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EDUCATION

2022 – Present	Postdoctoral Training Neurology/ Epidemiology and Population Health	Stanford University, Stanford, CA
2019 – 2022	Doctor of Philosophy, Ph.D. in Pharmaceutical Sciences/Pharmacology	The University of Mississippi, Oxford, MS
2020 – 2022	Certification in Epidemiology and Biostatistics	The University of Mississippi Medical Center, Jackson, MS
2015 – 2019	Bachelor of Arts in Biology and Classics/Latin	The University of Mississippi, Oxford, MS

RESEARCH TRAINING SUMMARY

Current Postdoctoral Training in Neuroepidemiology:

- Apply general and observational epidemiological methods with high-dimensional biological data, and advanced biostatistical methodology.
- Investigate vascular contributions to cognition for neurodegenerative diseases like Alzheimer's Disease and Lewy body disease.
- Focus on comorbid associations of Alzheimer's and cerebrovascular diseases.
- Understanding how genetics and risk factors are associated with outcomes in diverse populations (African Americans, Hispanic, and Native Americans/Indigenous Populations).
- Aim to identify fluid biomarkers through multidimensional biological data and biostatistical techniques.

Doctoral Epidemiology and Biostatistics Training:

- Conducted research as a Smith Scholar at the University of Mississippi Graduate Training Educational Center.
- Investigated the role of systemic inflammation in stroke incidence in the Jackson Heart Study.
- Found evidence for a threshold of systemic inflammation linked to greater stroke incidence among study participants.

Doctoral Preclinical Research Training:

- Led NIH NINDS NRSA F31NS124302-funded research on the impact of neuroendocrine signaling (insulin-like growth factor-1) on ischemic stroke outcomes.
- Demonstrated that astrocytic insulin-like growth factor-1 signaling is essential for protecting neurons from glutamate toxicity using in vitro and in vivo transgenic models.
- Identified a neuroprotective phenotype in astrocytic IGF-1R knockout mice post-stroke.
- Examined insulin-like growth factor-1 signaling in learning and memory through rodent behavioral assay.

PUBLICATIONS

*Indicates corresponding/senior author status

1. Martinez NC, Bharani KL, Hasan S, **Hayes CA***. Microinfarcts are Associated with Cognitive Impairment in Neurofibrillary Tangle Predominant Decedents: Evidence from the NACC Autopsy Cohort. *Alzheimer's Research and Therapy*. doi: <https://doi.org/10.1186/s13195-025-01863-y>
2. **Hayes CA**, Abdullah L, Gill J, Odden MC. Population Intervention Models of Racial Ethnic Disparities in Cognitive Outcomes from Cardiometabolic Risk Factors – HABS-HD. *Alzheimer's Research and Therapy*. doi: <https://doi.org/10.1186/s13195-025-01866-9>

3. **Hayes CA**, Odden MC, Thorpe RJ. Application of modified Poisson regression for risk estimation of major neuropathology outcomes: National Alzheimer's coordinating center. *Journal of Alzheimer's Disease*. 2025;0(0). doi:[10.1177/13872877251375099](https://doi.org/10.1177/13872877251375099)
4. **Hayes, C.A.** and Younes, K. (2025), Targeting the cardiometabolic bottleneck to slow polypathology and cognitive decline. *Alzheimer's Dement.*, 21: e70684. <https://doi.org/10.1002/alz.70684>
5. **Hayes CA**, Jones R, Thorpe RJ Jr. [Racial and ethnic differences in cardiometabolic predictors of white matter hyperintensities burden among males: The HABS-HD study](#). *J Alzheimers Dis*. 2025 Aug 4;:13872877251365128. doi: 10.1177/13872877251365128. [Epub ahead of print] PubMed PMID: 40760862; PubMed Central PMCID: PMC12342656.
6. **Hayes CA**, Vintimilla R, Chaudhuri S, Odden MC. [Sex differences in the association of cardiometabolic risk scores and blood pressure measurements with white matter hyperintensities in diverse older adults-HABS-HD](#). *Front Aging Neurosci*. 2025;17:1607646. doi: 10.3389/fnagi.2025.1607646. eCollection 2025. PubMed PMID: 40831584; PubMed Central PMCID: PMC12358495.
7. **Hayes CA**, Odden MC, Vintimilla R, Thorpe RJ Jr. [Racial ethnic variations in the cardiometabolic determinants and blood pressure of white matter hyperintensities among females-The HABS-HD Study](#). *Alzheimers Dement*. 2025 May;21(5):e70327. doi: 10.1002/alz.70327. PubMed PMID: 40420353; PubMed Central PMCID: PMC12106056.
8. **Hayes CA**, Thorpe RJ Jr, Odden MC. [Age-dependent interactions of APOE isoform 4 and Alzheimer's disease neuropathology: findings from the NACC](#). *Acta Neuropathol Commun*. 2025 May 17;13(1):102. doi: 10.1186/s40478-025-02012-0. PubMed PMID: 40382659; PubMed Central PMCID: PMC12085078.
9. **Hayes CA**, Young CB, Abdelnour C, Reeves A, Odden MC, Nirschl J, Crane PK, Poston KL, Mormino EC, Younes K. [The impact of arteriolosclerosis on cognitive impairment in decedents without severe dementia from the National Alzheimer's Coordinating Center](#). *Alzheimers Dement*. 2025 Mar;21(3):e70059. doi: 10.1002/alz.70059. PubMed PMID: 40110658; PubMed Central PMCID: PMC11923572.
10. **Hayes CA**, Thorpe RJ Jr, Dhamoon M, Heitman E, Norris KC, Beech BM, Bruce M, Walker B, Reneker JC. [Stroke Incidence and High-Sensitivity C-Reactive Protein Among African Americans: The Jackson Heart Study](#). *Ethn Dis*. 2025 Mar;35(1):1-7. doi: 10.18865/EthnDis-2023-78. eCollection 2025 Mar. PubMed PMID: 40124641; PubMed Central PMCID: PMC11928021.
11. **Hayes CA**, Wilson D, De Leon MA, Mustapha MJ, Morales S, Odden MC, Ashpole NM. [Insulin-like growth factor-1 and cognitive health: Exploring cellular, preclinical, and clinical dimensions](#). *Front Neuroendocrinol*. 2025 Jan;76:101161. doi: 10.1016/j.yfrne.2024.101161. Epub 2024 Nov 12. Review. PubMed PMID: 39536910.
12. **Hayes CA**, Jones R. [Empowering Early Career Researchers: The Jackson Heart Study Smith Scholars Program](#). *J Racial Ethn Health Disparities*. 2025 Feb;12(1):1-7. doi: 10.1007/s40615-024-02226-3. Epub 2024 Oct 25. PubMed PMID: 39455520.
13. **Hayes CA**, Headley CA, Nava AR, Vizcarra EA, Garcia KC, Mullen MMS, Morales JF, Venida AC, Follis S. [Revolutionizing Postdoctoral Training Using the Social Ecological Model: Insights and Experiences from the Propel Scholars](#). *GEN Biotechnol*. 2024 Aug;3(4):196-206. doi: 10.1089/genbio.2024.0014. Epub 2024 Aug 16. PubMed PMID: 40709103; PubMed Central PMCID: PMC12288851.
14. **Hayes CA**, Moore JT, Headley CA, Berrios-Negron AL, Lambert WM. [Unlocking the power of virtual networking for early-career researchers](#). *Elife*. 2024 Mar 19;13. doi: 10.7554/eLife.96381. PubMed PMID: 38501601; PubMed Central PMCID: PMC10950328.
15. **Hayes CA**, Berrios-Negron AL, Tamir T, Hardeman KN, Heyward FD. [Academic ethics of mental health: the national black postdocs framework for the addressment of support for undergraduate and graduate trainees](#). *Neuropsychopharmacology*. 2024 Mar;49(4):637-639. doi: 10.1038/s41386-023-01787-x. Epub 2024 Jan 8. PubMed PMID: 38191654; PubMed Central PMCID: PMC10876694.
16. **Hayes CA**, Ashmore BG, Vijayasankar A, Marshall JP, Ashpole NM. [Insulin-Like Growth Factor-1 Differentially Modulates Glutamate-Induced Toxicity and Stress in Cells of the Neurogliovascular Unit](#). *Front Aging Neurosci*. 2021;13:751304. doi: 10.3389/fnagi.2021.751304. eCollection 2021. PubMed PMID: 34887742; PubMed Central PMCID: PMC8650493.

