

# Bernadette A. Fausto

## *Curriculum Vitae*

bernadette.fausto@jefferson.edu

130 South 9<sup>th</sup> Street, Room 960T

 [0000-0002-8412-1023](https://orcid.org/0000-0002-8412-1023)

Philadelphia, PA 19107

<https://www.bernadettefaustophd.com/>

(215) 503-3859

## EDUCATION / POST-GRADUATE TRAINING

- 2022      **Post-Doctoral Fellowship** in Cognitive Neuroscience of Aging  
Rutgers, The State University of New Jersey–Newark
- 2019      **Ph.D.** in Aging Sciences  
University of South Florida (USF)
- 2013      **M.S.** in Health Psychology  
University of the Sciences in Philadelphia (USP)
- 2011      **B.S.** in Psychology  
University of Maryland, Baltimore County (UMBC)

## PROFESSIONAL EMPLOYMENT

- 2026 – *Present*      **Assistant Professor**, Department of Health Science & Clinical Practice  
**Director** of the B.R.A.I.N. Collaborative  
Thomas Jefferson University, Philadelphia, PA
- 2022 – *Present*      **Associate Director**, Aging & Brain Health Alliance  
Rutgers, The State University of New Jersey–Newark, NJ
- 2022 – 2026      **Research Faculty**, Center for Molecular & Behavioral Neuroscience  
Rutgers, The State University of New Jersey–Newark, NJ
- 2019 – 2022      **Post-Doctoral Scientist**, Center for Molecular & Behavioral Neuroscience  
Rutgers, The State University of New Jersey–Newark, NJ
- 2017      **Human Factors Data Analyst**  
American Automobile Association Foundation for Traffic Safety, Washington, DC
- 2015 – 2019      **Neuropsychological Testing Research Assistant**  
USF Morsani College of Medicine, Tampa, FL
- 2013 – 2015      **Psychometrist / Clinical Evaluator**, Memory Disorders Clinic  
Morton Plant Hospital, BayCare Health System, Clearwater, FL
- 2012 – 2013      **Psychometrist**, Penn Alzheimer's Disease Center  
University of Pennsylvania School of Medicine, Philadelphia, PA

## FELLOWSHIPS & SPECIALIZED TRAINING

|             |                                                                                                                                                                                                                      |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2026 – 2028 | <b>The National Social Life, Health, and Aging Project (NSHAP) Fellowship</b><br>NORC at the University of Chicago                                                                                                   |
| 2024        | <b>Fellowship in Advanced Statistical Methods in Genomics and Neuroimaging</b><br>University of Utah School of Medicine                                                                                              |
| 2020        | <b>Visiting Fellowship in Functional Magnetic Resonance Imaging</b><br>Harvard Medical School / Athinoula A. Martinos Center for Biomedical Imaging                                                                  |
| 2020        | <b>Fellowship at the Institute on Methods and Protocols for Advancement of Clinical Trials in Alzheimer's Disease and Related Dementias (IMPACT-AD)</b><br>Alzheimer's Therapeutic Research Institute, San Diego, CA |

## SUBMITTED / PENDING GRANTS

|                   |                                                                                                                                                                                                                                                                                                                     |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 07/2026 – 06/2031 | <b>New Submission to NIH/NIA (MPIs: Fausto, B. A. and Nudelman, K.)</b><br><i>Genetics and Biomarkers of Alzheimer's Disease Risk in Longitudinally-Studied Older African Americans</i><br>Total Costs: \$2,402,486<br>Effort: 30%                                                                                  |
| 12/2026 – 11/2031 | <b>Resubmission of NIH/NIA R01 AG077575-01 (MPIs: Fausto, B. A. and Gluck, M. A.)</b><br><i>Is High-Quality Sleep Neuroprotective Against Cognitive, Neural, and Neuropathological Consequences of Preclinical Alzheimer's Disease in ABCA7-80 Risk Allele Carriers?</i><br>Total Costs: \$3,732,604<br>Effort: 30% |
| 12/2026 – 11/2031 | <b>Resubmission of NIH R01 (PI: Hu, L.)</b><br>Role: Co-Investigator<br><i>Advancing Causal Analysis in Multilevel and Longitudinal Data for Enhanced Insights into Alzheimer's and Cardiovascular Diseases</i><br>Total Costs: \$4,051,258<br>Effort: 15%                                                          |

## AWARDED GRANTS AND RESEARCH SUPPORT

|                    |                                                                                                                                                                                                                                                                                                             |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 02/2026 – 06//2027 | <b>Chancellor's Seed Grant (PI: Fausto, B. A.)</b><br>Role: Principal Investigator<br><i>Revolutionizing Earlier Alzheimer's Detection: An Age-Agnostic, Non-Invasive Cognitive Mapping and Topological Approach Unaffected by Cultural and Educational Barriers</i><br>Total Costs: \$50,000<br>Effort: 6% |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

07/2024 – 06/2026 **NIH Health Disparities Award 1L60AG089857-01 (PI: Fausto, B.A.)**  
 Role: Principal Investigator  
*Comparison of Body Mass Index and Waist-to-Hip Ratio as Indicators of Cognitive, Neural, and Neuropathological Risk Markers among Older African Americans*  
 Total Costs: \$100,000  
 Effort: 25%

07/2024 – 06/2026 **Rutgers Equity Alliance for Community Health (REACH) Community-Academic Grants Program (PI: Gluck, M.A.)**  
 Role: Co-Principal Investigator  
*Promoting Alzheimer's disease awareness, dementia prevention, and research participation in older urban low-income African Americans*  
 Total Costs: \$196,330  
 Effort: 5%

07/2023 – 06/2028 **NIH/NIA R01 AG053961C (PI: Gluck, M.A.)**  
 Role: Co-Principal Investigator  
*Risk Factors for Future Cognitive Decline and Alzheimer's Disease in Older African Americans*  
 Impact Score: 23  
 Percentile Score: 7  
 Total Costs: \$7,497,564  
 Effort: 35%

09/2022 – 08/2027 **NIH/NIA R01 AG078211-01 NCT05597124 (PI: Gluck, M.A.)**  
 Role: Co-Principal Investigator  
*Determinants of Individual Differences in the Efficacy of Aerobic Exercise to Improve Brain Health and Reduce Alzheimer's Disease Risk in Older African Americans*  
 Impact Score: 22  
 Percentile Score: 6  
 Total Costs: \$4,729,338  
 Effort: 35%

06/2022 – 06/2023 **NIH/NIA R13 AG076059-01 (PI: Gluck, M.A.)**  
 Role: Co-Investigator  
*Risk and Resilience to Alzheimer's Disease in African Americans*  
 Impact Score: 20  
 Percentile Score: 4  
 Total Costs: \$49,991  
 Effort: 5%

07/2020 – 07/2022 **NIH/NIA 3R01 AG053961-03W1 (PI: Gluck, M.A.)**  
 Role: Post-Doctoral Trainee  
*Post-Doctoral Diversity Supplement: Altered Medial Temporal Lobe Network Dynamics During Encoding and Mnemonic Discrimination: A Possible Early Marker for Alzheimer's Disease*  
 Total Costs: \$256,517  
 Effort: 100%

07/2020 – 06/2021 **OMMH: Community Health Disparity Prevention 2021 (PI: Gluck, M.A.)**

Role: Co-Investigator

*Improving Brain Health and Reducing COVID-19 Risk for Home-Bound Older African Americans in Metropolitan Newark Through Online and Telephonic Fitness and Wellness Programming*

