontological Society of America, Boston, MA. (\*intp)
595. Rubtsova, A., Holstad, M., Wingood, G., **Vance, D.**, Sharma, A., Gustafson, D., Adimora, A. A., & Ofotokun, I. (November, 2018). Subjective successful aging among older HIV+ and HIV- women enrolled in the Women's Interagency HIV Study (WIHS). Podium presentation at the Gerontological Society of America, Boston, MA. (\*natp)
596. **Vance, D. E.** (December, 2018). HIV and cognition: What patients and caregivers should know about aging with HIV. Invited speaker to the UAB 1917 Clinic HIV/AIDS Community Advisory Board, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
597. **Vance, D.**, Frank, J., Antia, L., Heaton, K., Harper, D., Moneyham, L., & Meneses, K. (January, 2019). PhD in nursing: A BSN-to-PhD or 3-year accelerated model to the research doctorate. Podium presentation at the 2019 Doctoral Education Conference, Doctoral Education: From Discovery to Translation, American Association of Colleges of Nursing, San Diego, CA. (\*fanatp)
598. Heaton, K., **Vance, D.**, Frank, J., Antia, L., & Moneyham, L. (January, 2019). MAP-QIF: Providing direction for PhD student success. Poster presented at the 2019 Doctoral Education Conference, Doctoral Education: From Discovery to Translation, American Association of Colleges of Nursing, San Diego, CA. (\*natp)
599. Sharma, A., Hoover, D. R., Shi, Q., Holman, S., Plankey, M. W., Tien, P., Weber, K., Floris-Moore, M., Bolivar, H. H., **Vance, D. E.**, Golub, E. T., Holstad, M. M., & Rubin, L. H. (March, 2019). Impaired cognition predicts falls among HIV-infected and uninfected women. Poster presented at the Conference on Retroviruses and Opportunistic Infections, Seattle, Washington. (\*natp)
600. Walker, T. J., Robinson, J. J., & **Vance, D. E.** (March, 2019). Racial differences in olfaction and cognition in adults with HIV. Poster presented at the 2019 Southeastern Psychological Association Annual Meeting, Jacksonville, FL. (\*natp)
601. **Vance, D. E.**, Robinson, J. J., Walker, T., Tende, F., Bradley, B., Diehl, D., McKie, P., & Fazeli P. L. (March, 2019). Participant reactions to possible diagnoses of HIV-Associated Neurocognitive Disorder: A qualitative

- analysis. Podium presentation at the 2019 Southeastern Psychological Association Annual Meeting, Jacksonville, FL. (\*fanatp)
602. Robinson, J. J., Walker, T., Fazeli P. L. & **Vance, D. E.** (March, 2019). What is the utility of the HIV-Associated Neurocognitive Disorder (HAND) diagnosis? Poster presented at the 2019 Southeastern Psychological Association Annual Meeting, Jacksonville, FL. (\*natp)
603. **Vance, D. E.** (March, 2019). Pointers on how to structure a systematic review: Guest lecturer in NRM 750 Foundation of Quantitative Research, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
604. **Vance, D. E.** (April, 2019). Cognitive training and cognitive interventions in adults with HIV. Invited speaker to the Department of Neuroscience Seminar Series, Georgetown University, Washington, D.C. (\*fanatp)
605. **Vance, D. E.** (April, 2019). The joy of neuroplasticity: Strategies for maintaining cognitive health! Invited speaker to the 7<sup>th</sup> Annual Young Breast Cancer Survivors Workshop, Birmingham, AL. (\*falocp)  
<https://youtu.be/yQtmpvqPpkY>
606. Ashley, K. D., **Vance, D. E.**, & Fazeli, P. L. (April, 2019). Predictors of employment in middle-aged and older adults with HIV: Implications for occupational health nursing. Poster presented to the American Association of Occupational Health Nurse (AAOHN), Jacksonville, FL. (\*natp)
607. **Vance, D. E.**, Tende, F., Robinson, J. J., Walker, T., Bradley, B., McKie, P., & Fazeli P. L. (April, 2019). The effects of speed of processing training in middle-age and older adults with HIV-associated neurocognitive disorder: Preliminary findings from the THINKFAST study. Poster presented at the 2019 HIV and Aging: From Mitochondria to the Metropolis Conference, Emory University, Atlanta, GA. (\*fanatp)
608. Morrison, S., Fazeli, P. L., Gower, B., Willig, A. L., Younger, J., Sneed, N. M., & **Vance, D. E.** (April, 2019). Can a ketogenic diet improve cognition in older adults with HIV: A feasibility study. Poster presented at the 2019 HIV and Aging: From Mitochondria to the Metropolis Conference, Emory University, Atlanta, GA. (\*natp)
609. **Vance, D. E.**, Cody, S. L., Nicholson, C., Cheatwood, J., Morrison, S., & Fazeli, P. L. (April, 2019). The association between cognition and olfaction in middle-age and older African American and Caucasian men with HIV: A pilot study. Poster presented at the 2019 HIV and Aging: From Mitochondria to the Metropolis Conference, Emory University, Atlanta, GA. (\*fanatp)
610. **Vance, D. E.**, Robinson, J. J., Walker, T., Tende, F., Bradley, B., Diehl, D., McKie, P., & Fazeli P. L. (April, 2019). A qualitative analysis of participants'

- reactions to a possible HIV-associated neurocognitive disorder (HAND) diagnosis. Poster presented at the 2019 HIV and Aging: From Mitochondria to the Metropolis Conference, Emory University, Atlanta, GA. (\*fanatp)
611. Rubtsova, A. A., Wingood, G., Ofotokun, I., **Vance, D. E.**, Gustafson, D., Sharma, A., Adimora, A. A., & Holstad, M. (April, 2019). Psychosocial correlates of successful aging among older HIV-infected and HIV-uninfected women: No difference by HIV status. Poster presented at the HIV and Aging: From Mitochondria to the Metropolis Conference, Emory University, Atlanta, GA. (\*natp)
612. Halpin, S. N., Ge, L., Mehta, C. C., Gustafson, D., Robertson, K., **Vance, D. E.**, Ofotokun, I. (April, 2019). Emotions in women with HIV and cognitive impairment: An interdisciplinary transfer of concept. Poster presented at the HIV and Aging: From Mitochondria to the Metropolis Conference, Emory University, Atlanta, GA. (\*natp)
613. Cheatwood, J. D., & **Vance, D. E.** (June, 2019). Multimodal cognitive interventions in community-dwelling older adults: A systematic review. Poster presented at the UAB PhD Summer Intensive, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*locp)(\*studconf)
614. **Vance, D. E.**, Jablonski, R. A., & Bakitas, M. (June, 2019). Research trajectories and aligning to funding opportunities. Invited speaker to the School of Nursing PhD Intensive, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
615. **Vance, D. E.** (June, 2019). Resilience in research: What every PhD student needs to know. Invited speaker to the School of Nursing PhD Intensive, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
616. **Vance, D. E.** (June, 2018). Tables and figures: How to make your article sparkle!!! Invited speaker to the NRM 760 Scientific Dissemination Class, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
617. **Vance, D. E.**, Cody, S. L., Nicholson, C., Cheatwood, J., Morrison, S., Antia, L., & Fazeli, P. L. (June/July, 2019). Does olfactory dysfunction predict cognitive dysfunction?: Implications for men aging with HIV. Poster presented at the 5<sup>th</sup> Congress of the European Academy of Neurology, Oslo, Norway. (\*faintp)
618. **Vance, D. E.**, Robinson, J. J., Walker, T., Tende, F., Bradley, B., Diehl, D., & McKie, P., Antia, L., & Fazeli P. L. (June/July, 2019). Should patients be told of their HIV-associated neurocognitive disorder diagnosis? A qualitative analysis. Poster presented at the 5<sup>th</sup> Congress of the European Academy of Neurology, Oslo, Norway. (\*faintp)
619. Morrison, S., Fazeli, P. L., Gower, B., Willig, A. L., Younger, J., Sneed, N. M., Anita, L., & **Vance, D. E.** (August 2019). The effect of a ketogenic diet on cognition in older adults with HIV: A pilot study. Poster presented at the 5<sup>th</sup>