17. **Hayes CA.** [Black Scientists Are Not the Door to Diversity](#). ACS Chem Neurosci. 2021 Jul 7;12(13):2256-2260. doi: 10.1021/acscchemneuro.1c00375. Epub 2021 Jun 11. PubMed PMID: 34115483.
18. **Hayes CA,** Valcarcel-Ares MN, Ashpole NM. [Preclinical and clinical evidence of IGF-1 as a prognostic marker and acute intervention with ischemic stroke](#). J Cereb Blood Flow Metab. 2021 Oct;41(10):2475-2491. doi: 10.1177/0271678X211000894. Epub 2021 Mar 24. PubMed PMID: 33757314; PubMed Central PMCID: PMC8504958.

NON-PEER REVIEWED PREPRINTS

1. **Hayes CA,** Morgan NI, Thomas KC, Pushie MJ, Vijayasankar A, Ashmore BG, Wontor K, De Leon MA, Ashpole NM. [Neuronal and Astrocyte Insulin-like Growth Factor-1 Signaling Differentially Modulates Ischemic Stroke Damage](#). bioRxiv. 2023 Apr 2; . doi: 10.1101/2023.04.02.535245. PubMed PMID: 37034764; PubMed Central PMCID: PMC10081310.
2. **Hayes CA,** Hodges EL, Marshall JP, Logan S, Farley JA, Owens DB, ... & Ashpole, NM (2021). "Adulthood Deficiency of the Insulin-like Growth Factor-1 Receptor in Hippocampal Neurons Impairs Cell Structure and Spatial Learning and Memory in Male and Not Female Mice." *bioRxiv*, 2021-08. Preprint access: <https://www.biorxiv.org/content/10.1101/2021.08.08.455596v1>

MANUSCRIPTS UNDER REVIEW

1. **Hayes CA,** Odden MC, Levendovszky SR, Buchwald DS, Verney S, Shibata DK, Zhang Y, Ali T, Suchy-Dicey A. APOE Associations with Longitudinal Cerebrovascular Disease Neuroimaging Biomarkers and Brain Imaging: The Strong Heart Study. *Neurology Open Communications*. *In Revisions*.
2. Housini M, Contreras JA, **Hayes CA***, Health and Aging Brain Study (HABS-HD) Study Team. Plasma p-tau181 and Neurofilament Light Show Independent Associations with Cognitive Domains in a Racially and Ethnically Diverse Cohort – HABS-HD. *Journal of Alzheimer's Disease*. *In Revisions*.
3. **Hayes CA,** Prasad S, Dharmapuri A, Thorpe Jr RJ, Health and Aging Brain Study (HABS-HD) Study Team. White Matter Hyperintensities Mediate the Association Between Aging and Cognitive Function – HABS-HD. *Neurobiology of Aging*. *Under review*.
4. **Hayes CA,** Dharmapuri A, Odden MC, Thorpe Jr RJ, Health and Aging Brain Study (HABS-HD) Study Team. "Evaluating the Effects of Cardiometabolic Risk Factor Elimination on Cognitive Domain Outcomes and White Matter Hyperintensities in Males – HABS-HD" *Journal of Racial Ethnic Health Disparities*. *Under Review*.
5. **Hayes CA,** Agwu C, Dharmapuri A, Contreras JA, Health and Aging Brain Study (HABS-HD) Study Team. "Distinct Associations of Diastolic and Pulse Pressure with Plasma Tau and Neurodegeneration Biomarkers – HABS-HD." *Journal of Alzheimer's Disease*. *Under Review*.
6. **Hayes CA,** Prasad S, Dharmapuri A, Thorpe Jr RJ, Health and Aging Brain Study (HABS-HD) Study Team. "White Matter Hyperintensities Mediate a Greater Proportion of Age-Related Cognitive Decline in Non-Hispanic White Participants Compared With Non-Hispanic Black and Hispanic Participants: HABS-HD." *Alzheimer's & Dementia: Diagnosis, Assessment & Disease Monitoring*. *Under Review*.
7. **Hayes CA,** Briggs A, Gills J, Health and Aging Brain Study (HABS-HD) Study Team. "Sex Differences in Blood Pressure Hemodynamics and White Matter Hyperintensity Burden Across Racial and Ethnic Groups – HABS-HD." *Alzheimer's & Dementia: Translational Research & Clinical Interventions*. *Under Review*.
8. Chaudhuri S, Contreras JA, Dharmapuri A, **Hayes CA***, Health and Aging Brain Study (HABS-HD) Study Team. "Interleukin-6 is Associated with White Matter Hyperintensities and Cognition Independent of Alzheimer's Disease Plasma Biomarkers – HABS-HD." *Journal of Alzheimer's Disease*. *Under Review*.
9. Najmi Z, Dharmapuri A, Contreras JA, **Hayes CA***, HABS-HD Study Team. "Associations of Plasma p-Tau217 with Cognitive Performance Across Multiple Domains: Evidence from HABS-HD." *Alzheimer's & Dementia*. *Under Review*.
10. Contreras JA, Najmi Z, Dharmapuri A, Winston C, **Hayes CA***, HABS-HD Study Team. "Age-Related Prevalence of Abnormal Plasma p-Tau217 Across Racial Ethnic Groups in the Healthy Aging Brain Study – Health Disparities." *Neurology*. *Under Review*.