Total Costs: \$47,765

Effort: 15%

11/2019 – 06/2020

**New Jersey Department of Health (PI: Gluck, M.A.)**

Role: Post-Doctoral Scientist

*Improving Mental Health and Physical Activity in Older African Americans in Newark: A State-University-Church Partnership*

Total Costs: \$1,000,000

Effort: 100%

10/2014 – 09/2015

**Morton Plant Mease Health Care Foundation (PI: Fausto, B.A.)**

Role: Principal Investigator

*Cognitive Predictors of Driver Competence: A Retrospective Analysis of Neuropsychological Performance and DriveABLE™ Outcomes*

Total Costs: \$10,000

Effort: 100%

## PEER-REVIEWED PUBLICATIONS

(† = Co-first authors; these authors contributed equally to this work)

(\* = undergraduate, post-baccalaureate, graduate, post-doctoral mentees)

### In Preparation

1. Moallemian, S., Raminfard, S., Mhatre-Winters, I., Budak, M., **Fausto, B. A.**, Richardson, J. R., & Gluck, M. A. (*in preparation*). Peripheral TARC (CCL17) levels track widespread microstructural vulnerability in cognitively unimpaired older African Americans. *medRxiv*. <https://doi.org/10.64898/2026.05.12.26353011>
2. †Powell, A., Duberstein, P. R., Gluck, M. A., & **Fausto, B. A.** (*in preparation*). Higher emotional stability as a deterrent for cardiovascular disease and Alzheimer's disease risk.
3. \*Perna, R. J., \*Budak, M., \*Ishaq, M., Arshad, I., \*Voelker, J., \*Dickantone, A., Khana, D., Adewumi, K., \*Paruzel, V., **Fausto, B. A.**, & Gluck, M. A. (*in preparation*). The association between polypharmacy, medication use, and cognition in older African Americans: A cross-sectional analysis.
4. Budak, M., Paruzel, V., Rowe, B., Mojica-Pérez, J., Ishaq, M., Moallemian, S., **Fausto, B. A.**, Ringman, J. M., & Gluck, M. A. (*in preparation*). Medial temporal lobe dynamic network flexibility is reduced among autosomal dominant Alzheimer's disease mutation carriers.

### Under Review

5. \*Budak, M., Sinha, N., Heffernan, K., Panchu-Douglas, A., Mehta, S., \*Gichura, M., \*Mojica-Perez, J., \*Moallemian, S., **Fausto, B. A.**, & Gluck, M. A. (*under review*). Exercise training-induced systolic blood pressure and pulse pressure reductions predict improved medial temporal lobe flexibility among older African Americans.

6. \*White, P., Budak, M., Moallemian, S., **Fausto, B. A.**, Gluck, M. A. (*under review*). Preserved medial temporal lobe flexibility predicts memory generalization only in the context of good sleep quality among older African Americans.
7. †**Fausto, B. A.**, †\*Napoleon, D., †\*Abedullah, S., Ceneus, M., Paruzel, V., Powell, A., Gichura, M., Perna, R., Romain, S., Iqbal, B., Dickantone, A., Chan, H., Budak, M., Elahi, F., Fitzgerald-Bocarsly, P., Malin, S. K., & Gluck, M. A. (*in preparation*). Higher plasma p-tau217 levels in type 2 diabetes mellitus: Sex differences in neuropathological resilience.
8. **Fausto, B. A.**, \*Budak, M., \*Sheikh, M. Z., \*Powell, A., \*Mojica-Pérez, J., \*Paruzel, V., \*Moallemian, S., Saghaifi, A., Nudelman, K., Li, S., Hu, L., & Gluck, M. A. (*under review*). Early detection of Alzheimer's disease: A novel Bayesian machine learning approach to genetic, contextual, and behavioral factors in individuals of African ancestry.
9. \*Grullon, K., **Fausto, B. A.**, Azimipour, S., Cohen, E. G., Duberstein, P. R., & Gluck, M. A. (*under review*). Barriers to participation and retention in cardio-dance fitness classes for older African Americans.

### **In Press / Published**

10. Chapman, S., Hill Jarrett, T. G., Cosentino, S., Kann, M., Machado Castilhos, R., Esiaka, D., Dubbelman, M., ..., **Fausto, B. A.** (2026). A world view: Considerations of sociocultural diversity in the study of subjective cognitive decline in Alzheimer's disease and related dementias. *Alzheimer's & Dementia*, 22, e71779. doi: 10.1002/alz.71779
11. Budak, M., Heffernan, K. S., Ishaq, M., Paruzel, V., Abdalla, D., Moallemian, S., **Fausto, B. A.**, Elahi, F., Gluck, M. A. (2026). ABCA7-80 moderates vascular stiffness–p-tau217 association in older African Americans. *Alzheimer's & Dementia: Translational Research & Clinical Interventions*.
12. Zhang, K., Li, Y., Zou, J., Wang, S., **Fausto, B. A.**, & Hu, L. (2026). Multi-level variable selection using a BART-enhanced mixed-effects framework. *Statistics in Medicine*. doi: 10.1002/sim.70593
13. \*Budak, M., Heffernan, K. S., \*Paruzel, V., \*Moallemian, S., **Fausto, B. A.**, Ashton, N., Zetterberg, H., Elahi, F. M., & Gluck, M. A. (2026). Vascular stiffness predicts plasma markers of neurodegeneration among older African Americans. *The Journal of Prevention of Alzheimer's Disease*, 13(4). doi: 10.1016/j.tjpad.2026.100523
14. †**Fausto, B. A.**, †Akbulut, E., †\*Sheikh, M. Z., \*Grass, D., Hercules-Tawe, F., Ghaly, S., Codrington, A., Gamil, A., Arshad, I., \*Napoleon, D., Perna, R., Paruzel, V., Gluck, M. A. & Fitzgerald-Bocarsly, P. (2026). Lower CD8+ T-cell senescence partially mediates the neuroprotection of higher aerobic fitness. *Alzheimer's & Dementia: Translational Research & Clinical Interventions*. doi: 10.1002/trc2.70202
15. Budak, M., **Fausto, B. A.**, Paruzel, V., White, P., Ishaq, M., Moallemian, S., Nudelman, K., Gluck, M. A., (2026). ABCA7 rs115550680 risk allele carriers have lower medial temporal lobe dynamic network flexibility than APOE-ε4 allele carriers among older African Americans. *Neurobiology of Aging*. 161(64-72). doi: 10.1016/j.neurobiolaging.2026.01.008
16. \*Moallemian, S., Saghaifi, A., \*Deshpande, R., \*Mojica-Pérez, J., \*Budak, M., **Fausto, B. A.**, Elahi, F. M., Gluck, M. A. (2026). Machine learning for missing data imputation in Alzheimer's research: Predicting medial temporal lobe flexibility. *Cognitive Neurodynamics*. doi: 10.1007/s11571-026-10422-6
17. †**Fausto, B. A.**, †\*Paruzel, V., Yu, K., \*Grass, D., Gills, J. L., & Duberstein, P. R. (2026). Neighborhood environment and late-life cognition: Exploring the mediating effect of sleep and differential pathways by race.

