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

Several postdoctoral research fellowship positions are available in the Surbeck Laboratory of Advanced Imaging in the Department of Radiology & 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 brain cancer and other neurological diseases.

The fellow will work as part of a large team of clinical and research collaborators in the UCSF Brain Tumor Center and Memory and Aging Clinic 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) Evaluation of longitudinal efficacy of novel therapeutic strategies through multi-parametric MRI/MRS/PET.
2) Investigation of the spatiotemporal spread of pathology on different brain regions, networks, and function.
3) Processing and analysis of large imaging datasets as it relates to genomics, pathology and clinical outcome.

Responsibilities: Although the responsibilities of the post-doctoral positions may vary and can involve all phases of human neuroimaging research, 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.

Requirements: Candidates should have a Ph.D. in Bioengineering, computer science, physics, statistics, applied mathematics, computational neuroscience or related fields. Previous experience in neuroimaging is desirable, but not required. Experience in computer programming (e.g. Python, shell scripting, C/C++) and image processing (e.g. custom routines, matlab, R, segmentation and network analysis software packages) is highly desired. Candidates should have a proven track record of publications in image processing or data analysis, and be highly motivated with excellent analytical and interpersonal skills. Strong written communication skills are required. Attention to detail, organizational capability, and the ability to handle multiple concurrent tasks are essential. The post-doctoral fellow is expected to be able to work independently as well as part of a team in a fast paced environment.

To apply: We invite interested, qualified, and highly motivated candidates to email a CV along with two references and a brief description of recent research interests and activities to: Janine Lupo, Ph.D., Assistant Professor, janine.lupo@ucsf.edu

The University of California is an affirmative action/equal opportunity employer.