Postdoctoral Scholar

The Pediatric Mood and Anxiety Disorder Program (P-MAP) and the Translational and Molecular Imaging Institute (TMII) at the Icahn School of Medicine at Mount Sinai are seeking a highly motivated individual as a full-time post-doctoral scholar in Dr. Vilma Gabbay and Dr. Jungian Xu's neuroimaging laboratory. The focus of this position will be on developing and applying advanced neuroimaging analysis strategies tailored to the adolescent population to characterize both healthy development and abnormal developmental traits in adolescents with psychiatric disorders, including:

- surface-based task and resting-state functional MRI analysis
- quantification of metabolites (e.g., GABA/GSH) in the brain by J-edited MR spectroscopy
- evaluation of cortical myelination and gray matter density using surfaced-based analysis
- morphological analysis of subcortical structures using novel myelin-sensitive segmentation algorithms

Candidates should have a PhD degree in psychiatry, psychology, neuroscience, biomedical engineering, or a related field, and should have a strong background in neuroimaging data analysis. Proficiencies with a neuroimaging analysis software (e.g., FSL, AFNI, SPM, FreeSurfer, Connectome workbench, etc.) and Matlab are expected. Familiarity with Python or R language is a plus. Preferences will be given to those with experiences in stimuli presentation software (e.g., E-prime) programming.

The TMII neuroimaging program at Mount Sinai is equipped with cutting-edge Siemens instruments dedicated to research. The equipment involved in this project includes: a 3T Skyra scanner with 32ch head and 20ch head-neck coils. These MR imaging capabilities are part of a 30,000 square feet state-of-the-art imaging facility. Campus-wide supercomputers and TMII center clusters are fully accessible for algorithm development and neuroimaging data analysis.

Mount Sinai is unique with its integrated medical school and hospital system. The candidate is encouraged to participate in existing collaborations with the Departments of Psychiatry, Neuroscience, Neurology, Neurosurgery, and the Friedman Brain Institute, all within the Mount Sinai health system.

The postdoctoral fellow will be co-mentored by Dr. Gabbay and Dr. Xu in both the clinical and technical aspects, respectively, of neuroimaging in adolescents. Mentoring is a strong focus in Dr. Gabbay and Dr. Xu's laboratories as demonstrated by recent successful pre-/post-doctoral fellowships awarded to the members in the laboratories. All trainees are encouraged to pursue competitive fellowships with hands-on guidance and dedicated mentoring. Typically, a fellowship proposal submission is expected by the end of the second year after a trainee joins the team.

The start date of the position is expected to be June 2018. The initial employment is for two-years with possible extension. Salary will be commensurate with experience and the cost of living in New York City. Subsidized housing close to Mount Sinai campus (upper east side, Manhattan) is available. Please send cover letter, CV, and names of three references to Vilma Gabbay (vilma.gabbay@mssm.edu), Associate Professor of Psychiatry and Neuroscience and Junqian (Gordon) Xu (junqian.xu@mssm.edu), Assistant Professor of Radiology and Neuroscience.