18. \*Budak, M., **Fausto, B. A.**, \*Perna, R., \*Osiecka, Z., Ashton, N., Blennow, K., Zetterberg, H., Fitzgerald-Bocarsly, P., & Gluck, M. A. (2024). Elevated plasma p-tau231 is associated with reduced generalization and medial temporal lobe dynamic network flexibility among healthy older African Americans. *Alzheimer's Research & Therapy*. doi: 10.1186/s13195-024-01619-0
19. \*Budak, M., \*Moallemian, S., \*Paruzel, V., **Fausto, B. A.**, & Gluck, M. (2024). Alterations in generalization ability and neuroimaging markers with respect to aging and Alzheimer's disease: A comprehensive meta-analysis dataset [Data set]. Zenodo. doi: 10.5281/zenodo.13874136
20. \*Abedullah, S. M., **Fausto, B. A.**, \*Osiecka, Z., & Gluck, M. A. (2024). Higher number of children is associated with increased risk of generalization deficits in older African American women. *Journal of Gerontology: Psychological Sciences*. doi: 10.1093/geronb/gbae110
21. Gills, J. L., \*Napoleon, D. A., \*Budak, M., \*Osiecka, Z., **Fausto, B. A.**, Malin, S. K., & Gluck, M. A. (2024). Hypertension is associated with reduced medial temporal lobe dynamic neural flexibility in older African Americans. *Physiological Reports*. doi: 10.14814/phy2.16084
22. Gluck, M. A., Gills, J. L., **Fausto, B. A.**, Malin, S. K., Duberstein, P. R., Erickson, K., & Hu, L. (2023). Examining the efficacy of a cardio-dance intervention on brain health and the moderating role of ABCA7 in older African Americans: A protocol for a randomized controlled trial. *Frontiers in Aging Neuroscience*, 15. doi: 10.3389/fnagi.2023.1266423
23. †**Fausto, B. A.**, †\*Osiecka, Z., Sinha, N., Gills, J. G., & Gluck, M. A. (2023). Obesity reduces hippocampal structure and function in older African Americans with the APOE-ε4 Alzheimer's disease risk allele. *Frontiers in Aging Neuroscience*, 14. doi: 10.3389/fnagi.2023.1239727
24. †**Fausto, B. A.**, †Sinha, N., Mander, B., & Gluck, M. A. (2023). High-quality sleep mitigates ABCA7-related generalization deficits in healthy older African Americans. *Journal of Alzheimer's Disease*, 94(1), 281-290. doi: 10.3233/JAD-230043
25. Esiaka, D., \*Yarborough, C. C., **Fausto, B. A.**, & Gluck, M. A. (2022). A mini-review of strategies for recruiting older African Americans to Alzheimer's disease research. *Community Health Equity Research & Policy*. doi: 10.1177/0272684X22111849
26. **Fausto, B. A.** & Gluck, M. A. (2022). Low body mass and high-quality sleep maximize the ability of aerobic fitness to promote improved cognitive function in older African Americans. *Ethnicity & Health*. doi: 10.1080/13557858.2020.1821176
27. Clouston, S. A. P., Hall, C. B., Kritikos, M., Bennett, D. A., Edwards, J. D., Finch, C., Kreisl, W., Mielke, M., Peskind, E., Raskind, M., Richards, M., Sloan, R., Spiro, A., Vasdev, N., Brackbill, R., Farfel, M., Horton, M., Lowe, S., Lucchini, R., Prezant, D., Reibman, J., Rosen, R., Seil, K., Zeig-Owens, R., Deri, Y., Diminich, E., **Fausto, B. A.**, Gandy, S., Sano, M., Bromet, E., & Luft, B. J. (2022). Neurocognitive impairment and World Trade Centre-related exposures: Research gaps and suggested next steps when monitoring the cognition of 9/11/2001 survivors and responders. *Nature Reviews Neurology*. doi: 10.1038/s41582-021-00576-8
28. **Fausto, B. A.**, Azimipour, S., Charles, L., Yarborough, C., \*Grullon, K., Hokett, E., Duberstein, P. R., & Gluck, M. A. (2022). Cardio-dance exercise to improve cognition and mood in older African Americans: A propensity-matched cohort study. *Journal of Applied Gerontology*. doi: 10.1177/07334648211010580
29. Ball, K. K., Clay, O. J., Edwards, J. D., **Fausto, B. A.**, Wheeler, K. M., Felix, C., & Ross, L. A. (2021).

Indicators of crash risk in older adults: A longitudinal analysis from the ACTIVE study. *Journal of Aging and Health*. doi: 10.1177/08982643211031346

30. **Fausto, B. A.**, Adorno Maldonado, P. F., Ross, L. A., Lavallière, M., & Edwards, J. D. (2021). A systematic review and meta-analysis of older driver interventions. *Accident Analysis & Prevention*, 149. doi:10.1016/j.aap.2020.105852
31. O'Brien, J. L., Lister, J. J., **Fausto, B. A.**, Morgan, D., Maeda, H., Andel, R., & Edwards, J. D. (2020). Are auditory processing and cognitive performance assessments overlapping or distinct? Parsing the auditory behavior of older adults. *International Journal of Audiology*. doi:10.1080/14992027.2020.1791366
32. **Fausto, B. A.**, & Tefft, B. C. (2018). Newer model years are associated with reduced risk of motor vehicle crash fatalities among older drivers. *Transportation Research Record: Journal of the Transportation Research Board*. doi: 10.1177/0361198118798240
33. **Fausto, B. A.**, Badana, A. N. S., Arnold, M. L., Lister, J. J., & Edwards, J. D. (2018). Comparison of older adults' subjective and objective measures of hearing and cognition among older adults with and without mild cognitive impairment. *Journal of Speech, Language, and Hearing Research*, 61(4), 945-956. doi: 10.1044/2017\_JSLHR-H-17-0263
34. Edwards, J. D., **Fausto, B. A.**, Tetlow, A. M., Corona, R. T., & Valdés, E. G. (2018). Systematic review and meta-analyses of useful field of view cognitive training. *Neuroscience and Biobehavioral Reviews*, 84, 72-91. doi: 10.1016/j.neubiorev.2017.11.004
35. **Fausto, B. A.**, Badana, A. N. S., Valdés, O., Athilingam, P., & Edwards, J. D. (2017). Examination of heart failure as a predictor of driving cessation. *Journal of Transport and Health*, 7(Part B), 202-208. doi: 10.1016/j.jth.2017.10.003
36. O'Brien, J. L., Lister, J. J., **Fausto, B. A.**, Clifton, G. K., & Edwards, J. D. (2017). Cognitive training enhances auditory attention efficiency in older adults. *Frontiers in Aging Neuroscience*, 9. doi: 10.3389/fnagi.2017.00322
37. **Fausto, B. A.**, McIntosh, B. W., Bonner, C. K., & McBride, A. M. (2016). Neuropsychological tests and measurement of comorbidity in predicting driving competence among memory clinic patients. *Psychology Research*, 4(10). doi: 10.17265/2159-5542/2016.10.001

## SCHOLARLY PRESENTATIONS & PUBLISHED ABSTRACTS

(\* = undergraduate, post-baccalaureate, graduate, postdoctoral mentees)

1. **Fausto, B. A.** (2026). The power of sleep: Unlocking better brain health. Oral communication presented at the Forum on Parkinson's Disease, Louisiana State University, Shreveport, LA. Link: [https://www.youtube.com/watch?v=J6J\\_04Qtmak](https://www.youtube.com/watch?v=J6J_04Qtmak)
2. Paruzel, V., **Fausto, B. A.**, Mojica Perez, J., Haider, T., & Gluck, M. A. (2026). Beyond memory and executive function: Generalization as a distinct cognitive construct. Poster presented at the 2026 2026 Alzheimer's Association International Conference, London, UK.
3. **Fausto, B.A.** (2026). Protecting brain health in older adulthood: The interplay of genetics, environment, lifestyle, and cognition. Lightning talk presented at the 2026 Institute on Methods and Protocols for Advancement of Clinical Trials in Alzheimer's Disease (IMPACT-AD) Alumni-Scholars Scientific Meeting, Chicago, IL.

