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Education/Training

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

Summary of Research Training

Current Postdoctoral Training:

As a postdoctoral fellow, I am primarily interested in vascular contributions to cognition and biomarkers related to other neurodegenerative diseases like Alzheimer's Disease and Lewy Body Disease. I am currently receiving training in longitudinal Alzheimer's Research design, in vivo neuroimaging modalities to quantify vascular disease, and epidemiological biostatistical approaches pertaining to my research interests of the intersection between vascular disease and cognitive changes. I have also established collaborations using Bayesian statistical models with differential item functioning (DIF) to investigate whether cis gender was a relevant factor in memory question variance. Moreover, I have collaborations to investigate education as a moderator for the social determinants of health in the Jackson Heart Study.

Doctoral Epidemiology and Biostatistics Training:

As a Smith Scholar at the University of Mississippi Graduate Training Educational Center, my research investigated the contributions that systemic inflammation has on stroke incidence in the Jackson Heart Study. The primary results indicated a threshold level of susceptibility of systemic inflammation to be associated with greater stroke incidence in the Jackson Heart Study participants.

Doctoral Preclinical Research Training:

My doctoral research (NIH NINDS NRSA F31NS124302) focused on understanding how cellular specific neuroendocrine signaling altered ischemic stroke outcomes. Utilizing in vitro pharmacological and in vivo transgenic models, I provided evidence that IGF-1 signaling in astrocytes is essential for neuronal protection against glutamate-induced toxicity and astrocytic IGF-1R knockout mice had a neuroprotective phenotype 3 days post-stroke. I also worked with IGF-1 signaling in learning and memory using rodent behavioral assays, led a longitudinal rodent aging study investigating advanced glycation end product signaling, and an aging study on the effects of early life exposure of Tetrahydrocannabinol (THC) on cognition in late life in rodents.

Publications

1. **Hayes, C. A.**, Valcarcel-Ares, M. N., & Ashpole, N. M. (2021). Preclinical and clinical evidence of IGF-1 as a prognostic marker and acute intervention with ischemic stroke. *Journal of Cerebral Blood Flow & Metabolism*, 41(10), 2475-2491. DOI: [10.1177/0271678X211000894](https://doi.org/10.1177/0271678X211000894)
2. **Hayes, C. A.** (2021). Black scientists are not the door to diversity. *ACS Chemical Neuroscience*, 12(13), 2256-2260. <https://doi.org/10.1021/acscchemneuro.1c00375>
3. **Hayes, C. A.**, Ashmore, B. G., Vijayasankar, A., Marshall, J. P., & Ashpole, N. M. (2021). Insulin-like growth factor-1 differentially modulates glutamate-induced toxicity and stress in cells of the neurogliovascular unit. *Frontiers in Aging Neuroscience*, 13, 751304. <https://doi.org/10.3389/fnagi.2021.751304>
4. **Hayes, C. A.**, Hodges, E. L., Marshall, J. P., Logan, S., Farley, J. A., Owens, D. B., ... & Ashpole, N. M. (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>
5. **Hayes, C. A.**, Morgan, N. I., Thomas, K., Pushie, M. J., Vijayasankar, A., Ashmore, B., ... & Ashpole, N. (2023). Neuronal and Astrocyte Insulin-like Growth Factor-1 Signaling Differentially Modulates Ischemic Stroke Damage. *bioRxiv*, 2023-04. *Preprint access:* <https://www.biorxiv.org/content/10.1101/2023.04.02.535245v1>

Under Review/In-Preparation Manuscripts

1. **Academic Ethics of Mental Health: The National Black Postdocs Framework for the Addressment of Support for Undergraduate and Graduate Trainees:** This commentary highlights how I led the NBPA ESP team to establish the support pipeline.
 - a) **Hayes CA**, Berrios-Negron AL, Tigist T, Hardeman KN, Heyward F
Under review at Neuropsychopharmacology
2. **High sensitivity C-Reactive Protein Association with Stroke Incidence: The Jackson Heart Study:** This project focused on determining if hs-CRP (inflammation) is associated with total stroke incidence in African Americans enrolled in the Jackson Heart Study
 - a) **Hayes CA**, Thorpe R., Bruce M, Bruce B, Dhamoon M, Heitman E, Norris K, Reneker J.
Under review at American Heart Journal
3. **Astrocytic Insulin-like Growth Factor-1 Receptor Deficiency Alters Cognition and Behavioral in a Sex-Dependent Manner:** This project focused on understanding how astrocytic IGF-1 signaling alters learning, memory, anxiety, and behavioral despair.
 - a) **Hayes CA**, Prabhu D, Hodges EL, Marshall JP, Khan S, Ashmore BG, Ashpole NM.
Currently being reviewed by all authors to be submitted to Journal Brain and Behaviour
4. **Insulin-like Growth Factor-1 and Cognition:** This literature review focuses on the clinical, preclinical, cellular, and molecular aspects of IGF-1 and cognition.

