POSTDOCTORAL RESEARCH POSITION

SPONSORED BY BRAIN INITIATIVE GRANT

Postdoctoral research positions are available in the lab of Nitin Tandon at Houston. This position is funded by a BRAIN Initiative U01 grant funded project that uses electro-corticographic (ECoG) recordings and fMRI on a large cohort (n=80) to evaluate psycholinguistic models of reading and speech production to create network level representation of language. Collaborators on the project include Greg Hickok, Stanislas Dehaene, Nathan Crone and Xaq Pitkow; the post-doc will benefit from a close interaction with these experts in the fields of reading, semantics, speech production and computational neuroscience.

The selected individuals are expected to be a highly motivated, team players with a passion to study cognitive processes using imaging, direct recordings and closed-loop cortical stimulation in humans. They will be responsible for

1. data collection in the epilepsy monitoring unit and in the MRI scanner
2. ECoG data analysis using an analysis pipelines existent in the lab and via the development of innovative analytic strategies including machine learning and AI approaches
3. data presentation at conferences and manuscript preparation.

The selected individual must have a Ph.D. in one or more of the following: neuroscience, psychology, cognitive science, mathematics, electrical engineering or computer science. Previous experience in neural time series data analysis, functional imaging studies of language, or studies of speech production are desirable – but not crucial. They must possess the ability to independently code in any or all of the following: MATLAB, R or python.

Given the multiple unpredictable variables and privacy issues around data collection in human patients, the individual must possess high ethical and professionalism standards, be able to adapt to a changing environment, reorganize schedules dynamically, and work with short deadlines. A strong publication record and excellent academic credentials are highly desirable.

CONTACT DR. NITIN TANDON:

Nitin.Tandon@uth.tmc.edu

More information is available at www.tandonlab.org