IN-PREPARATION MANUSCRIPTS

1. **Hayes CA**, Tracy RP, Longstreth WT Jr, Fohner AE, Bis JC, Patsy BM, Mukamal KJ, Seshadri S, Satizabal C, Djousse L, Cronje T, Lopez O, Odden MC. "Longitudinal Change in Neurodegenerative Biomarkers and Cognitive and MRI Outcomes: The Cardiovascular Health Study." [JAMA Neurology. In final stages of coauthor review for submission.](#)
2. **Hayes CA**, Liu X, Windham BG, Sullivan K, Thorpe RJ Jr, Odden MC, HABS-HD Study Team. "Plasma Biomarkers of Alzheimer's Disease and Neurodegeneration Are Associated With Gait Speed and Mobility Limitation in a Diverse Aging Cohort – HABS-HD." [Alzheimer's & Dementia: Diagnosis, Assessment & Disease Monitoring. In Preparation/Coauthors Reviewing.](#)
3. **Hayes CA**, Najmi Z, Contreras JA, Dharmapuri A, Winston C, HABS-HD Study Team. "Plasma p-tau217 and Cognitive Impairment: Evaluating Biomarker Equity Across Racial Ethnicity in HABS-HD." [Alzheimer's & Dementia: Diagnosis, Assessment & Disease Monitoring \(DADM\). In Preparation/Coauthors Reviewing.](#)
4. Dharmapuri A., Odden MC, Thorpe Jr RJ, **Hayes CA***, HABS-HD Study Team. "Utilizing Population Intervention Models to Estimate the Cardiometabolic Risk Factor Removal on Cognitive Domain Outcomes among Females – HABS-HD" [In Preparation.](#)
5. **Hayes CA**, Dharmapuri A, Agwu C, Ramirez V, Younes K. "Alzheimer's Disease Pathology Mediates the Association between Arteriolosclerosis and Cognition - NACC" [In Preparation.](#)
6. **Hayes CA**, Li Y, Jing B, Graham LA, Odden MC. "Anticholinergic Exposure in VA Community Living Centers: Clinical Patterns and Opportunities for Deprescribing." [Journal of the American Geriatrics Society \(JAGS\). In Preparation.](#)

FUNDING/FELLOWSHIPS (Ongoing)

- **NIH Loan Repayment Program (07/2025 – 06/2027)**
 - Competitive fellowship providing repayment of student loans.
 - "Evaluating the Contributions of Alzheimer's Disease Pathology to White Matter Hyperintensities Using Genetic and Proteomic Approaches."
 - Award Amount: \$100,000 for 2 years, (07/2025 – 06/2027)
- **R01 Diversity Supplement (11/2024 – 10/2027)**
 - "*Deprescribing Cardiovascular Medications among Persons with and without Alzheimer's Disease and Related Dementias in Long-Term Care*" (R01AG062568-02W1)
 - Competitive fellowship providing research and professional development funds for 3 years.
 - Award Amount: \$188,174 for 2 years
- **HABS-HD Health Enhancement Scientific Program (HESP) Fellowship (2024-2026)**
 - "APOE Genotype, Cerebral Small Vessel Disease, and Cognitive Impairment: Investigating Interactions and Disparities in Brain Health Among Diverse Populations" (U19 AG078109)
 - Competitive supplemental fellowship supporting research for 2 years.
 - Award Amount: \$151,000 for 2 years (09/2024 – 08/2026).
- **Burroughs Wellcome Fund Postdoctoral Diversity Enrichment Program (PDEP) (2024-2027)**
 - "The Contribution of Alzheimer's Disease to White Matter Hyperintensities" (1267001)
 - Competitive fellowship providing research and professional development funds for 3 years.
 - Award Amount: \$60,000 for 3 years (09/2024 – 08/2027)
- **Burroughs Wellcome Fund (2024)**
 - National Black Postdocs Association Emergency Support Program Funds.
 - Award Amount: \$50,000 for discretionary funds related to the Emergency Support Program.

FUNDING/FELLOWSHIPS (Under Review/ Pending)

- **NIH NIA K01: Mentored Research Scientist Development Award**
 - "Genetic and Proteomic Pathways Linking Alzheimer's Disease to White Matter Hyperintensities: Causality, Biomarkers, and Polygenic Risk across Ancestries"
 - 5 year career development award, (04/2026 – 03/2031)
- **Bright Focus Foundation: Postdoctoral Research Award**

- Longitudinal Myelin Proteome and ATN Biomarker Changes as Drivers of White Matter Hyperintensities in the Jackson Heart Study
- 2 year career development award, (07/2026 – 06/2028)

FUNDING/FELLOWSHIPS (Completed)

- **Stanford Propel Fellowship (2022-2024)**
 - Competitive 2-year postdoctoral fellowship providing salary, research, and supplemental funds, along with professional development opportunities.
 - Award Amount: \$200,000 for 2 years (12/2022 – 11/2024)
- **Ruth L. Kirschstein National Research Service Award (NRSA) (2022)**
 - Individual Predoctoral Fellowship to Promote Diversity in Health-Related Research (NIH F31NS124302). “Cellular Mechanisms of Insulin-like Growth Factor-1 Neuroprotection with Ischemic Stroke”
 - Award Amount: \$36,115 (04/2022 – 11/2022)
 - *1st Black trainee to receive this award at UM and 3rd trainee in history to receive this award at UM (1985-1987-2022).*
- **Graduate School Counsel Research Grant (University of Mississippi) (2019)**
 - Award Amount: \$1,000 for 1 year (08/2019 – 07/2020)

ADMINISTRATIVE RETRACTED FUNDING OPPORTUNITIES

- **K99/R00 NIH NIA MOSAIC**
 - Transition to Independence Award (1K99AG090696-0)
 - “The Contribution of Alzheimer’s Disease Pathology to White Matter Hyperintensities in Diverse Populations”
 - Original Award Amount: (\$974,381 for 5 years, 12/2024 – 11/2029). Impact Factor: 36
 - Resubmission Award Amount: (\$1,024,740 for 5 years, 07/2025 – 05/2030).