- a) **Hayes CA**, Wilson D, Ashpole NM. *Currently in preparation to be submitted to the Journal Cells*
5. **Advanced Glycation End Products Role in Metabolic Aging and Cognition in Early Life:** This project focused on understanding the role of advanced glycation end productions with cognition and side effects of metabolic aging like increased weight gain and muscle function.
- a) De Leon M, **Hayes CA**, Ashmore BG, Morgan NI, Martin A, Stewart JA, Ashpole NM. *Currently in preparation to be submitted to Journal eLife.*
6. **Chronic Early Life Exposure of THC in Male Mice Accelerates Mid-Life Cognitive and Behavioral Deficits:** This project focused on understanding how consistent chronic low doses of THC in male mice altered learning and memory, functional deficits, and aging phenotypes in middle age.
- a) Marshall JP, **Hayes CA**, Blackburn K, Ashpole NM. *Currently in preparation*

Funded External Funding Applications

Stanford Propel Fellowship -competitive 2-year postdoctoral fellowship that provides salary, research, and supplemental funds along with professional development opportunities	2022-2024
Ruth L. Kirschstein National Research Service Award (NRSA) Individual Predoctoral Fellowship to Promote Diversity in Health-Related Research F31 (NIH F31NS124302) *1 st Black trainee to receive this award at UM and 3 rd trainee in history to receive this award at UM (1985-1987-2022)	2022
Graduate School Counsel Research Grant from the University of Mississippi -competitive award given in the amount of \$1,000	2019

Responsible Conduct of Research Certifications, Seminars, and Courses

Stanford Collaborative Institutional Training Initiative (CITI) Program		2022
Society for Neuroscience Responsible Conduct of Research Short Course	3 hours	2022
University of Mississippi School of Pharmacy Responsible Conduct of Research Summer Workshop	15 hours	2021
Research Ethics Course	13 hours	2020
Collaborative Institutional Training Initiative (CITI) Program		2018

Additional Research Experience

Research Student Department of Biology The University of Mississippi, University, MS	2018 - 2019
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- Organize mycorrhiza database.
- Perform meta-analysis of mycorrhiza database analysis.
- Maintain and generate new information from publications for mycorrhiza database

International Research Experience for Students (IRES) 2017

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
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Noteworthy Research and Professional Development Programs

Pathways to Neuroscience 2023 –

- 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.

Neuroscience Scholars Program (Fellow) 2022 –

- 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.

Marine Biological Laboratory Summer Program in Neuroscience, Excellence and Success (SPINES) Program: 2022

- 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.

Neuroscience Scholars Program (Associate Recipient) 2022

- 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.

UM Southern Regional Education Board Program (UM SREB) 2020-2022

- 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.
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Presentations

