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January 5, 2022

Board of Trustees, The McKnight Brain Research Foundation

It is with great pleasure that we submit our 2021 Annual Report for the McKnight Brain Institute at UAB.

UAB McKnight continues to emerge from the 2020 COVID lockdown with resumption of research and programmatic activities, as well as with new intra- and inter-institutional collaborations. To the already extensive relationships across the UAB community, we added new faculty and projects involving the UAB Department of Biomedical Engineering, the UAB School of Nursing, the UAB Department of Family Practice and Community Medicine, and the UAB Callahan Eye Hospital. Despite retirements and transitions to new institutions, we now have 56 affiliated faculty across seven UAB schools. The importance of these alliances lies in the notion that innovation comes from multidisciplinary teams. As a part of the most diverse research institution in the United States, the UAB McKnight is dedicated to increasing the presence of underrepresented minorities (URM’s) as both research investigators and research participants.

We remain firmly committed to aims and objectives related to age-related cognitive decline and memory loss, with ongoing animal models but increased programmatic emphasis on human application, both with respect to demonstrations of proof-of-principle and clinical application. We have taken the position that the most effective means of mitigating cognitive and memory decline is through primary prevention. To this end, we chaired the AHA initiative to put brain health into primary care, served as the primary and senior author on the 2021 AHA Scientific Statement, and received IRB approval to implement a pilot project in two UAB Family Medicine Clinics in the Birmingham Metro area. At each site, a nurse practitioner will administer a Brain Care Score, establish a risk factor and lifestyle profile, implement a plan for gradual change, and then follow patients for one year. There are several ongoing projects involving exercise and cognitive-training interventions, the REGARDS study continues to provide valuable insights into risk for cognitive decline, and the cognitive impact of systemic illness is being evaluated in several disease models to determine ways to block the proposed effects of inflammation. Animal models are informing us regarding epigenetic mechanisms in the hippocampus and gut-brain interactions in the context of cognitive aging. The grants in the appendix document awards that directly address McKnight goals, or contribute methodologically, mechanistically or technologically toward applications that will address McKnight objectives in the future.

We anticipate continuing within this overall framework over the coming year.

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

Erik D. Roberson, MD, PhD
Rebecca Gale Endowed Professor
Associate Director, Evelyn F. McKnight Brain Institute
Director, Center for Neurodegeneration and Experimental Therapeutics Director, Alzheimer’s Disease Center
Department of Neurology

HEERSINK
SCHOOL OF MEDICINE
Department of Neurology / Division of Neuropsychology
Our most important new initiative was the UAB McKnight-funded, Brain Health Advocacy Mission (BHAM). As we age, there is increasing compromise of neuronal activity that affects cognition, making the brain vulnerable to disease. Once pathology-induced decline begins, few therapeutic options are available. Prevention is therefore paramount, and primary care can play a critical role. The objective of this project is to begin a phased-in process of implementing brain health into targeted venues in the UAB Family and Community Medicine system. In 2017, the American Heart Association (AHA)/American Stroke Association issued a presidential advisory on defining brain health that included “Life’s Simple 7” (See Figure) as a follow-up to an earlier statement on the promotion of cardiovascular health. The goal was to provide a model for defining brain health in highly quantifiable terms and to suggest specific therapeutic targets for preventive intervention that included risk factor management and lifestyle changes. In March 2021, the AHA published a Scientific Statement, entitled “A Primary Care Agenda for Brain Health, chaired by Dr. Lazar (See Appendix 2, Publications). The 2021 Statement amplified the “Life’s Simple 7” strategy with the inclusion of alcohol consumption, social engagement, hearing, mood (depression) and education. Additionally, new data demonstrate that failure to control risk factors much earlier in the lifespan impacts later life cognitive decline and dementia. Thus, brain health as a goal is a life-long endeavor.

To this end, we have assembled a brain health team with expertise in risk factor targets, mental health, community relations, physical activity, technology, and cognition. As a first step, we have received IRB approval to have advanced practice providers from the School of Nursing, under the supervision of Pamela Bowen, PhD, CRNP, FNP-BC, BBA, who serve as brain health advocates in two UAB Family Practice clinics in the Metro-Birmingham area, working with individual patients and family members. Our team has begun to fashion an implementation strategy encompassing culturally appropriate messaging, which is being facilitated by focus groups in the community. As an outcome measure, we are using the McCance Brain Care Score (See below, collaborative programs with non-McKnight Institutes). To bring this endeavor to scale we are developing the BHAM app, with the longer-term goal to extend this program throughout the state of Alabama, where risk for cognitive decline is among the highest in the United States. We are also seeking philanthropy and other sources of support to achieve sustainability under the administrative guidance of Jessica Lane, BHAM Program Director.

Funded by a new pilot grant from the McKnight Brain Research Foundation (Lazar, Contact PI), there is a collaboration among UAB McKnight, the UAB Callahan Eye Hospital, UMiami McKnight and the UMiami Bascom-Palmer Eye Institute to study the effect of exercise on hypertension in older men and women. It is well known the HTN is a major risk factor for cognitive decline as result of increased white matter hyperintensities and a loss of microvascular density (rarefaction) in brain tissue. The premise is that exercise will increase growth factors (IGF-1), which will increase microvascular density, thereby reducing hypertension and improve
The innovative aspect of this project is the use of Optical Coherence Tomographic Angiography (OCT-A) as a non-invasive tool to measure retinal vascular density.

The McKnight Brain Research Foundation has as its mission to better understand and alleviate age-related cognitive decline and memory loss. Since its founding in 1999, the MBRF has supported state-of-the-art research at its four affiliated institutions. The work it has underwritten has appeared in world-class, peer-reviewed journals and has influenced thinking about cognitive aging in the absence of brain disease. The matter arises, however, as to the generalizability of this research to the rapidly changing demographics in the US, especially Spanish-speaking groups. The purpose of a proposed collaboration between UAB (Lazar, Contact PI) and UMiami (B Levin, Site PI) McKnight Brain Institutes is to address this gap for multi-site studies by adapting and validating the use of telephone-administered, cognitive measures for Spanish-speaking individuals.

As the population of the United States ages, so too does its workforce. With aging, however, comes possible changes in cognition that can impact an older adult’s competence, including that of healthcare providers. A sensible method to establish whether cognitive decline is present in an aging medical professional would be to administer a neuropsychological (cognitive) test battery. Current normative data for neuropsychological measures, however, are adjusted for age and meant to represent the average cognitive ability of the general population. But, given that age-adjusted norms do not well predict real-world occupational functioning and that medical professionals possess cognitive ability well above that of the general population, the generalizability of current neuropsychological norms to this population are not valid. In a new grant funded by the University of Alabama Health Services Foundation Endowment Fund, Dr. Lazar (PI) is addressing this limitation by obtaining normative data for medical professionals at the University of Alabama at Birmingham (UAB). To accomplish this goal, Dr. Lazar and his team will administer a comprehensive neuropsychological battery to 216 medical professionals across four, broad medical subspecialties. Average performance of the sample will then be used to construct normative data.

To date, there have been few prospective studies of incident silent brain infarction and cognitive trajectories. UAB (Lazar, MPI) and Stanford (Lansberg, MPI) are collaborating in an NINDSfunded project to determine in a nationwide study whether apixaban or aspirin is more effective in reducing the number of these silent events, and in turn, result in better cognition.

In another new, pilot grant from the McKnight Brain Research Foundation Drs. Hernandez (Contact PI), Carter and Buford (UAB) and Bizon and Burke (UForida) were funded in a project, entitled, “Reuniting the Brain and Body to Understand Cognitive Aging: The Nexus of Geroscience and Neuroscience.” The purpose of this project is to study gut-brain interactions in the context of cognitive aging. Gut health influences cognitive outcomes, and alterations in brain health are often accompanied by impaired intestinal function. As gut health is likely a modifiable factor mediating cognitive resilience, several potential mechanisms of the bidirectional interactions across the gut-brain axis warrant further investigation. The ultimate goal of this study is to determine if novel therapeutic strategies targeting the gut can improve age-related cognitive decline in a validated rodent model of aging.
Dr. Kristina Visscher and her collaborator Lesley Ross at Clemson have completed a project funded by NIA, entitled, “Elucidating the Necessary Components and Mechanisms of Cognitive Training.” Loss of independence, difficulties in everyday function, cognitive decline, Mild Cognitive Impairment (MCI), Alzheimer’s Disease (AD) and Alzheimer’s Disease Related Dementias (ADRD) are areas of great concern for older adults and their families. From a public health perspective, successful efforts that enable older adults to age within their homes, as compared to nursing homes, will save an estimated $80 billion dollars per year. Cognitive training is a low cost, noninvasive intervention that has repeatedly demonstrated reliable transfer effects to maintained cognition, everyday function, and health. Their overall objective in this planning grant was to lay the conceptual and methodological foundation to identify cognitive, psychosocial, lifestyle behaviors, biomarker, and neural mechanisms of two forms of conceptually driven cognitive training. Additionally, they examined how cognitive and psychosocial factors within daily life account for the transfer of cognitive training to everyday function. They used a factorial design to randomize adults ages 45-90 to 10, 20, 30, or 40 hours of two forms of cognitive training, a combined training, or an active control condition, allowing them to test the feasibility of their enrollment, assessment, and training protocols for a future multisite clinical trial. The data from this trial are now being analyzed.

Dr. George Howard is the founding PI of the REGARDS study, originally designed to examine risk factors for incident stroke in a population-based study enriched for African American Blacks and later generated important information relating to incident, age-related cognitive decline in the absence of frank neurological events, led by Dr. Virginia Wadley. Since its inception in 2003 with the support of NINDS, this study has been following 30,239 participants 45 years or older, living largely in the Stroke Belt across the Southeast US, and has generated more than 600 peer-reviewed papers, including more the 60 relating to cognition.

Based on pilot data from grant from the UAB McKnight Institute, Dr. Farah Lubin received new NIA funding focusing on the molecular genetic mechanisms that govern how gene expression programs control memory formation in the healthy brain. She will be investigating the contribution of the long non-coding RNA (lncRNA) Neat1 in astrocytes and identify the epigenetic mechanisms in these glia cells involved in enhancing memory resiliency with age. Within the aging hippocampus, it is now clear that abnormal epigenetic control of gene transcription contributes to memory deficits. Nearly all the suggested epigenetic mechanisms controlling memory formation have mostly been attributed to neuronal cells within the hippocampus, largely disregarding these mechanisms in astrocytes. Her long-term goal is to study the role of lncRNAs in astrocytes and to identify how these powerful epigenetic regulators impact memory formation with aging. Her pilot data demonstrated that Neat1 expression is decreased in area CA1 of young adult mice and overexpressed in aged mice. Furthermore, they demonstrated that inhibiting Neat1 expression in area CA1 of the hippocampus of aged mice reverses memory impairments. Based on these preliminary results, they plan to investigate the effects of manipulating Neat1 in astrocytes and determine effects on age-related memory decline. To gain further mechanistic insight into Neat1 mediated gene transcription in astrocytes in the aging hippocampus, they will use state-of-the-art approaches, such as CRISPR reprogramming and chemogenetics, to elucidate the epigenetic mechanisms in astrocytes in their aging animal model system.
In the **UAB mission to promote diversity in the training of future investigators in science**, Dr. Farah Lubin serves as Director, Dr. Michelle Gray as Co-Director and 15 other UAB McKnight faculty participate as mentors of the Roadmap Scholars Program devoted to the training of neuroscientists among underrepresented minorities (URM’s). Toward this end, Dr. Alecia Gross received a Supplement award from the National Eye Institute for the support of Hailey Levi, an URM in her second graduate year in Cellular, Molecular and Developmental Biology. Building on their preliminary discoveries and data, Ms. Levi utilizes knock-out mice, recombinant adeno-associated viral expression, spatial genomics, and confocal microscopy to uncover critical protein and genetic changes involved in these processes. She has 10.3K followers on Tiktok @chaoticallyscience, a platform in which she is dedicated to helping and providing resources for URM’s in STEM like herself. Because of this, she was recently tapped by Michael Langer at MacGillivray Freeman Films (the Academy Award winning Production company) to potentially be highlighted in an upcoming IMAX film highlighting the amazing science, scientists behind breakthroughs, and their influence in social media.
Summary of Major Achievements

Drs. Lazar, G. Howard, and V. Howard, along with the other investigators in the CREST-2 trial for treatment of asymptomatic carotid artery disease, showed that there is significant memory decline in the first 1,000 participants in this older cohort before treatment begins (Lazar, et al, 2021; see citation below). The relevance to the McKnight enterprise is that their severe carotid disease was discovered in a routine examination in which there were no other clinical problems. Thus, the assertion of age-related cognitive decline assumes no other discernable etiology, but accumulating data demonstrate cognitive effects of systemic conditions during aging that may be potentially treatable or even preventable causes of decline.

With pilot funding by UAB McKnight and the UAB Integrative Center for Aging Research, Drs. Roy Martin, Richard Kennedy and colleagues performed a retrospective study of 33,111 older adults ≥65 years of age admitted to UAB hospital from January 1, 2015 to December 31, 2019 to determine whether delirium during hospitalization predicted the occurrence of hospital-related disability (HAD), including cognitive decline. They found that delirium significantly increased the likelihood for the occurrence of HAD with a multivariate predictor model that included the number of comorbidities, demographics and length of stay. For cognitive decline and comorbidity, mediation analysis showed a significant portion of their effect attributable to delirium.
Drs. Lazar (UAB) and Levin (UMiami) are co-Chairs of the MBRF Cognitive Aging and Memory Intervention Core Inter-Institutional Pilot Program that is requesting Letters of Intent and Proposals for pilot studies to support interventions to reduce age-related memory loss and cognitive decline. The specific goal of these projects will be to collect pilot data across two or more MBI sites to facilitate grant submission to extramural funding sources for multi-MBI site cognitive aging and memory intervention trials.

**Lazar, Ronald**

**McKnight Collaborations**

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. McKnight Brain Research Foundation. 5/1/2021 – 4/30/2023. **Collaborators:** UAB--Lazar (PI), Buford, Girkin, Norling. UMiami--Wang (Site-PI)

Principal Investigator. Centralized, Telephone-Based, Computer-Assisted Assessment of Cognitive Function in Spanish. NIH/NINDS Supplement Submission pending. 2/1/2022-1/31/2023. **Collaborators:** UAB—Lazar (PI), Crowe. UMiami—Levin (Site PI), Rey, McInerney, Kaur.

