David Geffen School of Medicine

Post-Doctoral Fellowship in Neuroimaging, Neuromodulation and Neuropsychology of Alzheimer's Disease

Susan Bookheimer and Taylor Kuhn Labs @ UCLA

An NIH-funded full-time post-doctoral fellowship position is immediately available, jointly supervised by Dr. Susan Bookheimer and Dr. Taylor Kuhn in the David Geffen School of Medicine, the Semel Institute for Neuroscience and Human Behavior and the Staglin Center for Cognitive Neuroscience at UCLA. We are looking for a motivated post-doctoral fellow interested in working at the interface of cutting-edge neuromodulation techniques, state-of-the-art MR-neuroimaging including fMRI, resting state, DTI and ASL, and experimental neuropsychology (e.g. Virtual Reality), to investigate the mechanisms of transcranial focused ultrasound (tFUS) as a novel, non-invasive cognitive prosthetic for the potential treatment of neurodegenerative and neuropsychiatric disorders.

The Bookheimer and Kuhn labs are located within the interdisciplinary Center for Cognitive Neuroscience (CCN) at UCLA. The Bookheimer lab focuses on neuroimaging and neuropsychology to investigate functional neuroanatomy across neurodevelopment differences, acquired brain injuries, neurodegenerative disorders and the healthy lifespan. The Kuhn lab employs experimental neuropsychology, psychophysiology and neuroimaging to both investigate non-invasive neuromodulation techniques as methods for perturbing brain states to further our understanding of functional neuroanatomy and as potential interventions for neurodegenerative and neuropsychiatric conditions. Our long-term goals are to map symptom-specific neural systems at the individual person level to provide personalized targets for non-invasive neuromodulatory treatments.

A successful candidate will have the following qualifications:
- PhD in neuroscience, psychology, neuropsychology, cognitive neuroscience, computational neuroscience or similar
- Ability to work independently within a collaborative multi-disciplinary team based environment
- Experience with multivariate statistics
- Experience processing and analyzing neuroimaging data
- Programming experience (e.g. python, Matlab, R)
- Motivation to learn and develop expertise in cutting-edge neuroimaging and neuromodulation techniques
- Strong oral and written communication skills to present and publish research findings

Experience with MRI data collection as well as some form of neuromodulation and/or psychophysiology data collection and analysis are preferred but not required. All

backgrounds will be considered. The appointed researcher will be embedded within a highly interdisciplinary team of systems neuroscientists and clinical neuropsychologists, psychiatrics, neurologists, neurosurgeons, bioinformaticians, and biostatisticians. The successful candidate will help acquire and analyze high-throughput MRI, neuropsychological, psychophysiological and neuromodulation data. Training opportunities and mentorship in acquisition and analysis of multimodal MRI, psychophysiology and neuropsychological data will be uniquely provided by the joint PIs. The exact topic is flexible within scope, and we expect the incumbent to develop a successful independent research program through this work.

Please email a cover letter, CV, and 3 references to Susan Bookheimer (sbook@mednet.ucla.edu) and Taylor Kuhn (tkuhn@mednet.ucla.edu). You may apply by clicking on this link, https://recruit.apo.ucla.edu/JPF06081.

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(*Statement of Contributions to Diversity - Please see the following page for more details: https://equity.ucla.edu/programs-resources/faculty-search-process/faculty-search-committee-resources/sample-guidance/)

Cultural North Star. The shared values of the UCLA David Geffen School of Medicine are expressed in the Cultural North Star, which was developed by members of our community and affirms our unswerving commitment to doing what is right, making things better, and being kind. These are the standards to which we hold ourselves, and one another. Please read more about this important DGSOM program at https://medschool.ucla.edu/cultural-north-star

This General Data Protection Regulation (GDPR) Statement for Persons in the European Economic Area is designed to provide information regarding the types of Personal Information that the University of California's Human Resources departments and offices collects.

Please be advised that the final candidate recommended for hire into a critical (or otherwise designated) position will be required to successfully complete a background investigation. Any convictions will be evaluated to determine if they directly relate to the

responsibilities and requirements of the position. Having a conviction history will not automatically disqualify an applicant from being considered for employment.

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