Postdoctoral Position:

Single Unit Studies of Episodic Memory and Decision Making in the Human Brain

Laboratory of Brett Foster, Ph.D. –
Baylor College of Medicine, Houston, Texas.

Keywords: Human intracranial electrophysiology; single unit recordings; episodic memory; decision making; cognitive control; medial temporal lobe; cingulate cortex.

Position: Postdoctoral position in single unit studies of episodic memory and decision making.

Project: *Single unit studies of MTL-Cingulate function in episodic memory and decision making*. Using human intracranial recordings of single unit activity in the medial temporal lobe and posterior cingulate region to understand the interface of episodic memory retrieval and decision making.

Group: The candidate will join the laboratory of Brett Foster Ph.D. in the Department of Neurosurgery at Baylor College of Medicine in Houston, Texas. The Foster lab studies human cognitive neurophysiology, particularly through intracranial recordings, with a specific focus on neocortical dynamics and episodic memory. This research is part of a growing collaborative group of investigators including Sameer Sheth M.D. Ph.D., Michael Beauchamp Ph.D. and Daniel Yoshor M.D. focused on human intracranial neurophysiology of decision making, cognitive control, vision, multi-sensory integration, memory and language. The candidate will join this collective and its larger research efforts to causally explore human memory, perception and decision making.

Candidate: We are seeking a postdoctoral fellow with interest and experience in electrophysiology (human/non-human), episodic memory and/or decision making. Experience with human intracranial recordings is ideal but not necessary. Experience with single unit recording and analysis is desired. The candidate will have graduate level expertise in time-series analysis and higher-order statistics. The candidate should display high standards of academic writing and scientific presentation as captured in published first author manuscripts.

Support: The candidate will be supported, commensurate with experience, through research funding for up to 3 years, contingent on performance. Funds for career development training and conference travel will also be provided.

Facilities: Baylor College of Medicine is located at the heart of the Texas Medical Center, the worlds largest medical complex, which includes 21 hospitals, 8 specialty institutions and 8 academic research centers. The Foster lab uses this unique setting to collaborate with Baylor clinicians in 3 hospitals for research focused on human intracranial recordings. Functional brain imaging work is conducted at the Baylor College of Medicine Center for Advanced MRI (CAMRI) core facility.

Timeline: An ideal start date for the candidate would be summer of 2018, however the position will remain open until filled.

Interested applicants, or those seeking more information, please contact Brett Foster*:
bfoster@bcm.edu

[*Available to meet at *Learning and Memory*]

Links:
https://www.bcm.edu/people/view/brett-foster-ph-d/ca646e7e-88bf-11e5-b8c7-005056b104be

https://www.bcm.edu/departments/neurosurgery

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