Congress of the European Academy of Neurology, Oslo, Norway. (\*inatp)

620. **Vance, D. E.**, Cody, S. L., Nicholson, C., Cheatwood, J., Morrison, S., & Fazeli, P. L. (August, 2019). The relationship between olfaction and cognition: Implications for men aging with HIV. Poster presented at the 19<sup>th</sup> World Psychiatric Association World Congress of Psychiatry, Lisbon, Portugal. (\*faintp)
621. **Vance, D. E.**, Robinson, J. J., Walker, T., Tende, F., Bradley, B., Diehl, D., McKie, P., & Fazeli P. L. (August, 2019). Should patients be told they have HIV-Associated Neurocognitive Disorder? Poster presented at the 19<sup>th</sup> World Psychiatric Association World Congress of Psychiatry, Lisbon, Portugal. (\*faintp)
622. Morrison, S., Fazeli, P. L., Gower, B., Willig, A. L., Younger, J., Sneed, N. M., & **Vance, D. E.** (August 2019). The cognitive effects of a ketogenic diet on HIV-associated neurocognitive impairment in older adults with HIV: A feasibility study. Poster presented at the 19<sup>th</sup> World Psychiatric Association World Congress of Psychiatry, Lisbon, Portugal. (\*inatp)
623. Jackson, E., **Vance, D. E.**, Hidalgo, B., Chaplain, D., & Mugavero, M. J. (August, 2019). Tiers mentoring panel. Center for Clinical and Translational Science, University of Alabama at Birmingham, Birmingham, AL. (\*locp)
624. Treston, C., **Vance, D.**, Baker, D., Kwong, J., & Jacobs, D. L. (September, 2019). HIV and aging symposium: Healthy aging with HIV: Tips on managing, surviving and thriving. ANAC Board of Directors presenting at the USCA Health Care Providers Pathway Conference, Washington, D.C. (\*natp)
625. **Vance, D. E.** (September, 2019). Career path in psychology: A set up for multidisciplinary participation. Presented to the Lifespan Developmental Psychology Program Seminar, Department of Psychology, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
626. Robinson, J. J., **Vance, D. E.**, Jensen, M., Walker, T. J., Tende, F., Diehl, D., Cheatwood, J., McKie P., & Fazeli, P. L. (October, 2019). Informing adults of possible HIV-associated neurocognitive disorders: A qualitative analysis. Poster submitted for presentation at the 2019 University of Alabama at Birmingham Comprehensive Neuroscience Center Retreat, Birmingham, AL. (\*locp)
627. Robinson, J. J., **Vance, D. E.**, Tende, F., Walker, T. J., Bradley, B., McKie P., & Fazeli, P. L. (October, 2019). Useful Field of View (UFOV ®) improvements with cognitive training in older adults with probable HAND. Poster submitted for presentation at the 2019 University of Alabama at Birmingham Comprehensive Neuroscience Center Retreat, Birmingham, AL. (\*locp)
628. Robinson, J. J., Walker, T. J., McKie P., & **Vance, D. E.** (October, 2019). Olfactory and cognitive discrepancies in older Caucasians and African

- Americans with HIV. Poster submitted for presentation at the 2019 University of Alabama at Birmingham Comprehensive Neuroscience Center Retreat, Birmingham, AL. (\*locp)
629. Nicholson, W. C., Moneyham, L., & **Vance, D. E.** (2019, October). The Central Autonomic Memory Network: A theoretical model for understanding the neurobiological basis of trauma and suicidal behaviors. Podium presentation to the 33rd Annual American Psychiatric Nurses Association Conference, New Orleans, LA. (\*natp) (\*studconf)
630. Sharma, A., Hoover, D. R., Gustafson, D., Plankey, M., Tien, P. C., Weber, K., **Vance, D. E.**, Floris-Moore, M., Bolivar, H. H., Golub, E. T., Holstead, M. M., & Yin, M. T. (October, 2019). Frailty predicts recurrent falls among older women with and without HIV. 10<sup>th</sup> International Workshop on HIV and Aging Conference, New York, NY. (\*intp)
631. Hopkins, C., Fazeli, P. L., Woods, S. P., Lambert, C. C., & **Vance, D. E.** (October, 2019). Neurocognitive functioning is associated with self-reported and performance-based treatment management abilities in people living with HIV with low health literacy. Poster presented at the 2019 University of Alabama at Birmingham Comprehensive Neuroscience Center Retreat, Birmingham, AL. (\*locp)
632. **Vance, D. E.**, & Becker, J. T. (October, 2019). MACS/WIHS/CCS Neuropsychology updates: Ongoing science. MWCCS Executive Committee Meeting, Chicago, IL. (\*fanatp)
633. Nicholson, W. C., **Vance, D. E.**, Kempf, M. C., Weber, K., & Cohen, M. (October, 2019). Vagal-mediated autonomic nervous system dysregulation as a potential mechanism for psychomotor impairments. MWCCS Executive Committee Meeting, Chicago, IL. (\*natp)
634. **Vance, D. E.**, Tende, F., Robinson, J. J., Walker, T., Bradley, B., McKie, P., Cheatwood, J., & Fazeli P. L. (November, 2019). Does speed of processing training improve cognitive efficiency in adults with HIV-Associated Neurocognitive Disorder? Findings from the THINKFAST Study. Poster presented at the Association of Nurses in AIDS Care, Portland, OR. (\*fanatp) (\*studconf)
635. Fazeli, P. L., Woods, S. P., & **Vance, D. E.** (November, 2019). Successful functioning aging in middle-aged and older adults with HIV. Podium presentation at the Association of Nursing in AIDS Care annual conference, Portland, OR. (\*natp)
636. Cody, S. L., Fazeli, P. L., Cheatwood, J., Robinson, J., & **Vance, D. E.** (November, 2019). The impact of individualized cognitive training on quality of life and medication adherence in adults with HIV-associated neurocognitive

- disorder. Podium presentation at the Association of Nurses in AIDS Care annual conference, Portland, OR. (\*natp) (\*studconf)
637. Dastgheyb, R., Fitzgerald, K. C., Chan, C., Buchholz, A. S., Xu, Y., Williams, D. W., Springer, G., Anastos, K., Gustafson, D. R., Spence, A. B., Adimora, A. A., Waldrop-Valverde, D., **Vance, D. E.**, Miliam, J., Bolivar, H., Haughey, N. J., Maki, P. M., & Rubin, L. H. (November, 2019). Neurocognitive profiles among virally suppressed women with HIV. 16<sup>th</sup> International Symposium on NeuroVirology Conference, Atlanta, GA. (\*natp)
  638. **Vance, D. E.** (December, 2019). A researcher's perspective on the IRB: Tips and pointers. Invited speaker to the NRM 752: Responsible Conduct of Research, PhD Program, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
  639. **Vance, D. E.** (January, 2020). Cognitive interventions for adults aging with HIV. Noon seminar series of the Behavioral Neurology and Neuropsychology Group, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
  640. **Vance, D. E.**, Frank, J., Antia, L., Heaton, K., Jablonski, R., Moneyham, L., & Harper, D. (January, 2020). How many publications should one have to submit to NIH? Important trends for emerging PhD researchers. Poster presentation at the 2020 Doctoral Education Conference, American Association of Colleges of Nursing (AACN), Naples, FL. (\*fanatp)
  641. **Vance, D. E.**, Frank, J., Antia, L., Heaton, K., Jablonski, R., Moneyham, L., & Harper, D. (January, 2020). The ABCs of promoting collaboration and productivity of nurse scientists via a research retreat. Podium presentation at the 2020 Doctoral Education Conference, American Association of Colleges of Nursing (AACN), Naples, FL. (\*fanatp)
  642. **Vance, D. E.** (February, 2020). Cognitive training protocols in different clinical populations: Avenues for collaboration. Presentation for the Works In Progress Series (WIPS), Basic Research at University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
  643. **Vance, D. E.** (February, 2020). Cognitive aging with HIV: Implications for practice and research. Invited distinguished lecturer at the School of Nursing, University of Miami, Miami, FL. (\*fanatp)
  644. Hardy, C., Dennis, E., McKie, P., Robinson, J., Hopkins, C., Bradley, B., Fazeli, P. L., Vance, D. E. (April, 2020). Cognitive predictors of medication adherence in adults with HIV. Poster presentation at the University of Alabama at Birmingham 2019 Spring Undergraduate Research Expo. Birmingham, Alabama. (\*locp) (\*studconf)
  645. **Vance, D. E.** (April, 2020). Conducting systematic review: Tricks and tips. Invited

