

Postdoctoral Researcher Computational Neuroscience

External applicant link: https://lsu.wd1.myworkdayjobs.com/LSU/job/LSU---Baton-Rouge/Postdoctoral-Researcher--Computational-Neuroscience_R00032548

The postdoctoral researcher will engage in interdisciplinary research in Computational Neuroscience, interact with research groups from multiple disciplines to facilitate interdisciplinary research activities. The postdoctoral researcher will work with faculty in the Cognitive and Brain Sciences and Clinical areas of the Psychology Department and with faculty in the Center for Computation and Technology. Research activities will align with research of Dr. Melissa Beck's, Dr. Steven Greening's and Dr. Alex Cohen's research laboratories.

This position involves developing, running and analyzing data on projects, and presenting the findings in peer-reviewed manuscripts and at conferences. We seek someone interested in employing a computational approach to cognitive and cognitive neuroscientific questions. This could include computational modeling of behavioral data, multivariate decoding and encoding with brain imaging data, network analyses, and any combination of those. The data involved could include behavioral measures, eye tracking, EEG, fMRI and DTI, using univariate and multivariate approaches. Research projects will center on understanding spatial reasoning, motivation, attention, learning, and optimizing cognitive skills. Other duties may be assigned by supervisor.

Minimum Qualifications:

A Ph.D. in computational neuroscience, cognitive science, cognitive neuroscience, computer science, psychology, or a related field by the time of employment. Knowledge of computational techniques and neuroscience, which can be demonstrated by a track record of scholarship including peer-reviewed publications and conference presentations.

Preferred Qualifications:

- Experience with computational modeling, which could range from cognitive modeling to the application of computational techniques on data.
- Experience with EEG, eye tracking (EyeLink preferred), fMRI or DTI data using standard neuroimaging software (e.g., FSL, AFNI preferred). Perform basic and advanced data analysis of behavioral, eye tracking and/or MRI data using Python, Matlab or R.
- Experience programming and administering computerized psychological experiments on E-prime or Psychtoolbox and with one or more scripting languages (e.g., Matlab, Python, Bash, R).