4. \*Romain, S., \*Gichura, M., \*Adewumi, K., Ogunniyi, A., Gluck, M. A., & **Fausto, B. A.** (2026) The effects of high-quality sleep on ABCA7-80 risk related generalization deficits in older African Americans and Yoruba Nigerians. Poster presented at the *2026 Alzheimer's Association International Conference*, London, UK.
5. \*Gichura, M., Romain, S., \*Adewumi, K., Ogunniyi, A., Gluck, M. A., & **Fausto, B. A.** (2026). ABCA7-50 risk cross-comparison regarding aerobic fitness between healthy older African and African American cohorts Poster presented at the *2026 Alzheimer's Association International Conference*, London, UK.
6. \*Adewumi, K., \*Gichura, M., Romain, S., Ogunniyi, A., Gluck, M. A., & **Fausto, B. A.** (2026). Comparative characteristics between older African Americans in the Greater Newark, NJ area and Yoruba Nigerians in Ibadan, Nigeria. Poster presented at the *2026 Alzheimer's Association International Conference*, London, UK.
7. **Fausto, B. A.** (2026). Rhythms of resilience: A cardio-dance exercise intervention for reducing Alzheimer's risk in older African Americans. Invited talk to be presented at the *Rutgers Clinical Trials Day*, Newark, NJ.
8. **Fausto, B. A.**, Napoleon, D., Abedullah, S., Ceneus, M., Paruzel, V., Powell, A., Gichura, M., Perna, R., Romain, S., Iqbal, B., Dickantone, A., Budak, M., Gluck M. (2025). Higher plasma p-tau217 levels in type 2 diabetes mellitus: Sex differences in neuropathological resilience. Oral communication presented at the *18<sup>th</sup> Edition of the Clinical Trials on Alzheimer's Disease Conference*.
9. **Fausto, B. A.**, Akbulut, E., \*Sheikh, M. Z., Ghaly, S., Codrington, A., Gamil, A., Arshad, I., \*Napoleon, D., \*Perna, R., \*Paruzel, V., Gluck, M. A. & Fitzgerald-Bocarsly, P. (2025). Lower CD8+ t-cell senescence partially mediates the neuroprotection of higher aerobic fitness. Poster presented at the *2025 Alzheimer's Association International Conference*, Toronto, CA.
10. **Fausto, B. A.** (2025). Protecting brain health in older African Americans: The interplay of genetics, lifestyle, and cognition. Invited podium talk at the *2025 Herbert and Jacqueline Krieger Klein Alzheimer's Research Center Brain Health Symposium*, Piscataway, NJ.
11. **Fausto, B. A.** (2025). Protecting brain health in older African Americans: The interplay of genetics, lifestyle, and cognition. Invited podium talk at Essex College on behalf of the *Strengthening Career and Technical Education for the 21st Century Act (Perkins V) Program*, Newark, NJ.
12. \*White, P., \*Budak, M., \*Arnasalam, A., \*Sheikh, M., **Fausto, B. A.**, & Gluck, M. A. (2024). Older African Americans with the ABCA7-80 high-risk genotype have diminished slow oscillation power during non-REM sleep. Poster presented at the *2024 Alzheimer's Association International Conference*, Philadelphia, PA.
13. \*White, P., \*Budak, M., \*Arnasalam, A., \*Sheikh, M., Fitzgerald-Bocarsly, P., \*Hercules-Tawe, F., **Fausto, B. A.**, Ashton, N., Blennow, K., Zetterberg, H., & Gluck, M. A. (2024). Elevated plasma p-tau levels may be linked to reduced sleep spindles among older African Americans. Poster presented at the *2024 Alzheimer's Association International Conference*, Philadelphia, PA.
14. \*Romain, S., \*White, P. G., **Fausto, B. A.**, & Gluck, M. A. (2024). Self-reported sleep health characteristics may capture attention, memory, and global cognitive performance in older African-Americans. *Alzheimer's & Dementia*, 20, e095038.
15. \*Arnasalam, A., \*Sheikh, M. Z., \*Budak, M., \*Piaszczyńska, W. P., \*Oyono, A., \*Mojica Perez, J., Blennow, K., Zetterberg, H., **Fausto, B. A.**, Gluck, M. A. (2024). Direct ABCA7 high-risk allele modulates medial

temporal lobe dynamic network flexibility among cognitively healthy older African Americans. Poster presented at the *2024 Alzheimer's Association International Conference*, Philadelphia, PA.

16. Gluck, M. A., **Fausto, B. A.**, Hammonds, D., Wright, G., & Wilson, Sr., G. B. (2024). There is no quick, easy, or cheap way to recruit older African Americans to aging and brain health research: Ten evidence-based strategies for investing in community engagement. Poster presented at the *2024 Alzheimer's Association International Conference*, Philadelphia, PA.
17. \*Budak, M., **Fausto, B. A.**, \*Piaszczyńska, W. P., \*White, P., & Gluck, M. A. (2024). Among older African Americans, high-risk ABCA7-80 allele carriers have lower medial temporal lobe dynamic network flexibility than APOE ε4 allele carriers. Poster presented at the *2024 Alzheimer's Association International Conference*, Philadelphia, PA.
18. \*Piaszczyńska, W. P., \*Budak, M., **Fausto, B. A.**, \*White, P., \*Perna, R., Fitzgerald-Bocarsly, P., Ashton, N. J., Blennow, K., Zetterberg, H. & Gluck, M. A. (2024). Lower plasma p-tau levels and larger hippocampi may protect African American SuperAgers from age-related cognitive decline and Alzheimer's disease. Poster presented at the *2024 Alzheimer's Association International Conference*, Philadelphia, PA.
19. \*Powell, A., **Fausto, B. A.**, & Gluck, M. A. (2024). Neuroticism and poor cardiovascular health may signal early cognitive dysfunction related to Alzheimer's risk in older African Americans. Poster presented at the *2024 Alzheimer's Association International Conference*, Philadelphia, PA.
20. **Fausto, B. A.**, Budak, M., \*Sheikh, M. Z., \*Mojica Perez, J., Li, S., Hu, L., & Gluck, M. A. (2024). A Bayesian machine learning approach to Nature vs. Nurture: Predicting a cognitive marker of Alzheimer's risk in a deeply-phenotyped cohort of cognitively unimpaired older African Americans. Poster presented at the *2024 Alzheimer's Association International Conference*, Philadelphia, PA.
21. \*Napoleon D. A., **Fausto, B. A.**, \*Piaszczyńska, W., \*Hercules-Tawe, F., Budak, M., Malin, S. K., Fitzgerald-Bocarsly, P., & Gluck, M. A. (2024). Older African Americans with Type 2 Diabetes have lower Entorhinal Cortex function in pre-clinical Alzheimer's Disease. Poster presented at the *2024 Alzheimer's Association International Conference*, Philadelphia, PA.
22. \*Abedullah, S., \*Osiecka, Z., **Fausto, B. A.**, & Gluck, M. A. (2023, November). Higher number of biological children is associated with increased risk of cognitive dysfunction in older African American women. Poster presented at the *2023 Society for Neuroscience*, Washington, D.C.
23. Budak, M., **Fausto, B. A.**, \*Osiecka, Z., \*Sheikh, M., \*Perna, R., Ashton, N., Zetterberg, H., Blennow, K., & Gluck, M. A. (2023, November). Plasma p-tau positivity affects cognitive and network flexibility in the medial temporal lobe among healthy older African Americans. Poster presented at the *2023 Society for Neuroscience*, Washington, D.C.
24. **Fausto, B. A.**, Malin, S. K., Duberstein, P. R., Erickson, K. I., Hu, L., & Gluck, M. A. (2023, October). Determinants of individual differences in the efficacy of aerobic exercise to improve brain health and reduce Alzheimer's disease risk in older African Americans. Poster presented at the Clinical Trials on Alzheimer's Disease conference, Boston, MA.
25. Gills, J. L., **Fausto, B. A.**, Budak, M., \*Osiecka, Z., Malin, S. K., & Gluck, M. A. (2023, July). Hypertension is associated with reduced medial temporal lobe dynamic neural flexibility in older African Americans. Poster presented at the *2023 Alzheimer's Association International Conference*, Amsterdam, Netherlands.

