Postdoctoral Fellow in Computational Psychiatry and Neuroimaging

The Center for Computational Psychiatry at the Icahn School of Medicine at Mount Sinai is seeking a full-time Postdoctoral Fellow. The fellow will work primarily under the supervision of Dr. Laura Berner on projects that aim to understand (1) the process of adaptively engaging self-control; and (2) how changes in internal and motivational states may abnormally shape decisions about self-control in individuals with eating pathology. Dr. Berner's lab leverages a multi-modal approach that integrates neuroimaging, computational modeling, and neuroendocrinology with experimental tasks from cognitive neuroscience and neuroeconomics.

No prior experience with eating disorders research is needed; the constructs of interest in the lab (emotion regulation, response inhibition, effort-cost estimation, belief updating) are universally important for understanding adaptive healthy functioning and psychiatric disease.

The fellow will have access to data from ongoing federally and foundation-funded projects, as well as a large cache of previously collected behavioral and resting-state, task-based, and structural MRI datasets. This is an exciting opportunity for a candidate with established programming and analytic skills to work at the cutting edge of psychiatry research and build their CV with publications and presentations.

Job Requirements

- Assisting with pre-processing fMRI data and managing analysis pipelines
- Conducting advanced analysis of imaging data, including but not limited to computational modeling, connectomics/graph theory, effective connectivity, machine learning
- Integrating complex datasets across multiple modalities, including resting-state, task-based, and structural MRI, neuroendocrinology, behavior, and self-report
- Assisting with preparation of manuscripts and presenting results at scientific meetings
- Designing novel experiments to examine the neurocomputational basis of control-related decision-making
- Co-mentoring high school, undergraduate and graduate students

Qualifications

The successful candidate will meet the following requirements, including:

- A PhD in neuroscience, cognitive science, psychology, engineering, or a related field
- Strong programming skills (ideally in MATLAB, R, or python)
- Advanced skills in fMRI processing and analysis (AFNI, FSL, and/or SPM)
- Experience working within Linux environment and cloud computing
- An ability to work well in multidisciplinary and highly collaborative teams
- An interest in translational research
- A track record or potential for scholarly productivity
- Effective independent problem-solving and task prioritization

Experience with any of the following is not required, but preferred:

- Computational modeling
- Research with human subjects

To apply, please send your CV and a cover letter to Dr. Laura Berner (laura.berner at mssm.edu).