**Non-McKnight Collaborations**


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


**Bolding, Mark**

Director of the Neuroimaging Laboratory used by multiple McKnight members for their research.
Carter, Christy
McKnight Brain Institute Pilot - $50,000 (total)
Reuniting the Brain and Body to Understand Cognitive Aging: The Nexus of Geroscience and Neuroscience. (Role: PI). This grant is a collaboration with our Post-doc Abigail Hernandez, Sara Burke and Jennifer Bizon, supported by the MBRF.

Howard, George
Dr. Ralph Sacco, Executive Director of the UMiami MBI, is chair of the DSMB for the REGARDS Study, funded by NINDS

Triebel, Kristen
Collaborating with David Vance on a project examining the impact of speed of processing training on brain health and cognition for older adult cancer survivors and older adults with HIV related cognitive impairment.

Visscher, Kristina
McKnight Brain Aging Registry involves members from all 4 McKnight Institutes. Work is being done to analyze and publish data from sample of healthy agers.

Working with Lesley Ross at Clemson University on a project funded by NIA/NICHD examining the impact of speed of training on brain health and cognition for older adults.
Working with Aaron Seitz from University of California, Riverside, and Nick Turk-Browne from Yale on a study funded by NIH/NEI examining the mechanisms of learning in adults with macular degeneration.

Honors, Awards and New Grants

Lazar, Ronald
Principal Investigator. Establishing a normative cognitive database for UAB medical professionals. University of Alabama Health Services Foundation General Endowment Fund. 5/1/21 – 4/30/2023. (Yr 1 Direct Costs, 147,478)

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. McKnight Brain Research Foundation. 5/1/2021 – 4/30/2023, (Yr 1 Direct Costs, $120,000)

Jeremy Day
Lab postdoctoral fellow Dr. Jen Tuscher received the 2021 UAB "Most Esteemed Postdoc" Award.

Lab postdoctoral fellow Dr. Nathaniel Robinson received an appointment to the UAB-HudsonAlpha Genomic Medicine Postdoctoral Training Program, which is funded by an institutional Ruth L. Kirschstein National Research Service Award (NRSA) T32 grant from the National Human Genome Research Institute.
Elected to Associate Membership in the American College of Neuropsychopharmacology (ACNP).

**Gross, Alecia**
Received NEI-funded Research Supplement to Promote Diversity in Health-Related Research Program for graduate student Hailey Levi.

**Lubin, Farah**
Stories of WiN – Women in Neuroscience profiles live podcast. Highlighting stories of women neuroscientists at different career stages and from diverse backgrounds.

Named to a list of “1,000 Inspiring Black Scientists,” published in Cell Mentor.

1R01AG071785-01. Principal Investigator. Long Non-coding RNA Regulation in Astrocytes within the Aging Brain. NIA/NIH. 4/15/2021-3/31/2026. Yr 1 Direct Costs: $250,000. Her research team focuses on the study of molecular genetic mechanisms that govern how gene expression programs control memory formation in the healthy brain.

**Lester, Robin**
Recipient of the Ellen Gregg Ingalls/UAB National Alumni Society Award for Lifetime Achievement in Teaching. This award is presented to a UAB faculty member who, throughout their career has demonstrated an outstanding commitment to teaching. As he trains the next generation of researchers, his Gross Anatomy of the Brain class is a favorite among his students.

**Lucas Pozzo-Miller**
Neuroscience Roadmap Scholar program 2021 Outstanding Career Coach award

**Visscher, Kristina**
Appointed to serve on the SfN Government and Public Affairs committee, which is responsible for guiding and evaluating SfN's advocacy efforts to promote neuroscience research.

NIH grant proposal titled Characterization of multiple factors in training and plasticity in central vision loss has been awarded.

Leland Fleming, graduate student extraordinaire, has won the highest honor awarded by UAB graduate school, the Samuel B. Barker Award for Excellence in Graduate Studies.

Human Connectomes Project was chosen for a presentation to the NIH Center Directors.

**Wadiche, Linda**
Appointed to the NICHD Board of Scientific Counselors for a 5-year term. The BSC advises the NICHD Scientific Director, the Division of Intramural Research, and the Division of Intramural Population Health Research on matters related to in-house research activities.
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

None

Signature (date, and title of person submitting the report)

Ronald M. Lazar, PhD
Professor of Neurology and Neurobiology
Evelyn F. McKnight Endowed Chair of Learning and Memory in Aging
Director, UAB Evelyn F. McKnight Brain Institute
Director, Division of Neuropsychology (Neurology)
Department of Neurology
# Appendix 1

List of McKnight Affiliate Faculty and their area of focus, and Department Affiliations, including a list of post-doctoral and pre-doctoral trainees (CVs needed only for new faculty/collaborators)

<table>
<thead>
<tr>
<th>Faculty</th>
<th>Area of Focus</th>
<th>Department Affiliation</th>
<th>Post-Doctoral and Pre-Doctoral Trainees</th>
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</thead>
<tbody>
<tr>
<td>Lazar, Ronald M.</td>
<td>Cognitive Resilience and Recovery in Aging, Brain Health, Cerebral</td>
<td>Neurology</td>
<td>Post-Doc Karli Martin, PsyD Pre-Doc</td>
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<td></td>
<td>hemodynamics, Neurovascular Disease</td>
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<td>Amani Norling, MS Alexandra Jacob</td>
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<td>Randall Walden</td>
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<td>Undergraduate</td>
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<td>Mary Faulkner Trevor Starling</td>
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<td>Allendorfer, Jane</td>
<td>Exercise and epilepsy</td>
<td>Neurology</td>
<td>Undergraduate</td>
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<td><a href="mailto:jallendorfer@uabmc.edu">jallendorfer@uabmc.edu</a></td>
<td></td>
<td></td>
<td>Anna Cook</td>
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<td>Amara, Amy Willis</td>
<td>Sleep disorders, movement disorders</td>
<td>Neurology</td>
<td>Post-Doc Adeel Memon, MD</td>
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<tr>
<td><a href="mailto:aamara@uabmc.edu">aamara@uabmc.edu</a></td>
<td></td>
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<td>Yatharth Sunkara</td>
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<td>Arrant, Andrew</td>
<td>Frontotemporal dementia</td>
<td>Neurology</td>
<td>Undergraduate</td>
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<tr>
<td><a href="mailto:andrewarrant@uabmc.edu">andrewarrant@uabmc.edu</a></td>
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<td></td>
<td>Anna Cook</td>
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<td>Asif, Irfan</td>
<td>Primary care</td>
<td>Family and Community Medicine</td>
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<td><a href="mailto:iasif@uab.edu">iasif@uab.edu</a></td>
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<td>Austad, Steven N</td>
<td>Molecular and organismal biology of aging</td>
<td>Biology</td>
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<tr>
<td><a href="mailto:austad@uab.edu">austad@uab.edu</a></td>
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<tr>
<td>Ball, Karlene K</td>
<td>Aging-related cognitive function</td>
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<td><a href="mailto:kball@uab.edu">kball@uab.edu</a></td>
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<td>Benveniste, Etty</td>
<td>Immune/nervous system interactions</td>
<td>Cellular, Molecular, &amp; Developmental Biology</td>
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<tr>
<td><a href="mailto:tika@uab.edu">tika@uab.edu</a> Emeritus</td>
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<td>Bowen, Pamela</td>
<td>Exercise and physical activity</td>
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<td><a href="mailto:pbowen@uab.edu">pbowen@uab.edu</a></td>
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<tr>
<td>Name</td>
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<td>Bradley, Virginia Wadley</td>
<td><a href="mailto:vwadley@uab.edu">vwadley@uab.edu</a></td>
<td>Mild cognitive impairment, comorbid cerebrovascular disease</td>
<td>Gerontology, Geriatrics, and Palliative Care</td>
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<td>Brenner, Michael</td>
<td><a href="mailto:michaelb@uab.edu">michaelb@uab.edu</a></td>
<td>Glial Cell Biology, Alexander Disease</td>
<td>Neurobiology</td>
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<td>Buford, Thomas</td>
<td><a href="mailto:twbuford@uab.edu">twbuford@uab.edu</a></td>
<td>Exercise and aging</td>
<td>Center for Exercise Medicine</td>
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<td>Carter, Christy</td>
<td><a href="mailto:cartercs@uabmc.edu">cartercs@uabmc.edu</a></td>
<td>Exercise medicine</td>
<td>Gerontology, Geriatrics &amp; Palliative Care</td>
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<td>Crowe, Michael</td>
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<td>Gerontology, Cognitive Aging and Dementia</td>
<td>Psychology</td>
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<td>Day, Jeremy</td>
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<td>Neurobiology</td>
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<td>Del Bene, Victor</td>
<td><a href="mailto:vdelbene@uab.edu">vdelbene@uab.edu</a></td>
<td>Cognitive impairment, dystonia, deep brain stimulation</td>
<td>Neurology</td>
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<td>DeMiranda, Briana</td>
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<td>Dobrunz, Lynn</td>
<td><a href="mailto:dobrunz@uab.edu">dobrunz@uab.edu</a></td>
<td>Regulation of short-term synaptic plasticity in the hippocampus</td>
<td>Neurobiology</td>
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<td>Edwards, Lloyd J</td>
<td><a href="mailto:ljedward@uab.edu">ljedward@uab.edu</a></td>
<td>Longitudinal data analysis, health disparities,</td>
<td>Biostatistics</td>
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<td>Fazeli, Pariya</td>
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<td><a href="mailto:karengamble@uabmc.edu">karengamble@uabmc.edu</a></td>
<td>Environmental modulation of circadian clock function in mammalian sys</td>
<td>Psychiatry and Behavioral Neurobiology</td>
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<td>Gamlin, Paul</td>
<td><a href="mailto:pgamlin@uab.edu">pgamlin@uab.edu</a></td>
<td>Cell biology and systems neuroscience of vision and visual disorders</td>
<td>Ophthalmology</td>
<td>Post-Doc</td>
<td>Michael McFerrin</td>
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<td>Gavin, Cristin</td>
<td><a href="mailto:cfgavin@uab.edu">cfgavin@uab.edu</a></td>
<td>Cellular and molecular mechanisms of structural and functional plasticity</td>
<td>Neurobiology</td>
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<td>Geldmacher, David</td>
<td><a href="mailto:dgeldmacher@uabmc.edu">dgeldmacher@uabmc.edu</a></td>
<td>Aging-related memory disorders and visual cognition</td>
<td>Neurology</td>
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<td>Gerstenecker, Adam</td>
<td><a href="mailto:atgers@uab.edu">atgers@uab.edu</a></td>
<td>Functional activity, decisional capacity, cognitive impairment dementia</td>
<td>Neurology</td>
<td>Pre-Doc</td>
<td>Sarah Whiten</td>
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<tr>
<td>Goldberg, Matthew S</td>
<td><a href="mailto:mattgoldberg@uabmc.edu">mattgoldberg@uabmc.edu</a></td>
<td>Mechanisms of neurodegeneration</td>
<td>Neurology</td>
<td>Pre-Doc</td>
<td>Adeel Memon</td>
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<tr>
<td>Gray, Michelle</td>
<td><a href="mailto:mccgray@uab.edu">mccgray@uab.edu</a></td>
<td>Neurogenetics, glial function, and Huntington’s disease</td>
<td>Neurology</td>
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<td>Gross Gutierrez, Alecia K</td>
<td><a href="mailto:agross@uab.edu">agross@uab.edu</a></td>
<td>Signal transduction mechanisms in the CNS</td>
<td>Neurobiology</td>
<td>Post-Doc</td>
<td>Meredith Hubbard</td>
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<tr>
<td>Herskowitz, Jeremy H</td>
<td><a href="mailto:jeremyherskowitz@uabmc.edu">jeremyherskowitz@uabmc.edu</a></td>
<td>Amyloid beta effects on neurons</td>
<td>Neurology</td>
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<td>Howard, George</td>
<td><a href="mailto:ghoward@uab.edu">ghoward@uab.edu</a></td>
<td>Strokes and aging</td>
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<td>Howard, Virginia</td>
<td><a href="mailto:vjhoward@uab.edu">vjhoward@uab.edu</a></td>
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<td>Epidemiology</td>
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<td><a href="mailto:rekenned@uab.edu">rekenned@uab.edu</a></td>
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<td>Knight, David C</td>
<td><a href="mailto:knightdc@uab.edu">knightdc@uab.edu</a></td>
<td>Human imaging approach to investigating memory</td>
<td>Psychology</td>
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<td>Heather Dark</td>
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<td><a href="mailto:alahti@uab.edu">alahti@uab.edu</a></td>
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<td>Gregory Williams, Aubrey Schonhoff</td>
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<td>Theibert, Anne</td>
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<td>PI-3 Kinase signal transduction in neuronal cell biology</td>
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<td>Thyme, Summer B</td>
<td><a href="mailto:sthyme@uab.edu">sthyme@uab.edu</a></td>
<td>Neuropsychiatric and neurodevelopmental disorders</td>
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<td>Ubiquitin/proteasome system in neuronal function</td>
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Appendix 2
Top 20 publications from FY21 relevant to the MBRF


Penner MR, RR Parrish, LT Hoang, TL Roth, FD Lubin, CA Barnes. Age-related changes in Egr1 transcription and DNA methylation within the hippocampus 26 (8), 1008-1020


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

Annual UAB McKnight Lecture (2/4/2021)
Rebecca Gottesman, MD, PhD, Professor, Director of Research, Hopkins Bayview Neurology
“Modifiable midlife risk factors for cognitive decline and dementia”
McKnight Seminar - Dr. Rebecca Gottesman - YouTube
2021 Annual McKnight Lecture - School of Medicine - McKnight Brain Institute | UAB

UAB McKnight Brain Institute Scientific Dialogues (12/9/2021)
Abbi Hernandez, PhD: “Reuniting the Brain and Body to Understand Cognitive Aging”
Amani Norling MD, BCBA: “Decreasing Cognitive Loss and Vascular Rarefaction with Exercise”
Parlya Wheeler, PhD: “Biopsychosocial Correlates of Successful Cognitive Aging with HIV”


Lazar, RM. Brain Health: Mechanisms and Intervention. McCance Center Grand Rounds, Massachusetts General Hospital, Harvard Medical School, 9/20/2021.