- speaker to the NRM 750 Foundations for Quantitative Research, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
646. **Vance, D. E. (Moderator)**, Fellows, L. K., Mayo, N. E., Brouillette, M. J. (April/May, 2020). A roadmap for brain health in HIV: New views and practical tools for the Canadian context. CAHR (Canadian Association for HIV Research) 2020 Virtual Conference: Hope, Victories and Perseverance beyond 2020. (\*faintp)
  647. **Vance, D. E.** (May, 2020). Tips on finding, starting, and finishing small writing projects. Invited speaker to the UABSON PhD Townhall, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
  648. Pope, N. C., Stavrinou, D., Fazeli, P. L., & **Vance, D. E.** (September/October 2020). The association between transportation barriers and health status in middle-aged and older adults living with HIV in the Deep South. Presentation to the International Workshop on HIV & Aging 2020, New York, NY. (\*natp)
  649. **Vance, D. E.**, & Rubin, L. (October, 2020). MWCCS Neuropsychology Working Group update. Presentation at the National MWCCS Executive Committee Meeting, (virtual presentation), Johns Hopkins University, Baltimore, MD. (\*fanatp)
  650. Robinson, J., Walker, T., Bradley, B., McKie, P., Fazeli, P. L., & **Vance, D. E.** (November, 2020). Driving habits and cognition of middle age- and older adults with HIV. Virtual poster presentation to the annual conference of the Association of Nurses in AIDS Care, Tampa, FL. (COVID – Changed to a virtual conference) (\*natp)
  651. Rubtsova, A. A., Wingood, G., Ofotokun, I., Mehta, C. C., Gustafson, D., **Vance, D. E.**, Sharma, A., Adimora, A. A., & Holstad, M. (November, 2020). Psychosocial mechanisms of self-rated successful aging among older women living with HIV: A structural equation model. Abstract submitted to the Gerontological Society of American, Philadelphia, PA. (\*natp)
  652. Psomas, C. K., Hoover, D., R., Shi, Q., Brown, T., **Vance, D. E.**, Holman, S., Plankey, M. W., Tien, P. C., Weber, K. M., Floris-Moore, M., Bolivar, H. H., Golub, E. T., McDonnell, M., Erlandson, K., Rubin, L. H., & Sharma, A., (October, 2020). Medications with neurocognitive adverse effects associated with falls among women with and at risk of HIV infection. International HIV and Aging Conference, New York, NY. (\*natp)
  653. Fazeli, P. L., Chapman Lambert, C., Hopkins, C. N., & **Vance, D. E.** (November, 2020). Correlates of psychological resilience in people age with HIV in the Deep South. Oral presentation at the annual conference of the Association of Nurses in AIDS Care, Tampa, FL. (COVID – Changed to a virtual conference) (\*natp)

654. **Vance, D. E.** (December, 2020). A researcher's perspective on working with the IRB: Tips and pointers. Invited speaker to the NRM 752: Responsible Conduct of Research, PhD Program, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
655. Levi, P., Patrician, P. A., **Vance, D. E.**, Montgomery, A., & Moss, J. (February, 2021). Post-traumatic stress disorder in intensive care unit nurses: A concept analysis. Poster presented at the Southern Regional Occupational Health Research Symposium, Birmingham, AL (online). (\*locp) (\*studconf)
656. Anderson, A., Bhondoeckhan, F., Curanovic, D., Connelly, M. A., Otvos, J. D., Post, Michos, Wolinsky, M., Levine, A., Seaberg, M., Rubin, L. H., **Vance, D. E.**, & Becker, J. (March, 2021). GlycA is associated with neuropsychological impairment in predominantly HIV+ men. Work presented at the Conference on Retroviruses and Opportunistic Infections (CROI) (virtual presentation due to COVID-19). San Francisco, CA. (\*natp)
657. Jacob, A., Fazeli, P. L., Crowe, M., Azuero, A., & **Vance, D. E.** (April, 2021). Predictors of subjective and objective everyday functioning and awareness of functional difficulties in middle-aged and older adults with HIV-associated neurocognitive disorder. Poster presented at the HIV & Aging: Mitochondria to the Metropolis: Population Determinants of Health Virtual Conference, Atlanta, GA. (\*natp) (\*studconf)
658. Wise, J. M., Ott, C., Konkle-Parker, D., Raper, J. L., Heaton, K., **Vance, D. E.**, Azuero, A., Wingood, G., Adimora, A. A., Golub, E. T. & Kempf, M-C (April, 2021). Elucidating the psychosocial context of employment and occupational productivity among women living with HIV. Podium presentations at the International Workshop on HIV & Women (virtual conference due to COVID-19). (\*natp) (\*studconf)
659. Pope, C. N., Stavrinou, D., Fazeli, P. L., & **Vance, D. E.** (April, 2021). Transportation barriers and health status in middle-aged and older adults living with HIV in the Deep South. Selected for oral presentation at the HIV & Aging: Mitochondria to the Metropolis – Population Determinants of Health 2021, Decatur, GA (virtual). (\*natp)
660. Robinson, J. J., Walker, T. J., Bradley, B., McKie, P., Pope, C., Fazeli, P. L., & **Vance, D. E.** (April, 2021). The impact of neurocognition on driving habits in older adults with HIV. Work presented at the HIV & Aging: Mitochondria to the Metropolis: Population Determinants of Health Virtual Conference, Atlanta, GA. (\*natp)
661. **Vance, D. E.**, Fazeli, P. L., Azuero, A., Wadley, V. G., Raper, J. L., & Ball, K. K. (April, 2021). Utilizing individualized-targeted computerized cognitive training in adults with HIV-Associated Neurocognitive Disorder? Results from the Training on Purpose Study (TOPS). Work presented at the HIV & Aging: Mitochondria to



- the Metropolis: Population Determinants of Health Virtual Conference, Atlanta, GA. (\*natp)
662. Fazeli, P. L., Cheatwood, P. L., Shirey, M., Azuero, A., Crowe, M., & **Vance, D. E.** (April, 2021). The association between personality traits and cognitive performance in middle-age and older adults with HIV. Work presented at the HIV & Aging: Mitochondria to the Metropolis: Population Determinants of Health Virtual Conference, Atlanta, GA. (\*natp)
  663. **Vance, D. E.** (June, 2021). Citations and Scopus scores: What every academic writer needs to know (for promotion and tenure). Invited speaker of the Appointment, Promotion, and Tenure Committee, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
  664. Levi, P., Patrician, P. A., **Vance, D. E.**, Montgomery, A., & Moss, J. (June 2, 2021). Post-traumatic stress disorder in intensive care unit nurses: A concept analysis. Center for Occupational and Environmental Health, University of California, Berkeley (Webinar). (\*natp)
  665. **Vance, D. E.**, Robinson, J. J., Walker, T. J., Bradley, B., McKie, P., Pope, C., & Fazeli, P. L. (July, 2021 – Switched to Virtual Conference). The association between driving habits and neurocognition in older adults with HIV. Poster presentation at the 32<sup>nd</sup> International Congress of Psychology (Psychology in the 21<sup>st</sup> Century: Open Minds, Societies, and World). Prague, Czech Republic. (\*faintp) (\*studconf)
  666. Byun, J., Chapman Lambert, C., & **Vance, D. E.** (September, 2021). An examination of successful aging with HIV plus chronic obstructive pulmonary disease through a biopsychosocial model. 1<sup>st</sup> Annual DNP and PhD Scholarship Collaborative, Sigma Nu at Large Chapter, Birmingham, AL. (\*studconf) (\*locp)
  667. Rubin, L. H., Neijna, A., Hoover, D. R., Psomas, C. Tamraz, B., Shi, Q., Anastos, K., Edmonds, A., Fischl, M. A., Gustafson, D., Maki, P. M., Merenstein, D., Sheth, A. N., Springer, G., **Vance, D. E.**, Weber, K. M., & Sharma, A. (September, 2021). Polypharmacy and cognitive function in older women with and without HIV. Podium presentations at the International Workshop on HIV & Aging (virtual conference). American Medical Education, a platform of Virology Education. (\*natp)
  668. Lee, Y., Batey, D. S., & **Vance, D. E.** (October, 2021). Older caregivers with HIV (CWH): How did they differ from older caregivers without HIV in South Africa? Poster presentation at the American Public Health Association annual conference, Denver, CO. (\*natp)

