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Two Postdoctoral Openings at Rutgers in Aging & Alzheimer's Research: (1) Brain Imaging (fMRI, EEG), (2) Machine Learning/AI Data Analytics

The *Aging & Brain Health Alliance* at Rutgers University-Newark seeks to hire (for a start date in January or summer/fall, 2024) <u>two postdoctoral fellows.</u> The first is for a candidate with strong prior training and experience in fMRI, EEG, or Polysomnography/Sleep Analyses (PSG), with an interest in applying those techniques to the study of aging, brain health, and Alzheimer's disease prevention. The second is for a candidate with strong prior training and productivity in machine learning/AI with an interest in applying those skills to large data sets from biomedical research on aging and brain function (no prior neuroscience training is required).

Fellows who work in our lab will participate in our NIH-funded study of ***Pathways to Healthy Aging in African Americans*** which seeks to test specific hypotheses about the interplay between genetic variations and potentially modifiable health behaviors to influence cognitive decline and Alzheimer's disease risk in older African Americans, while exploring the role of sex differences and socio-environmental factors. Our interdisciplinary team of collaborators includes faculty and trainees from neuroscience, psychology, public health, psychiatry, neurology, kinesiology, epidemiology, and immunology. We have an extensive program of community engagement in the greater Newark area through which we recruit older African Americans into both longitudinal cohort studies and non-pharmacological interventional clinical trials. There will be opportunities for interdisciplinary and international cross-training with our collaborators at Rutgers and other institutions around the world. For additional details, lecture videos, an overview of current lab members, and downloadable publications and research summaries, see our website at:

https://brainhealth.rutgers.edu/

Applicants for both positions should summarize, in a cover letter, how they meet the following criteria:

1. Either (A) strong skills, training, and prior hands-on experience in fMRI, EEG, and Polysomnography/Sleep Analyses or (B) strong prior training and experience in machine learning/AI.

2. A Ph.D. in Neuroscience, Cognitive Science, Neurobiology, Computer Science, or a related field.

3. Rigorous training and experience in biostatistics and data analysis.

4. Prior experience writing first-authored English-language academic papers and/or research grants.

FOREIGN CANDIDATES: Are welcome so long as they meet all four criteria listed above.

Salary will be commensurate with experience and comparable to other postdoctoral positions at Rutgers University in neuroscience and related fields. Applicants should apply *in parallel* through both of two mechanisms:

(1). Email me to gluck@rutgers.edu with a complete CV, a cover letter addressing which position you are applying for, the degree to which you fit all of the desiderata noted above, clarification on your current location and citizenship/visa status, along with a summary of relevant skills, background, future career goals, prior experience, and why you think you are a good fit to our research and lab (please review our web site before applying). Please also include a list of potential writers of letters of recommendation whom we may contact (include their names, titles, web pages, and email addresses). Additionally, you should include a PDF of a submitted or published <u>first-authored</u> English-language paper.

(2). Apply formally online through the Rutgers Human Resources web page to upload all your documents there, as well: https://jobs.rutgers.edu/postings/208404