

Cellas Ari'ka Hayes, PhD

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EDUCATION

2022 – Present	Postdoctoral Training	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:

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. My current training consists of general and observational epidemiological methods, utilizing high dimensional biological data, and advanced biostatistics. My research pursuits include understanding the comorbid associations of Alzheimer's Disease and cerebrovascular disease in diverse populations with the hopes of identifying fluid biomarkers using multidimensional biological data and advanced biostatistics. [I am extremely passionate about increasing and maintaining diversity and inclusion in STEM fields through mentorship, service, and opportunity.](#)

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

- 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
- Hayes, C. A.** (2021). "Black scientists are not the door to diversity." *ACS Chemical Neuroscience*, 12(13), 2256-2260. <https://doi.org/10.1021/acchemneuro.1c00375>
- 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>
- Hayes, C.A.**, Berrios-Negron, A.L., Tamir, T. *et al.* Academic ethics of mental health: the national black postdocs framework for the addressment of support for undergraduate and graduate trainees. *Neuropsychopharmacol.* (2024). <https://doi.org/10.1038/s41386-023-01787-x>

NON-PEER REVIEWED PREPRINTS

1. **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>
2. **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>

MANUSCRIPTS UNDER REVIEW AT PEER REVIEWED JOURNALS

1. **Hayes, C. A.**, Thorpe, R., Bruce, M., Bruce, B., Dharmoon, M., Heitman, E., Norris, K., Walker, B., Reneker, J. "High sensitivity C-Reactive Protein Association with Stroke Incidence: The Jackson Heart Study." *Under review at Ethnicity and Disease*.

IN-PREPARATION MANUSCRIPTS

1. **Hayes, C. A.**, Reeves, A., Young, C., Abdelnour, C., Poston, K., Mormino, E., Odden, MC., Younes, K. "Exploring the Interplay of Vascular Pathologies, Alzheimer's Disease, and Lewy Body Disease on Neuropsychological Measures." *In final stages of preparation for submission to Journal of Cerebral Blood Flow and Metabolism*.
2. **Hayes, C. A.**, Prabhu, D., Hodges, EL., Marshall, JP., Khan, S., Ashmore, BG., Ashpole, NM. "Astrocytic Insulin-like Growth Factor-1 Receptor Deficiency Alters Cognition and Behavioral in a Sex-Dependent Manner." *In final stages of preparation for submission to Journal Brain and Behaviour*.
3. **Hayes, C. A.**, Wilson, D., Ashpole, NM. "Insulin-like Growth Factor-1 and Cognition." *In final stages of preparation for submission to Journal Frontiers in Neuroendocrinology*.
4. De Leon, M., **Hayes, C. A.**, Ashmore, BG., Morgan, NI., Martin, A., Stewart, JA., Ashpole, NM. "Advanced Glycation End Products Role in Metabolic Aging and Cognition in Early Life." *In preparation to be submitted to Journal eLife*.
5. Marshall, JP., **Hayes, C. A.**, Blackburn, K., Ashpole, NM. "Chronic Early Life Exposure of THC in Male Mice Accelerates Mid-Life Cognitive and Behavioral Deficits." *In preparation*.

FUNDING/FELLOWSHIPS

- **Stanford Propel Fellowship (2022- 2024)**: competitive 2-year postdoctoral fellowship that provides salary, research, and supplemental funds along with professional development opportunities.
- **Ruth L. Kirschstein National Research Service Award (NRSA) (2022)** Individual Predoctoral Fellowship to Promote Diversity in Health-Related Research **F31** (NIH F31NS124302)
*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 from the University of Mississippi (2019)**

RESPONSIBLE CONDUCT OF RESEARCH

- 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

- 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

- 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 – Present 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 Recipient)**
- 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