669. Lee, Y., Batey, D. S., & **Vance, D. E.** (October, 2021). Comments from older caregivers with HIV in South Africa: Difficulties and needs. Poster presentation at the American Public Health Association annual conference, Denver, CO. (\*natp)
670. Lee, Y., Batey, D. S., & **Vance, D. E.** (October, 2021). Comparisons between older caregivers with HIV and those without HIV in Uganda. Poster presentation at the American Public Health Association annual conference, Denver, CO. (\*natp)
671. Rubin, L., & **Vance, D. E.** (October 2021). Scientific updates of the MWCCS Neuropsychology Working Group. National oral presentation to the Executive Committee, CAB, and guests of the MACS/WIHS Combined Cohort Study (virtual presentation). (\*natp)
672. Jacob, A., Fazeli, P. L., Crowe, M., & **Vance, D. E.** (November, 2021). Predictors of subjective and objective everyday functioning in middle-aged and older adults with HIV. Poster presented at the 2021 National Academy of Neuropsychology, Inc., Neuropsychology and Neurorehabilitation: Future of Clinical Practice, Washington, DC. (\*natp) (\*studconf)
673. Martin, K. M., Del Bene, V. A., Triebel, K., Wheeler, P., & Vance, D. (November, 2021). Positive associations between cognition and openness in HIV+ individuals with detectable viral loads. Poster presented at the 2021 National Academy of Neuropsychology, Inc., Neuropsychology and Neurorehabilitation: Future of Clinical Practice, Washington, DC. (\*natp) (\*studconf)
674. Jacob, A., Fazeli, P. L., Crowe, M., & **Vance, D. E.** (November, 2021). Predictors of objective and subjective everyday functioning in middle-aged and older people with and without HIV-associated neurocognitive disorder. Podium presentation at the Association of Nurses in AIDS Care, Washington, DC. (\*natp) (\*studconf)
675. **Vance, D. E.**, Fazeli, P. L., Azuero, A., Pope, C. N., Frank, J. S., Wadley, V. G., Raper, J. L., Byun, J. Y., & Ball, K. K. (November, 2021). The effect of individualized-targeted computerized cognitive training on quality of life indicators in adults with HIV-associated neurocognitive disorder. Podium presentation at the Association of Nurses in AIDS Care, Washington, DC. (\*fanatp) (\*studconf)
676. Lee, Y., Batey, D. S., & **Vance, D. E.** (November, 2021). Differences in difficulties and needs in caregiving between older caregivers with HIV and those without HIV in South Africa. Poster presentation at the Association of Nurses in AIDS Care, Washington, DC. (\*natp) (\*studconf)
677. Lee, Y., Batey, D. S., & **Vance, D. E.** (November, 2021). Older caregivers with HIV and those without HIV in Uganda: An exploratory research. Presentation at the Association of Nurses in AIDS Care, Washington, DC. (\*natp)
678. **Vance, D. E.**, Del Bene, V. A., Frank, J. S., Billings, R., Triebel, K., Buchholz, A.,

- Rubin, L. H., Woods, S. P., Li, W., Byun, J. Y., & Fazeli, P. L. (November, 2021). Understanding the utility of cognitive intra-individual variability in HIV: Implications for neuroscience nursing. Poster presented at the Association of Nurses in AIDS Care, Washington, DC. (\*fanatp) (\*studconf)
679. **Vance, D. E.** (December, 2021). Neurocognitive assessment of adults with HIV. Recorded internet module for the American Academy of HIV Medicine. (Compensated \$1,000). (\*fanatp)  
[Primary Care and HIV: Neurocognitive Assessment | American Academy of HIV Medicine \(pathlms.com\)](#)
680. **Vance, D. E.** (December, 2021). A researcher's perspective on navigating the IRB: Tips and pointers. Invited speaker to the NRM 752: Responsible Conduct of Research, PhD Program, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
681. **Vance, D. E.** (January, 2022). Brain health and cognition, aging and HIV. Recorded internet module for the ANAC's HIV and Aging Education Series, Association of Nurses in AIDS Care, Washington, DC. (Compensated \$1,000) (\*fanatp)
682. Fazeli, P. L., Woods, S. P., Chapman Lambert, C., Li, W., Hopkins, C. N., & **Vance, D. E.** (February, 2022). Differential associations between BDNF and memory across older black and white adults with HIV disease. Podium presentation at the International Neuropsychological Society, (moved to virtual) New Orleans, LA. (\*natp)
683. Li, W., Del Bene, V., Wang, G., Triebel, K., Martin, K., Byun, J., Azuero, A., Fazeli, P. L., & **Vance, D. E.** (February, 2022). Perceive effects of individualized cognitive training in adults with HAND. Poster presented at the International Neuropsychological Society, (moved to virtual) New Orleans, LA.. (\*natp) (\*studconf)
684. Martin, K. M., Frank, J. S., Nikkina, S. R., Anderson, J., Prahbu, S., Fazeli, P. L., Li, W., Del Bene, V., Triebel, K., & **Vance, D. E.** (February, 2022). A systematic review of the benefits of olfactory interventions on cognitive and neurological outcomes across clinical populations. Poster presented at the International Neuropsychological Society, (moved to virtual) New Orleans, LA. (\*natp) (\*studconf)
685. Del Bene, V. A., Fazeli, P. L., Martin, K., Collete, C., Triebel, K. L., Byun, J., Li, W., & **Vance, D. E.** (February, 2022). Increased cognitive intra-individual variability in adults with HIV-Associated Neurocognitive Disorder is not reduced following cognitive training. Poster presented at the International Neuropsychological Society, (moved to virtual) New Orleans, LA. (\*natp) (\*studconf)
686. **Vance, D. E.**, Del Bene, V. A., Frank, J. S., Billings, R., Bail, J., Li, W., Martin, K., Byun, J., Triebel, K., & Fazeli, P. L. (February, 2022). Cognitive intra-individual variability in breast cancer survivors: A systematic review. Poster presented at the International Neuropsychological Society, (moved to virtual)

New Orleans, LA. (*\*fanatp*) (*\*studconf*)

687. **Vance, D. E.**, Maki, P. M., Yu, D., Dastgheyb, R., Springer, G., Anastos, K., Gustafson, D. R., Weber, K. M., Dykxhoorn, D. M., Milam, J., Diaz, M. M., Kassaye, S. G., Waldrop, D., Xu, Y., & Rubin, L. H., (February 2022). Cognitive Predictors of Everyday Functioning in the Women's Interagency HIV Study. Work presented at the Conference on Retroviruses and Opportunistic Infections (CROI) (virtual presentation due to COVID-19). Denver, CO. (*\*fanatp*)
688. Jones, R., Enogela, E. M., Buchanan, T. L., Burford, T. W. **Vance, D. E.**, & Fazeli, P. L. (May/June, 2022). Inflammatory and cardiovascular correlates of physical activity in older adults living with HIV. Poster presented at the American College of Sports Medicine (ACSM) 2022 Annual Meeting and World Congresses, San Diego, CA. (*\*intp*) (*\*studconf*)
689. Puga, F., Aroke, E., Dionne-Odom, N., & **Vance, D. E.** (June, 2022). Panel on scientific writing. UAB SON PHD Intensive, University of Alabama at Birmingham, Birmingham, AL. (*\*locp*)
690. **Vance, D. E.** (June, 2022). Bits and pieces of scholarly writing. UAB SON PHD Intensive, University of Alabama at Birmingham, Birmingham, AL. (*\*falocp*)
691. **Vance, D. E.** (June, 2022). Resiliency in the PhD program. UAB SON PHD Intensive, University of Alabama at Birmingham, Birmingham, AL. (*\*falocp*)
692. **Vance, D. E.**, Ball, K. K., Azuero, A., Wadley, V. G., Pope, C., Raper, J. L., Jacob, A. E., Haase, S., Long, A. R., Byun, J. Y., Fazeli, P. L. (July/August, 2022). A 2-year longitudinal examination of dosage of speed of processing training on Useful Field of View performance in adults 40+ with HIV-associated neurocognitive disorder: Findings from the ThinkFast Study. ePoster presentation at the 24<sup>th</sup> International AIDS Conference, Montreal, Canada. (*\*locp*) (*\*studconf*)
693. Haase, S., Billings, R., **Vance, D. E.**, & Fazeli, P. L. (September, 2022). The association between intrapersonal resilience resources and quality of life among older person living with HIV: A systematic review. Podium presentation at the Alabama Psychological Association Annual Conference, Orange Beach, AL. (*\*faintp*) (*\*studconf*)
694. Byun, J., Chapman Lambert, C., Fazeli, P. L., Iyer, A. S., Batey, D. S., & **Vance, D. E.** (September, 2022). Intersectional stigma of older people with HIV and comorbid COPD living in Alabama: A qualitative case study. Poster presentation at the 2022 PhD/DNP Collaborative, UAB School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (*\*locp*) (*\*studconf*)
695. **Vance, D. E.** (October, 2022). Cognitive Intra-Individual Variability: Implications for aging and HIV research. Invited speaker to the Gustafson NeuroAging Lab,