Lubin, Farah, Epigenetic-level approaches to studying memory and age-related memory deficits National Institute of Aging Seminar Series. Invited by Drs. Christina Banuelos and Peter Rapp.
Appendix 4

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

The UAB McKnight website, updated regularly, gets about 1,000 hits per year. Dr. Lazar’s paper, “A Primary Care Agenda for Brain Health, first published online in March 2021, resulted in the following 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)

Lazar Interviews:
Appendix 6

New Faculty CVs

CURRICULUM VITAE

Pamela G. Bowen, PhD, CRNP, FNP-BC, BBA

LICENSE and BOARD CERTIFICATION
American Nurses Credentialing Center, FNP Expires 2025
Alabama, RN Expires 2022

PREPARATION
Specialty: Family
Role: Associate Professor
Area of Study: Health Disparity Research focused on physical activity, minority aging, and obesity reduction

EDUCATION

<table>
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<th>Institution</th>
<th>Field</th>
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<tr>
<td>University of Alabama, Birmingham, Alabama</td>
<td>Nursing</td>
<td>2006-2012</td>
<td>Doctor of Philosophy in Nursing</td>
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<tr>
<td>University of Alabama, Birmingham, Alabama</td>
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<td>1999-2000</td>
<td>Post-MSN Certificate Family Nurse Practitioner (FNP) Primary</td>
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<tr>
<td>Faulkner University at Birmingham, Montgomery, Alabama</td>
<td>Business</td>
<td>1993-1994</td>
<td>Bachelor of Business Administration</td>
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<tr>
<td>University of Alabama, Birmingham, Alabama</td>
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<tr>
<td>University of Alabama, Birmingham, Alabama</td>
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PROFESSIONAL EXPERIENCE

Academic Appointments

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</tr>
<tr>
<td>2021-present</td>
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</tr>
<tr>
<td>2020-present</td>
<td><strong>Scientist</strong>, University of Alabama at Birmingham, Alzheimer's Disease Center</td>
</tr>
<tr>
<td>2019-present</td>
<td><strong>Associate Professor</strong>, University of Alabama at Birmingham, School of Nursing</td>
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<tr>
<td>2019-2021</td>
<td><strong>Associate Scientist</strong>, UAB Minority Health and Health Disparities Research Center</td>
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<td><strong>Associate Scientist</strong> and Outreach Committee Member in the University of Alabama at Birmingham Center for Exercise Medicine</td>
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<tr>
<td>2018-present</td>
<td><strong>Birmingham Coalition Director</strong>, University of Alabama at Birmingham, Department of Preventive Medicine</td>
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<tr>
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<td><strong>Affiliated Member</strong>, University of Alabama at Birmingham Comprehensive Diabetes Research Center, Appointment</td>
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<tr>
<td>2015-present</td>
<td>Scientist, University of Alabama at Birmingham Comprehensive Center for Healthy Aging, Appointment</td>
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<tr>
<td>2014-present</td>
<td><strong>Affiliated Member</strong>, University of Alabama at Birmingham Nutrition Obesity Research Center, Appointment</td>
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<td>2012 – 2019</td>
<td><strong>Assistant Professor</strong>, University of Alabama at Birmingham, School of Nursing</td>
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<td><strong>Family Division Director</strong>, University of Alabama at Birmingham School of Nursing</td>
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<td><strong>FNP Specialty Coordinator</strong>, University of Alabama at Birmingham School of Nursing</td>
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<td>2008 - 2011</td>
<td><strong>Co-Coordinator FNP program</strong>, University of Alabama at Birmingham School of Nursing</td>
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<td><strong>602 Core Course Team leader</strong>, University of Alabama at Birmingham School of Nursing</td>
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<td><strong>Assistant Project Director, /Instructor</strong>, University of Alabama at Birmingham, School of Nursing</td>
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**Clinical Appointments**

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<td>2003 – 2013</td>
<td><strong>Certified FNP</strong>, City of Birmingham: Medical Service Unit</td>
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<td><strong>Certified FNP</strong>, Naphcare, Inc., Bibb County Correctional Facility</td>
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<td><strong>Certified FNP</strong>, Orthopedics Specialist of Alabama</td>
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**AWARDS AND HONORS**

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<td>2017</td>
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<tr>
<td>Alabama Board of Nursing Scholarship</td>
<td>1991</td>
<td>Montgomery, AL</td>
</tr>
<tr>
<td>Presidential Honor’s List, University of Alabama at Birmingham</td>
<td>1988</td>
<td>Birmingham, AL</td>
</tr>
<tr>
<td>Alabama State Nursing Scholarship</td>
<td>1987</td>
<td>Montgomery, AL</td>
</tr>
<tr>
<td>Baptist Medical Center Scholarship</td>
<td>1987</td>
<td>Birmingham, AL</td>
</tr>
<tr>
<td>Dean’s List, University of Alabama at Birmingham</td>
<td>1985</td>
<td>Birmingham, AL</td>
</tr>
</tbody>
</table>

**NATIONAL/REGIONAL/STATE LEADERSHIP ACTIVITIES**

**National**

<table>
<thead>
<tr>
<th>Year</th>
<th>Activity Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020-present</td>
<td>National RCMAR Scientist Advisory Board, appointment</td>
</tr>
<tr>
<td>2014, November</td>
<td>GSA 2014 Peer Reviewer for the GSA’s 67th Annual Scientific Meeting</td>
</tr>
<tr>
<td>2013-present</td>
<td>Health Resources and Services Administration (HRSA), grant reviewer</td>
</tr>
<tr>
<td>2012-2012</td>
<td>National Black Nurses Association- Orlando: UASON recruitment</td>
</tr>
<tr>
<td>2007-2007</td>
<td>National Black Nurses Association- Atlanta: UASON recruitment</td>
</tr>
<tr>
<td>State/Regional</td>
<td></td>
</tr>
<tr>
<td>----------------</td>
<td>-------------------------</td>
</tr>
<tr>
<td>2021-present</td>
<td>Alabama Obesity Taskforce: AL Capstone Agency Partnership, Co-Leader</td>
</tr>
<tr>
<td>2019, June</td>
<td>Equity and Inclusion Representative, Alabama Obesity Task Force Board. elected</td>
</tr>
<tr>
<td>2018- 2020</td>
<td>Director, Birmingham Coalition Gulf- States Gulf States Health Policy Center – Collaborations and Partnership Core, appointed</td>
</tr>
<tr>
<td>2017- present</td>
<td>Alabama Obesity Taskforce: AL. Nutrition and Physical Activity Plan, member</td>
</tr>
<tr>
<td>2016- 2020</td>
<td>Birmingham Coalition Gulf- States Gulf States Health Policy Center – Collaborations and Partnership Core</td>
</tr>
<tr>
<td>2010, February</td>
<td>ENCourAGE: Diabetes education recruitment for UAB Diabetes Research &amp; Training Center, Pine Apple, AL</td>
</tr>
<tr>
<td>2007, October</td>
<td>Tuskegee University Career Fair: UASON recruitment, Tuskegee, AL.</td>
</tr>
<tr>
<td>2003, April</td>
<td>Alabama Black Belt Health Fair, Sumter County, Alabama, Volunteer</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EDITORIAL BOARD AND JOURNAL REVIEWS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching and learning in Medicine</td>
</tr>
<tr>
<td>Western Journal of Nursing Research</td>
</tr>
<tr>
<td>Journal of Aging and Physical Activity</td>
</tr>
<tr>
<td>Ethnicity and Health</td>
</tr>
<tr>
<td>Hindawi Publishing Corporation</td>
</tr>
<tr>
<td>Journal of Child Health Care</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>RESEARCH GRANTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRENT RESEARCH/ FUNDING</td>
</tr>
<tr>
<td>2020-2021</td>
</tr>
<tr>
<td>Year(s)</td>
</tr>
<tr>
<td>---------</td>
</tr>
<tr>
<td>2020-2023</td>
</tr>
<tr>
<td>2021-2022</td>
</tr>
</tbody>
</table>

**COMPLETED RESEARCH/FUNDING**

<table>
<thead>
<tr>
<th>Year(s)</th>
<th>Project Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002-2006</td>
<td><em>A Culturally Competent Online Family Nurse Practitioner Program, Funded 100% Effort</em> U. S. Department of Health and Human Services, D09HP00284. Assistant Project Director</td>
</tr>
<tr>
<td>2013-2015</td>
<td>UAB Title VI Program for the Recruitment and Retention of Black Faculty and Administrators. Birmingham, Alabama <strong>Funded 60% Effort year 1 and 40% Effort year 2</strong></td>
</tr>
<tr>
<td>2015-2016</td>
<td>Physical Activity Text Message Library for Older African American. <strong>Funded 5% Effort</strong> Adults. HDRTP RCMAR pilot grant. $10,000. Principle Investigator</td>
</tr>
<tr>
<td>2018-2019</td>
<td>NIMHD Gulf States Health Policy Center – Collaborations and Partnership Core. U54MD008602. <strong>Funded 20% Effort</strong>. Birmingham Coalition Director.</td>
</tr>
<tr>
<td>2019-2020</td>
<td>NIMHD Gulf States Health Policy Center – Collaborations and Partnership Core. U54MD008602. <strong>Funded 2% Effort</strong>. Birmingham Coalition Director.</td>
</tr>
</tbody>
</table>

**UNDER REVIEW FOR RESEARCH FUNDING**

<table>
<thead>
<tr>
<th>Year(s)</th>
<th>Project Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2022-2027</td>
<td>NIH. Evaluation of the m-health Texting Older Sisters to Step (TOSS) Intervention. Principle Investigator</td>
</tr>
</tbody>
</table>

**PUBLICATIONS**

ORCID: https://orcid.org/0000-0002-2381-8118

Peer Reviewed (*denotes student, **denotes post-doc)


**Under Review**


**Book**

### SELECTED PRESENTATIONS

<table>
<thead>
<tr>
<th>Podium Presentations, Peer-Reviewed, International</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bowen, P. (2015, November). <em>Diabetes Self-efficacy and Quality of Life Among Older Adults with Diabetes</em> Gerontological Society of America's 68th Annual Scientific Meeting, Orlando, Fl.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Invited Podium Presentations, Peer-Reviewed, National (<em>denotes student</em>)</th>
</tr>
</thead>
</table>

**Invited Podium Presentation, Peer-Reviewed, State (denotes student)**


**Podium Presentations, Peer-Reviewed, Local**

| Bowen, P. (2010, September). Engaging Students in Learning, Scholarship of Teaching series, UABSON. Birmingham, AL. |

**Invited Podium Presentations (Non-peer Reviewed)**

| Bowen, P. G. (2019, May). The Impact of Physical Activity on Overall Health, Hopewell Missionary Baptist Church, Birmingham, AL. |
| Bowen, P. G. (2018, September). Healthy Lifestyle behaviors: Cardiovascular Health, Mt. Zion Missionary Baptist Church, Birmingham, AL. |
| Bowen, P. G. (2017, September). Healthy lifestyle behaviors for African Americans, Mt. Zion Missionary Baptist Church, Birmingham, AL. |
| Bowen, P. (2003, March). Hypertension and congestive heart failure, Mt. Zion Missionary Baptist Church, Birmingham, AL |

**Poster, Peer-Reviewed, International**


**Posters, Peer-Reviewed, National**


**Posters, Peer-Reviewed, State**

### Posters, Peer-Reviewed, Local (*denotes student*)

*Daftarian, Z., Bowen, P. G., & Masimasi, N. (2018, April). Preventing type 2 diabetes in patients with prediabetes through a lifestyle modification program. The University of Alabama School of Nursing, University of Alabama at Birmingham, DNP Intensive, Birmingham, AL

**Bowen, P.G.** (2008, July). Ethical issues faced by nursing editors. The University of Alabama School of Nursing, University of Alabama at Birmingham Summer Intensive, UAB School of Nursing Peer Workshop, Birmingham, AL

### Abstract, Peer-Reviewed (*denotes student*)


Mixon, V.*, Clay, O. J., Opoku-Agyeman, W., & **Bowen, P. G.** (2019). Implementing system-level policy to increase physical activity discussion among black patients and providers. ABRCMS conference, Anaheim, CA. **Accepted.**


Bowen, P. G., Pisu, M., Sen, B., & Martin, M. (2017). Promoting physical activity among African Americans through policy level intervention. 2017 Annual Meeting, World Congress on Exercise is Medicine®, and World Congress. Accepted


Bowen, P. G., Hess, A., & Bryant, P.H. (2016). Obesity and the Affordable Care Act: What is the role of the NP? Western Journal of Nursing Research- Accepted to submit full manuscript for special issue on obesity.

**Abstracts Under Review**


**MEDIA/PRESS RELEASES**

<table>
<thead>
<tr>
<th>Date(s)</th>
<th>Type of Media</th>
<th>Topic of Interview or Headline</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021, February</td>
<td>UABSON Blog</td>
<td>Q&amp;A with Dr. Bowen</td>
</tr>
<tr>
<td>2020, November</td>
<td>UAB Alzheimer’s Disease Research Center Facebook</td>
<td>Holiday Tips with Dr. Bowen Healthy Foods &amp; Activities</td>
</tr>
<tr>
<td>2020, September</td>
<td>UAB Alzheimer’s Disease Research Center Facebook/Zoom</td>
<td>Virtual Panel Discussion on Disparities in Alzheimer’s</td>
</tr>
<tr>
<td>Date</td>
<td>Source</td>
<td>Title/Details</td>
</tr>
<tr>
<td>--------------</td>
<td>---------------------------------</td>
<td>-------------------------------------------------------------------------------</td>
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<tr>
<td>2019, February</td>
<td>UABSON Blog</td>
<td>Putting Physical Activity in the Forefront Positively Impact Heart Health</td>
</tr>
<tr>
<td>2016, June</td>
<td>The Journal of Blacks in Higher Education</td>
<td>Research Project Seeks to Find Ways to Encourage Physical Activity Among African American Adults</td>
</tr>
<tr>
<td>2016, February</td>
<td>NP Schools Website</td>
<td>Accelerated Online MSN-NP Programs</td>
</tr>
<tr>
<td>2015, November</td>
<td>UABSON Website</td>
<td>Pilot Study Research</td>
</tr>
<tr>
<td>2007, January</td>
<td>Birmingham Medical News</td>
<td>Nurse Practitioner Education</td>
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</tbody>
</table>

### ACADEMIC/PROFESSIONAL ACTIVITIES AND COMMUNITY SERVICE

**Membership in Professional Organizations**

<table>
<thead>
<tr>
<th>Year</th>
<th>Organization</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019-Present</td>
<td>Sigma Theta Tau</td>
<td></td>
</tr>
<tr>
<td>2018- Present</td>
<td>National Black Nursing Association, member</td>
<td></td>
</tr>
<tr>
<td>2018- Present</td>
<td>American College of Sports Medicine, member</td>
<td></td>
</tr>
<tr>
<td>2013- Present</td>
<td>Gerontological Society of America: member</td>
<td></td>
</tr>
<tr>
<td>2013- Present</td>
<td>Alabama Obesity Taskforce: member</td>
<td></td>
</tr>
<tr>
<td>2010-2011</td>
<td>Southern Nursing Research Society (SNRS): member</td>
<td></td>
</tr>
<tr>
<td>2006-Present</td>
<td>National Organization of Nurse Practitioner Faculties (NONPF): member</td>
<td></td>
</tr>
<tr>
<td>2006-2008</td>
<td>Sigma Theta Tau: Graduate Counselor</td>
<td></td>
</tr>
<tr>
<td>2003-Present</td>
<td>American Academy of Nurse Practitioner (AANP): member</td>
<td></td>
</tr>
<tr>
<td>2002-2004</td>
<td>North Alabama Nurse Practitioner Association (NANPA): member</td>
<td></td>
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<tr>
<td>2005-Present</td>
<td>Central Alabama Nurse Practitioner Association (CANPA): member</td>
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### COMMITTEE SERVICE (ACADEMIC)