26. \*Napoleon, D., Gills, J. L., **Fausto, B. A.**, & Gluck, M. A. (2023, July). Diabetes is associated with poorer prefrontal cortex-dependent cognitive function in older African Americans with the APOE-e4 Alzheimer's disease risk allele. Poster presented at the *2023 Alzheimer's Association International Conference*, Amsterdam, Netherlands.
27. \*Osiecka, A., Budak, M., \*Sheikh, M., Ashton, N. J., Blennow, K., Zetterberg, H., **Fausto, B. A.**, & Gluck, M. A. (2023, July). Relationship between generalization performance and plasma markers pTau231, pTau181 and NfL in cognitively healthy older African Americans. Poster presented at the *2023 Alzheimer's Association International Conference*, Amsterdam, Netherlands.
28. **Fausto, B. A.**, Mander, B. A., Sinha, N., & Gluck, M. A. (2023, July). High-quality sleep mitigates ABCA7-related generalization deficits in healthy older African Americans. Poster presented at the *2023 Alzheimer's Association International Conference*, Amsterdam, Netherlands.
29. \*Arnasalam, A., Osiecka, Z., **Fausto, B. A.**, & Gluck, M. A. (2023, June). Impact of depressive symptomatology and social network size on executive function in cognitively healthy older African Americans. Poster presented at the *Risk and Resilience to Alzheimer's disease in African Americans National Conference*, Newark, NJ.
30. **Fausto, B. A.** (2023, March). APOE rs429358 and ABCA7 rs115550680 are associated with generalization of prior learning but not episodic memory in older African Americans. Poster presented at *AD/PD™ 2023 International Conference on Alzheimer's and Parkinson's Diseases and Related Neurological Disorders*, Gothenburg, Sweden (virtual).
31. \*Tan, G., \*Osiecka, Z., **Fausto, B. A.**, Esiaka, D., & Gluck, M. A. (2022, November). Social connectivity is associated with increased performance on medial temporal lobe function in older African Americans. Poster presented at the *Gerontological Society of American 2022 Annual Scientific Meeting*, Indianapolis, IN.
32. \*Tan, G., Gimenez-Santana, A., \*Osiecka, Z., Esiaka, D., **Fausto, B. A.**, Gluck, M. A. (2022, November). Association between violent crime incident proximity and cognitive function in older African Americans. Poster presented at the *Gerontological Society of American 2022 Annual Scientific Meeting*, Indianapolis, IN.
33. \*Grass, D., **Fausto, B. A.**, \*Osiecka, Z., Gluck, M. A., & Fitzgerald-Bocarsly, P. (2021, November). Neuroimmunological consequences of COVID-19 in older African Americans and their risk for Alzheimer's disease. Poster presented at the *15<sup>th</sup> International Congress of Neuroimmunology (International Society of Neuroimmunology)*, Nice, France.
34. Yu, K. & **Fausto, B. A.** (2021, November). Loneliness, sleep quality and cognitive function in community-dwelling older adults. Paper abstract presented at the *Gerontological Society of America 2021 Annual Scientific Meeting*, Phoenix, AZ.
35. **Fausto, B. A.**, Yu, K., & Duberstein, P. R. (2021, November). Wake after sleep onset mediates the link between neighborhood social environment and cognition in older adults. Symposium talk presented at the *Gerontological Society of America 2021 Annual Scientific Meeting*, Phoenix, AZ.
36. **Fausto, B. A.** (2021, November). Cardio-dance exercise to improve cognition and mood in older African Americans: A propensity-matched cohort study. Paper presented at the *Gerontological Society of America 2021 Annual Scientific Meeting*, Phoenix, AZ.

37. \*Grass, D., **Fausto, B. A.**, Ashton, N., & Gluck, M. A. (2021, October). Blood-based biomarkers for Alzheimer's disease may be associated with poorer cognitive performance in older African Americans. Poster presented at the *Garden State Louis Stokes Alliance for Minority Participation (GS-LSAMP) 13<sup>th</sup> Annual Research Conference*, Newark, NJ (virtual).
38. **Fausto, B. A.**, \*Osiecka, Z., & Gluck, M. A. (2021, July). APOE-ε4 status moderates the relationship between body mass index and hippocampal structure in older African Americans. Poster presented at the *2021 Alzheimer's Association International Conference*, Denver, CO.
39. **Fausto, B. A.**, & Yu, K. (2021, July). Neighborhood environment and cognition in older adults: Exploring the mediating effect of physical activity. Poster presented at the *Alzheimer's Association International Conference*, Denver, CO.
40. \*Revi, G., **Fausto, B. A.**, \*Osiecka, Z., & Gluck, M. A. (2021, February). Past trauma, current affect, and executive function: Analyzing opportunities for decreasing the development of PTSD in sexual assault survivors. Poster presented at the *12<sup>th</sup> Annual Garden State-Louis Stokes Alliance for Minority Participation Conference*, Newark, NJ (virtual).
41. **Fausto, B. A.**, \*Osiecka, Z., Sinha, N., & Gluck, M. A. (2021, January). Higher body mass index is associated with smaller select hippocampal subfields in older African Americans at increased genetic risk for Alzheimer's disease. Poster presented at the *Society for Neuroscience Global Connectome*, Washington, DC (virtual).
42. **Fausto, B. A.** & Gluck, M. A. (2020, November). Low body mass and high-quality sleep maximize the ability of aerobic fitness to promote improved cognitive function in older African Americans. Symposium talk presented at the *Gerontological Society of America (GSA) 2020 Annual Scientific Meeting*, Philadelphia, PA.
43. **Fausto, B. A.**, Ross, L. A., Maldonado, P. A., Edwards, J. D. (2020, April). A systematic review and meta-analysis of older driver interventions. Plenary session presentation accepted for the *2020 Cognitive Aging Conference*, Atlanta, GA [cancelled due to COVID-19].
44. Edwards, J. D. & **Fausto, B. A.** (2019, October). Cognitive training to prevent cognitive decline and dementia. Guest speaker for Jerri Edwards, PhD for talk presented at the *Cognitive Aging and Impairment in World Trade Center Affected Populations Scientific Workshop*, Alexandria, VA.
45. **Fausto, B. A.** (2019, January). Crash rates and aging around the globe. Invited talk presented at the *Transportation Research Board Annual Meeting: Human Factors Workshop*, Washington, DC.
46. **Fausto, B. A.** (2019, January). Older driver licensing policies: International variation within Europe and the USA. Invited talk presented at the *Transportation Research Board Annual Meeting: Human Factors Workshop*, Washington, DC.
47. **Fausto, B. A.**, Tetlow, A., Corona, R., Valdés, E., & Edwards, J. (2018). Useful field of view cognitive training improves older adults' everyday function. *Innovation in Aging*, 2(suppl\_1), 680-680. doi: 10.1093/geroni/igy023.2532
48. \*Blackstone, S. A., \*Gabay, A. S., \*Palliagath, S., \*Khan, K., **Fausto, B. A.**, Lister, J. J., Edwards, J. D., & O'Brien, J. L. (2018, May). Central auditory processing versus cognition among older adults. Poster presented

at the Cognitive Aging Conference, Atlanta, GA.

