

UNDERGRADUATE STUDENT RESEARCH ASSISTANT POSITIONS IN THE DIVISION OF NEUROTHERAPEUTICS AT HARVARD MEDICAL SCHOOL/ MASSACHUSETTS GENERAL HOSPITAL

Start Date: Rolling, typically in January or May/June

Principal Investigators: Darin Dougherty, MD & Tina Chou, PhD (primary supervisors)

The Division of Neurotherapeutics at Massachusetts General Hospital is a multidisciplinary clinical neuroscience group. We conduct neuroimaging, brain stimulation, psychophysiological, and behavioral studies of mood and anxiety disorders. Most of our work uses neuromodulation devices as tools to both treat disease and understand the brain.

The student will gain experience with neuroimaging and electrophysiology (MRI and EEG) data collection and set up for brain stimulation methods such as transcranial focused ultrasound in individuals with mood and anxiety disorders. The student may assist in administrative work, such as maintaining study databases and questionnaire scoring. There will be opportunities to shadow clinicians in the Division conducting standardized questionnaires and clinical interviews. For students with advanced programming and analytical skills, there are opportunities for participating in data analyses. Depending on level of involvement, there will be opportunities to be involved with and author scientific poster abstracts and manuscripts for publication.

This position is unpaid. It is best suited for a student with a background in cognitive neuroscience or psychology who plans to apply for clinical psychology or neuroscience Ph.D. programs or medical school. Prior experience with neuroimaging (MRI, EEG) is a plus, but not required. The student will be working closely with psychiatric patients, and should therefore be comfortable and considerate while working with clinical populations.

Ongoing/upcoming projects:

- Invasive Recording and Neurostimulation Studies of Approach/Avoidance Behaviors in Humans
- Neuromodulation of ventral striatum with transcranial focused ultrasound for Obsessive Compulsive Disorder
- Clinical feasibility of low intensity focused ultrasound for Generalized Anxiety Disorder

Our laboratory is part of the Martinos Center for Biomedical Imaging, one of the world's largest and most diverse human neuroscience centers. There will be many opportunities for a broad exposure to cognitive and clinical neuroscience through seminars, workshops, and peer interactions.

Please send a copy of your CV and a cover letter describing your research experience to Tina Chou, PhD at tchou@mgh.harvard.edu