<table>
<thead>
<tr>
<th>University</th>
<th>Date</th>
<th>Task/Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2021-July</td>
<td>PhD committee: Wesley Browning, Successful PhD dissertation</td>
</tr>
<tr>
<td></td>
<td>2021- March</td>
<td>Diversity Education Ambassador</td>
</tr>
<tr>
<td></td>
<td>2020, February</td>
<td>Reviewer, RCMAR Pilot Grant Awards</td>
</tr>
<tr>
<td></td>
<td>2020, present</td>
<td>Titusville Live Health Smart Coalition</td>
</tr>
<tr>
<td></td>
<td>2019, April</td>
<td>Judge, UAB Health Disparities Research Symposium</td>
</tr>
<tr>
<td></td>
<td>2018, October</td>
<td>Panel member for Dr. Carmen Capo-Lugo. 2019 CCTS Interdisciplinary Network Pilot Program</td>
</tr>
<tr>
<td>Date</td>
<td>Event</td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>----------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>2018, April</td>
<td>Mentoring Week</td>
<td></td>
</tr>
<tr>
<td>2018, February</td>
<td>Reviewer, HDRTP Grant Writing Retreat</td>
<td></td>
</tr>
<tr>
<td>2018, March</td>
<td>Judge UAB Health Disparities Research Symposium</td>
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<tr>
<td>2018-2019</td>
<td>Team Leader, Gulf States Research Center Physical Activity/Obesity Manuscript</td>
<td></td>
</tr>
<tr>
<td>2017-2017</td>
<td>Reviewer, HDRTP Grant Writing Retreat</td>
<td></td>
</tr>
<tr>
<td>2017-2017</td>
<td>Member, RCMAR Advisory Committee</td>
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<tr>
<td>2017-2017</td>
<td>Panelist, UAB Student Affairs-Student Involvement: Birmingham 101</td>
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<tr>
<td>2017-2019</td>
<td>Graduate study committee: Wesley Browning, Successful Master Thesis 2019</td>
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</tr>
<tr>
<td>2017, May</td>
<td>Judge UAB Health Disparities Research Symposium</td>
<td></td>
</tr>
<tr>
<td>2016-2016</td>
<td>Judge, MHRC Summer Enrichment Program</td>
<td></td>
</tr>
<tr>
<td>2015, March</td>
<td>Judge UAB Health Disparities Research Symposium</td>
<td></td>
</tr>
<tr>
<td>2014, July</td>
<td>Judge MHRC Summer Enrichment Program Year 3 Posters</td>
<td></td>
</tr>
<tr>
<td>2008, September</td>
<td>Freshman Year Experience Class Panel, University of Alabama at Birmingham</td>
<td></td>
</tr>
<tr>
<td>2008, March</td>
<td>Recruiter, Minority Health Society: UASON Birmingham, AL</td>
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</tr>
</tbody>
</table>

**Local**

<table>
<thead>
<tr>
<th>Date</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018-2018</td>
<td>Local Public Health System Assessment: Essential Service 10 Reservation, Invited</td>
</tr>
<tr>
<td>2016-2016</td>
<td>Presenter, Office of Diversity &amp; Multicultural Affairs- Phillips Academy, Invited</td>
</tr>
<tr>
<td>2011-present</td>
<td>Community Service Outreach Ministries: Adamsville Annual Community Health Fair, Invited</td>
</tr>
<tr>
<td>2005 - Present</td>
<td>Community Health Fair, Mt. Zion Missionary Baptist Church, Annual, Invited</td>
</tr>
<tr>
<td>2004 - 2004</td>
<td>Community Health Fair, Miles College, Fairfield, Alabama, Volunteer</td>
</tr>
<tr>
<td>2004 - 2004</td>
<td>Community Health Fair, Lawson State Community College, Volunteer</td>
</tr>
<tr>
<td>2003 - 2003</td>
<td>Community Health Fair, Mt. Moriah Missionary Baptist Church, Volunteer</td>
</tr>
<tr>
<td>2002 - 2009</td>
<td>Mt. Zion Missionary Baptist Church Healthcare Ministry President, Appointed</td>
</tr>
</tbody>
</table>

**UAB School of Nursing**

<table>
<thead>
<tr>
<th>Date</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021-Present</td>
<td>UABSON STRIDE Taskforce (Strategy, Teamwork, Recognition, inclusion, diversity, Equity)</td>
</tr>
<tr>
<td>2021-Present</td>
<td>MSN-DNP 2020 cohort Chair</td>
</tr>
<tr>
<td>2020-Present</td>
<td>UABSON Executive Committee</td>
</tr>
<tr>
<td>2020-2020</td>
<td>UABSON-DEI 2020 Retreat Planning group, appointed</td>
</tr>
<tr>
<td>Year(s)</td>
<td>Term</td>
</tr>
<tr>
<td>-------------</td>
<td>--------</td>
</tr>
<tr>
<td>2007 - 2010</td>
<td>Fall</td>
</tr>
<tr>
<td>2007 - Present</td>
<td>Spring</td>
</tr>
<tr>
<td>Year</td>
<td>Term</td>
</tr>
<tr>
<td>--------------</td>
<td>-------</td>
</tr>
<tr>
<td>2007 - 2011</td>
<td>Spring</td>
</tr>
<tr>
<td>2007 - 2010</td>
<td>Summer</td>
</tr>
<tr>
<td>2007 - Present</td>
<td>Summer</td>
</tr>
<tr>
<td>2003 - Present</td>
<td>Fall</td>
</tr>
<tr>
<td>2003 - Present</td>
<td>Spring</td>
</tr>
<tr>
<td>2003 - Present</td>
<td>Spring</td>
</tr>
<tr>
<td>2003 – Present</td>
<td>Summer</td>
</tr>
</tbody>
</table>

**FACULTY PRACTICE ACTIVITIES**

<table>
<thead>
<tr>
<th>Year</th>
<th>Activity</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014- 2015</td>
<td>M-PATH clinic (M-Power Ministries)</td>
<td>NP provider Reimbursed Practice</td>
</tr>
<tr>
<td>2003- 2013</td>
<td>City of Birmingham, Medical Service Unit</td>
<td>NP provider Reimbursed Practice</td>
</tr>
</tbody>
</table>

**ACADEMIC MENTORSHIP—Clinical Faculty**

**University of Alabama at Birmingham**

<table>
<thead>
<tr>
<th>Year</th>
<th>Faculty Colleague</th>
<th>Role</th>
<th>New ACI role</th>
</tr>
</thead>
<tbody>
<tr>
<td>2011 - 2012</td>
<td>Amanda Basden</td>
<td>Faculty Colleagues Clinical Mentorship</td>
<td>New ACI role</td>
</tr>
<tr>
<td>2011 - 2012</td>
<td>Glenda Summerville</td>
<td>Faculty Colleagues Clinical Mentorship</td>
<td>New ACI role</td>
</tr>
<tr>
<td>2010 - 2012</td>
<td>Diana Webber</td>
<td>Faculty Colleagues Clinical Mentorship</td>
<td>New ACI role</td>
</tr>
<tr>
<td>2010 - 2010</td>
<td>Dennis Butler</td>
<td>Faculty Colleagues Clinical Mentorship</td>
<td>New ACI role</td>
</tr>
<tr>
<td>2010 - 2012</td>
<td>Bo Glen</td>
<td>Faculty Colleagues Clinical Mentorship</td>
<td>New ACI role</td>
</tr>
<tr>
<td>2010 - 2012</td>
<td>Celestine Dent</td>
<td>Faculty Colleagues Clinical Mentorship</td>
<td>New ACI role</td>
</tr>
<tr>
<td>008 - 2009</td>
<td>Patricia Luthin</td>
<td>Faculty Colleagues Clinical Mentorship</td>
<td>New ACI role</td>
</tr>
<tr>
<td>Year</td>
<td>Name</td>
<td>Role</td>
<td>Mentorship Type</td>
</tr>
<tr>
<td>--------------</td>
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<tr>
<td>2008 - 2010</td>
<td>Alfreida Hogan</td>
<td>Faculty Colleagues</td>
<td>Clinical Mentorship</td>
</tr>
<tr>
<td>2008 - 2009</td>
<td>David Slabaugh</td>
<td>Faculty Colleagues</td>
<td>Clinical Mentorship</td>
</tr>
<tr>
<td>2007 - 2010</td>
<td>Janice Chiles</td>
<td>Faculty Colleagues</td>
<td>Clinical Mentorship</td>
</tr>
<tr>
<td>2007 - 2009</td>
<td>Theresa Hardy</td>
<td>Faculty Colleagues</td>
<td>Clinical Mentorship</td>
</tr>
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### ACADEMIC MENTORSHIP—Faculty

University of Alabama at Birmingham

<table>
<thead>
<tr>
<th>Year</th>
<th>Name</th>
<th>Role</th>
<th>Mentorship Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021-2022</td>
<td>Rebecca Suttle</td>
<td>Faculty Colleague</td>
<td>Leadership Role</td>
<td>New ADMIRE Chair</td>
</tr>
<tr>
<td>2019-2020</td>
<td>Bela Patel</td>
<td>Faculty Colleague</td>
<td>Leadership Role</td>
<td>New ADMIRE Chair</td>
</tr>
<tr>
<td>2019-2020</td>
<td>Angela Lowery</td>
<td>ACI Faculty</td>
<td>Didactic mentorship</td>
<td>New to didactic course</td>
</tr>
<tr>
<td>2017-2019</td>
<td>Amber Kinsley</td>
<td>Postdoc Colleague</td>
<td>Academic mentorship</td>
<td>Manuscript development</td>
</tr>
<tr>
<td>2017-present</td>
<td>Shawona Daniel</td>
<td>Faculty Colleague</td>
<td>Academic mentorship</td>
<td>Peer Navigator</td>
</tr>
<tr>
<td>2016-2017</td>
<td>Pamela Bryant</td>
<td>Faculty Colleagues</td>
<td>Academic Mentorship</td>
<td>Published manuscript</td>
</tr>
<tr>
<td>2015-2016</td>
<td>Michael Mosley</td>
<td>Faculty Colleagues</td>
<td>Academic Mentorship</td>
<td>Published manuscript</td>
</tr>
<tr>
<td>2015-2016</td>
<td>Carla Turner</td>
<td>Faculty Colleagues</td>
<td>Academic Mentorship</td>
<td>Published manuscript</td>
</tr>
<tr>
<td>2015-2016</td>
<td>Pamela Bryant</td>
<td>Faculty Colleagues</td>
<td>Academic Mentorship</td>
<td>Published manuscript</td>
</tr>
<tr>
<td>2012-2013</td>
<td>D’Ann Somerall</td>
<td>Faculty Colleagues</td>
<td>Admin Mentorship</td>
<td>New to role</td>
</tr>
<tr>
<td>2010 - 2011</td>
<td>Lana Nealand</td>
<td>Faculty Colleagues</td>
<td>Academic Mentorship</td>
<td>New FNP track role</td>
</tr>
<tr>
<td>2009-2010</td>
<td>Pamela Bryant</td>
<td>Faculty Colleagues</td>
<td>Academic Mentorship</td>
<td>New to NUR 602 course</td>
</tr>
<tr>
<td>2009 - 2010</td>
<td>Deborah Baldwin</td>
<td>Faculty Colleagues</td>
<td>Academic Mentorship</td>
<td>New to NUR 602 course</td>
</tr>
<tr>
<td>2008 - 2009</td>
<td>Melanie Daniels</td>
<td>Faculty Colleagues</td>
<td>Academic Mentorship</td>
<td>New to NUR 602 course</td>
</tr>
<tr>
<td>2007 - 2012</td>
<td>Annette Wright</td>
<td>Faculty Colleagues</td>
<td>Academic Mentorship</td>
<td>New to FNP track role</td>
</tr>
<tr>
<td>Years</td>
<td>Name(s)</td>
<td>Role</td>
<td>Mentoring Area</td>
<td>Additional Notes</td>
</tr>
<tr>
<td>------------</td>
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</tr>
<tr>
<td>2007 - 2009</td>
<td>Jennifer DiCecco, Loretta Lee</td>
<td>Faculty Colleagues</td>
<td>Academic Mentorship</td>
<td>New to FNP track role</td>
</tr>
<tr>
<td>2008 - 2010</td>
<td>Brenda Iddins</td>
<td>Faculty Colleagues</td>
<td>Academic Mentorship</td>
<td>New to FNP track role</td>
</tr>
</tbody>
</table>
CURRICULUM VITAE

VICTOR A. DEL BENE, PHD

Personal information
Name: Victor A. Del Bene
Citizenship: United States
Foreign language(s): None
Phone: 205-569-9477

Rank/title
Assistant Professor (Clinical, Non-tenure Track)

Department: Department of Neurology
Business address: UAB School of Medicine 650 Sparks Center
1720 7th Ave. South Birmingham, AL, 35294
Phone: (205) 934-2334
Fax: (205) 975-3094
Email: victordelbene@uabmc.edu

Licensure:
Alabama #2148 Psychologist (since 2019)

Hospital and other (nonacademic) appointments: University Hospital Staff Privileges

Education:

<table>
<thead>
<tr>
<th>Year</th>
<th>Degree</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>B.A. (Psychology)</td>
<td>Hofstra University</td>
</tr>
<tr>
<td>2014</td>
<td>M.A. (Clinical Psychology)</td>
<td>Yeshiva University (APA-Accredited)</td>
</tr>
<tr>
<td>2017</td>
<td>Ph.D. (Clin. Psychology, Neuropsychology Track)</td>
<td>Yeshiva University (APA-Accredited)</td>
</tr>
</tbody>
</table>

Master’s Thesis: Cortical dynamics of interhemispheric transfer time in relation to corpus callosum microstructural integrity: A high-density electrical mapping and diffusion tensor imaging study.

Dissertation: Interhemispheric transfer of visual sensory information in autism spectrum disorder: A high-density electrical mapping study.