49. **Fausto, B. A.** & Tefft, B. A. (2018, January). Newer model years are associated with reduced risk of motor vehicle crash fatalities among older drivers. Paper presented at the *Transportation Research Board Annual Meeting Online*. Retrieved from <https://trid.trb.org/view/1496850>
50. O'Brien, J. L., Lister, J. J., **Fausto, B. A.**, Clifton, G. K., & Edwards, J. D. (2017, November). Cognitive training enhances auditory attention efficiency in older adults. Poster presented at the *7<sup>th</sup> International and Interdisciplinary Aging and Speech Communication Research Conference*, Tampa, FL.
51. **Fausto, B. A.**, Dobbs, D. J., & Lee, H. J. (2017, July). When you limit your driving: Association with cognition and functional abilities in older Americans. Poster presented at the *21<sup>st</sup> International Association of Gerontology and Geriatrics World Congress*, San Francisco, CA.
52. **Fausto, B. A.**, Stark-Inbar, A., Sharpe, C., Tetlow, A. M., & Edwards, J. D. (2017, May). Comparing older adults' beliefs and expectations of cognitive intervention and active control conditions. Poster presented at the *29<sup>th</sup> Association for Psychological Science Convention*, Boston, MA.
53. \*Blackstone, S. A., \*Gabay, A. S., \*Quraishi, H. N., **Fausto, B. A.**, & Edwards, J. D. (2017, April). Impact of brain training on Useful Field of View performance and everyday cognition in Parkinson's disease. Poster presented at the *USF Undergraduate Research and Arts Colloquium*, Tampa, FL.
54. **Fausto, B. A.**, Stark-Inbar, A., Sharpe, C., Tetlow, A. M., & Edwards, J. D. (2017, March). Do differential expectations of cognitive interventions and active control conditions exist? Poster presented at the *9<sup>th</sup> Annual USF Graduate Student Research Symposium*, Tampa, FL.
55. **Fausto, B. A.** (2016, November). Brain training: Speed of processing exercises delay functional and cognitive decline in older adults. Invited talk presented at the *4<sup>th</sup> Annual Caregiver Symposium*, Sun City Center, FL.
56. **Fausto, B. A.**, Badana, A. N. S., Valdés, O., Athilingam, P., & Edwards, J. D. (2016, November). Examination of heart failure as a predictor of driving cessation. *The Gerontologist*, 56(Suppl 3), 570. doi: 10.1093/geront/gnw162.2290
57. Quraishi, H., **Fausto, B. A.**, & Edwards, J. D. (2016, October). Brain training to prevent cognitive decline. Poster presented at the *National Collegiate Honors Council Annual Conference*, Seattle, WA.
58. Stark-Inbar, A., **Fausto B. A.**, Sharpe, C., Tetlow, A. M., Jackson, W., O'Melveny, P., & Edwards, J. D. (2016, May). Cognition and action training to prevent dementia in older adults with and without Parkinson's disease: A pilot randomized controlled trial. Poster presented at the *Experiential Technology and NeuroGaming Conference and Expo (XTech)*, San Francisco, CA.
59. \*Timirau, W., \*Quraishi, H., \*Mendoza, M., **Fausto, B. A.**, & Edwards, J.D. (2016, April). Brain training to prevent cognitive decline. Poster presented at the *USF Undergraduate Research and Arts Colloquium*, Tampa, FL.
60. **Fausto, B. A.**, McIntosh, B.W., Bonner, C., McBride, A. (2016, February). The utility of neuropsychological tests and measurement of comorbidity in predicting driving competence among memory clinic patients. *Journal of the International Neuropsychological Society*, 22, S1. doi: 10.1017/S1355617716000734

61. **Fausto, B. A.** (2014, November). The evaluation of driving behavior: An overview of research and assessment methods. Talk presented at the *19<sup>th</sup> Annual Conference of the National Association of Psychometrists*, Rio Grande, Puerto Rico.
62. **Fausto, B. A.**, Benau, E. M., Fontana, M., & Moelter, S. T. (2013, February). Aerobic capacity and attention network efficiency in young adulthood. *Journal of the International Neuropsychological Society*, 19, S1. doi: 10.1017/S1355617713000362
63. **Fausto, B. A.**, Fontana, M., Benau, E. M., & Moelter, S. T. (2012, May). Attention and aerobic capacity in healthy volunteers: The Attention Network Test and Harvard Step Test. Poster presented at the *7<sup>th</sup> Annual Philadelphia Area Psi Chi Research Day Conference*, Philadelphia, PA.
64. **Fausto, B.A.**, Greene, P., DiClemente, C. C., Gray, J. (2011, May). Sensation seeking, perceived norms and nonmedical use of prescription drugs. Poster presented at the *UMBC Undergraduate Research and Creative Achievement Day*, Baltimore, MD.

## HONORS & AWARDS

|             |                                                                                                                                                     |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 2026 – 2028 | Geroscience Education & Training (GET2) Network Ambassador (inaugural cohort), Gerontological Society of America (GSA), NIH/NIA-funded GET2 Network |
| 2026 – 2028 | The National Social Life, Health, and Aging Project (NSHAP) Fellowship at the University of Chicago                                                 |
| 2024        | Fellowship in Advanced Statistical Methods in Genomics and Neuroimaging University of Utah School of Medicine                                       |
| 2022        | Michigan Center for Contextual Factors in Alzheimer’s Disease Summer Data Immersion Competitive Workshop                                            |
| 2021        | University of Michigan Genomics for Social Scientists Competitive Workshop                                                                          |
| 2020        | GSA Mentoring and Career Development Diversity Fellow                                                                                               |
| 2020        | University of Michigan Training Course in fMRI (accepted   <i>cancelled due to COVID</i> )                                                          |
| 2020        | Invited Speaker, Cognitive Aging and Impairment in World Trade Center Affected Populations Scientific Workshop                                      |
| 2018        | PhD Qualifying Exam with Distinction                                                                                                                |
| 2017-2018   | Stephanie Nicole Ross Foundation Scholarship Recipient                                                                                              |
| 2016        | Golden Key International Honor Society                                                                                                              |
| 2016        | The Honor Society of Phi Kappa Phi                                                                                                                  |
| 2012 – 2013 | Competitive University of the Sciences Graduate Research Assistantship                                                                              |

|             |                                                                                                                                                                                                                       |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2012 – 2013 | Competitive University of the Sciences Graduate Student Instructorship                                                                                                                                                |
| 2012        | Research Award of Excellence for “Attention and aerobic capacity in healthy volunteers: The Attention Network Test and Harvard Step Test”<br>7 <sup>th</sup> Annual Philadelphia Area Psi Chi Research Day Conference |
| 2011        | Psi Chi, The International Honor Society in Psychology                                                                                                                                                                |
| 2007 – 2011 | Dean’s Scholar Award: Tuition Merit Scholarship, UMBC                                                                                                                                                                 |