ADDITIONAL RESEARCH EXPERIENCE

2018 - 2019	Research Student Department of Biology The University of Mississippi, University, MS • Organize mycorrhiza database. • Perform meta-analysis of mycorrhiza database analysis. • Maintain and generate new information from publications for mycorrhiza database
2017	International Research Experience for Students (IRES) NSF Funded IRES in Poland • Organizer of first International Conference for Polish Botanical Society at Politechnika Bialostocka • Perform various pharmacognosy and chemistry laboratory techniques. • Analyzed ectomycorrhiza fungi from various plants

PROFESSIONAL DEVELOPMENT PROGRAMS AND HONORS

2025	Biomarkers for Neurodegenerative Diseases. The University of Gothenburg, University College London, and Barcelona Beta Brain Research Center are leading international centers with complementary expertise in fluid and imaging biomarkers.
2024	NIH National Institute of Aging Butler Williams Scholars Program. The Butler-Williams Scholars Program provides unique opportunities for junior faculty, researchers new to the field of aging, and postdoctoral fellows to gain insight about aging research. The program offers a variety of perspectives and includes presentations, seminars, and interactive small group activities and discussions.
2024 - 2025	SEE-Diversity (Scholarships to Enhance and Empower Diversity - SEED). SEED is a privately funded program whose goal is to increase the successful transition to and retention of diverse, early career neuroscientists into academic positions. The program will provide diverse Ph.D. neuroscientists with long-term mentoring and professional

- enrichment, with a particular emphasis on assistance with preparation, submission and revision of career development and research grant applications to NSF and NIH.
- 2024 NIMHD Health Disparities Research Institute Scholar.** NIMHD's Health Disparities Research Institute (HDRI) supports the career development of promising early-career minority health and health disparities research scientists and stimulates research in the disciplines supported by health disparities science. The HDRI features lectures on minority health and health disparities research, small group discussions, mock grant review, and seminars.
- 2024 – Present BRAINS (Fellow/Affiliate).** "Broadening the Representation of Academic Investigators in NeuroScience. BRAINS is an NIH-NINDS-funded national program that seeks to support the success of early-career, post-PhD neuroscientists from URGs, specifically racial and ethnic minorities and persons with disabilities (www.BRAINS.washington.edu).
- 2023 – Present Pathways to Neuroscience at Stanford University.** The program aims to foster belonging, excellence, and leadership in the next generation of neuroscience trainees especially for those who classify as underrepresented minorities. Program provides peer-to-peer mentoring groups, faculty one-on-one mentoring, and a minicourse to enhance knowledge of diversity and inclusion concepts and practices.
- 2022 – 2024 Neuroscience Scholars Program (Fellow).** The Neuroscience Scholars Program (NSP) is a two-year online training program open to underrepresented graduate students and postdoctoral researchers. Professional development and mentoring opportunities are offered throughout the two-year duration of the program.
- 2022 Marine Biological Laboratory Summer Program in Neuroscience, Excellence and Success (SPINES) Program.** The course attracts 20 leading faculty from across the country to teach our 15-20 students in a 3-week intensive immersion experience dedicated to creating and sustaining an outstanding diverse workforce in neuroscience.
- 2022 Neuroscience Scholars Program (Associate).** The Neuroscience Scholars Program (NSP) is a two-year online training program open to underrepresented graduate students and postdoctoral researchers. Professional development and mentoring opportunities are offered throughout the two-year duration of the program.
- 2020-2022 UM Southern Regional Education Board Program (UM SREB).** The University of Mississippi gives 6 fellowships to students enrolled in doctoral programs. The award also requires scholars to attend the Institute on Teaching and Mentoring Conference annually.

RESEARCH POSTER AND ORAL PRESENTATIONS

- 2025 Hayes CA, Abdullah L, Gills J, Odden MC, HABS-HD Study Team.** "Population-Level Impact of Hypertension and Diabetes on Cognitive Domains: Insights from the Health and Aging Brain Study: Health Disparities." **Poster Presentation at the Alzheimer's Association International Conference**
- 2025 Hayes CA, Tracy RP, Longstreth Jr WT, Fohner AE, Bis JC, Patsy BM, Mukamal KJ, Seshadri S, Satizabal C, Djousse L, Cronje T, Lopez O, Odden MC.** "The Association of Change in Circulating Biomarkers of Brain Injury with Cognitive Change and MRI Findings in the Cardiovascular Health Study." **Poster Presentation at the AHA EpiLifestyle Conference**
- 2024 Hayes CA, Tracy RP, Longstreth Jr WT, Fohner AE, Bis JC, Patsy BM, Mukamal KJ, Seshadri S, Satizabal C, Djousse L, Cronje T, Lopez O, Odden MC.** "Longitudinal Changes in Neurodegenerative Biomarkers and Their Associations with Cerebrovascular and Cognitive Outcomes in the Cardiovascular Health Study." **Poster Presentation at the Burroughs Wellcome Fund Conference**
- 2024 Hayes CA, Reeves A, Young CB, Abdelnour C, Poston K, Odden MC, Mormino E, Younes K.** "Examining Vascular Pathologies, CNS Barrier Changes, and their Impact on Harmonized Cognitive Measures." **Poster Presentation at the Gordon Research Conference CNS Barriers**
- 2024 Hayes CA, Reeves A, Young CB, Abdelnour C, Poston K, Odden MC, Mormino E, Younes K.** "Examining Vascular Pathologies, CNS Barrier Changes, and their Impact on Harmonized Cognitive Measures." **Poster Presentation at the Gordon Research Seminar CNS Barriers**
- 2024 Hayes CA, Thorpe Jr. R, Bruce M, Bruce B, Dhamoon M, Heitman E, Norris K, Walker B, Reneker J** "High sensitivity C-Reactive Protein Association with Stroke Incidence: The Jackson Heart Study." **Poster Presentation at the American Heart Association EpiLifestyle Meeting**