Practicum Training:

<table>
<thead>
<tr>
<th>Year</th>
<th>Title</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010-2012</td>
<td>Clinical Psychology Extern</td>
<td>Albert Einstein College of Medicine; Rose F. Kennedy Center</td>
</tr>
<tr>
<td>2012-2013</td>
<td>Clinical Psychology Extern</td>
<td>Northport VA Medical Center; Mental Hygiene Clinic</td>
</tr>
<tr>
<td>2013-2014</td>
<td>Neuropsychology Extern</td>
<td>NYU Langone Medical Center, Comprehensive Epilepsy Center</td>
</tr>
<tr>
<td>2014-2015</td>
<td>Neuropsychology Extern</td>
<td>Columbia University Medical Center, Department of Neurology</td>
</tr>
</tbody>
</table>
Internship Training:
Year  Title  Institution 2016-2017  Clinical Psychology Intern  University of Alabama at Birmingham (UAB) (APA-Accredited)

Postdoctoral Training:
Year  Title  Institution
2017-2019  Neuropsychology Fellow  Johns Hopkins School of Medicine, Department of Psychiatry

Academic Appointments:
Year  Rank/Title  Institution
09/19 – Present  Assistant Professor/Neuropsychologist (Non-tenure-track)  UAB, Department of Neurology

Other Appointments/Administrative Positions at UAB:
11/19 – Present  Associate Scientist, Comprehensive Neuroscience Center, UAB School of Medicine
10/20 – Present  Associate Scientist, Alzheimer’s Disease Center (ADC), UAB School of Medicine
02/21 – Present  Investigator, Evelyn F. McKnight Brain Institute, UAB School of Medicine

Awards/Honors:
2017  The C.J. Rosecrans Psychology Internship Award (Intern of the Year)  – UAB-BVAMC Internship
2016  American Academy of Clinical Neuropsychology Student Travel Scholarship  – Unrestricted Type ($500)
2015  APA Division 40 Association of Neuropsychology Students in Training (ANST) Member Highlight
2011-15  Dr. Norman Lamm Scholarship at the Ferkauf Graduate School of Psychology (Yearly Recipient)
2010  Leadership Education in Neurodevelopmental Disorders (LEND)

Professional societies:
American Academy of Clinical Neuropsychology (AACN)
American Psychological Association (APA)
APA Society for Clinical Neuropsychology (SCN; Division 40)
Cognitive Neuroscience Society (CNS)
International Neuropsychological Society (INS) National Academy of Neuropsychology (NAN)
Society for Neuroscience (SfN)

External service activities:
Current:
National Academy of Neuropsychology (NAN)
Publication Committee (2021 – Present)  – Committee Member
NAN Ambassador and Leadership Development Program (2021-2022)  Immediate Past Chair, Student & Postdoctoral Resident Committee (2020)
Chair, Student & Postdoctoral Resident Committee (Chair term: 2018-2019; Committee term 2017-2019)

International Neuropsychological Society (INS)
Teleneuropsychology Special Interest Group (2021-Present)  – Member at Large
20192021  – Invited conference submission reviewer

KnowNeuropsychology https://knowneuropsych.org
Committee member (2020 – Present)

Developed in 2020 in response to the COVID-19 pandemic to ensure neuropsychology trainees around the world continue receiving didactic training. Weekly webinars in neuropsychology, neuroscience, neurology, and psychiatry, presented by experts in the respective field.

American Psychological Association (APA) - Society for Clinical Neuropsychology’s (Division 40) Association of Neuropsychology Students & Trainees (ANST)
Membership Officer (2017)
Programming Officer (2018-2019)
Developed the Meet the Authors podcast, part of the APA journal Neuropsychology.

UAB service activities:

1. UAB Deep Brain Stimulation Patient Selection Committee (member, monthly, 2019 – present)
2. UAB Epilepsy Center Surgical Meeting (member, monthly, 2021 – present)
3. UAB Clinical Psychology Internship APA-Accreditation Committee (member, weekly, 2019-present)
4. UAB Teleneuropsychology Service Development for Division of Neuropsychology (2019 – present)
5. Member of the UAB Psychology Training Consortium and Internship Selection Committee (2019 - present)
6. Supervision of interns affiliated with the Psychology Training Consortium, UAB (2019 - present)
7. Supervision of UAB clinical psychology doctoral students (2020 - present)

Teaching/mentoring experience:

Clinical and Research Mentoring and Training: (in chronological order)

Postdoctoral Fellows (1 total)
09/20 – 08/21         Karl Martin, Psy.D., Clinical/Research, Postdoctoral Fellow; UAB Department of Neurology

Interns (8 total)
09/19 – 07/20         Stephen Aita, Ph.D., Clinical/Research, psychology intern; Dartmouth-Hitchcock Postdoc Fellow
12/19 – 03/20         Alena Stasenko, Ph.D., Clinical, psychology intern; UCSD, Department Psychiatry Postdoc
12/19 – 03/20         Carissa Lane, Psy.D., Clinical, psychology intern; Philadelphia VA Medical Center Postdoc
09/20 – 12/20         Benjamin Eschler, Ph.D., Clinical, psychology intern; UAB Department of Psychiatry 04/21 – 07/21
                       Jordan Kennon, Ph.D., Clinical, psychology intern; UAB Spain Rehabilitation Postdoc 08/21 – 12/21
                       Lindsay Fruehauf, M.A., Clinical, psychology intern; UAB Psychiatry and Neurobiology
08/21 – Present       Tina Jimenez, M.A., Research, psychology intern; UAB Psychiatry and Neurobiology
08/21 - Present       Jennifer Nosker, M.A., Research, psychology intern; UAB Psychiatry and Neurobiology

UAB Doctoral Students (5 total)
01/20 – 03/20         Tyler Bull, M.S., Clinical, UAB clinical psychology doctoral student, Med. Psych Program 01/20 – 03/20
                       Terrence Penn, M.S., Clinical, UAB clinical psychology doctoral student, Med. Psych Program 07/21 – 09/21
                       Alena Borgatti, MS, Clinical, UAB clinical psychology doctoral student, Med. Psych Program 06/21 – Present
                       Christina DiBlasio, M.S., Clinical, UAB clinical psychology doctoral student, Med. Psych Program 06/21 – Present
                       Cheyanne Barba, M.S., Clinical, UAB clinical psychology doctoral student, Med. Psych Program

Medical Students (2 total)
12/19 – Present Dario Marotto, B.S., Research, DO medical student, Alabama College Osteopathic Medicine 10/20 – Present Gabrielle Whilhem, BS., Research, MD medical student, UAB Medical School

Undergraduate Students (1 total):
02/18 – 05/19 William Catterall (Pre-Med), Johns Hopkins University, Undergraduate Research Assistant

Dissertation Committee Member (1 total):

Other Teaching/Mentorship Related Activities:
May 2021 Movement Disorders. Lecture to UAB neuropsychology postdoctoral fellows and clinical psychology interns.


February 2021 Important cultural and diversity considerations in clinical neuropsychology. Lecture to UAB neuropsychology postdoctoral fellows and clinical psychology interns.

March 2020 Integrating neuropsychology with structural and functional neuroimaging. Lecture to UAB neuropsychology postdoctoral fellows and clinical psychology interns.

Sept. 2019, 2020 UAB Medical Neuroscience “Brain” Module – Psychiatric & Neuropsychological Assessment; Provide an annual lecture to UAB medical students on cognitive assessment and psychometrics.

Spring 2016 Albert Einstein College of Medicine; Science of Cognitive and Affective Psychology - Lecturer and teaching assistant.

2012-2014 Albert Einstein College of Medicine; Cognitive Neurophysiology Laboratory Summer Education Program; Mentored high school and college summer research interns on experimental design, data collection via MRI, EEG, infrared eye tracking, and cognitive assessment, as well as data processing (EEG/ERP, MRI, fMRI, DTI).

Grant Support:

Current Co-Investigator Funding (2 total):
University of Alabama Health Services Foundation (UAHSF) General Endowment Fund (GEF) Grants (Lazar, R.M., PI). Establishing a normative cognitive database for UAB medical professionals, 2021 – 2023, $250,000

National Institute of Neurological Disorders and Stroke/NIH/DHHS (Walker, H.C., PI) Non-invasive biomarkers to advance emerging DBS electrode technologies in Parkinson’s Disease 2016-2023

Bibliography:

Peer-Reviewed manuscripts already published: (17 total published or in-press; 349 citations, h-index = 8) *
= corresponding author; ** = co-first author


**Manuscripts submitted and under review (n = 4):**


**Manuscripts in Preparation (manuscript going through final preparation before submission; n = 5):**

1. **Del Bene, V.A.** Fazeli, P.L., Collette, C., Sribalusu, S., Triebel, K., & Vance, D. (*In Preparation*). Cognitive intra-individual variability in people living with HIV-associated neurocognitive disorder before and after processing speed cognitive training.


Other Publications (Non-Peer Reviewed; n = 7):


Oral Presentations, Workshops, and Invited Talks (n = 21)


17. **Del Bene, V.A.** (April, 2017). Supervision in Medical Settings. *UAB Medical Center Clinical Psychology Internship Consortium*, Birmingham, AL.


**Poster Presentations (n = 46)**


Invited Reviewer:
Archives of Clinical Neuropsychology; Applied Clinical Neuropsychology: Adult; Biological Psychiatry: Brain Imaging and Behavior; Cognitive Neuroscience and Neuroimaging; European Journal of Neuroscience; Genes, Brain, & Behaviors; Journal Image: Clinical; Neuromodulation; Rehabilitation Psychology.
CURRICULUM VITAE

Kristine L. Lokken (Edmondson), Ph.D.

Address: Current: 4920 Branch Mill Circle, Mountain Brook, AL 35223
Electronic: kristinelokken@uabmc.edu
Telephone: (205) 837-3533 (cellular)

Work Experience

7/1/2021- Present Chief Psychologist, Associate Professor, Neuropsychologist, Director of Graduate Student Training for Psychology in the Department of Psychiatry and Behavioral Neurobiology, University of Alabama at Birmingham (UAB)

10/5/20-6/30/2021 Associate Professor, Neuropsychologist, Director of Graduate Student Training for Psychology & Director of Clinical Operations for Psychology in the Department of Psychiatry and Behavioral Neurobiology; UAB


4/2016 – Present Co-Founder/Owner/CEO, Brain Health Institute, Inc.; Former Site: 3125 Independence Drive, Suite 114, Birmingham, AL 35209.


3/2009 – 9/2019 Neuropsychologist and Director of the Rehabilitation Neuropsychology Service, Birmingham VA Medical Center. Site: Birmingham VA Clinic, Physical Medicine & Rehabilitation Service/Mental Health; 2415 7th Avenue South, Birmingham, AL 35233.

6/2005 – 2/2009 Assistant Professor, Neuropsychologist; Site: Department of Psychiatry and Behavioral Neurobiology; UAB


8/2001 – 5/2005 Assistant Professor; Site: Department of Psychology, University of Alabama

Academic Appointments and Training Experience

11/2012 - Present Graduate Faculty, Department of Psychology, University of Alabama at Birmingham

10/2011 - Present Instructor, Department of Psychology, University of Alabama, Tuscaloosa

7/2010 – Present Adjunct Faculty, Department of Psychology, University of Alabama at Birmingham

8/2009 – 9/2010 Clinical Assistant Professor, Department of Psychiatry. UAB

9/2007 – Present Associate Scientist (Academic Appointment); Site: UAB CNRU

10/2004 – 5/2005 Postdoctoral Fellow: Site: Department of Psychiatry; UAB


8/1999 – 6/2000 Graduate Training Experience: Neuropsychology Associate; Site: MeritCare Neurosciences, Fargo, ND.

9/1998 – 8/1999 Graduate Training Experience: Behavioral Medicine/Neuropsychology Trainee; Site: Indian Health Service Mental Health and Social Services, Fort Totten Indian Reservation, Fort Totten, ND


7/1994 – 3/1996 Post-baccalaureate Experience: Neuropsychology Technician; Site: Arthur Benton Neuropsychology Laboratory, Department of Neurology, University of Iowa Hospitals and Clinics, Iowa City, IA.
**Education**

**Ph.D.**
- **Date:** 2001, University of North Dakota, (APA Accredited)
- **Degree:** Clinical Psychology, Neuropsychology & Health Psychology emphases

**M.A.**
- **Date:** August, 1998, University of North Dakota
- **Degree:** Clinical Psychology

**B.S.**
- **Date:** December, 1993, University of North Dakota
- **Degree:** Honor’s Degree, *Summa Cum Laude*
- **Major:** Psychology, **Minors:** Biology and Communications

**Certification and Licensure**

1/2020 – Present  Licensed Psychologist, Washington Certificate License PY 61017478

5/2002 – Present  Licensed Psychologist; Alabama Certificate License Number 1206

Under Review  PSYCHPACT Interjurisdictional Psychology License


12/2020-Present Idaho Temporary Psychology License

5/2020 – Present Florida Telehealth Provider Number 121

8/2020 - Present North Carolina Temporary Psychology License

9/2020-12/2020  New York Temporary Psychology License

2020-21  “Mobile Technology-Based Simultaneous Aerobic Exercise and Memory Training Intervention for Older Adults with Mild Cognitive Impairment”, NIA R21 AG061494, Sarah McEwen, Pacific Neuroscience Institute (PI), Kristine Lokken, UAB (Consultant)

Submitted  “Examining Neurocognitive Trajectories and Dementia Risk in Middle-aged and Older adults with COVID-19”, Katz ESI R01 submission, Pariya Wheeler (PI), Kristine Lokken (Co-I)

Submitted  “A Therapy for Long COVID Brain Fog and Cognitive Impairment”, RO1 submission Edward Taub (Co-PI) & Gitendra Uswatte (Co-PI), Kristine Lokken (Co-I)


2012-2017  “Impact of sport and recreation programs on health outcomes for injured service members and their families”, Project Funded by the Lakeshore Foundation, Dr. Laura Dreer, Principal Investigator; Dr. K. Lokken, Collaborator.

2012-2017  “Efficacy of a cognitive-behavioral therapy intervention for family caregivers of service members with traumatic brain injury”, NIDR, Dr. Laura Dreer, Principal Investigator; Dr. K. Lokken, Co-Investigator.

2011-2015  “A pilot trial of lithium in progressive Multiple Sclerosis”, Li Grant, Department of Veterans Affairs, Dr. J. Rinker, Principal Investigator; Dr. K. Lokken, Study Neuropsychologist

2009-2014  Birmingham VAMC/UAB Neurology CASL Study, Dr. D. Clark, Principal Investigator; Dr. K. Lokken, Consultant.