“Uncovering IGF-1 Signaling Neuroprotective Mechanisms Responsible for 2022

Neuroprotection Following Stroke”	
<ul style="list-style-type: none"> • Diversity Poster Session at the Society for Neuroscience • Hayes CA, Morgan NI, Thomas KC, Pushie MJ, Vijayasankar A, Ashmore BG, Wontor K, De Leon MA, Ashpole NM • Department of Biomolecular Sciences, School of Pharmacy 	
“Uncovering IGF-1 Signaling Neuroprotective Mechanisms Responsible for Neuroprotection Following Stroke”	2022
<ul style="list-style-type: none"> • <u>Poster</u> Session at the Society for Neuroscience • Hayes CA, Morgan NI, Thomas KC, Pushie MJ, Vijayasankar A, Ashmore BG, Wontor K, De Leon MA, Ashpole NM • Department of Biomolecular Sciences, School of Pharmacy 	
Uncovering the IGF-1 Signaling Mechanisms Responsible for Neuroprotection Following Stroke”	2022
<ul style="list-style-type: none"> • <u>Oral</u> Presentation for Dissertation Research Prospectus • Hayes CA, De Leon MA, Morgan NI, Ashmore BG, Vijayansakar A, Ashpole NM • Department of Biomolecular Sciences, School of Pharmacy 	
AGE/RAGE Signaling Impacts on Healthspan: Early-life Cognitive Assessments.”	2021
<ul style="list-style-type: none"> • <u>Poster</u> Presentation at University of Mississippi Glycore Mid-Year Biology Conference • Hayes CA, Ashmore BG, De Leon MA, Morgan NI, Stewart JA, Ashpole NM • Department of Biomolecular Sciences, School of Pharmacy 	
Neuroendocrine Modulation Alters Cellular Protection in the Neurogliovascular Unit”	2021
<ul style="list-style-type: none"> • <u>Poster</u> Presentation at the Society for Neuroscience • Hayes CA, Ashmore BG, Vijayasankar A, Marshall JP, Ashpole NM • Department of Biomolecular Sciences, School of Pharmacy 	
“AGE/RAGE Signaling Impacts on Healthspan: Early-Life Cognitive Assessments”	2021
<ul style="list-style-type: none"> • <u>Oral</u> Presentation at the University of Mississippi Glycore Biology Conference • Hayes CA, Ashmore BG, De Leon MA, Morgan NI, Stewart JA, Ashpole NM • Department of Biomolecular Sciences, School of Pharmacy 	
“Cannabigerol, Cognition, and Lifespan”	2021
<ul style="list-style-type: none"> • <u>Oral</u> Presentation for Original Research Proposal Qualifying Exam • Hayes CA • Department of Biomolecular Sciences, School of Pharmacy 	
“Neuroendocrine Modulation Alters Cellular Function in the Neurogliovascular Unite and Learning and Memory In Vivo	2021
<ul style="list-style-type: none"> • <u>Virtual Poster</u> Presentation for Black in X Conference • Hayes CA, Ashmore BG, Vijayasankar A, Hodges EL, Marshall JP, Ashpole NM • Department of Biomolecular Sciences, School of Pharmacy • <i>Received 1st place for virtual poster competition.</i> 	
“Reductions in Hippocampal IGF-1 Signaling in Adulthood Negatively Regulates Neuron Structure and Cognition”	2019
<ul style="list-style-type: none"> • <u>Diversity Poster</u> Session at the Society for Neuroscience 	

<ul style="list-style-type: none"> • Hayes CA, Hodges EL, Marshall JP, Ashpole NM • Department of Biomolecular Sciences, School of Pharmacy 	
“Reductions in Hippocampal IGF-1 Signaling in Adulthood Negatively Regulates Neuron Structure and Cognition”	2019
<ul style="list-style-type: none"> • <u>Poster</u> Session at the Society for Neuroscience • Hayes CA, Hodges EL, Marshall JP, Ashpole NM • Department of Biomolecular Sciences, School of Pharmacy 	
“Reductions in IGF-I Receptor in the Adult Hippocampus Impairs Learning and Memory”	2018
<ul style="list-style-type: none"> • <u>Oral</u> Presentation at the Annual Biomedical Research Conference for Minority Students (ABRCMS) 2018 • Hayes CA, Ashpole NM • Department of Biomolecular Sciences, School of Pharmacy 	
“Aspects of IGF-1 and the Aging Brain”	2018
<ul style="list-style-type: none"> • <u>Oral</u> Presentation at the University of Mississippi for 50 Congressional Delegates • Hayes CA, Ashpole NM • Department of Biomolecular Sciences, School of Pharmacy 	
<ul style="list-style-type: none"> • “Reductions of the IGF-1 Receptor in the Adult Hippocampus Impairs Learning and Memory” 	2018
<ul style="list-style-type: none"> • <u>Oral</u> Presentation at the Mississippi Academy of Sciences • Hayes CA, Ashpole NM • Department of Biomolecular Sciences, School of Pharmacy • <i>Received Award of 2nd Place in Cell and Molecular Biology Division</i> 	
“Reductions of the IGF-1 Receptor in the Adult Hippocampus Impairs Learning and Memory”	2018
<ul style="list-style-type: none"> • <u>Poster</u> Presentation at the Mississippi Academy of Sciences • Hayes CA, Ashpole NM • Department of Biomolecular Sciences, School of Pharmacy • <i>Received Award of Overall 5th Place (out of 208 posters)</i> 	

Co-Authored Presentations

“Receptor for Advanced Glycation End Products Signaling Impacts on Healthspan: Early-life Behavioral Assessments.	2022
<ul style="list-style-type: none"> • <u>Poster</u> Presentation at the American Aging Association • De Leon MA, Hayes CA, Ashmore BG, Morgan NI, Stewart JA, Ashpole NM • Department of Biomolecular Sciences, School of Pharmacy 	
“Receptor for Advanced Glycation End Products Signaling Impacts on Healthspan: Early-life Behavioral Assessments.	2022
<ul style="list-style-type: none"> • <u>Poster</u> Presentation at the University of Mississippi Glycore Conference • Ashmore BG, Hayes CA, De Leon MA, Morgan NI, Stewart JA, Ashpole NM 	

