

# Stanford

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## Cellas Ari'ka Hayes

Postdoctoral Scholar, Epidemiology

### Bio

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#### BIO

Cellas is currently a postdoctoral fellow/Propel scholar at Stanford University in the Department of Neurology and Neurological Sciences in a laboratory utilizing longitudinal data analysis and neuroimaging modalities to understand the aging brain, neuropathology, cognition, and Alzheimer's Disease. Postdoctoral experience includes using R, Linux, and Python to perform data preprocessing, multivariate statistical analysis, and applying novel models for longitudinal continuous outcomes. Cellas received his Bachelor's in Biology (2015-2019) and Doctor of Philosophy in Pharmaceutical Sciences with an emphasis in Pharmacology (2019-2022) from the University of Mississippi. As a doctoral candidate, his research focused on using both in vitro and in vivo approaches to further elucidate how neuroendocrine modulation specifically insulin-like growth factor-1 alters learning and memory performance along with ischemic stroke outcomes. Skills gained during doctoral training included in vitro cell culture, pharmacological experimental design of both in vitro and in vivo studies, development of transgenic mouse models, a wide array of rodent behavioral paradigms, stereotaxic surgery, photothrombosis, and numerous ex vivo cellular, molecular, and microscopy techniques.

My primary interests lie at the intersection of aging, neurodegenerative disease, and using longitudinal epidemiological data sets to investigate hypotheses. All around neuroscientist seeking sci-comm, industry, and academic opportunities to strengthen skills to become an independent investigator.

#### STANFORD ADVISORS

- Michelle Odden, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **Academic ethics of mental health: the national black postdocs framework for the addressment of support for undergraduate and graduate trainees.** *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology*  
Hayes, C. A., Berrios-Negron, A. L., Tamir, T., Hardeman, K. N., Heyward, F. D.  
2024
- **Neuronal and Astrocyte Insulin-like Growth Factor-1 Signaling Differentially Modulates Ischemic Stroke Damage.** *bioRxiv : the preprint server for biology*  
Hayes, C. A., Morgan, N. I., Thomas, K. C., Pushie, M. J., Vijayasankar, A., Ashmore, B. G., Wontor, K., De Leon, M. A., Ashpole, N. M.  
2023