Einstein College, Brooklyn, NY. (*\*fanatp*)

696. **Vance, D. E.** (October, 2022). Tips and tricks for NIH grant submission. Invited speaker to the School of Nursing, University of Cincinnati, Cincinnati, OH. (*\*fanatp*)
697. Hansel Robinson, J., Greenfield, M. J., Lokken, K., Vipul Shah, U., Agnihotri, S. P., Fazeli Wheeler, P., **Vance, D. E.**, Kennedy, R., Gerstenecker, A., Lazar, R. M., Martin, R. C., & Triebel Gerstenecker, K. (October, 2022). Characteristics of patients seeking treatment for “brain fog” secondary to Post-Acute Sequelae of COVID-19 (PASC) in the Deep South. Poster presentation at the National Academy of Neuropsychology Annual Conference, Denver, CO, United States. (*\*natp*)
698. Greenfield, M. J., Hansel Robinson, J., Fazeli Wheeler, P., Vipul Shah, U., **Vance, D. E.**, Agnihotri, S. P., Kennedy, R., Lokken, K., Triebel Gerstenecker, K., Gerstenecker, A., Martin, R. C., & Lazar, R. M. (October, 2022). Neuropsychiatric symptoms in Post-Acute Sequelae of COVID-19 (PASC). Poster presentation at the National Academy of Neuropsychology Annual Conference, Denver, CO, United States. (*\*natp*)
699. Fazeli, P. L., Willig, A., Oliveira, V., Buford, T., **Vance, D. E.**, Burkholder, G., Crane, H., Davey, C. H., Fleming, J., & Webel, A. R. (October, 2022). The association between objectively measured physical activity and cognitive functioning in older people with HIV. Presentation at the annual conference of the National Academy of Neuropsychology, Denver, CO. (*\*natp*)
700. Lokken, K., Greenfield, M. J., Hansel Robinson, J., Vipul Shah, U., Lazar, R. M., Kennedy, R. Martin, R. C., Triebel Gerstenecker, K., Gerstenecker, A., Fazeli Wheeler, P., Agnihotri, S. P., **Vance, D. E.** (October, 2022). Neurocognitive performance in post-acute sequelae of COVID-19 (PASC). Poster presentation at the National Academy of Neuropsychology Annual Conference, Denver, CO, United States. (*\*natp*)
701. **Vance, D. E.** (October, 2022). What you need to know about the UAB SON PhD program. Invited speaker to the UAB IRACDA-MERIT Program, University of Alabama at Birmingham, Birmingham, AL. (*\*falocp*)
702. **Vance, D. E.**, Fazeli P. L., Azuero, A., Frank, J. S., Wadley, V. G., Raper, J. L., Byun, J. Y., Pope, C. L., Jacobs, A., & Ball, K. K. (November, 2022). Speed of processing training improves visual attention and speed of processing in aging adults with HIV-associated neurocognitive disorder: Results of a 2-year longitudinal RCT. Oral presentation at the annual conference of the Association of Nurses in AIDS Care, Tampa, FL. (*\*fanatp*) (*\*studconf*)
703. **Vance, D. E.**, Fazeli, P. L., Azuero, A., Frank, J. S., Wadley, V. G., Raper, J. L., Pope, C. N., Jones, R., Byun, J. Y., & Ball, K. K. (November, 2022). Examining the transfer of useful field of view training to secondary cognitive domains in

- middle-aged and older adults with HIV. Oral presentation at the annual conference of the Association of Nurses in AIDS Care, Tampa, FL. (\*fanatp) (\*studconf)
704. \*Byun, J. Y., Chapman Lambert, C., Fazeli, P. L., Iyer, A. S., Batey, D. S., & **Vance, D. E.** (November, 2022). An exploration of intersectional stigma of older people living with HIV and COPD in Alabama: Three Case Studies. Poster presentation at the annual conference of the Association of Nurses in AIDS Care, Tampa, FL. (\*natp) (\*studconf)  
**\*Awarded Best Student Poster at the ANAC Conference!**
705. Lee, Y., Batey, D. S., & **Vance, D. E.** (November, 2022). An overlap in HIV, aging, and caregiving: Older people with HIV as caregivers. Poster presentation at the annual conference of the Association of Nurses in AIDS Care, Tampa, FL. (\*natp)
706. Long, A. R., **Vance, D. E.**, Delgadillo, J. D., Haase, S., & Fazeli, P. L. (November, 2022). Correlates of metamemory in people aging with HIV in the Deep South. Presentation at the annual conference of the Association of Nurses in AIDS Care, Tampa, FL. (\*natp) (\*studconf)
707. **Vance, D. E.** (December, 2022). Tips and pointers of working with the IRB. Invited speaker to the NRM 752: Responsible Conduct of Research, PhD Program, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
708. Lee, Y., Batey, D. S., & **Vance, D. E.** (November, 2022). Aging, HIV, and caregiving: “I am aging with HIV and grateful to be able to care for someone I love.” Presentation at the annual conference of the American Public Health Association, Boston, MA. (\*natp)
709. **Vance, D. E.** (December, 2022). Curriculum vitae and biosketches: The personal road map and living documents of scientists. Invited speaker to the All of Us/ANAC mentoring working group sponsored by NIH, Washington, DC. (\*fanatp)
710. **Vance, D. E.** (January, 2023). Cognitive intra-individual variability: Implications for aging and HIV. Invited speaker to the UAB/UMMC MWCCS Works in Progress Monthly Meeting, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
711. **Vance, D. E.** (February, 2023). If it is worth doing, it is worth publishing: Tips and tricks for publishing. Invited speaker to the DNP Intensive, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)
712. Delgadillo, J. D., Beltran-Najera, I., Long, A. R., Haase, S., **Vance, D. E.**, Woods, S. P., & Fazeli, P. L. (February, 2023). Health literacy mediates racial differences in cognitive functioning among people with and without HIV.