- 2023** **Hayes CA**, Reeves A, Young CB, Abdelnour C, Poston K, Odden MC, Mormino E, Younes K. "Exploring the Interplay of Vascular Pathologies, Alzheimer's Disease, and Lewy Body Disease on Neuropsychological Measures." **Poster Presentation at the Society for Neuroscience Diversity Session**
- 2022** **Hayes CA**, Morgan NI, Thomas KC, Pushie MJ, Vijayasankar A, Ashmore BG, Wontor K, De Leon MA, Ashpole NM. "Uncovering IGF-1 Signaling Neuroprotective Mechanisms Responsible for Neuroprotection Following Stroke." **Poster Presentation at the Society for Neuroscience Diversity Session**
- 2022** **Hayes CA**, Morgan NI, Thomas KC, Pushie MJ, Vijayasankar A, Ashmore BG, Wontor K, De Leon MA, Ashpole NM. "Uncovering IGF-1 Signaling Neuroprotective Mechanisms Responsible for Neuroprotection Following Stroke." **Poster Presentation at the Society for Neuroscience General Session**
- 2022** **Hayes CA**, De Leon MA, Morgan NI, Ashmore BG, Vijayasankar A, Ashpole NM. "Uncovering the IGF-1 Signaling Mechanisms Responsible for Neuroprotection Following Stroke." **Oral Presentation for Dissertation Research Prospectus**
- 2021** **Hayes CA**, Ashmore BG, De Leon MA, Morgan NI, Stewart JA, Ashpole NM. "AGE/RAGE Signaling Impacts on Healthspan: Early-life Cognitive Assessments." **Poster Presentation at University of Mississippi Glycore Mid-Year Biology Conference**
- 2021** **Hayes CA**, Ashmore BG, Vijayasankar A, Marshall JP, Ashpole NM. "Neuroendocrine Modulation Alters Cellular Protection in the Neurogliovascular Unit." **Poster Presentation at the Society for Neuroscience**
- 2021** **Hayes CA**, Ashmore BG, De Leon MA, Morgan NI, Stewart JA, Ashpole NM. "AGE/RAGE Signaling Impacts on Healthspan: Early-Life Cognitive Assessments." **Oral Presentation at the University of Mississippi Glycore Biology Conference**
- 2021** **Hayes CA**. "Cannabigerol, Cognition, and Lifespan." **Oral Presentation for Original Research Proposal Qualifying Exam**
- 2021** **Hayes CA**, Ashmore BG, Vijayasankar A, Hodges EL, Marshall JP, Ashpole NM. "Neuroendocrine Modulation Alters Cellular Function in the Neurogliovascular Unit and Learning and Memory In Vivo." ([Received 1st place for virtual poster competition.](#)) **Virtual Poster Presentation for Black in X Conference**
- 2019** **Hayes CA**, Hodges EL, Marshall JP, Ashpole NM. "Reductions in Hippocampal IGF-1 Signaling in Adulthood Negatively Regulates Neuron Structure and Cognition." **Poster Presentation at the Society for Neuroscience**
- 2019** **Hayes CA**, Hodges EL, Marshall JP, Ashpole NM. "Reductions in Hippocampal IGF-1 Signaling in Adulthood Negatively Regulates Neuron Structure and Cognition." **Poster Presentation at the Society for Neuroscience**
- 2018** **Hayes CA**, Ashpole NM. "Reductions in IGF-I Receptor in the Adult Hippocampus Impairs Learning and Memory." **Oral Presentation at the Annual Biomedical Research Conference for Minority Students (ABRCMS)**
- 2018** **Hayes CA**, Ashpole NM. "Aspects of IGF-1 and the Aging Brain." **Oral Presentation at the University of Mississippi for 50 Congressional Delegates**
- 2018** **Hayes CA**, Ashpole NM. "Reductions of the IGF-1 Receptor in the Adult Hippocampus Impairs Learning and Memory." ([Received Award of 2nd Place in Cell and Molecular Biology Division.](#)) **Oral Presentation at the Mississippi Academy of Sciences**
- 2018** **Hayes CA**, Ashpole NM. "Reductions of the IGF-1 Receptor in the Adult Hippocampus Impairs Learning and Memory." ([Received Award of Overall 5th Place out of 208 posters.](#)) **Poster Presentation at the Mississippi Academy of Sciences**

COAUTHORED PRESENTATIONS

- 2022** De Leon MA, **Hayes CA**, Ashmore BG, Morgan NI, Stewart JA, Ashpole NM. "Receptor for Advanced Glycation End Products Signaling Impacts on Healthspan: Early-life Behavioral Assessments." **Poster Presentation at the American Aging Association**
- 2022** Ashmore BG, **Hayes CA**, De Leon MA, Morgan NI, Stewart JA, Ashpole NM. "Receptor for Advanced Glycation End Products Signaling Impacts on Healthspan: Early-life Behavioral Assessments." **Poster Presentation at the University of Mississippi Glycore Conference**

INVITED ORAL PRESENTATIONS (NON-SERVICE)

2025	<u>Invited Speaker (Oral)</u> Vanderbilt University, Chan Zuckerberg Initiative Sponsored, Conference for Interdisciplinary Neuroscience
2025	<u>Invited Speaker (Oral)</u> for the Yale 2025 NextGEN in STEM Conference
2024	" <u>Oral Presentation: Empowering Yourself Through Opportunities and Futuristic Goals</u> " <u>Invited Oral</u> for Stanford SURPAS
2024	Oregon Health Science University Department of Neurology Neuroscience Future <u>Invited Oral Seminar</u> Exploring the Interplay of Vascular Pathologies, Alzheimer's Disease, and Lewy Body Disease on Harmonized Cognitive Measures
2023	"Self-Discovery Through Opportunity" <u>Oral Presentation</u> at UC Davis Graduate Group Integrated Physiology DEI Symposium
2023	Graduate School at the University of Mississippi in the School of Pharmacy <u>Zoom Oral Presentation</u> for UM SOP for HBCU Rust University
2023	"Success Looks like Us." <u>Zoom Oral Presentation</u> for the Mid-Atlantic Neuroscience Diversity Scholars (MiNDS) Program
2022	"Transforming Your Graduate School Career for Success" <u>Panel/Oral Presentation</u> at the NIH Blueprint Enhancing Neuroscience Diversity through Undergraduate Research Education Experiences (BP-ENDURE) 12th Annual Meeting

TEACHING EXPERIENCE

Philosophy: My teaching philosophy is rooted in the belief that students thrive when given autonomy and the opportunity to take academic risks in a supportive, student-centered environment. I aim to create spaces where students can engage actively, make mistakes, and explore creative problem-solving beyond the traditional methods of learning. As a Grant Writing Coach at the Stanford Grant Writing Academy, I serve as the lead organizer and curriculum developer for grantsmanship and professional development for the Stanford REACH postbaccalaureate program. In this role, I have developed active learning modules and templates for key aspects of grant writing and career development, including the NSF-GRFP, diversity supplements, and NIH F applications. I also guide participants in creating career development training plans, crafting effective mentoring teams, writing NIH biosketches, understanding NIH funding types and acronyms, drafting personal statements for doctoral programs, and even learning to write recommendation letters for themselves. These didactics include active learning, template creation, peer-review, and direct hands-on experience with reviewing dozens of applications and mentoring a diverse set of trainees.

