

# Imaging and analyzing brain networks during sleep

## Volunteer Research Assistant Position at MGH

**Project description:** How does the brain generate sleep? Why do we become unaware of our surroundings and why do we dream? This project uses advanced neuroimaging methods to study human brain activity during sleep. By measuring electrical activity through EEG, and spatial patterns of activity using fMRI, we are mapping how brain networks change across awake and asleep states. We are seeking a volunteer undergraduate research assistant to help run combined EEG-fMRI experiments, and possibly to assist with data analysis (primarily in Matlab). This project involves learning to conduct hands-on experiments, and the opportunity to learn to analyze brain imaging data.

**Prerequisites:** Seeking a student who is enthusiastic, hardworking, and interested in how the brain works! A background in programming would be helpful, as would experience using Matlab. We would like a 8-10 hour/week commitment, starting in the Fall of 2015, and preferably for at least 2 semesters.

**Location:** This project takes place at the MGH-HST Martinos Center, in Charlestown (reachable by a free shuttle from MGH main campus). Many of the experiments take place in the late evening and on weekends.

**To apply:** Please email Laura Lewis, [lauralewis@fas.harvard.edu](mailto:lauralewis@fas.harvard.edu), with your CV, short cover letter, and transcript.