## NON-PEER REVIEWED PUBLICATIONS / PRESS COVERAGE

1. Abedullah, S., **Fausto, B. A.**, Osiecka, Z., Gluck, M. A., & O’Brien, K. (2024). For African American moms, giving birth to multiple children could be linked to Alzheimer's disease, study shows. Retrieved from <https://www.newark.rutgers.edu/news/african-american-moms-giving-birth-multiple-children-possibly-linked-alzheimers-disease-study>
2. Gluck, M. A., **Fausto, B. A.**, & O’Brien, K. (2023). For African Americans, Study Shows Adequate Sleep May Help Prevent Dementia for Those With Genetic Risk Factor. Retrieved from <https://www.newark.rutgers.edu/news/african-americans-study-shows-adequate-sleep-may-help-prevent-dementia-those-genetic-risk>
3. Gluck, M. A., **Fausto, B. A.**, & O’Brien, K. (2023). CMBN Receives \$4.7 Million Grant to Study Exercise and Alzheimer’s Risk in African Americans. Retrieved from <https://sasn.rutgers.edu/news-events/news/cmbn-receives-47-million-grant-study-exercise-and-alzheimers-risk-african-americans>
4. Gluck, M. A., **Fausto, B. A.** & Charles, L. (2020). These at-home exercises can help older people boost their immune system and overall health in the age of COVID-19. Retrieved from <https://theconversation.com/these-at-home-exercises-can-help-older-people-boost-their-immune-system-and-overall-health-in-the-age-of-covid-19-148142>
5. **Fausto, B. A.** (2017). Accelerating teen driver learning: Anywhere, anytime training. Retrieved from <https://aaafoundation.org/category/vulnerable-road-users/>
6. **Fausto, B. A.** (2017). Development of a novice driver training module to accelerate driver perceptual expertise. Retrieved from <https://aaafoundation.org/category/vulnerable-road-users/>
7. **Fausto, B. A.**, Lister, J. J., & Edwards, J. D. (2016). Do individuals with hearing loss change their driving habits over time? Retrieved from <https://atlasofscience.org/do-individuals-with-hearing-loss-change-their-driving-habits-over-time/>
8. **Fausto, B. A.** (2014). Right of way: The intersection of driving competency and neuropsychological assessment. *NAP News*.

## OTHER RESEARCH-RELATED EXPERIENCE

|             |                                    |
|-------------|------------------------------------|
| 2015 – 2019 | Clinical Trials Research Assistant |
|-------------|------------------------------------|

Cognitive and Neurophysiology of Aging Lab (Jerri D. Edwards, PhD & Jennifer J. Lister, PhD)  
USF Morsani College of Medicine, Tampa, FL

- 2016 **Research Assistant**  
Music Research Lab (Jennifer Bugos, PhD)  
USF School of Music, Tampa, FL
- 2013 – 2015 **Research Coordinator**  
Memory Disorders Clinic  
Madonna Ptak Center for Alzheimer's and Memory Loss, Clearwater, FL
- 2012 – 2013 **Clinical Trials Research Coordinator**  
Geriatric Sleep Research Program (Nalaka Gooneratne, MD)  
University of Pennsylvania Division of Geriatric Medicine, Philadelphia, PA
- 2011 – 2013 **Research Assistant**  
Cognitive Neuropsychology Lab (Stephen T. Moelter, PhD)  
USP Department of Behavioral and Social Sciences, Philadelphia, PA
- 2011 **Research Assistant**  
Radiobiology Lab (Bernard Rabin, PhD)  
UMBC Department of Psychology, Baltimore, MD
- 2010 – 2011 **Research Assistant**  
HABITS Lab (Carlo DiClemente, PhD)  
UMBC Department of Psychology, Baltimore, MD

## **VOLUNTEERING / COMMUNITY SERVICE**

- 2023 – *Present* **Hudson River Park Green Team**  
Gardening and Horticulture Maintenance
- 2020 – 2021 **Data Coordinator**  
Newark Water Coalition
- 2020 **Science Fair Judge**  
Hillsborough High School, New Brunswick, NJ
- 2014 – 2019 **Music Instructor and Workshop Leader**  
Tampa, FL
- 2013 – 2019 **Certified Pro Literacy and English as a Second Language Tutor**  
Palm Harbor Adult Literacy Council, Palm Harbor, FL
- 2010 – 2011 **Clinic Volunteer**  
Seton Pain & Rehab Center, Baltimore, MD

2009 – 2010      **Medical-Surgical Volunteer**  
St. Agnes Hospital, Baltimore, MD

## **PROFESSIONAL MEMBERSHIPS**

2021 – *Present*      Alzheimer's Association International Society to Advance Alzheimer's Research and Treatment (ISTAART) | Professional Interest Group Member: Clinical Trials Advancement and Methods; Nonpharmacological Interventions; Neuroimaging; Diversity and Disparities; Design & Data Analytics; Alliance of Women Alzheimer's Researchers (AWARE)

2020 – *Present*      Society for Neuroscience (SfN)

2020 – *Present*      Rutgers Institute for Translational Medicine & Science

2020 – *Present*      New Jersey Alliance for Clinical and Translational Science (NJ ACTS)

2020 – *Present*      National Center for Faculty Development & Diversity

2017 – *Present*      Transportation Research Board (TRB)

2016 – *Present*      Gerontological Society of America (GSA)

2016 – *Present*      Association for Psychological Science (APS)

2013 – *Present*      National Association of Psychometrists (NAP)

2011 – *Present*      American Psychological Association (APA)  
Div. 20: Adult Development and Aging  
Div. 40: Society for Clinical Neuropsychology

## **TEACHING EXPERIENCE**

2026 – *present*      **Lead Instructor**  
Thomas Jefferson University, Philadelphia, PA  
Course: HPS 701 Doctoral Project Foundation

2026 – *present*      **Support Instructor**  
Thomas Jefferson University, Philadelphia, PA  
Course: HPS 702 Doctoral Project Strategy

2026      **Support Instructor**  
Thomas Jefferson University, Philadelphia, PA  
Course: HPS 701 Doctoral Project Foundation

|             |                                                                                                                                                                                         |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2026        | <b>Support Instructor</b><br>Thomas Jefferson University, Philadelphia, PA<br>Course: HPS 601 Applied Health Research Design & Methods                                                  |
| 2023 – 2026 | <b>Lecturer/Facilitator</b><br>Rutgers University–Newark, NJ<br>Course: Pre-Colloquium Journal Discussion                                                                               |
| 2021 – 2026 | <b>Lecturer</b><br>Rutgers University–Newark, NJ<br>Course: The Undergraduate Neuroscience Careers Seminar                                                                              |
| 2020 – 2026 | <b>Lecturer</b><br>Rutgers University–Newark, NJ<br>Course: Graduate Foundations in Neuroscience                                                                                        |
| 2016 – 2018 | <b>Instructor of Record</b><br>USF School of Aging Studies, Tampa, FL<br>Course: Psychology of Aging                                                                                    |
| 2015 – 2016 | <b>Graduate Teaching Assistant</b><br>USF School of Aging Studies, Tampa, FL<br>Course: Psychology of Aging                                                                             |
| 2012 – 2013 | <b>Graduate Teaching Assistant</b><br>USP Department of Behavioral and Social Sciences, Philadelphia, PA<br>Course: Principles of Neuropsychology and Principles of Neuropsychology Lab |
| 2012        | <b>Graduate Teaching Assistant</b><br>USP Department of Behavioral and Social Sciences, Philadelphia, PA<br>Course: Introduction to Psychology                                          |