2023 -	Stanford Grant Writing Academy Grant Coach	Ongoing
2025	Stanford Grant Writing Academy REACH Postbac Scholars Personal Statement Writing	1.5 hours
2025	Stanford Grant Writing Academy REACH Postbac Scholars Organization Research Skills and AI Integration	1 hour
2025	Stanford Grant Writing Academy REACH Postbac Scholars NSF-GRFP	1 hour
2025	Clinical Neuroscience Immersion Experience (CNI-X) at Stanford University- Introduction to Neurodegenerative Disease	4 hours
2025	Stanford AHEAD Summer Program: Creating a Literature Review	1 hour
2025	Stanford AHEAD Summer Program: Epidemiological Research Study Design	2 hours
2025	Stanford AHEAD Summer Program: Modeling Confounding Studies	2 hours
2025	Stanford AHEAD Summer Program: Drafting a Research Study Abstract	2 hours
2025	Stanford AHEAD Summer Program: Planning for Graduate School	2 hours
2025	Stanford AHEAD Summer Program: Personal Statements and Letters of Recommendation for Graduate School	1 hour
2025	Stanford Postdoc Office: Maximizing AI Powered Research & Writing Workflows for Efficiency and Productivity	1.5 hours
2025	Stanford Propel Program: Understanding NIH Study Section and Mock Review for K Awards	1 hour
2025	University of Mississippi Graduate School Grantsmanship and Professional Development Workshop Seminar Series	40 hours
2025	Stanford Grant Writing Academy REACH Postbac How to Plan Graduate School/ Individualized Pivoting for Career Choices	1.5 hours

2025	Stanford Grant Writing Academy REACH Postbac AI Tools for Scientific Writing and Literature Review	1.5 hours
2025	Stanford Grant Writing Academy REACH Postbac Scholars Diversity Supplements	1.5 hours
2025	Stanford Grant Writing Academy REACH Postbac Scholars Peer Review of NIH Documents	1.5 hours
2025	Stanford Grant Writing Academy REACH Postbac Scholars Training Plan and Letters of Recommendation	1.5 hours
2024	Stanford Grant Writing Academy REACH Postbac Scholars Personal Statement Peer Review	1.5 hours
2024	Stanford Grant Writing Academy REACH Postbac Scholars Personal Statement	1.5 hours
2024	Stanford Grant Writing Academy REACH Postbac Scholars Choosing Graduate School	1.5 hours
2024	Stanford Grant Writing Academy REACH Postbac Scholars CV & Cover Letters	1.5 hours
2024	Stanford Grant Writing Academy REACH Postbac Scholars NSF-GRFP & NIH Specific Aims	1.5 hours
2024	Stanford Grant Writing Academy REACH Postbac Scholars Organization Research Skills	1.5 hours
2024	Stanford Grant Writing Academy REACH Postbac Scholars Introduction to GWA	1.5 hours
2024	Clinical Neuroscience Immersion Experience (CNI-V) at Stanford University- Introduction to Neurodegenerative Disease	1 hour
2024	Clinical Neuroscience Immersion Experience (CNI-V) at Stanford University- Introduction to Neurodegenerative Disease	1 hour
2024	Education Unlimited Stanford (High School Neuroanatomy)	54 hours
2024	Education Unlimited UCLA (Middle School Genetics)	45 hours
2024	Education Unlimited UC Berkley (Middle School Neuroanatomy)	45 hours
2024	Education Unlimited Stanford (High School Neuroanatomy)	54 hours
2024	Education Unlimited UCLA (High School Neuroanatomy)	54 hours
2024	Education Unlimited UC Berkley (High School Neuroanatomy)	54 hours
2024	Stanford Grant Writing Academy REACH Postbac Scholars NSF-GRFP	1.5 hours
2024	Stanford Grant Writing Academy REACH Postbac Scholars Organization Skills for Maximizing Research Productivity	1.5 hours
2024	Stanford Grant Writing Academy REACH Postbac Scholars NSF-GRFP	1.5 hours
2024	Stanford Grant Writing Academy REACH Postbac Scholars Biosketch	1.5 hours
2024	Stanford Grant Writing Academy REACH Postbac Scholars Letter of Recommendations	1.5 hours
2024	Stanford Grant Writing Academy REACH Postbac Scholars Personal Statement Writing	1.5 hours
2023	Stanford Grant Writing Academy REACH Postbac Scholars Funding Mechanisms	1.5 hours
2023	Stanford Grant Writing Academy Career Development Plan	1.5 hours
2023	Clinical Neuroscience Immersion Experience (CNI-V) at Stanford University- Introduction to Neurodegenerative Disease	1 hour
2023	Education Unlimited Stanford (High School Neuroanatomy)	54 hours
2023	Education Unlimited Stanford (Middle School Genetics)	45 hours
2022	Biomolecular Sciences II (Professional Pharmacy Students-P1)	1 hour
2022	Physiology: CNS Cell Types Function (Undergraduate Students)	1 hour
2022	Microbiology: Allied Health Undergraduate Nursing Students	1 hour
2022	Enrolled in Teaching in Pharmacology Course Graduate Elective	1 hour

HONORS, AWARDS, AND NOTABLE FEATURES

2025	Excellence in Teaching Award from the Stanford University Grant Writing Academy
2024/2025	NEUROYES, the University of Rochester Young Neuroscience Investigator Extramural Seminar Series. Visiting speaker as guest of the Del Monte Institute for Neuroscience.
2024	Oregon Health Science University Department of Neurology Neuroscience Future Invited Seminar – Invited lecture series which is designed to spotlight junior scientists and clinician-scientists.