- Department of Biomolecular Sciences, School of Pharmacy

<p>“Receptor for Advanced Glycation End Products Signaling Impacts on Healthspan: Early-life Behavioral Assessments.</p> <ul style="list-style-type: none"> • <u>Poster</u> Presentation at the American Aging Association • Ashpole NM, De Leon MA, Hayes CA, Ashmore BG, Morgan NI, Stewart JA • Department of Biomolecular Sciences, School of Pharmacy 	2022
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Non-Service Invited Talks/Panels

<p>“Self-Discovery Through Opportunity”</p> <ul style="list-style-type: none"> • Oral Presentation at UC Davis Graduate Group Integrated Physiology DEI Symposium 	2023
<p>“Graduate School at the University of Mississippi in the School of Pharmacy”</p> <ul style="list-style-type: none"> • <u>Zoom Oral</u> Presentation for UM SOP for HBCU Rust University 	2023
<p>“Success Looks like Us.”</p> <ul style="list-style-type: none"> • <u>Zoom Oral</u> Presentation for the Mid-Atlantic Neuroscience Diversity Scholars (MiNDS) Program 	2023
<p>“Transforming Your Graduate School Career for Success”</p> <ul style="list-style-type: none"> • <u>Panel/Oral</u> Presentation at the NIH Blueprint Enhancing Neuroscience Diversity through Undergraduate Research Education Experiences (BP-ENDURE) 12th Annual Meeting 	2022

Teaching Experience

	Hours	Year
<i>Special guest invited lectures</i>		
Clinical Neuroscience Immersion Experience (CNI-V) at Stanford University-Introduction to Neurodegenerative Disease	1 hour	2023
<i>The below lectures are full courses taught by me.</i>		
Education Unlimited Stanford (High School Neuroanatomy)	54 hours	2023
Education Unlimited Stanford (Middle School Genetics)	45 hours	2023
<i>The below lectures are invited single guest lectures in undergraduate and professional courses where I crafted the lecture presentation, active learning exercises, and exam questions.</i>		
Biomolecular Sciences II (Professional Pharmacy Students-P1)	1 hour	2022
Physiology: CNS Cell Types Function	1 hour	2022
Microbiology: Allied Health Nursing Students	1 hour	2022

The below course is a graduate elective that allowed me to guest lecture established courses,

write objectives and exam questions aligned with Bloom's Cognitive Taxonomy, and craft a teaching portfolio.

Enrolled in Teaching in Pharmacology Course

1 hour 2022

Honors, Awards, and Notable Features

- Stanford Postdoctoral Scholar Justice, Equity, Diversity, and Inclusion Award (JEDI) 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 2023
- 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-Present
- Admitted into Stanford Postdoctoral Recruitment Initiative in Sciences and Medicine (PRISM) 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. 2021/2022
- 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) 2021
- 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) 2020
- 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 2019

- stipend.
- 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. 2019
 - Student Travel Award via Annual Biomedical Research Conference for Minority Students (ABRCMS) 2018 2018
 - 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 2017
 - A Mildred Classics Scholarship Recipient-Scholarship amount of \$3500, given to a student who excels academically in the Classics Department
 - Classics Foundation Scholarship- \$2500 Award in support from the McDonnell Foundation Scholarship 2017
 - 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 2016
 - 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. 2015

Noteworthy Features & Science Communication Outreach Links

NIH NINDS Building Up the Nerve Podcast Feature: https://www.buzzsprout.com/558574/13248013	2023
Commencement Story: https://journey.olemiss.edu/2023/05/10/first-gen-fearless-of-failure/	2023
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/	2022
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	2021
University of Mississippi Admissions Department Recruiting Video: https://vimeo.com/375464026	2019
Commencement Highlight: <i>Beating the Odds Cellas Ari'ka Hayes</i> https://news.olemiss.edu/beating-the-odds/	2019
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/	2017

Professional Appointments

Stanford Grant Writing Academy Coach <ul style="list-style-type: none"> Co-leading the REACH/CCOP workshops (community college) 	2023
Education Unlimited Instructor Stanford University <ul style="list-style-type: none"> Teach Neuroanatomy to high school students Teach Genetics to middle school students 	2023
University of Mississippi Graduate School Ambassador The University of Mississippi, University, MS <ul style="list-style-type: none"> Participate and organize recruiting events Serve as a liaison for students, faculty, and staff 	2019 - 2021
UofM Pre-College Programs Counselor The University of Mississippi, University, MS <ul style="list-style-type: none"> Participate and organize leadership events Serve as a liaison for students, faculty, and staff Counselor for UofM competitions (UMAIT, BrainBrawl, Mathcounts, Science Olympiad, etc.) 	2016 - 2019
Ole Miss Summer College Counselor The University of Mississippi, University, MS <ul style="list-style-type: none"> Serve as a counselor to high school students 	2018