Presentation at the International Neuropsychological Society, San Diego, CA.  
(\*natp) (\*studconf)

713. Collette, C., Kamath, V., Del Bene, V. A., Jacob, A., Fazeli, P., & **Vance, D. E.** (February, 2023). Subjective and objective psychophysical olfactory dysfunction in men living with HIV. Presentation at the International Neuropsychological Society, San Diego, CA. (\*natp) (\*studconf)
714. Fazeli, P. L., Davey, C. H. Webel, A. R., Oliveira, V., Buford, T. W., **Vance, D. E.**, Burkholder, G., Crane, H. M., Fleming, J., & Willig, A. (February, 2023). Select dietary components are associated with better global cognition in adults with HIV. Presentation at the International Neuropsychological Society, San Diego, CA. (\*natp) (\*studconf)
715. Lokken, K., Hansel Robinson, J., Kennedy, R., **Vance, D. E.**, Lazar, R. M., Martin, R. C., Greenfield, M. J., Fazeli Wheeler, P., & Gerstenecker, A. (2023, February 1-4). Two dominant post-COVID subtypes in patients seeking treatment for “brain fog” through a post-COVID treatment clinic. Presentation at the International Neuropsychological Society, San Diego, CA. (\*natp) (\*studconf)
716. **Vance, D. E.** (March, 2023). HIV and aging: Exploring brain health and cognition. Invited speaker to monthly support group on HIV and Aging, Johns Hopkins University AETC Regional Partner of the MidAtlantic AETC, Baltimore, MD. (\*fanatp)
717. **Vance, D. E.**, Fazeli P. L., Azuero, A., Frank, J. S., Wadley, V. G., Raper, J. L., Byun, J. Y., Pope, C. L., Jacobs, A., & Ball, K. K. (March, 2023). Speed of processing training does not transfer to secondary cognitive domains in middle-aged and older adults with HIV-Associated Neurocognitive Disorder (HAND). Poster presentation at the annual conference of the Association for Psychological Science, Brussels, Belgium. (\*fanatp) (\*studconf)
718. **Vance, D. E.**, Collette, C., Kamath, V., Del Bene, V. A., Jacob, A., & Fazeli, P. L. (March, 2023). Concordance/Discordance between objective and subjective psychophysical olfaction in middle-aged and older men living with HIV in the United States Deep South. Poster presentation at the annual conference of the Association for Psychological Science, Brussels, Belgium. (\*fanatp) (\*studconf)
719. **Vance, D. E.**, Del Bene, V. A., Fazeli, P. L., Martin, K., Collette, C., Sribalusu, S., Triebel, K. L., Byun, J. Y., Jacob, A., & Li, W. (March, 2023). Does individualized-targeted cognitive training decrease intra-individual variability in adults with HIV-associated neurocognitive disorder (HAND). Poster presentation at the annual conference of the Association for Psychological Science, Brussels, Belgium. (\*fanatp) (\*studconf)
720. **Vance, D. E.** (March, 2023). Trick and tips of successful aging with HIV:

- Thoughts on thinking. Invited speaker to the Conversations Advice Topics on Cognition with HIV (CATCH), Department of Neurology, Johns Hopkins University, Baltimore, MD. (*\*fanatp*)
721. **Vance, D. E.** (March, 2023). HIV and aging: Exploring brain health and cognition. Invited speaker to the Maryland Coalition on HIV and Aging, Baltimore, MD. (*\*fanatp*)
722. **Vance, D. E.** (April, 2023). HIV and neurocognitive aging: Insights on brain health and interventions. Invited speaker to the Spring Grove Hospital Center Grand Rounds, Baltimore, MD. (*\*fanatp*) (*paid \$500 on June 2023*)
723. Agnihotri, S., Robinson, Hansel Robinson, J., Kennedy, R. E., **Vance, D.**, & Lokken, K. (April, 2023). Changes in cognitive functioning in patients seeking treatment for “Brain Fog” through a post-COVID treatment clinic. Presentation at Annual Academy of Neurology annual meeting, Boston, MA. (*\*natp*) (*\*studconf*)
724. Kwong, J., Appelbaum, J., Milena, M., & **Vance, D. E.** (April, 2023). The role of the multidisciplinary approach in the management of PWH. On-line video presentation with Consultant360 Multidisciplinary Medical Information Network. (*\*other*)
- <https://www.consultant360.com/videos/multidisciplinary-approach-managing-people-hiv>
725. Kwong, J., Appelbaum, J., Milena, M., & **Vance, D. E.** (April, 2023). Hot topics in HIV comorbidities and treatment. On-line video presentation with Consultant360 Multidisciplinary Medical Information Network. (*\*other*)
- <https://www.consultant360.com/videos/hot-topics-hiv-comorbidities-and-treatment>
726. **Vance, D. E.** (April, 2023). Cognitive intra-individual variability: Implications for aging and HIV research. NIMH Joint Seminar Series, Johns Hopkins University, Baltimore, MD. (*\*fanatp*)
727. Rubin, L., & **Vance, D. E.** (May, 2023). MWCCS Neuropsychology Working Group updates. Presented at the MWCCS Executive Committee Meeting, Baltimore, MD. (*\*fanatp*)
728. Nix Parker, T., Dick, T., & **Vance, D. E.** (June, 2023). Practical tips and tricks of study coordination for the busy nurse scientist. Workshop presented at the School of Nursing PHD Intensive, University of Alabama at Birmingham, Birmingham, AL. (*\*locp*)
729. Haase, S. R., Fazeli, P. L., & **Vance, D. E.** (2023, August 25-27<sup>th</sup>). Resilience resources as predictors of perceived treatment management abilities in people aging with HIV. Presentation at the Alabama Psychological Association Convention, Orange Beach AL, United States. (*\*locp*) (*\*studconf*)



730. **Vance, D. E.** (September 22, 2023). The ABCs of Aging Brain Health in HIV. Invited speaker to the 18<sup>th</sup> Annual Graying of HIV Symposium “Making a Difference Across and Beyond the Care Continuum”, Johns Hopkins Regional Partner ~ MidAtlantic AIDS Education and Training Center (MAAETC), Baltimore, MD. Honorarium \$350 (\*fanatp)
731. Odii, I. O., Byun, Y. Jun., **Vance, D. E.**, & Chapman Lambert, C. (October, 2023). Knowledge, attitudes, and utilization of HIV PrEP among Black college students in the United States: A systematic review. Poster presented at the annual convention of the Alabama State Nurses Association (ASNA), Tuscaloosa, AL.  
(\*locp) (\*studconf)
732. Rubin, L. H., Cook, J., & **Vance, D. E.** (October, 2023). Updates of the MWCCS Neuropsychology Working Group. Presentation at the MACS/WIHS Combined Cohort Study, National Institutes of Health, Rockville, MD. (\*natp)
733. **Vance, D. E.** (October 17, 2023). Exploring brain health and successful cognitive aging in adults with HIV. Invited speaker to the Center for Infectious Disease and Nursing Innovation (CIDNI) Johns Hopkins University School of Nursing, Baltimore, MD. (\*fanatp) Honorarium \$350
734. **Vance, D. E.** (October, 2023). Tricks and treats of grant writing: Logical strategies for convey ideas to grant reviewers. Podium presentation as part of the Association of Nurses in AIDS Care Research Committee, at the annual conference of the Association of Nurses in AIDS Care, New Orleans, LA. (\*natp)
735. **Vance, D. E.**, Fazeli P. L., Azuero, A., Khalidi, S. K., Frank, J. S., Wadley, V. G., Raper, J. L., Byun, J. Y., Pope, C. L., Jacob, A., & Ball, K. K. (October, 2023). Speed of processing training produced mixed effects on everyday functioning in adults with HIV-associated neurocognitive disorder: Results of a 2-year longitudinal RCT. Poster presentation at the annual Association of Nurses in AIDS Care conference, New Orleans, LA. (\*studconf) (\*natp)
736. **Vance, D. E.**, Fazeli, P. L., Kamath, V., Collette, C., Sribalusu, S., Triebel, K. L., Byun, J. Y., Jacob, A., Li, W., & Del Bene, V. A. (October, 2023). Investigating the effects of an individualized-targeted cognitive training on reducing intra-individual variability in adults with HIV-associated neurocognitive disorder (HAND). Oral presentation at the annual conference of the Association for Nurses in AIDS Care, New Orleans, LA. (\*studconf) (\*fanatp)
737. Haase, S. R., Wells, A., Hopkins, C. N., Delgadillo, J.D., Long, A.R., **Vance, D.E.**, & Fazeli, P. L. (October, 2023). Resilience and personality as independent correlates of perceived treatment management abilities in people aging with HIV. Poster presentation at the annual Association of Nurses in AIDS Care conference, New Orleans, LA. (\*studconf) (\*natp)