2023	Bright Focus Foundation Alzheimer's Disease Fast Track Program - The Alzheimer's Fast Track workshop is designed for graduate students, postdoctoral fellows, or other early-career scientists focused on Alzheimer's disease research to participate in an immersive learning experience that accelerates their knowledge, expertise, and visibility in this exciting field.
2023	Stanford Office of Postdoctoral Affairs Justice, Equity, Diversity, and Inclusion Champion Award- Recognition of current Stanford University postdoctoral scholars who have served as champions of initiatives, activities, or efforts that advance justice, equity, diversity, and inclusion at Stanford and beyond
2023	The National Diversity in STEM Conference (SACNAS) Postdoc Leadership Institute Acceptance: PLI is a two-part workshop for postdocs looking to develop their leadership skills and ability to bring their whole selves – including their culture – to work as an asset
2023	Indiana University Purdue University Indianapolis Pathways to Professoriate: Future Faculty Forum -a two-day symposium engaging historically underrepresented graduate students, post-doctoral scholars, and faculty in interactive workshops, panels, and candid conversations around successfully transitioning to a faculty role
2023	Advanced Psychometric Methods in Cognitive Aging Research Conference (ΨMCA)- Highly competitive acceptance to conference that promotes the use of state of the art psychometric and related data analytic methods in cognitive aging research.
2023	University of Mississippi Doctoral Graduating Class Marshall
2022 – 2024	Neuroscience Scholars Program Fellow-awarded by SfN, a two-year program that provides scientific and professional development opportunities for neuroscience trainees. 1 of 18 fellows chosen
2022	Admitted into Stanford Postdoctoral Recruitment Initiative in Sciences and Medicine (PRISM)
2021/2022	Recipient of Marine Biological Laboratory Summer Program in Neuroscience, Excellence and Success (SPINES) Program-The course attracts 20 leading faculty from across the country to teach our 15-20 students in a 3-week intensive immersion experience dedicated to creating and sustaining an outstanding diverse workforce in neuroscience.
2021	TPDA, Trainee Professional Development Award, awarded by SFN, Society for Neuroscience, to attend SfN2021 Conference.
2021	The US-Canada Regional Committee of IBRO (International Brain Research Organization) Fellowship
2021	University of Mississippi School of Pharmacy Department of Biomolecular Sciences Marvin Davis Pharmacology Award
2021	Rho Chi, The Academic Honor Society of Pharmacy
2021	Honorable Mention-The National Academy of Sciences Engineering and Medicine Ford Foundation Pre-Doctoral Fellowship (NASEM Ford)
2020	Neuroscience Scholars Program Associate-awarded by SfN, a two-year program that provides scientific and professional development opportunities for neuroscience trainees from underrepresented and diverse backgrounds
2020	Graduate School Counsel Research Grant from the University of Mississippi-competitive award given in the amount of \$1,000
2020	Honorable Mention-National Science Foundation Graduate Research Fellowship Program (NSF-GRFP)
2019	TPDA, Trainee Professional Development Award, awarded by SfN, Society for Neuroscience, to attend SFN2019 Conference.
2019	UM Southern Regional Education Board Program (UM SREB): The University of Mississippi gives 6 fellowships to students enrolled in doctoral programs. Awards include full tuition waiver and supplemental stipend.
2019	Ole Miss Greek Man of the Year: Highest award given to a male member of the University of Mississippi Greek Counsel
2019	Ole Miss Who's Who Selection 2018/2019: 200 hundred students are selected to be the University of Mississippi's Who's Who Award.
2018	Student Travel Award via Annual Biomedical Research Conference for Minority Students (ABRCMS) 2018

2017	Distinguished Research Citation Award at University of Mississippi School of Pharmacy Spring 2017-Given to an undergraduate student who is nominated by faculty for research in School of Pharmacy
2017	University of Mississippi Pulse Leadership Conference A Mildred Classics Scholarship Recipient-Scholarship amount of \$3500, given to a student who excels academically in the Classics Department
2017	Classics Foundation Scholarship- \$2500 Award in support from the McDonnell Foundation Scholarship
2016	Dr. Pepper SEC Study Abroad Scholarship Recipient-Scholarship amount of \$2000 awarded to a student who is studying abroad for at least 4 weeks
2016	Global Engagement Scholarship Recipient-Scholarship amount of \$1000 given to student study abroad for at least 4 weeks, essay-based scholarship
2015	The University of Mississippi Luckyday Scholarship Recipient- Scholarship amount of \$5000 given to undergraduate at the University of Mississippi
2015	Chancellor's Leadership Scholarship Recipient-Scholarship amount of \$1000 given to Freshman who exhibits exceptional leadership qualities in high school
2015	Bledsoe Scholarship Recipient-Scholarship amount of \$1500 given to first time undergraduate students who maintain a 3.0 GPA
2015	Academic Excellence Scholarship Recipient- Scholarship amount of \$1500 given to a student who scores 25 of ACT in high school.

NOTEWORTHY FEATURES/SCIENCE COMMUNICATION OUTREACH LINKS

2023	NIH NINDS Building Up the Nerve Podcast Feature: https://www.buzzsprout.com/558574/13248013
2023	Doctoral Commencement Story: https://journey.olemiss.edu/2023/05/10/first-gen-fearless-of-failure/
2022	NIH F31 Story: First Trainee to Receive Award in 35 Years https://news.olemiss.edu/pharmacology-graduate-student-building-a-legacy-through-research/
2022	Alumni Advice to UM Class of 2022 https://news.olemiss.edu/alumni-offer-advice-to-new-graduates/
2021	Sci Communication with Dr. Sherry Nouraini Podcast/Live Twitter
2021	Science Communication with Adam MA Simpson https://www.youtube.com/watch?v=pfT0XKrImp4
2021	Science Communication with Adam MA Simpson https://www.youtube.com/watch?v=4jQvKMOVnE8&t=1s
2019	University of Mississippi Admissions Department Recruiting Video: https://vimeo.com/375464026
2019	Commencement Highlight: <i>Beating the Odds</i> Cellas Ari'ka Hayes https://news.olemiss.edu/beating-the-odds/
2017	Feature in <i>Mississippi Today</i> Newspaper: <i>Summer Student Spotlight: Into the wild for the cure to cancer</i> https://mississippitoday.org/2017/07/21/summer-student-spotlight-into-the-wild-for-the-cure-to-cancer/

PROFESSIONAL APPOINTMENTS

2024	Education Unlimited Curriculum Developer Update course curriculum for high school Neuroanatomy with laboratory exercises
2023 – Present	Stanford Grant Writing Academy Coach - Leading the REACH Postbac Program - Lecture on trainee fellowships and professional development
2023 – 2025	Education Unlimited Instructor Stanford University - Teach Neuroanatomy to high school students - Teach Genetics to middle school students

2019 – 2021	University of Mississippi Graduate School Ambassador The University of Mississippi, University, MS • Participate and organize recruiting events • Serve as a liaison for students, faculty, and staff
2016 – 2019	UofM Pre-College Programs Counselor The University of Mississippi, University, MS • Participate and organize leadership events; Serve as a liaison for students, faculty, and staff • Counselor for UofM competitions (UMAIT, BrainBrawl, Mathcounts, Science Olympiad, etc.)
2018	Ole Miss Summer College Counselor The University of Mississippi, University, MS • Serve as a counselor to high school students

LEADERSHIP AND ORGANIZATIONS

2024 – 2025	Stanford Black Postdocs Association (SBPA) Financial Chair
2023 – 2024	Stanford Black Postdocs Association (SBPA) Co-President <i>Manage semester of event related to Black PDs scientific and professional development; Leader executive board team</i>
2023 – Present	National Black Postdocs Association Subcommittee Chair of Emergency Support Program (NBPA ESP) Inaugural Support Chair <i>Establish pipeline of emergency support for trainees at the national; Created a mental health manual to be of assistance at all academic levels; Lead NBPA ESP commentary publication</i>
2022	Minority Association of Successful Scientists (MASS) Founder of organization at the University of Mississippi and Inaugural President <i>This organization serves a bridge for graduate students interested in biomedical careers. It provides a unique opportunity to gain service hours along with professional development and networking through invited government, industry, and academic speakers.</i>
2018	Minority Association of Premedical Students (MAPS) Founder of organization at the University of Mississippi and Inaugural Vice President <i>This organization serves an effort to provide professional and social structure and an environment to increase matriculation of minorities into the health-related field of their choice.</i>