- 2023 Hayes, C. A.,** Reeves, A., Young, C., 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." Department of Epidemiology and Public Health Stanford University **Poster Presentation at the Society for Neuroscience (2023) 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." Department of Biomolecular Sciences, School of Pharmacy. **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." Department of Biomolecular Sciences, School of Pharmacy. **Poster Presentation at the Society for Neuroscience General Session**
- 2022 Hayes CA,** De Leon MA, Morgan NI, Ashmore BG, Vijayansakar A, Ashpole NM. "Uncovering the IGF-1 Signaling Mechanisms Responsible for Neuroprotection Following Stroke." Department of Biomolecular Sciences, School of Pharmacy. **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." Department of Biomolecular Sciences, School of Pharmacy. **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." Department of Biomolecular Sciences, School of Pharmacy. **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." Department of Biomolecular Sciences, School of Pharmacy. **Oral Presentation at the University of Mississippi Glycore Biology Conference**
- 2021 Hayes CA**. "Cannabigerol, Cognition, and Lifespan." Department of Biomolecular Sciences, School of Pharmacy. **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." Department of Biomolecular Sciences, School of Pharmacy. (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." Department of Biomolecular Sciences, School of Pharmacy. **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." Department of Biomolecular Sciences, School of Pharmacy. **Poster Presentation at the Society for Neuroscience (**
- 2018 Hayes CA**, Ashpole NM. "Reductions in IGF-1 Receptor in the Adult Hippocampus Impairs Learning and Memory." Department of Biomolecular Sciences, School of Pharmacy. **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." Department of Biomolecular Sciences, School of Pharmacy. **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." Department of Biomolecular Sciences, School of Pharmacy. ([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." Department of Biomolecular Sciences, School of Pharmacy. ([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." Department of Biomolecular Sciences, School of Pharmacy. **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." Department of Biomolecular Sciences, School of Pharmacy. **Poster Presentation at the University of Mississippi Glycore Conference**

INVITED ORAL PRESENTATIONS (NON-SERVICE)

- 2023** Self-Discovery Through Opportunity"
Oral Presentation at UC Davis Graduate Group Integrated Physiology DEI Symposium
- 2023** Graduate School at the University of Mississippi in the School of Pharmacy"
Zoom Oral Presentation for UM SOP for HBCU Rust University
- 2023** "Success Looks like Us."

- 2022** Zoom Oral Presentation for the Mid-Atlantic Neuroscience Diversity Scholars (MiNDS) Program
 “Transforming Your Graduate School Career for Success”
Panel/Oral Presentation at the NIH Blueprint Enhancing Neuroscience Diversity through Undergraduate Research Education Experiences (BP-ENDURE) 12th Annual Meeting

TEACHING EXPERIENCE

2023	Stanford Grant Writing Academy Grant Coach	Ongoing
2023	Stanford Grant Writing Academy REACH Postbac Scholars Funding Mechanisms	1 hour
2023	Stanford Grant Writing Academy Career Development Plan	1 hour
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

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 – Present	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

- 2021 <https://www.youtube.com/watch?v=pfT0XKrImp4>
Science Communication with Adam MA Simpson
- 2019 <https://www.youtube.com/watch?v=4jQvKMOVnE8&t=1s>
University of Mississippi Admissions Department Recruiting Video:
- 2019 <https://vimeo.com/375464026>
Commencement Highlight: *Beating the Odds* Cellas Ari'ka Hayes
- 2017 <https://news.olemiss.edu/beating-the-odds/>
Feature in *Mississippi Today* Newspaper: *Summer Student Spotlight: Into the wild for the cure to cancer*
<https://mississippitoday.org/2017/07/21/summer-student-spotlight-into-the-wild-for-the-cure-to-cancer/>

PROFESSIONAL APPOINTMENTS

- 2023 – Present** **Stanford Grant Writing Academy Coach**
- Co-leading the REACH/CCOP workshops (community college)
 - Lecture on NIH Fellowship Application Components
- 2023** **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

- Present** **Stanford Black Postdocs Association (SBPA)**
President
Manage semester of event related to Black PDs scientific and professional development; Leader executive board team
- Present** **National Black Postdocs Association Subcommittee Chair of Emergency Support Program (NBPA ESP)**
Inaugural Support Chair
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
- 2022** **Minority Association of Successful Scientists (MASS)**
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.
- 2018** **Minority Association of Premedical Students (MAPS)**
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

		300+ Hours
Year	Event	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

Duration of Mentorship	Mentee	Mentorship Affiliation
November 2023 – Present	Troy Dildine, PhD	Stanford Grant Writing Academy
November 2023 – Present	Joyce Milandu	BP-ENDURE Program
November 2023 – Present	Shylyn Collier	BP-ENDURE Program
November 2023 – Present	Milen Dawit, MD	Black in Neuro Mentoring Program
September 2023 – November 2023	Alby Joseph, BS	Stanford Grant Writing Academy
September 2023 – Present	Maelah Robinson-Castillo, BS	Black in Neuro
March 2023 – Present	Nailah Cannon	CNI-X+ Stanford Program
November 2022 – Present	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

- **National Black Postdocs Association:** 2022 – Present
- **Stanford Black Postdocs Association:** 2022 – Present
- **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