Computational Cognitive Neuroscience Lab - Indiana University

Postdoctoral Fellowship

Applications are invited for an open position as postdoctoral fellow in the Computational Cognitive Neuroscience Lab, Department of Psychological and Brain Sciences, Indiana University Bloomington.

The core research focus of the lab is in the area of brain networks and connectomics. The lab works on anatomical and functional data sets from a number of species, with a strong emphasis on human brain connectivity and connectome data. Ongoing projects in the lab involve applications of models and tools from network science, graph theory, complex dynamics and information theory to basic and clinical/translational neurobiological questions. A description of the lab and current research areas can be found at www.indiana.edu/~cortex.

Applicants should (a) have (or be in the final stages of obtaining) a PhD or equivalent degree in a field relevant to the research focus of the lab (e.g. neuroscience, neuroimaging, applied mathematics, computer science or bioengineering); (b) have a strong background in computational methods and programming (including advanced skills in Matlab); and (c) have strong enthusiasm for using computational approaches to understand neurobiological problems. Candidates with background in networks or graph theory, experience in processing and analyzing neuroimaging or electrophysiological recordings, exposure to “big data” approaches relevant to brain function, and a strong record of publication are especially encouraged to apply.

The postdoctoral fellow will join a very active and interdisciplinary research group, and will be expected to engage and interact with a growing number of network and complex systems scientists at Indiana University and beyond. The lab maintains close ties and collaborations with scientists in the IU Imaging Research Facility (housing a 3T Siemens MR scanner), the Center for Complex Networks and Systems at the School of Informatics and Computing, the Medical School campus, and at other institutions nationally and internationally. All lab members have access to excellent computational facilities.

The potential start date is negotiable, and the position is initially offered for a 1-year term which is renewable upon mutual agreement. Salary levels will follow NIH guidelines.

Please email application materials (cover letter, a full CV with a list of publications, and 3 letters of reference) to Olaf Sporns at osporns@indiana.edu.