



Postdoctoral Fellow & Research Scientist

(i) MRI Sequence Development and Image Reconstruction; (ii) Quantitative MRI & (iii) Artificial Intelligence for Medical Imaging

Applications are invited for multiple positions in the 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 imaging and artificial intelligence research and developing original imaging and therapeutic technologies for disease diagnosis and treatment. The applicants are expected to work on the projects to

- Innovate new MRI sequences and acquisition methods for fast imaging tissue composition, microstructure, and function in disease processes.
- Develop novel AI/ML techniques to design, optimize, and accelerate image acquisition and reconstruction of quantitative, multi-dimensional, multi-parametric MRI.
- 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
- Experience with Siemens or GE MRI sequence programming (Preferrable)
- Hands-on experience with MRI, image analysis and processing, and quantitative methods
- Effective written and verbal communication skills in English
- Experience with AI/ML applied to (medical) image data (Optional)

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

We are at ISMRM, 04-09 May 2024. Meet us up in Singapore

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>