Two Post-doctoral Fellow Positions in Neuro-imaging Research

Two postdoctoral fellow positions are available in the Department of Radiology and Biomedical Imaging at the University of California, San Francisco. The fellows will participate in a multi-disciplinary research program that develops novel imaging and metabolic tools for brain tumors, autism, and neurological diseases. The fellows will work as part of a large team of clinical and research collaborators in the UCSF Brain Tumor Center and a group of graduate students, postdoctoral fellows, faculty, and scientists in the Departments of Radiology and Biomedical Imaging, Neurological Surgery, and Psychiatry.

Primary Research areas focus on the following:
1) Development and implementation of AI-based approaches and tools for acquiring, processing, and analyzing ^{1}H multi-voxel MR spectroscopy data from healthy volunteers and patients with brain tumors.
2) Development of novel data processing and analysis methodologies for hyperpolarized carbon-13 MRI.
3) Advanced analysis of MR metabolic imaging (hyperpolarized carbon-13 and/or 1H MR spectroscopy), DTI, and resting state fMRI data and correlate them with neurocognitive assessment in patients with brain tumors, autism, and depression.

For more information about the research projects, please visit https://lilabimaging.ucsf.edu/

Responsibilities:
All applicants will be expected to utilize and extend state-of-the-art imaging and spectroscopic processing, statistical, and data analytic tools to analyze multimodal imaging and metabolic MR data in clinical populations. Specifically, the main tasks will involve data collection, management, and analysis, including image segmentation, spectral analysis, multi-parametric cohort analysis, and the translational application of the developed tools to study patients.

Eligibility Requirements:
Applicants must have a Ph.D. in biomedical imaging, applied mathematics, engineering, or related fields. Strong statistical, computational, and communication skills are desired. Experience in image processing (e.g., custom routines, MATLAB, R, segmentation, and network analysis software package) or brain metabolic imaging data is highly desirable. The ideal candidate will be highly motivated, reliable, and equally productive when working independently or cooperatively.

How to Apply:
Applicants should email a CV along with two references and recent research interests and activities to be sent to Yan Li (yan.li@ucsf.edu).

The University of California San Francisco is an affirmative action, equal opportunity employer and complies with all applicable laws and regulations.