**Professional Affiliation**

American Psychological Association (APA), Member

APA Division 40 (Clinical Neuropsychology), Member

National Academy of Neuropsychology, Member

International Neuropsychological Society, Member

The Institute of Functional Medicine, Member

Center for Nutritional Psychology, Member, Thought Leader, Steering Committee, & CE Planning Committee

**Grants and Scholarship Awards**

2020-21  “Mobile Technology-Based Simultaneous Aerobic Exercise and Memory Training Intervention for Older Adults with Mild Cognitive Impairment”, NIA R21 AG061494, Sarah McEwen, Pacific Neuroscience Institute (PI), Kristine Lokken, UAB (Consultant)

Submitted  “Examining Neurocognitive Trajectories and Dementia Risk in Middle-aged and Older adults with COVID-19”, Katz ESI R01 submission, Pariya Wheeler (PI), Kristine Lokken (Co-I)

Submitted  “A Therapy for Long COVID Brain Fog and Cognitive Impairment”, RO1 submission Edward Taub (Co-PI) & Gitendra Uswatte (Co-PI), Kristine Lokken (Co-I)


2012-2017  “Impact of sport and recreation programs on health outcomes for injured service members and their families”, Project Funded by the Lakeshore Foundation, Dr. Laura Dreer, Principal Investigator; Dr. K. Lokken, Collaborator.

2012-2017  “Efficacy of a cognitive-behavioral therapy intervention for family caregivers of service members with traumatic brain injury”, NIDR, Dr. Laura Dreer, Principal Investigator; Dr. K. Lokken, Co-Investigator.

2011-2015  “A pilot trial of lithium in progressive Multiple Sclerosis”, Li Grant, Department of Veterans Affairs, Dr. J. Rinker, Principal Investigator; Dr. K. Lokken, Study Neuropsychologist

2009-2014  Birmingham VAMC/UAB Neurology CASL Study, Dr. D. Clark, Principal Investigator; Dr. K. Lokken, Consultant.

2006 “Executive dysfunction in obese individuals undergoing bariatric surgery: Examining behavioral, cognitive, and emotional correlates of surgical outcome”, UAB Psychiatry Research Committee Grant: Dr. K. Lokken, Principal Investigator (completed).

2006 UAB Clinical Research Training Program (CRTP): NIH K30 Training Grant (completed).

2003-2006 “Training geropsychologists for an aging America”, Funded by the Bureau of Health Professionals, (funded 9/30/03), Dr. F. Scogin, Project Director, Dr. K. Lokken, Co-Investigator (completed).

2004-2006 “Using the Pictorial Stroop to assess bulimia nervosa” Supervised McWane Undergraduate Fellowship, University of Alabama, L. Alexander, Principal Investigator, Dr. K. Lokken, Faculty Mentor (completed).

2004 “Using the RBANS to identify mild cognitive impairment among community dwelling older adults”, Research Advisory Committee Grant, University of Alabama, Dr. K. Lokken, Principal Investigator (completed).

2003 “Using the Stroop paradigm as a quantitative measure of psychopathology for diagnosing bulimia nervosa”, Supervised Undergraduate Research Grant funded by Psi Chi Undergraduate Research Grants Program, H. Marx, Principal Investigator, Dr. K. Lokken, Faculty Mentor (completed).

2002 “Psychosocial predictors of treatment outcome in gastric bypass surgery”, Research Advisory Committee Grant, University of Alabama, Dr. K. Lokken, Principal Investigator (completed).

2000 Intercollegiate Academic Grant, University of North Dakota

1999 North Dakota EPSCoR Travel Grant, University of North Dakota

1999 Intercollegiate Academic Grant, University of North Dakota

1999 Neil C. MacDonald Scholarship for Outstanding Graduate Student, University of North Dakota

1998 Intercollegiate Academic Grant, University of North Dakota

1996-2000 Full Tuition Scholarship and University Fellowship, University of North Dakota

Areas of Research Interest
Prevention of Cognitive Impairment and Healthy Aging; Alzheimer’s Disease and Related Dementias; Mild Cognitive Impairment; Subjective Cognitive Impairment; Neuropsychology of Post-Acute Sequelae of SARS-CoV-2 Infection (PASC), Traumatic Brain Injury; Multiple Sclerosis; Neuropsychology of Eating Disorders and Obesity; Neurobehavioral Correlates of Binge Eating and Chaotic Eating Behavior; Holistic Psychology; Medical/Surgical Neuropsychology; Women’s Health Issues

Research Experience
10/2020-Present UAB neuroCOVID Research Group, Member: Submission of Parent IRB for post-COVID Registry; Coordination of telehealth neuropsychological battery and RedCAP database

8/2019 – 7/2020 Translational Research Liaison, Brain Health & Research Institute: Assist in data collection, systemization, and interpretation. Meet with ISB scientists bi-weekly to examine goals, hypothesize, and procurement of research trajectory. Research is focused on 1) dense phenotyping to identify the earliest transition points of the disease; 2) a multimodal therapy to prevent, restore, and stabilize cognitive dysfunction; and 3) innovative cognitive interventions to improve cognitive function (strength-based learning).

2016 – Present Research Director, Brain Health Institute, Inc: Created and implemented a laboratory staffed with a graduate student and research assistants. Examining biomarkers associated with cognitive impairment and lifestyle intervention for cognitive issues.

2005 – 2009 Research Director, UAB Department of Psychiatry Behavioral Medicine/Neuropsychology Research Laboratory: Created and implemented a laboratory designed to investigate neuropsychological phenomena, specifically neurobehavioral correlates of individuals undergoing liver transplantation and bariatric surgery

2001-2005 Research Director, University of Alabama Neuropsychology Research Laboratory: Created and implemented a laboratory designed to investigate neuropsychological phenomena, specifically neurobehavioral correlates of obesity and bulimia nervosa.
Publications and Presentations

**Published Manuscripts & Book Chapters**


**Manuscripts In Progress**


Lokken, K. (under review). Multi-modal treatment of cognitive decline: Changing the landscape


Symposium


Papers

Burgess, E., Sylvester, M., Morse, K., Wenger, L., Amthor, F., Mrug, S., Lokken, K., Soleymani, T., & Boggiano, M. (2016, May). Sex effects of transcranial direct current stimulation (tDCS) on binge eating disorder (BED) and sub-threshold BED. Oral presentation at International Conference on Eating Disorders (ICED), San Francisco.

Burgess, E., Sylvester, M., Morse, K., Wenger, L., Amthor, F., Mrug, S., Lokken, K., Soleymani, T., & Boggiano, M. (2015, October). Effects of transcranial direct current stimulation (tDCS) on binge eating disorder (BED) and sub-threshold BED. Invited departmental talk at King’s College London, Eating Disorders Section.


Posters


Lokken, K., Ferraro, F.R., Kirchner, T., & Bowling, M. (1999, April). Gender differences in body dissatisfaction in low, medium, or high body focus individuals. Presented at the 33rd annual meeting of the Association for Advancement of Behavior Therapy, Toronto, Ontario, Canada.


Editorial Board Memberships/Reviews

2013 – Present, Reviewer, International Journal of Obesity
2013 – Present, Reviewer, Obesity Reviews
2013 – Present, Reviewer, The International Journal of Neuroscience
2013 – Present, Reviewer, Journal of Clinical and Experimental Neuropsychology
2013 – Present, Reviewer, Alzheimer’s and Dementia: The Journal of the Alzheimer’s Association
2008 – Present, Reviewer, Handbook of assessment methods for obesity and eating behaviors, related problems, and weight
2005 – Present, Ad-hoc Reviewer, Media Psychology
2004 – Present, Ad-hoc Reviewer, Journal of Clinical Psychology
2004 – Present, Ad-hoc Reviewer, Neuropsychological Review
2004 – Present, Reviewer, Alzheimer’s Association
2002 – Present, Reviewer, Allyn & Bacon
2001 – Present, Ad-hoc Reviewer, Canadian Journal of Aging
2002 - Ad-hoc Reviewer, Behavior Therapy

Teaching and Supervisory Experience

Research Supervisory Experience
Faculty Mentor, Thesis and Dissertation Research (PY 599), University of Alabama & University of Alabama at Birmingham
Undergraduate Honors Theses
Leigh Alexander (Primary Advisor, Completed Spring 2006)
Hallie Marx (Primary Advisor, Completed Spring 2004)
Christopher Alldredge (Primary Advisor, Completed Spring 2004)
Amy Bramlett (Primary Advisor, Completed Spring 2004) Abby Morris (Primary Advisor, Completed Spring 2003)

MA Theses
Emilee Burgess (Committee Member, Completed Summer 2013)
Kimberly Oswald (Committee Member, Completed Spring 2009)
Abbe Boeka (Primary Advisor, Defended Fall 2005)
Jennifer Karpe (Committee Member, Defended Spring 2005)
Ty Patterson (Primary Advisor, Defended Fall 2004)
Rebecca Pohlig (Committee Member, Defended Spring 2004)

Doctoral Dissertations
Samantha Henry (Committee Member, Defended Summer 2019) Erica Schmidt (Committee Member, Defended Summer 2016)
Emilee Burgess (Committee Member, Defended Spring 2015)
Donald Labbe (Co-Chair, Defended Summer 2012)
Adam Perkins (Committee Member, Defended Fall 2011)
Abbe Boeka (Co-Chair, Defended Spring 2009)
Annie Deming (Committee Member, Defended Fall 2008)
Jenni Jones (Committee Member, Defended Summer 2008)
Kellee Bivens (Committee Member)
Patricia Tsui (Committee Member, Defended Spring 2008) Karen Hubbard (Committee Member, Defended Fall 2006)
Rachel Fry (Committee Member, Defended Fall 2004)
Heath Patterson (Committee Member, Defended Spring 2004)
Virginia Galloway (Committee Member, Defended Fall 2003)
Joy Lee (Committee Member, Defended Spring 2003)

Graduate Study Committee Work: UAB Medical Psychology Program
Shakaye Haase (Member, in progress) Erica Schmidt (Chair, Graduated)
Emilee Burgess (Member, Graduated)
Sarah Viamonte (Member, Graduated)
Kimberly Oswald (Chair)

Clinical Supervisory Experience
UAB Medical Psychology Graduate Training Committee, Supervisor, (Spring, 2006 – 8/2019; 10/2020-Present)
UAB Behavioral Medicine Post-Doctoral Fellow Supervisor, (10/2020-Present)
Psychology Training Committee Intern Supervisor, UAB Department of Psychiatry (Fall 2005 – 8/2019; 10/2020-Present)
PGY-IV Resident Practicum Supervisor, UAB Department of Psychiatry (2006 – 2009; 1/2021-present)
Birmingham VAMC Rehabilitation Neuropsychology Post-doctoral Fellowship Training Committee (11/2014 – 8/2019)
UA Clinical Psychology Graduate Training Committee, Practicum Supervisor, Site: Brain Health Institute: (2018-8/2019)

Supervisor for Behaviorist Practicum, UAB Medical Psychology Graduate Program/UA Clinical Psychology Graduate Program, UAB EatRight/UAB Weight Loss Medicine (Fall 2009 – 8/2017)

Supervisor for Practicum, Auburn University Clinical Psychology Graduate Program, Brain Health Institute (2017-18).

Supervisor for Behavioral Medicine/Neuropsychology Practicum, UA Clinical Psychology Graduate Program, UAB Department of Psychiatry (Fall 2005 – Fall 2008)

Geropsychology Practicum (PY 642), University of Alabama (Summer 2003)

Practicum in Psychotherapy (PY 631), University of Alabama (Fall 2002/Spring 2003)

**Course Teaching Experience**

Graduate/Medical Resident
Introduction to Psychotherapy Practicum (IPP), UAB Medical-Clinical Graduate Program, 1/2021-Present).

Advanced Cognitive Behavioral Therapy, UAB Department of Psychiatry and Behavioral Neurobiology (2007-2009)

Introduction to Cognitive Behavioral Therapy, UAB Department of Psychiatry and Behavioral Neurobiology (2007 – 2008)

Neuropsychological Assessment (PY 611), UA Department of Psychology (Spring 2002, Summer 2002, Fall 2003, Fall 2004)

Physiological Psychology (PY 651), UA Department of Psychology (Fall 2002, Spring 2004, Spring 2005)

Seminar in Adult Clinical Psychology (PY 688), UA Department of Psychology (Spring 2003)

Undergraduate
Seminar in Psychology: Eating Disorders and Obesity (PY 491), UA Department of Psychology (Spring 2004)

Seminar in Psychology: Introduction to Clinical Neuropsychology (PY 491), UA Department of Psychology (Fall 2001, Spring 2002, Spring 2003, Fall 2003, Spring 2005)

Faculty Mentor, Undergraduate Research (PY 451), UA Department of Psychology (Fall 2001 - present)

Faculty Mentor, Readings in Psychology (PY 481), UA Department of Psychology (Spring 2002 - present)

Graduate Teaching Assistant: Industrial/Organizational Psych. (PSY 301), University of North Dakota Department of Psychology (1999)

Graduate Teaching Assistant: Physiological Psychology (PSY 435/535), University of North Dakota Department of Psychology (1999)

Graduate Teaching Assistant: Introduction to Clinical Psychology (PSY 470), University of North Dakota Department of Psychology (1998)

Graduate Teaching Assistant: Developmental Psychology (PSY 251), University of North Dakota Department of Psychology (1997, 1998)
Representative Invited Talks and Lectures

“Neuropsychology of PASC”, Presented at UAB Department of Psychiatry Grand Rounds; 4/27/2021

“Post-COVID: The Long Haul” Webinar, Panelist with Drs. Mike Saag & Gitendra Uswatte, UAB Office of Diversity, Equity, & Inclusion; 6/19/2021


“Brain Fog after COVID, what do we know and not know”, Invited talk for UAB CNC Neuroscience Café: Presented with Dr. Gitendra Uswatte, 8/19/2021


https://www.youtube.com/watch?v=tEKXqBEJxXM


“Alzheimer’s Disease: Advanced Diagnosis and Treatment Options”. Invited Keynote Speaker for the 16th Annual Lucy and John Caddell Alzheimer's Conference, Decatur, AL, September 25, 2018


“Eating Disorders”: Invited talk presented for UAB Howard Hughes Lecture, June 16, 2010


“Sizing up Mississippi: The skinny on obesity trends”: Invited headline address Mississippi Association of Family and Consumer Sciences Annual Meeting, Biloxi, MS, February 24, 2005.

“Sizing Up America: Eating Disorders and Obesity”: Invited Workshop presented to The Mississippi Association of Family and Consumer Sciences, Northern District, Mississippi State University, Starkville, MS, September 29, 2004.