738. Byun, J. Y., Chapman Lambert, C., Fazeli, P.L., Iyer, A.S., Batey, D.S., & **Vance, D. E.** (October, 2023). Psychological symptomatology and quality of life of older people living with HIV and comorbid chronic obstructive pulmonary diseases in Alabama. Poster presentation at the annual conference of the Association of Nurses in AIDS Care, New Orleans, LA. (\*studconf) (\*natp)
739. Collette, C., Del Bene, V. A., Kamath, V., Jacob, A., Fazeli, P. L., & **Vance, D. E.** (October, 2023). Associations between subjective and objective cognition, depressive symptomatology, and quality of life in middle-aged and older men living with HIV. Poster presentation at the annual conference of the Association for Nurses in AIDS Care, New Orleans, LA. (\*studconf) (\*natp)
740. Collette, C., Del Bene, V. A., Kamath, V., Jacob, A., Fazeli, P. L., & **Vance, D. E.** (October, 2023). Associations between subjective and objective cognition, depression, and quality of life in men living with HIV. Poster presentation at the National Academy of Neuropsychology, Philadelphia, PA. (\*studconf) (\*natp)
741. **Vance, D. E.**, Fazeli, P. L., Azuero, A., Khalidi, S., Frank, J. S., Wadley, V. G., Raper, J. L., Pope, C. N., Jacob, A. E., & Ball, K. K. (November, 2023). A 2-year randomized clinical trial examining speed of processing training on everyday functioning in adults with HIV-associated neurocognitive disorder in the U.S. Deep South. Symposium at the Gerontological Society of America annual conference, Tampa, FL. (\*studconf) (\*fanatp)
742. Rubtsova, A. A., Taylor, T. N., Wingood, G., Ofotokun, I., Gustafson, D., **Vance, D. E.**, Jest, D., & Moore, D. (November, 2023). Barriers to successful aging among older women and men living with HIV. Presentation at the Gerontological Society of America annual conference, Tampa, FL. (\*natp)
743. Puga, F., Wang, D., Poe, A., Alvarez, L., Jablonski, R., & **Vance, D. E.** (November, 2023). Role captivity, daily social isolation, and mental health of dementia caregivers. Presentation at the Gerontological Society of America annual conference, Tampa, FL. (\*studconf) (\*natp)
744. Puga, F., Wang, D., Poe, A., Alvarez, L., Jablonski, R., & **Vance, D. E.** (November, 2023). Daily factors associated with emotion regulation among dementia caregivers. Presentation at the Gerontological Society of America annual conference, Tampa, FL. (\*studconf) (\*natp)
745. **Vance, D. E.** (November, 2023). How to turn an abstract into a publication. Faculty Scholar and Mentor Development Unit of the Office of Research and Scholarship, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)

## To Be Presented

**Vance, D. E.** (November, 2023). How to successfully negotiate the IRB. Invited speaker to the NRM 752: Responsible Conduct of Research, PhD Program, School of Nursing, University of Alabama at Birmingham, Birmingham, AL. (\*falocp)

**Vance, D. E.** (December, 2023). Cognitive intra-individual variability in aging and HIV and implications for research. Invited speaker to the MACS WHIS Combined Cohort Study Aging Working Group, Brooklyn, NY.

**Vance, D. E.** (January 17, 2023). Cognitive IIV or Zambia or Social Cognition (TBD). Invited speaker to the Joint NIMH Center Seminar Series, Johns Hopkins University, Baltimore, MD.

**Higher allostatic load composite scores are associated with worse cognitive functioning in women living with HIV**

**Pariya L. Fazeli, Andrea Norcini Pala, Phyllis Tien, Leah Rubin, David E Vance, Bulent Turan, Janet Turan, Peng Li, Mirjam Kempf, Mady Hornig, Jenni Wise, Katherine C. Hall**

**Vance, D. E.** (February 2024). **CAN BE ANY TOPIC, MAYBE ZAMBIA OR COGNITIVE IIV.** Neurocognitive research and interventions in HIV and other clinical populations: Tricks and tips. UAB SON Scholarship Grand Round Series, School of Nursing, University of Alabama at Birmingham, Birmingham, AL.

### **Under Review**

Robinson, J. H., Hickson, B., Agnihotri, S., Kennedy, R., Martin, R., **Vance, D.**, Wheeler, P. F., & Lokken, K. (February, 2024). Cognitive trajectory of post-acute sequelae of COVID-19 (PASC) in a clinical sample at baseline and follow-up. Presented at the International Neuropsychological Society, New York City, NY.

**Vance, D. E.**, Fazeli, P. L., Azuero, A., Frank, J. S., Wadley, V. G., Raper, J. L., Pope, C. N., Jacob, A., Phaowiriya, H., & Ball, K. K. (July, 2024). The effects of speed of processing training on quality of life in adults with HIV. Presentation at the International Congress of Psychology, Prague, Czech Republic.

**Vance, D. E.**, Fazeli, P. L., Kamath, V., Collette, C., Sribalusu, S., Triebel, K. L., Byun, J. Y., Jacob, A., Li, W., & Del Bene, V. A., (July, 2024). Does individualized-targeted cognitive training decrease cognitive intra-individual variability in HIV. Presentation at the International Congress of Psychology, Prague, Czech Republic.

Li, W., Rubin, L. H., Xu, Y., Wang, Y., Dastgheyb, R., Ptacek, T., Wang, G., Kempf, M-C., Dionne-Odom, J., Konkle-Parker, D., Li, D. Y., Sheth, A., Ofotokun, I., & **Vance, D. E.** (July, 2024). A novel plasma proteomic multiplexing -- random forest -- ingenuity pathway analysis of cognition in women living with HIV. Presentation at the Alzheimer's Association International Conference (AAIC), Philadelphia, PA.

**To Be Submitted**

# Appendix 7 – 14<sup>th</sup> Annual MBRF IIT at UAB, May 3 – 5, 2023



14<sup>th</sup> Annual McKnight  
Brain Research Foundation Inter-Institutional  
Meeting

## Prevention and Mitigation of Cognitive Decline: From the Bench to Community Engagement

**May 3 - 5, 2023**  
Hilton at UAB, Birmingham, Alabama

Wednesday, May 3, 2023

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|-----------------|------------------------------------------------------------------|
| 12:00 – 5:00 PM | MBRF Board Meeting<br>Montgomery Boardroom, Lower Level          |
| 1:00 – 6:00 PM  | Registration<br>Foyer - outside Hamilton II, Lower Level         |
| 5:30 – 7:30 PM  | Opening Reception<br>Collum Parlor and Pool Terrace, Lobby Level |
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|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6:00 PM | <b>Welcome Remarks</b><br>Ronald M. Lazar, PhD<br>Director, Evelyn F. McKnight Brain Institute<br>Evelyn F. McKnight Chair for Learning and Memory in Aging Professor<br>of Neurology & Neurobiology<br>University of Alabama at Birmingham<br><br>Anupam Agarwal, MD<br>Dean, Heersink School of Medicine University of<br>Alabama at Birmingham<br><br>Tom Brannan<br>Vice President for Advancement and Strategic Initiatives University of<br>Alabama at Birmingham<br><br>Michael L. Dockery, MD<br>Chair, McKnight Brain Research Foundation |
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Thursday, May 4, 2023