SERVICE

300+ Hours		
Year	Event	Hours
2025	Stanford AHEAD Summer Program Coffee Chats	5 hours
2025	Evaluating Applications for Stanford Propel Fellowship	3 hours
2025	Mentoring high school students from CNV Program	2 hours
2024	Mentoring high school students from CNV Program	7 hours
2023	Table Moderator at Society for Neuroscience Resilience and Resubmission NIH NINDS Building Up the Nerve Podcast	1 hour
2023	Postdoctoral Panel Speaker Canary Cancer Research Education Summer Training (CREST) Program	1 hour

2023	Clinical Neuroscience Immersion Experience Plus (CNI-X+) at Stanford University Mentor	6 hours
2023	Stanford Summer Research Program (SSRP) Application Reviewer	3 hours
2021 – 2023	Letters to a PreScientist	5 hours
2023	What is Graduate School	1 hour
2022	Black in Neuro Personal Statement Workshop	5 hours
2022	UM Speaker's Edge Judge	2 hours
2021	University of Massachusetts Amherst STEM Talk	2 hours
2020 – Present	Diversity Equity and Inclusion School of Pharmacy Committee, Graduate Student Representative	12 hours
2021	Guide to College- First Generation College Student Presentation/STEM given to Byhalia High School-Keynote Speaker	2 hours
2021	Guide to College- First Generation College Student Presentation/STEM given to Murrah High School-Keynote Speaker	1 hour
2020	Keynote Student Speaker on "How to Get to Graduate School" for McNair Scholars	1 hour
2018 – 2019	Ole Miss Ambassador	110 hours
2019	Guide to College- First Generation College Student Presentation given to Sigma Beta Club-Keynote Speaker	1 hour
2019	Division of Outreach First Generation High School Student Keynote Speaker	1 hour
2019	UofM MOST Conference Panel Guest Speaker	3 hours
2019	Division of Outreach First Generation High School Student Keynote Speaker	1 hour
2019	Bramlett Elementary STEM Club	10 hours
2016 – 2018	Oxford Highway Pickup	12 hours
2016 – 2018	Competition Corps Events	90 hours
2016 – 2018	Big Event	15 hours
2018	Out of the Darkness Suicide Awareness Walk	2 hours
2018	Minority Association of Premedical Students Health Walk	1 hours
2017	Multiple Sclerosis Bike Race	6 hours
2017	Oxford Boys and Girls Club Fall Festival	3 hours
2017	Oxford Intermediate Mentoring	10 hours
2016	Autism Walk	1 hour
2016	Relay for Life	2 hours
2016	Christ Temple Halloween Carnival	4 hours
2015	Green Grove Recycling	3 hours
2015	Fall Festival at Crenshaw Elementary	5 hours

MENTORSHIP HIGHLIGHTS

Duration of Mentorship	Mentee	Mentorship Affiliation
July 2025 – Present	Zara Najmi	Research Mentee
July 2024 – Present	Samika Prasad	Research Mentee
July 2025 – Present	Chidera Agwu	Research Mentee
July 2025 – Present	Anhiti Dharmapuri	Research Mentee
August 2024 – Present	Cyril Osifo-Doe, BS	Stanford REACH Postbac
September 2024 – Present	Nicko Martinez, BS	Scientific Collaboration
November 2023 – Present	Joyce Milandu, BS	BP-ENDURE Program
		<i>Was admitted to NIH postbac program</i>

November 2023 – January 2024	Shylyn Collier, BS	BP-ENDURE Program <i>Was admitted to several PhD programs</i>
November 2023 – January 2024	Milen Dawit, MD	Black in Neuro Mentoring Program
September 2023 – November 2023	Alby Joseph, BS	Stanford Grant Writing Academy
September 2023 – March 2024	Maelah Robinson-Castillo, BS	Black in Neuro
March 2023 – January 2024	Nailah Cannon	CNI-X+ Stanford Program <i>Was admitted to several colleges</i>
November 2022 – March 2024	Almarely Berrios, MS	Neuroscience Scholars Program <i>Was admitted to Stanford PRISM program</i>
November 2022 – Present	Immanuela Enwesi	BP-ENDURE/MINDS Program
September 2022 – 2023	Emily Rasmussen, BS	NSF GRFP Grant Writing Workshop <i>Was awarded NSF GRFP</i>
August 2022 – 2023	Stephen Weirdu	BIN Personal Statement Workshop
August 2022 – 2023	Nana Dark Oaquis	BIN Personal Statement Workshop
2021 – 2023	Brandon G. Ashmore, BS	Undergraduate Researcher <i>Admitted to UM Pharmacy School</i>
2020 – Present	Voke Tonia Aminoe, PharmD	Graduate Mentor
2018 – 2023	Olivia Burchfield	Lott Leadership Program <i>Admitted to UAB</i>
2022 – Spring 2023	Kamryn Thomas, BS	McNair Scholar Research Program
2020 – 2022	Akshaya Vijayasankar, BA	Undergraduate Researcher <i>Was admitted to UMMC</i>
2022 – 2023	Nyah I. Morgan, BA	Undergraduate Researcher
2022	Destiny Wilson, BS	Undergraduate Researcher <i>Was admitted to medical school</i>
Summer 2021	Caria Carter, BA	MS INBRE Program
2019-2022	Rachel Boone, BA/MS	Graduate Researcher

MEMBERSHIP AND SOCIETIES

- **ISTAART Alzheimer's Association:** 2023 – Present
- **Gerontological Society of America:** 2024 – Present
- **Society for Neuroscience:** 2019 – Present
- **National Black Postdocs Association:** 2022 – Present
- **Stanford Black Postdocs Association:** 2022 – Present
- **American Heart Association:** 2020 - Present
- **American Chemical Society:** 2021 – 2023
- **Rho Chi, the Academic Honor Society of Pharmacy:** 2021 – 2022
- **Interdisciplinary Association for Population Health Science:** 2020 – 2022
- **The National Society of Collegiate Scholars:** 2016 – 2019
- **The Society of Collegiate Leadership and Achievement:** 2016 – 2019
- **Eta Sigma Phi Honor Society:** 2016 – 2019