Postdoctoral Fellowship in Multimodal Neuroimaging
University of California, San Francisco (UCSF), USA

A postdoctoral fellowship is available in multimodal imaging of the human brain connectome, with application to traumatic brain injury (TBI) at the University of California, San Francisco (UCSF). UCSF is a world-class academic medical center and research institution. The position can begin as early as August 2020.

The successful candidate will use state-of-the-art 3T and 7T research MR scanners and MEG, as part of prospective studies of TBI, including the US nationwide TRACK-TBI longitudinal project, leveraging the largest database to date of advanced MRI in TBI. The postdoctoral fellow will have the opportunity to work closely with physicians, imaging scientists and engineers, as well as cognitive neuroscientists. The focus of the research will be on acquiring, analyzing, and integrating advanced diffusion MRI (DTI/DKI/NODDI) microstructural, connectomic, morphometric, and functional (fMRI/MEG) longitudinal imaging data on thousands of TBI patients and normative controls. The successful candidate will also have the opportunity for methodological development, especially in the areas of diffusion imaging and tractography, functional connectivity and connectomics.

Candidate should have a Ph.D., M.D./Ph.D. or equivalent in Cognitive Science, Neuroscience, Psychology, Biomedical Engineering, Mathematics, Computer Science or Electrical Engineering. Experience with diffusion MRI and/or functional MRI connectivity research is required, with first-author original research publications in peer-reviewed journals. Expertise with MR image processing platforms such as FSL, AFNI, SPM and/or FreeSurfer is desirable. A background in multivariate pattern analysis and machine learning as well as strong programming skills with Python, Matlab, C/C++, and/or VTK/ITK would be considered an asset. Experience with emerging neuroinformatics platforms such as BIDS, NiPy, XNAT and OpenNeuro.org would also be a plus.

Starting salary will be in the range of $55,000 to $65,000 plus benefits, depending on qualifications and experience level.

Please email CV, cover letter describing research background and interests, and contact information for 2-3 references to:

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