Leadership and Organizations

Stanford Black Postdocs Association (SBPA) President <i>Manage semester of event related to Black PDs scientific and professional development; Leader executive board team</i>	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</i>	Present

health manual to be of assistance at all academic levels; Lead NBPA ESP commentary publication

Minority Association of Successful Scientists (MASS) 2022

Founder of organization at the University of Mississippi and Inaugural President
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.

Minority Association of Premedical Students (MAPS) 2018

Founder of organization at the University of Mississippi and Inaugural Vice President
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.

Service

	Total Hours: 300+	Year
Postdoctoral Panel Speaker Canary Cancer Research Education	1 hour	2023
Summer Training (CREST) Program		2023
Clinical Neuroscience Immersion		2023
Experience Plus (CNI-X+) at Stanford University Mentor		2023
Stanford Summer Research Program (SSRP) Application Reviewer		2023
Letters to a PreScientist	5 hours	2021-Present
What is Graduate School	1 hour	2023
Black in Neuro Personal Statement Workshop	5 hours	2022
UM Speaker's Edge Judge	2 hours	2022
University of Massachusetts Amherst STEM Talk	2 hours	2021
Diversity Equity and Inclusion School of Pharmacy Committee, Graduate Student Representative	12 hours	2020-Present
Guide to College- First Generation College Student	2 hours	2021
Presentation/STEM given to Byhalia High School-Keynote Speaker	1 hour	2021
Guide to College- First Generation College Student	1 hour	2021
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	2020
Ole Miss Ambassador	110 hours	2018-2019
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	2019
Oxford Highway Pickup	12 hours	2016-2018
Competition Corps Events	90 hours	2016-2018
Big Event	15 hours	2016-2018
Out of the Darkness Suicide Awareness Walk	2 hours	2018
Minority Association of Premedical Students Health Walk	1 hours	2018
Multiple Sclerosis Bike Race	6 hours	2017
Oxford Boys and Girls Club Fall Festival	3 hours	2017
Oxford Intermediate Mentoring	10 hours	2017
Autism Walk	1 hour	2016
Relay for Life	2 hours	2016
Christ Temple Halloween Carnival	4 hours	2016
Green Grove Recycling	3 hours	2015
Fall Festival at Crenshaw Elementary	5 hours	2015

Mentorship

Mentee	Mentorship Affiliation	Duration of Mentorship
Nailah Cannon	CNI-X+ Stanford Program	March 2023-Present
Almarely Berrios, MS	Neuroscience Scholars Program <i>Was admitted to Stanford PRISM program</i>	November 2022-Present
Immanuela Enwesi	BP-ENDURE/MINDS Program	November 2022- Present
Emily Rasmussen, BS	NSF GRFP Grant Writing Workshop <i>Was awarded NSF GRFP</i>	September 2022-Present
Stephen Weirdu	BIN Personal Statement Workshop	August 2022-Present
Nana Dark Oaquis	BIN Personal Statement Workshop	2022-Present
Brandon G. Ashmore	Undergraduate Researcher <i>Admitted to UM Pharmacy School</i>	2021-Present
Voke Tonia Aminoe, PharmD	Graduate Mentor	2020-Present
Olivia Burchfield	Lott Leadership Program <i>Admitted to UAB</i>	2018-Present
Kamryn Thomas	McNair Scholar Research Program	2022-Spring 2023
Akshaya Vijayasankar, BA	Undergraduate Researcher <i>Was admitted to UMMC</i>	2020-2022
Nyah I. Morgan, BA	Undergraduate Researcher	2022
Destiny Wilson, BS	Undergraduate Researcher <i>Was admitted to medical school</i>	2022
Caria Carter, BA	MS INBRE Program	Summer 2021
Rachel Boone, BA/MS	Graduate Researcher	2019-2022

Memberships and Societies

- **American Chemical Society:** 2021-2023
- **Rho Chi**, the Academic Honor Society of Pharmacy: 2021-2022
- **Interdisciplinary Association for Population Health Science:** 2020-2022
- **American Heart Association:** 2020
- **Society for Neuroscience:** 2019: Present
- **The National Society of Collegiate Scholars:** 2016-:2019
- **The Society of Collegiate Leadership and Achievement:** 2016-2019
- **Eta Sigma Phi Honor Society:** 2016-2019