Postdoctoral Fellow
Massachusetts General Hospital (MGH)/Harvard University

(i) Artificial Intelligence for Medical Imaging
(ii) MR Pulse Sequence Development

Applications are invited for two open research fellowship positions in the Gordon Center for Medical Imaging (GCMI: [http://gordon.mgh.harvard.edu/gc/](http://gordon.mgh.harvard.edu/gc/)) at MGH/Harvard, Boston, USA. GCMI is a national biomedical technology resource funded by the National Institutes of Health to provide novel imaging technologies that revolutionize the way scientists and physicians view and use medical imaging, including PET, MRI, and simultaneous PET/MRI. The fellow is expected to

(i) develop artificial intelligence/machine learning techniques to solve challenging problems in quantitative MRI (e.g., relaxometry, magnetization transfer, chemical saturation exchange transfer, perfusion, diffusion), functional MRI, and PET/MRI.

(ii) develop and evaluate novel MR pulse sequences and methods for rapid and robust imaging of tissue structure, composition, and function in combination with molecular imaging.

The fellow will be required to conduct cutting-edge research in several neurological, oncological, and musculoskeletal projects, including, but not limited to, image acquisition/reconstruction, image analysis/processing, and quantitative imaging physiology. The successful applicants will join a vibrant research environment at one of the top universities in the world with the role to disseminate research results through publications in high-impact journals and presentations at top conferences. The position will be for two years, renewable upon the performance.

Requirements:

- Ph.D. in Biomedical Engineering, Medical Physics, Computer Science, or related field
- At least 2-years of hands-on experience with MRI and image analysis
- Proficiency in quantitative methods and strong programming skills (MATLAB, Python, etc.)
- Effective written and verbal communication skills

Highly Preferable:

- Siemens or GE MRI sequence programming, clinical and/or animal scanner experience
- Machine learning applied to medical imaging data

To Apply: Please email research interests and full CV to Dr. Fang Liu [fliu12@mgh.harvard.edu]

We believe that the applicants are right to identify the strengths of joining GCMI as fundamentally intellectual stimulation - what the MGH/Harvard communities have to offer is an environment with bright, energetic, creative scientists, on both the basic science and clinical/translational side. The successful applicants will benefit strongly from the research environment, facilities, and career opportunities at GCMI and MGH/Harvard. Harvard University is an Equal Opportunity Employer that welcomes and encourages all applicants to apply regardless of age, race, gender, color, nationality, sexual orientation, disability, veteran status, religion or any other basis prohibited by law.