“Eating Disorders: Techniques and Effective Tools for Treatment”: Invited Workshop presented to DCH Employee Assistance Program, Tuscaloosa, AL, March 19, 2004

“Neuropsychological Assessment of Elders in Primary Care Settings”, Invited lecture presented to PY 691-01: Health and Aging class, University of Alabama, Monday, March 15, 2004

“Biology and Culture: Conceptualizations of Bulimia Nervosa”, Invited lecture to be presented on November 14, 2003 at the Fall 2003 University of Alabama Department of Women Studies Brown Bag Series

“Eating Disorders”, Invited lecture presented to PY 658: Psychopathology class on Wednesday, October 22, Fall Semester 2003

“Neurobehavioral Features of Bulimia Nervosa: Merging neurobiological and sociocultural models”, Invited address for the Mississippi State University, Department of Psychology Invited Colloquium Series, November 20, 2002.

“Neuropsychological Assessment”, Invited address for the Department of Vocational Rehabilitation, Tuscaloosa, AL, 2002

“Nonverbal Learning Disability”, Invited address for the Department of Vocational Rehabilitation, Tuscaloosa, AL, 2002

Related Clinical Experience

Predoctoral Clinical Experience:

7/2000 – 6/2001 Position: Neuropsychology Resident; Site: Rush-Presbyterian-St.Luke’s Medical Center, Chicago, IL (APA Accredited/Division 40 Psychology Internship Site); Clinical Hours: 2000+; Supervision: 3-5 hours/week; Supervisors: David Garron, Ph.D., ABPP/ABCN; David Nyenhuis, Ph.D., ABPP/ABCN; Christopher Grote, Ph.D., ABPP/ABCN; Duties: Conducted comprehensive neuropsychological evaluations on inpatient and outpatient populations with a wide-range of clinical diagnoses. Conducted pre-operative and post-operative epilepsy evaluations and Wada testing. Participated in interdisciplinary team treatment planning meetings for traumatic brain injured patients and epilepsy
surgical candidates. Provided outpatient psychotherapy and cognitive rehabilitation for patients with traumatic brain injuries. Participated in neurology and psychology didactic experiences. 40-70 hours per week.

8/1999 – 6/2000 **Position:** Neuropsychology Associate; **Site:** MeritCare Neurosciences, Division Neuropsychology, Fargo, ND; **Clinical Hours:** 956; **Supervision:** 2-5 hours/week; **Supervisors:** Rodney Swenson, Ph.D., ABPP-PN, Patrick Kowneko, Psy.D.; **Duties:** Conducted comprehensive neuropsychological evaluations, participated in inpatient rounds and outpatient consultations for traumatic brain injured patients and other general neuropsychological populations. Other duties: assisted in the development of pathology-specific neuropsychological protocols and in the development of a research-focused patient database. 16-20 hours/wk, 40 hours/wk May-June.

10/1997 – 6/2000 **Position:** Clinical Psychology Trainee; **Site:** University of North Dakota Center for Psychological and Educational Assessment; **Clinical Hours:** 219
**Supervision:** 1-5 hours/week; **Supervisors:** Andrea A. Zevenbergen, Ph.D., Thomas V. Petros, Ph.D.; **Duties:** Administered and interpreted intellectual, aptitude, psychological, and neuropsychological tests for the assessment of Attention Deficit Hyperactivity Disorder and Learning Disabilities, including Nonverbal Learning Disability. Integrated assessment information in comprehensive report format under the direct supervision of a licensed psychologist. Clients included both adults and children. 1-15 hours/week (variable).

8/1999 – 6/2000 **Position:** Clinical Psychology Trainee; **Site:** Anxiety Disorders and Women's Health Clinic, Psychological Services Center, University of North Dakota; **Clinical Hours:** 280; **Supervision:** 2-5 hours/week; **Supervisor:** Nancy D. Vogeltanz-Holm, Ph.D.; **Duties:** Conducted supervised individual and couples’ evidenced-based therapy with clients demonstrating anxiety-related difficulties, post-traumatic stress disorder (PTSD); problems related to women’s health, and relationship turmoil. Didactic experiences included: treatment of panic disorder, exposure therapy for combat and other trauma related PTSD victims, assessment of substance abuse, women's health issues, and implementation of Jacobson’s integrative behavioral couple therapy and Baucom’s cognitive marital therapy. 4-9 hours/week.

9/1998 – 8/1999 **Position:** Clinical Health Psychology Trainee; **Site:** Indian Health Service Mental Health and Social Services, Fort Totten Indian Reservation, Fort Totten, ND; **Clinical Hours:** 1182; **Supervision:** 2-3 hours/week; **Supervisors:** Gregory A. Volk, Psy.D., Andrea Zevenbergen, Ph.D.; **Duties:** Provided a wide range of clinical services for American Indian adults, adolescents, and children, including: individual, couple, and family evidenced-based psychotherapy, psychological and educational evaluations, and neuropsychological screenings. Conducted risk assessment and crisis intervention with actively suicidal and homicidal clients. Organized consultations with community agencies, such as the court, hospitals, and schools, and initiated, planned, and delivered parenting classes and diabetes support group to communitydwellling adults, and a series of psychoeducational classes to incarcerated inmates. 16-20 hours/week, 40 hours/week May-July.

9/1998 – 7/1999 **Position:** Clinical Health Psychology Trainee; **Site:** Center for Behavioral Health, Psychological Services Center, University of North Dakota; **Clinical Hours:** 353; **Supervision:** 2-3 hours/week; **Supervisor:** Jeffrey E. Holm, Ph.D.; **Duties:** Conducted evidenced-based individual cognitive-behavioral therapy for weight management, Jacobson’s integrative behavioral couple therapy, and received didactic training in behavioral health and behavioral medicine. Topics included: management of chronic pain and headache, treatment of eating disorders and obesity, smoking cessation, stress management, and health promotion. 3-7 hours/week.

5/1998 – 8/1998 **Position:** Clinical Neuropsychology Trainee; **Site:** VA Medical Center, Eugene, OR; **Clinical Hours:** 500; **Supervision:** 3-5 hours/week
**Supervisor:** Rex Turner, Ph.D.; **Duties:** Conducted comprehensive neuropsychological and psychological evaluations, under the direct supervision of a licensed psychologist. Interviewed patients referred for neuropsychological assessment, selected a flexible battery of tests using a cognitive process approach, administered and interpreted neuropsychological and psychological tests, integrated patient neurological,
neuroimaging, and laboratory data to formulate diagnosis and treatment recommendations, compiled and wrote comprehensive neuropsychological and psychological reports for different audiences, and provided feedback and brief cognitive rehabilitation for patients and their families. Also provided brief cognitive behavioral therapy for individuals diagnosed with depression. 40 hours/week.

8/1997 – 5/1998 Position: Clinical Psychology Trainee; Site: Anxiety Disorders and Women's Health Clinic, Psychological Services Center, University of North Dakota; Clinical Hours: 130; Supervision: 2 - 3 hours/week; Supervisor: Nancy D. Vogeltanz, Ph.D.; Duties: Conducted individual feminist cognitive-behavioral therapy for body image disturbance and social skills/assertiveness training. Received didactic training in the assessment and treatment of anxiety disorders and issues related to women’s health. Primary focus areas were: exposure therapy for PTSD victims, assessment and treatment of substance abuse, obesity, and pre-menstrual dysphoric disorder. Received individual and group supervision. 2-5 hours/week.

8/1996 – 4/1997 Position: Clinical Psychology Trainee; Place: Psychological Services Center, University of North Dakota; Clinical Hours: 90; Supervision: 2-3 hours/week Supervisor: Rosanne McBride, Ph.D.; Duties: Participated in group supervision team meetings and collaborated on individual case presentations, journal reviews, and case formulations for clients presenting with Axis I and Axis II disorders. 2-3 hours/week.

Post-baccalaureate Clinical Experience:

7/1994 – 3/1996 Position: Neuropsychology Technician; Site: Arthur Benton Neuropsychology Laboratory, Department of Neurology: University of Iowa Hospitals and Clinics (UIHC), Iowa City, IA; Clinical Hours: 3,500+ hours; Supervision: 15-20 hours/week; Supervisors: Daniel Tranel, Ph.D., Steven Anderson, Ph.D., R.Dallas Jones, Ph.D., Joe Barrash, Ph.D., Jane Cerhan, Ph.D., Julie Suhr, Ph.D. Duties: Administered neuropsychological, psychological, and personality assessment instruments and assisted in conducting neuropsychological assessment of brain injured patients using the hypothesis-focused method driven by the referral question. Daily contact with diverse neurologic and psychiatric populations, often testing 2-3 patients per day. Compiled patient histories, conducted patient interviews, administered and scored various psychological and neuropsychological tests. Involvement in Neurology Grand Rounds, and didactic neuropsychological seminars, brief supervised report writing, and the implementation of research protocols for patients involved in the Program Project Grant. 40+ hours/week.

Service

Birmingham VAMC
Rehabilitation Neuropsychology Post-doctoral Fellowship Training Committee (11/2014 – 8/2019)

University Service: UAB
Chair: Psychology Faculty Search Committee
Chair: Associate Chief Psychologist Search Committee
Member: ED Psychologist Search Committee
Member: Child/Adolescent Psychologist Search Committee
UB Dept of Psychiatry Task Force Post-COVID Reopening Committee
UB Dept of Psychiatry Space Committee
Psychology Training Committee (PTC; 2005-8/2019; 10/2020-Present)
Medical Psychology Admissions Committee (Spring, 2006)
UB Graduate Faculty Status (Spring 2006 – present)
UB Psychiatry Website Steering Committee (2006 – 2/2009)
UB Comprehensive Neuroscience Center, Member (2007 – present)

University Service: University of Alabama
Graduate Faculty of the University of Alabama (2005-Present)
Clinical Committee Member (2001-2005)
Advisory Committee to the Chairperson (2003-2005)
Affirmative Action and Minority Recruitment Committee Member (2001-2004)
Faculty Development Committee (2003-2004)
Undergraduate Program and Advising Committee Member (2002-2003)
Chair Search Committee (2003-2004)
Participating Faculty Member, Department of Women Studies (2003-2005)
Interdisciplinary Minor in Cognitive Science Committee (2003-2005)
Community Breakfast Recruitment Committee (2001-2005)
Center for Mental Health and Aging, Associate Member (2003-present)
University Standing Committee (2003-2005)
Campus Master Plan Committee (2003-2005)

Related Community Service
Facilitator, The Daniel Plan, Highlands United Methodist Church (Fall 2018-Present)
Pro Bono Neuropsychological Consultation and Evaluations
Affiliate Member, University of North Dakota Conflict Resolution Center.
  -Membership remains active via email networks (1992-present)
Crisis Intervention for Victims of Disaster, 1997 North Dakota/Minnesota flood, University of North Dakota
# CURRICULUM VITAE

## Pariya Fazeli Wheeler, PhD

### PREPARATION:

Specialty: Cognitive aging

### EDUCATION:

<table>
<thead>
<tr>
<th>Institution</th>
<th>Discipline</th>
<th>Dates Attended</th>
<th>Degree and Year Conferred</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Alabama Lifespan Developmental Psychology</td>
<td>Lifespan Developmental Psychology</td>
<td>05/2010 – 05/2012 at Birmingham (UAB)</td>
<td>Ph.D., 2012</td>
</tr>
</tbody>
</table>

### TRAINING CERTIFICATES:

- **Health Disparities**
  - UAB Minority Health & Health Disparities Research Center Research Training (MHRC) training program; 1 year individualized mentorship program research training certificate program with over 100 hours of face-to-face and online instruction as well as mentorship and collaboration in health disparities research. 10/2018
- **Optimizing the**
  - University of Minnesota Clinical and Translational Science Practice 04/2017 of Institute (CTSI) and the National Research Mentoring Mentoring Network (NRMN); 2-hour online curriculum for professional development of research mentors including five modules.
- **Clinical and**
  - UAB Center for Clinical and Translational Science (CCTS) 06/2015 Translational training program in clinical and translational science; 6-month program with over 50 hours of didactic instruction and interactive experience.
- **tDCS Certification**
  - Transcranial Direct Current Stimulation (tDCS) hands-on 01/2015 certification provided by City College of New York and Neuromodec.
- **Gerontology**
  - Center for Aging Gerontology Education Program, UAB 05/2012

### PROFESSIONAL EXPERIENCE:

Academic Positions
<table>
<thead>
<tr>
<th>Year(s)</th>
<th>Title</th>
<th>Institution or Agency</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>05/2021 – Current</td>
<td>Scientist</td>
<td>UAB McKnight Brain Institute</td>
<td>Birmingham, AL</td>
</tr>
<tr>
<td>10/2020 – Current</td>
<td>Associate Professor</td>
<td>UAB School of Nursing</td>
<td>Birmingham, AL</td>
</tr>
<tr>
<td>06/2016 – Current</td>
<td>Scientist</td>
<td>UAB Comprehensive Center for Healthy Aging</td>
<td>Birmingham, AL</td>
</tr>
<tr>
<td>06/2016 – Current</td>
<td>Scientist</td>
<td>UAB Center for AIDS Research</td>
<td>Birmingham, AL</td>
</tr>
<tr>
<td>06/2016 – Current</td>
<td>Assistant Professor</td>
<td>UAB School of Nursing</td>
<td>Birmingham, AL</td>
</tr>
<tr>
<td>01/2015 – 05/2016</td>
<td>Postdoctoral Fellow</td>
<td>UAB Department of Psychology</td>
<td>Birmingham, AL</td>
</tr>
<tr>
<td>09/2012 – 12/2014</td>
<td>Postdoctoral Fellow</td>
<td>UCSD Department of Psychiatry</td>
<td>San Diego, CA</td>
</tr>
<tr>
<td>08/2008 – 05/2012</td>
<td>Graduate Fellow</td>
<td>UAB Department of Psychology</td>
<td>Birmingham, AL</td>
</tr>
</tbody>
</table>

**HONORS AND AWARDS:**

- 2017 Merit-based Travel Award to Attend HIV & Aging Emory University Conference
- 2017 Merit-based Travel Award to Attend HIV & Aging UAB CFAR Conference
- 2015 Career Enhancement Award
- 2014 Young Investigator Scholarship Conference on Retroviruses and Opportunistic Infections
- 2012 Outstanding Graduate Student in Developmental Psychology Award
- 2010 & 2011 Merit-based Travel Awards
- 2010-2011 UAB Center for Aging Research Scholarship
- 2006-2008 Dean’s List

