Post-doctoral Fellow Positions in Clinical Neuro-imaging Research & Analyses

Two postdoctoral research fellowship positions are available in the Surbeck Laboratory of Advanced Imaging in the Department of Radiology and Biomedical Imaging at the University of California, San Francisco. Fellows will participate in a multi-disciplinary research program that develops novel anatomical, physiological and spectroscopic imaging and analysis techniques for neurological diseases. Fellows will work as part of a large team of clinical and research collaborators in the UCSF Brain Tumor Center and Newborn Brain Imaging Center as well as a group of graduate students, postdoctoral fellows, faculty and scientists in the Department of Radiology and Biomedical Imaging.

**Primary Research areas focus on the:**
1) Developing methods of data acquisition, reconstruction and post-processing for MRS/MRSI, and analyzing multi-parametric MRI/MRSI imaging datasets as it relates to pathological and clinical outcome for patients with brain tumors and other neurologic diseases;
2) Advanced analysis of DTI and resting state fMRI data (e.g. tractography, connectomics, network analysis) and comparison of these parameters to microbleed formation and cognitive function in order to better understand the long-term effects of radiation therapy in children with brain tumors.

**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 spectroscopic data from 3T and 7T research scanners 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. The candidate will have an opportunity to contribute to ongoing basic and translational research projects and will be encouraged to explore and develop new ideas.

**Eligibility Requirements:**
Applicants must have a PhD 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 spectroscopic imaging data is highly desirable. The ideal candidate will be highly motivated, reliable, and will be equally productive when working independently or cooperatively.

**How to Apply:**
The positions are available immediately and for up to two years. 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 is an affirmative action/equal opportunity employer.*