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|----------------|-----------------------------------------------|
| 7:30 – 8:40 AM | General Breakfast<br>Hamilton II, Lower Level |
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|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7:30 – 8:40 AM   | Intervention Core Meeting<br>Montgomery Boardroom, Lower Level                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 8:45 – 9:10 AM   | <p><b>Opening Remarks and Welcome</b><br/>Hamilton I, Lower Level</p> <p>Jason J. Nichols, OD, MPH, PhD<br/>Senior Associate Vice President for Research University of Alabama at Birmingham</p> <p><b>Overview of Meeting Structure</b><br/>Ronald M. Lazar, PhD<br/>Director, Evelyn F. McKnight Brain Institute University of Alabama at Birmingham</p> <p>Tatjana Rundek, MD, PhD<br/>Director, Evelyn F. McKnight Brain Institute University of Miami<br/>“Remembering Ralph Sacco”</p> |
| 9:10 – 9:45 AM   | <p><b>Opening Lecture</b><br/>Steven Austad, PhD<br/>Protective Life Endowed Chair in Health Aging Research Distinguished Professor<br/>University of Alabama at Birmingham<br/>“Translating the Biology of Aging into the Community” 9:45 –</p>                                                                                                                                                                                                                                             |
| 9:55 AM          | Discussion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 9:55 – 10:15 AM  | Break                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 10:15 – 11:30 AM | <p><b>MBAR Update</b><br/>Moderator: Tatjana Rundek, MD, PhD</p>                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 10:15 – 10:35 AM | <p>Ron Cohen, PhD, ABPP<br/>University of Florida<br/>“Part 1: Where we came from and why?”</p>                                                                                                                                                                                                                                                                                                                                                                                              |
| 10:35 – 10:55 AM | <p>Kristina Visscher, PhD<br/>University of Alabama at Birmingham<br/>“Part 2: Where we are, accomplishments, and successes”</p>                                                                                                                                                                                                                                                                                                                                                             |
| 10:55 – 11:15 AM | <p>Bonnie Levin, PhD<br/>University of Miami<br/>“Part 3: Where are we going?”</p>                                                                                                                                                                                                                                                                                                                                                                                                           |
| 11:15 – 11:30 AM | Discussion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11:30 – 12:20 PM | <b>Invited Speaker</b><br>Philip B. Gorelick, MD Professor of<br>Neurology<br>The Ken and Ruth Davee Department of Neurology Northwestern<br>Feinberg School of Medicine<br>“Optimizing Brain Health – The Role of Cardiovascular Risks, Challenges, & a Way<br>Forward” |
| 12:20 – 12:30 PM | Discussion                                                                                                                                                                                                                                                               |
| 12:30 – 1:45 PM  | Lunch and Networking<br>Hamilton II, Lower Level                                                                                                                                                                                                                         |
| 1:45 – 3:05 PM   | <b>Implementing Successful Aging into the Community</b><br>Moderator: Carol Barnes, PhD                                                                                                                                                                                  |
| 1:45 – 2:05 PM   | Asta Håberg, MD, PhD<br>Norwegian University of Science and Technology “Sociocultural<br>Factors in the Longitudinal Study of Aging”                                                                                                                                     |
| 2:05 – 2:25 PM   | Matt Huentelman, PhD<br>University of Arizona MindCrowd                                                                                                                                                                                                                  |
| 2:25 – 2:45 PM   | Pamela Bowen, CRNP, PhD<br>University of Alabama at Birmingham “Brain Health<br>Advocacy Mission (BHAM)”                                                                                                                                                                 |
| 2:45 – 3:05 PM   | Discussion                                                                                                                                                                                                                                                               |
| 3:05 – 3:25 PM   | Break                                                                                                                                                                                                                                                                    |
| 3:25 – 4:40 PM   | <b>Workshop in Implementation Science</b><br>Moderator: Lee Ryan, PhD                                                                                                                                                                                                    |
| 3:25 – 3:45 PM   | Heidi Hamann, PhD<br>University of Arizona<br>“Fundamentals of Implementation Science”                                                                                                                                                                                   |
| 3:45 – 4:05 PM   | George Howard, DrPH<br>University of Alabama at Birmingham<br>“Randomized Controlled Trials: What they are and are not”                                                                                                                                                  |
| 4:05 – 4:25 PM   | Fern Webb, PhD<br>University of Florida<br>“Conducting studies in diverse and underserved populations”                                                                                                                                                                   |
| 4:25 – 4:40 PM   | Discussion                                                                                                                                                                                                                                                               |
| 4:40 – 5:30 PM   | Free time before Evening Event                                                                                                                                                                                                                                           |

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|----------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 5:30 – 6:00 PM | Transportation to The Florentine Ballroom<br>(dress: business attire; distance is 1.0 mile away from Hilton at UAB)                    |
| 6:00 – 9:00 PM | <b>Dinner and Guest Speaker</b><br>M. Joycelyn Elders, MD Vice Admiral<br>15 <sup>th</sup> Surgeon General of the United States 5:45 – |
| 6:45 PM        | Reception                                                                                                                              |
| 6:45 PM        | Begin Seated Dinner                                                                                                                    |
| 7:30 – 8:15 PM | Dr. Elders keynote presentation and Q&A 8:15 –                                                                                         |
| 9:00 PM        | Dessert and Social                                                                                                                     |
| 8:45 – 9:15 PM | Transportation to Hilton at UAB                                                                                                        |

#### Friday, May 5, 2023

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|----------------|-----------------------------------------------------------------------------|
| 7:00 – 8:30 AM | Breakfast and Checkout (check-out time is 12pm)<br>Hamilton II, Lower Level |
| 7:30 – 8:30 AM | Board Meeting, Trustees and Leadership Council<br>Skipwith I, Lower Level   |
| 8:15 – 8:30 AM | Load buses for departure to campus                                          |
| 8:45 AM        | Buses depart for UAB National Alumni House Main<br>Conference Room          |

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| 9:15 – 10:10 AM  | <b>Pre-Clinical Models for Intervention: Mechanisms and Outcomes</b><br>Moderator: Jennifer Bizon, PhD                                                                                                 |
| 9:15 – 9:30 AM   | Stephen Cowen, PhD<br>University of Arizona<br>“The impact of aging on hippocampal representations of space and motion”                                                                                |
| 9:30 – 9:45 AM   | Barry Setlow, PhD<br>University of Florida<br>“Differential effects of cannabis on cognition across the lifespan”                                                                                      |
| 9:45 – 10:00 AM  | Oliver Bracko, PhD<br>University of Miami<br>“Vascular oxidative stress causes neutrophil arrest in brain capillaries, leading to decreased cerebral blood flow and contributing to memory impairment” |
| 10:00 – 10:10 AM | Discussion                                                                                                                                                                                             |

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| 10:10 – 11:00 AM | <b>Optical Coherence Tomography Angiography: A Novel Biomarker for Aging</b> |
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Moderator: Sara Burke, PhD

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| 10:10 – 10:30 AM | Edmund Arthur, OD, PhD<br>University of Alabama at Birmingham<br>“Retinal Perivascular Spaces in Normal Aging”                                                                                                                                                                                                                                            |
| 10:30 – 10:50 AM | Jinhua Wang, MD, PhD<br>University of Miami<br>“Current status and future direction of the eye as the window to the aging brain”                                                                                                                                                                                                                          |
| 10:50 – 11:00 AM | Discussion                                                                                                                                                                                                                                                                                                                                                |
| 11:00 – 11:15 AM | <b>Closing Remarks</b><br><br>Ronald M. Lazar, PhD<br>Director, Evelyn F. McKnight Brain Institute University of Alabama at Birmingham<br><br>Molly V. Wagster, PhD<br>Chief, Behavioral & Systems Neuroscience Branch Division of Neuroscience<br>National Institute of Aging<br><br>Michael L. Dockery, MD<br>Chair, McKnight Brain Research Foundation |
| 11:15 AM         | Pick-up Boxed Lunches                                                                                                                                                                                                                                                                                                                                     |
| 11:30 AM         | Buses depart for Hilton at UAB<br>(1 bus will depart for Airport from Hilton at UAB @ 1:30 PM)                                                                                                                                                                                                                                                            |

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1:00 PM – 4:30 PM **Optional, Post-Meeting Event**

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|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1:00 PM        | Bus departs Hilton at UAB for Birmingham Civil Rights Institute (BCRI)<br>(attendees may leave luggage on this bus, as bus will depart at 4 PM from BCRI to Airport) |
| 1:30 – 2:50 PM | Tour of the BCRI                                                                                                                                                     |
| 3:00 – 4:00 PM | Tour of the 16 <sup>th</sup> Street Baptist Church<br>(distance is 0.1 mile away from BCRI, we will walk to)                                                         |
| 4:00 PM        | Bus departs for Hilton at UAB (or Airport, as noted above)<br>(2 <sup>nd</sup> bus will be at BCRI to pick-up attendees who are not going to Airport)                |

## Wednesday, May 3, 2023 - Opening Reception



Dr. Michael L. Dockery, Chair, MBRF Board of Trustees and Dr. Ron Lazar, Director, McKnight Brain Institute at UAB.



A group picture of some of the attendees.



## Thursday, May 4, 2023 – Dinner and Guest Speaker



Dr. M. Joycelyn Elders, guest speaker, with the four site MBI Directors.



A group picture of McKnight Brain Institute at UAB attendees.