



Postdoc position available in the **human intracranial EEG** (iEEG, ECoG) Laboratory for Human Brain Mapping at the Feinstein Institute for Medical Research – Hofstra Northwell School of Medicine, NY, USA. We study the neuronal dynamics underlying cognitive processes such as selective attention and active sensing, interoception, memory, and auditory stream and speech processing using iEEG recordings surgical epilepsy patients. Besides iEEG recordings we also use invasive and non-invasive electrical stimulation, eye tracking, single unit recordings, recording of other physiological signals (i.e., EKG, breathing), and functional and anatomical imaging.

This postdoc position is part of a large, recently funded NIH multi-center project to investigate the functional role of slow fluctuating cortical activity. These slow fluctuations are a ubiquitous and fascinating feature of brain activity and is thought to play a crucial role in many cognitive functions from attention, interoception, state switching, etc. The position is funded for 4-5 years (less is ok), with expected start date as soon as possible. This is an extremely collaborative project among a large amount (>25 PIs) of international leaders in the field using scalp EEG, fMRI, iEEG, and single unit recordings in humans and animal models, electrical stimulation, and computational modeling. The candidate will have ample opportunities to work closely with these collaborators.

The ideal candidate has a PhD in neuroscience, biomedical engineering, psychology, or related field. They should have a solid background in signal processing (either EEG/MEG or iEEG), programming (Matlab or Python), statistics, and scientific writing. They must feel at ease operating within a laboratory setting that involves frequent engagement with clinical environments. Some supervision and mentoring of research assistants and students is encouraged. International (non-US) applicants are also welcome to apply.

If you are interested and would like to learn more about this position, please send your CV, names and contacts of 2-3 references, along with possible questions about the positions to Stephan Bickel, MD PhD (sbickel@northwell.edu). Looking forward to hearing from you!