**NATIONAL/REGIONAL/STATE LEADERSHIP ACTIVITIES:**

- 2018 NIH Grant Reviewer (SBIR panel)
- 2018 International Task Force for Revisions of HIV-Associated Neurocognitive Disorder (HAND) Criteria
- 2018-2021 UC San Diego Sustained Training in HIV and Aging Research (STAHR) Mentor
- NIH Grant Reviewer (2 study sections: P30 panel and HIV/AIDS panel) 2020

**JOURNAL REVIEWS:**

<table>
<thead>
<tr>
<th>Journal</th>
<th>Role</th>
<th>Year(s)</th>
</tr>
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<tbody>
<tr>
<td>The Clinical Neuropsychologist</td>
<td>Editorial Board</td>
<td>2021</td>
</tr>
<tr>
<td>Psychiatry Research</td>
<td>Ad-hoc reviewer</td>
<td>2020</td>
</tr>
<tr>
<td>Contemporary Clinical Trials</td>
<td>Ad-hoc reviewer</td>
<td>2020</td>
</tr>
<tr>
<td>Neuropsychology</td>
<td>Editorial Board</td>
<td>2021</td>
</tr>
<tr>
<td>The Gerontologist</td>
<td>Ad-hoc reviewer</td>
<td>2020</td>
</tr>
<tr>
<td>AIDS Research &amp; Treatment</td>
<td>Ad-hoc reviewer</td>
<td>2019</td>
</tr>
<tr>
<td>Applied Neuropsychology Adult</td>
<td>Ad-hoc reviewer</td>
<td>2019</td>
</tr>
<tr>
<td>Journal of the International Neuropsychological Society</td>
<td>Ad-hoc reviewer</td>
<td>2020</td>
</tr>
<tr>
<td>Journal of the International AIDS Society</td>
<td>Ad-hoc reviewer</td>
<td>2018</td>
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</tbody>
</table>
INTERNATIONAL JOURNAL OF GERIATRIC PSYCHIATRY
Ad-hoc reviewer 2018

PLoS One
Reviewer 2018-2020

JOURNAL OF NURSING PRACTICE APPLICATIONS & REVIEWS OF RESEARCH
Ad-hoc reviewer 2018

THE JOURNAL OF THE INTERNATIONAL ASSOCIATION OF PROVIDERS OF AIDS CARE
Ad-hoc reviewer 2018

EXPERIMENTAL GERONTOLOGY
Ad-hoc reviewer 2018

AIDS CARE
Ad-hoc reviewer 2018

AIDS AND BEHAVIOR
Reviewer 2017-2020

BMC GERIATRICS
Reviewer 2011-2018

JOURNAL OF HEALTH DISPARITIES RESEARCH & PRACTICE
Ad-hoc reviewer 2017

JOURNAL OF ACQUIRED IMMUNE DEFICIENCY SYNDROMES
Reviewer 2016-2017

ARCHIVES OF CLINICAL NEUROPSYCHOLOGY
Reviewer 2012-2020

JOURNAL OF GERONTOLOGY: SOCIAL SCIENCES
Ad-hoc reviewer 2016

TRAFFIC INJURY PREVENTION
Ad-hoc reviewer 2015

ANTIVIRAL THERAPY
Ad-hoc reviewer 2015

THE SPANISH JOURNAL OF PSYCHOLOGY
Ad-hoc reviewer 2015

ALZHEIMER’S & DEMENTIA: TRANSLATIONAL RESEARCH & CLINICAL INTERVENTIONS
Ad-hoc reviewer 2015

GERONTOLOGY & GERIATRIC MEDICINE
Ad-hoc reviewer 2015

ACTA PSYCHIATRICA SCANDINAVICA
Ad-hoc reviewer 2013-2014

JOURNAL OF NEUROViroLOGY
Ad-hoc reviewer 2014

CLINICAL PSYCHOLOGY REVIEWS
Ad-hoc reviewer 2013

JOURNAL OF HIV/AIDS & SOCIAL SERVICES
Ad-hoc reviewer 2012

RESEARCH/GRANTS:

Extramural Grants

NIH 3K23AT010567-03S1; Feasibility of the Mindfulness-Based Stress Reduction Intervention for Black Women Living with HIV. Role: Co-Investigator; Dates: 8/05/2021-07/31/2022. Amount Requested: $126,120 direct; Status: funded

NIH 1 R21 AG076377-01; Testing the Efficacy and Mechanisms of an Adapted Resilience Building Intervention in People Aging with HIV Role: Principal Investigator; Dates: 09/01/2021-08/31/2023; Amount Requested: $275,000 direct; Status: scored July 2021, 22 percentile, 36 impact.

NIH 1R01 AG071588-01: Determining the Mechanisms and Efficacy of a Validated Resilience Building Intervention in Mid-Life Stage Adults; Role: Principal Investigator; Dates: 04/01/2021-03/31/2026; Amount Requested: $1,499,997.00 direct; Status: pending review in October 2020.

NIH 1R01NR019537-01; Disparities in Cognitive Outcomes in Older African Americans Living with HIV Across Four Diverse Clinical Cohorts; Role: Principal Investigator; Dates: 07/01/2020-06/30/2025; Amount Requested: $2,401,821.00 direct; Status: not discussed March 2020.

NIH 1R01NR (Application ID not assigned yet); Promoting Dementia Prevention Knowledge in HIV Using Spaced Retrieval Practice; Role: Multiple Principal Investigator; Dates: 07/01/2020-06/30/2025; Amount Requested: $2,499,995.00 direct; Status: scored March 2020, 40 impact, 28%ile.
NIH 1R01AG063779-01A1; Determining the Mechanisms and Efficacy of a Validated Resilience Building Intervention in Mid-Life Stage Adults; **Role:** Principal Investigator; **Dates:** 04/01/2020-03/31/2023; **Amount Requested:** $1,499,997.00 direct; **Status:** scored October 2019, 43 impact, 41%ile, October 2019.

NIH 3R01NR018391-02S2; Identifying Non-Pharmacological Strategies to Mitigate Mild Cognitive Impairment in the PROSPER-HIV Study. **Role:** Multiple Principle Investigator; **Dates:** 07/01/2019-06/30/2020; **Amount Requested:** $303,476.00 direct; **Status:** funded.

NIH 1R01AG063779-01; Determining the Mechanisms and Efficacy of a Validated Resilience Building Intervention in Mid-Life Stage Adults; **Role:** Principal Investigator; **Dates:** 07/01/2019-06/30/2022; **Amount Requested:** $1,436,818.00 direct; **Status:** scored February 2019, impact 45, 38% percentile, not funded (resubmitted).

NIH 1R21AG059954-01A1; A Multidomain Approach to Preventing Dementia in African Americans: Cognitive Prescriptions; **Role:** Principal Investigator; **Dates:** 04/01/2019-03/31/2021; **Amount Requested:** $275,000 direct; **Status:** funded

NIH 1R21AG059954-01; Feasibility of and Adherence to a Multi-Domain Lifestyle Modification Approach to Preventing Dementia: Cognitive Prescriptions; **Role:** Principal Investigator; **Dates:** 07/01/2018-06/31/2020; **Amount Requested:** $275,000 direct; **Status:** Not-funded (resubmitted).

NIH L30 AG045921; Loan Repayment Program Renewal #2: Successful Aging Across Diverse Populations: Protective Factors and Health Disparities; **Role:** Principal Investigator; **Dates:** 07/01/2018-06/30/2020; **Amount:** $11,867.36 student loan payment; **Status:** funded

NIH L30 AG045921; Loan Repayment Program Renewal #1: Successful Cognitive and Functional Aging with HIV: Mechanisms, Neurorehabilitation, and Implications for Diverse Populations; **Role:** Principal Investigator; **Dates:** 07/01/2016-06/30/2018; **Amount:** $28.860.58 student loan payment; **Status:** funded

NIH L30 AG045921; Initial Loan Repayment Program: Mechanisms of Successful Cognitive and Functional Aging with HIV; **Role:** Principal Investigator; **Dates:** 07/01/2013-06/30/2015; **Amount:** $34,440.88 student loan payment; **Status:** funded

NIH R00 AG048762; A Novel Neurorehabilitation Approach for Cognitive Aging with HIV; **Role:** Principal Investigator; **Dates:** 06/01/2016–5/31/2019; **Amount:** $747,000 total (direct and indirect); **Status:** funded

NIH K99 AG048762; A Novel Neurorehabilitation Approach for Cognitive Aging with HIV; **Role:** Principal Investigator; **Dates:** 09/15/2014–05/31/2016; **Amount:** $226,077 total (direct and indirect); **Status:** funded

**Intramural Grants**

**UAB Resource Centers for Minority Aging Research (RCMAR) Pilot Award; Associations between dementia biomarkers, lifestyle factors, and cognitive functioning in middle-aged African American adults. Role:** Principal Investigator; **Dates:** 07/012019–06/30/2020; **Amount:** 25,000.00 direct; **Status:** Notfunded.

**UAB Center for AIDS Research Pilot Award; Testing and Refining a Resilience Building Intervention to Promote Successful Aging in HIV; Role:** Principal Investigator; **Dates:** 06/01/2018–05/31/2019; **Amount:** $50,000 direct, no indirects; **Status:** funded
UAB School of Nursing Dean’s Scholar Award; A Resilience Building Intervention to Promote Successful Aging; Role: Principal Investigator; Dates: 10/01/2017– 03/31/2019; Amount: $16,798 direct, no indirects; Status: funded

PUBLICATIONS:

Refereed Articles (*denotes trainee):

Submitted/Under Review


In Preparation


Published and In Press


neurocognitive function in older HIV+ adults on suppressive antiretroviral therapy. *Journal of Acquired Immune Deficiency Syndromes, 74*(2):134-141, PMC5233588


Book Chapters:


PRESENTATIONS:

Peer-reviewed posters

**International**


   State/Local


Peer-reviewed oral presentations

International


Regional


State/Local


Invited community presentations


**MEDIA/PRESS RELEASES:**

<table>
<thead>
<tr>
<th>Date</th>
<th>Type of Media</th>
<th>Topic of Interview</th>
</tr>
</thead>
</table>

**2018-present**
- **Association of Nurses in AIDS Care** Member

**2015-present**
- **Society for Personality and Social Psychology** Member

**2012-present**
- **International Neuropsychological Society** Member

**2010-present**
- **Gerontological Society of America** Member

**2009-present**
- **National Academy of Neuropsychology** Member
- **American Geriatric Society** Member
ACADEMIC SERVICE:

University-wide:
2019-present UAB Human Research Advisory Committee (HRAC)
2019-present UAB Research Administration Networking Group (RANG), Co-Chair
2018-present Comprehensive Center for Healthy Aging Steering Committee Member

School of Nursing:
2018-present Project Oversight Review Form (PORF) Coordinator in the ORS
2019-2021 Academic Implementation Group (AIG), PhD Program Group Chair
2021-present Appointment, Promotion, and Tenure Committee

TEACHING RESPONSIBILITIES: (*note this only includes courses taught since joining the SON, not courses taught in the Psychology Department from 2009-2016)

<table>
<thead>
<tr>
<th>Course Number and Name</th>
<th>Academic Term</th>
<th>Role</th>
<th>Course Description</th>
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</thead>
<tbody>
<tr>
<td>NST778QL/03A Data Management</td>
<td>Fall 2018, Fall 2019, Fall 2020, Fall 2021</td>
<td>Instructor</td>
<td>A hands-on exposure to data management with common statistical software packages, including concepts of types of variables, data entry and cleaning, importing and converting datasets, merging datasets, sorting, sub-setting, and producing reports and descriptive statistics.</td>
</tr>
<tr>
<td>NRM798QL Research Immersion</td>
<td>Summer 2018, Summer 2019, Summer 2020</td>
<td>Instructor/Mentor</td>
<td>The purpose of this course is to provide PhD students the opportunity to participate as a member of an established research team and get hands on experience analyzing data and writing up results.</td>
</tr>
<tr>
<td>NUR760 Scientific Dissemination</td>
<td>Summer 2020, Summer 2021</td>
<td>Instructor</td>
<td>The purpose of this course is to provide PhD students with hands-on experience with manuscript preparation, with the end objective of submitting a scholarly product to a journal for publication.</td>
</tr>
<tr>
<td>NUR790 Independent Study</td>
<td>Summer 2020</td>
<td>Instructor/Mentor</td>
<td>The purpose of this course is to provide remediation to a student who failed the qualifying exam in order to prepare the student to retake the exam.</td>
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</table>

ACADEMIC MENTORSHIPS:

<table>
<thead>
<tr>
<th>Name of Mentee</th>
<th>Type of Mentorship</th>
<th>Summary of Outcomes</th>
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</thead>
<tbody>
<tr>
<td>Cheryl Lee</td>
<td>Dissertation Chair</td>
<td>Student began PhD program Fall 2019 and is developing her research topic.</td>
</tr>
<tr>
<td>Bryan Combs</td>
<td>Dissertation committee member</td>
<td>Student has successfully defended dissertation and received PhD. This manuscript is in revision with a peer reviewed journal.</td>
</tr>
<tr>
<td>Kristin Ashley</td>
<td>Research immersion mentor</td>
<td>Student gained hands on experience working with a dataset which resulted in an accepted abstract for presentation at a conference.</td>
</tr>
<tr>
<td>Name</td>
<td>Role and Responsibilities</td>
<td>Statement</td>
</tr>
<tr>
<td>----------------------</td>
<td>-------------------------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------</td>
</tr>
<tr>
<td>William C. Nicholson</td>
<td>Dissertation committee member</td>
<td>Student has successfully defended dissertation and received PhD. He has also prepared a manuscript to be submitted for publication.</td>
</tr>
<tr>
<td>Shameka Cody</td>
<td>Dissertation committee member and mentor on publishing</td>
<td>Student successfully defended dissertation and received PhD in 2017. I have mentored her on several accepted publications, including one of her dissertation papers.</td>
</tr>
<tr>
<td>Jacqueline Vo</td>
<td>Mentor on statistical analysis and publishing</td>
<td>During her time as a doctoral student as well as during her current postdoc, I have mentored this student on analyzing and publishing with the SOAR study data (PI: K Meneses)</td>
</tr>
<tr>
<td>Caitlin N. Pope</td>
<td>Dissertation committee member, mentor on publishing, and current postdoctoral mentor via the UCSD STAHR Program</td>
<td>I have worked with this student since 2015, initially during her doctoral studies in the Psychology Dept. and now during her postdoc. We have published several papers together and have several in preparation.</td>
</tr>
<tr>
<td>Meghana Gaini</td>
<td>Undergraduate Neuroscience Honors Thesis mentor</td>
<td>mentored this student on her neuroscience thesis project in the Psychology Dept., which is currently under review with the journal.</td>
</tr>
</tbody>
</table>