## STUDENT MENTORING

### Undergraduate Student Research Supervisor

|             |                                                                                                                                                                                                         |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2025 – 2026 | Justin Voelker<br>SURF Final Report: <i>Genetic and Lipid Pathways Influencing Medial Temporal Lobe Dynamic Network Flexibility in Older Adults of African Ancestry at Risk for Alzheimer's Disease</i> |
| 2022 – 2024 | Stanley Romain<br>Undergraduate Thesis: <i>Self-Reported Sleep Health Characteristics May Capture Attention, Memory, and Global Cognitive Performance in Older African-Americans</i>                    |
| 2022 – 2024 | Brad Amoateng<br>Undergraduate Honors Thesis: <i>Impact of Physical Activity on Depression and Executive Function in Older African Americans</i>                                                        |

|             |                                                                                                                                                                                                                                   |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2022 – 2024 | Salma Abedullah<br>Undergraduate Honors Thesis: <i>What is the Impact of Socioeconomic Factors and Parity on the Cognitive Function of Older African American Women?</i>                                                          |
| 2022 – 2024 | Darian Napoleon<br>Undergraduate Honors Thesis: <i>Diabetes is Associated with Poorer Prefrontal Cortex-Dependent Cognitive Function in Older African Americans with the APOE-ε4 Alzheimer's Disease Risk Allele</i>              |
| 2022 – 2023 | Alyssa Arnasalam<br>Undergraduate Honors Thesis: <i>Impact of Depressive Symptomatology and Social Network Size on Executive Function in Cognitively Healthy Older African Americans</i>                                          |
| 2020 – 2022 | Diana Grass<br>Undergraduate Honors Thesis: <i>ApoE ε4 Genotype Moderates Relationships Between T-Cell Senescence, Alzheimer's Disease Blood Based Biomarkers, Obesity and Aerobic Fitness in Healthy Older African Americans</i> |
| 2021 – 2022 | Katarina Martillo<br>Undergraduate Honors Thesis: <i>The Use of Blood-Biomarker Analyses for Alzheimer's Disease Pathology</i>                                                                                                    |
| 2020 – 2021 | Gabriela Ravi<br>Undergraduate Honors Thesis: <i>Past Trauma, Current Affect, and Executive Function: Analyzing Opportunities for Decreasing the Development of PTSD in Sexual Assault Survivors</i>                              |
| 2017 – 2019 | Cidnee Hall                                                                                                                                                                                                                       |
| 2016 – 2018 | Sarah Blackstone                                                                                                                                                                                                                  |
| 2016 – 2018 | Angela Gabay                                                                                                                                                                                                                      |
| 2016 – 2018 | Hafsa Quiraishi                                                                                                                                                                                                                   |
| 2015 – 2017 | Wendy Timirau                                                                                                                                                                                                                     |
| 2015 – 2017 | Megan Mendoza                                                                                                                                                                                                                     |

Post-Baccalaureate Trainee Research Supervisor

|                       |                   |
|-----------------------|-------------------|
| 2024 – 2025           | Regine Legrand    |
| 2023 – <i>present</i> | Gayatri Anguloori |

|                       |                  |
|-----------------------|------------------|
| 2022 – <i>present</i> | Ashley Powell    |
| 2022 – <i>present</i> | Alyssa Arnasalam |
| 2022 – <i>present</i> | Mustafa Sheikh   |
| 2020 – 2023           | Zuzanna Osiecka  |
| 2020                  | Keyla Grullon    |

#### Graduate Student Research Supervisor

|                       |                                                                                                                                                                                                                 |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2026 – <i>present</i> | Kenzie Olewine                                                                                                                                                                                                  |
| 2026 – <i>present</i> | Marygrace Loggia<br>Doctoral Research Project: <i>Quality-of-Life Among Adults Aged 18-59 Diagnosed with Basal Cell Carcinoma</i>                                                                               |
| 2025 – <i>present</i> | Sahna Nassiry<br>Master's in Public Health Capstone: <i>Medicare and Medicaid Policy Effects on Alzheimer's-Related Coverage, Out of Pocket Costs, and Long-Term Care Access</i>                                |
| 2024 – <i>present</i> | Soleil Perez<br>Master's in Public Health Capstone: <i>Impact of Physical Activity and Sleep Quality on Waist-to-Hip Ratio in Older African American Adults</i>                                                 |
| 2023 – 2025           | Robby Perna<br>Master's in Public Health Capstone: <i>The Influence of Polypharmacy on Cognitive, Neural and Neuropathological Markers of Alzheimer's Disease in Older African Americans</i>                    |
| 2023 – 2025           | Destiny Ramos<br>Master's in Psychological Sciences Thesis: <i>The Efficacy of Exercise to Improve Brain Health in Older African Americans</i>                                                                  |
| 2023 – <i>present</i> | Hafsa Jaral<br>Master's in Public Health Capstone: <i>Stress and Health in Urban Environments</i>                                                                                                               |
| 2023 – 2024           | Sophee Niraula<br>Master's in Public Health Capstone: <i>Abdominal Obesity (Waist-to-Hip Ratio) is Superior to Body Mass Index as an Indicator of Cognitive Health in Older African Americans</i>               |
| 2023 – 2024           | Wiktora Piaszczyńska<br>Master's in Public Health Capstone: <i>Factors Contributing to Exceptional Cognitive Aging and Overall Cognitive Health in African-American Superagers Living in Newark, New Jersey</i> |
| 2021 – 2022           | Genesis Tan<br>Master's in Public Health Capstone: <i>Social Network Index and Generalization in Older</i><br>Bernadette A. Fausto 19                                                                           |

## **ONGOING EDITORIAL APPOINTMENTS**

2023 – present

Review Editor for Neurocognitive Aging and Behavior, *Frontiers in Aging Neuroscience*

## **AD HOC JOURNAL & CONFERENCE ABSTRACT REVIEWER**

Accident Analysis & Prevention

Alzheimer's & Dementia: The Journal of the Alzheimer's Association

Alzheimer's & Dementia: Translational Research & Clinical Interventions

American Psychological Association Convention

BMC Public Health

Cochrane Intervention Review

Journal of Gerontology: Medical Sciences

Journal of the International Neuropsychological Society

Learning and Motivation

Physical & Occupational Therapy in Geriatrics

Psychology and Aging

The International Journal of Aging and Human Development

The Journals of Gerontology Series B: Psychological Sciences & Social Sciences

## **METHODS/SKILLS**

### **Statistical Analysis**

Stata, SAS, SPSS, R, Comprehensive Meta-Analysis, JASP

### **Database Management**

REDCap, Microsoft Access

### **Reference Management**

EndNote, Zotero

### **Neuropsychological Testing**

16+ years experience administering standardized neuropsychological assessments e.g., Halstead-Reitan

Neuropsychological Test Battery and Applied Procedures, Wechsler intelligence and memory scales, Wide Range

Achievement Test; Consortium to Establish a Registry for Alzheimer's Disease; Alzheimer's Disease Centers'

Uniform Data Set (UDS): The Neuropsychological Test Battery

### **Semi-Structured Clinical Interviewing**

Clinical Dementia Rating (CDR)

### **EEG/ERP Acquisition**

ANT Neuro

### **Electronic Medical Record**

Epic, Intergrity, Cerner, GE Centricity

