Postdoctoral Fellow & Research Scientist
(i) Artificial Intelligence for Medical Imaging; (ii) MRI Sequence Development; (iii) Medical Image Analysis and Processing

Applications are invited for open positions in Intelligent Imaging Innovation and Translation (I³T) Lab at Athinoula A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital (MGH) and Harvard Medical School (HMS), Boston, USA. I³T lab is a multidisciplinary research laboratory dedicated to improving patient healthcare by conducting novel medical imaging and artificial intelligence research and developing original imaging technologies for disease diagnosis and therapy. The applicants are expected to

- Develop artificial intelligence/machine learning techniques to design, optimize, and accelerate image acquisition and reconstruction of quantitative, multi-parametric, and dynamic MRI.
- Innovate new MRI pulse sequences and acquisition methods for rapid and robust imaging of tissue microstructure, composition, and function.
- Invent intelligent methods and software solutions for medical signal and image data analysis and processing in translational imaging research.

The successful applicants will be required to conduct research in NIH R01- and R21-funded projects focusing on musculoskeletal, neurological, and oncological studies. The applicants will join a vibrant research environment at one of the world's top universities and hospital systems, with the role of disseminating research through publications in high-impact journals and presentations at top conferences. The positions are immediately available and will be for one year, renewable upon performance.

Requirements:
- Major in Computer Science/Vision, Biomedical Engineering, Medical Physics, or related field
- Hands-on experience with MRI, image analysis and processing, and quantitative methods
- Proficiency in Unix/Linux, large-scale computing, and strong programming skills
- Effective written and verbal communication skills in English
- Experience with Siemens or GE MRI sequence programming (Preferred)
- Experience with AI/ML applied to (medical) image data (Optional)

To Apply: Please send interest and a full CV to Professor Fang Liu [fliu12@mgh.harvard.edu]

The successful applicants will benefit enormously from the research environment, facilities, and career opportunities at Athinoula A. Martinos Center. MGH/HMS 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.

Lab website: https://liulab.mgh.harvard.edu/  Martinos Center: https://www.martinos.org/  
PI's LinkedIn: https://www.linkedin.com/in/fliu37/  Twitter: https://twitter.com/DrFangLiu