



Intern Student, Postdoctoral Fellow & Visiting Scholar (i) Artificial Intelligence for Medical Imaging; (ii) MRI Pulse Sequence Development; (iii) Medical Image Analysis and Processing

Applications are invited for open positions in Liu's lab (<https://liulab.mgh.harvard.edu/>) at Athinoula A. Martinos Center, Massachusetts General Hospital (MGH) and Harvard Medical School (HMS), Boston, USA. Martinos Center 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. 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.
- Develop and evaluate novel MRI pulse sequences and acquisition methods for rapid and robust imaging of tissue microstructure, composition, and function.
- Develop 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 to disseminate research through publications in high-impact journals and presentations at top conferences. The positions are immediately available and will be for two years for postdoc fellow and one year for visiting scholar, renewable upon the performance.

Requirements:

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

Highly Preferable:

- Siemens or GE MRI sequence programming, clinical and/or animal scanner experience
- AI/ML applied to (medical) image data, familiar with Unix/Linux, large-scale computing

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

We believe that the applicants are right to identify the strengths of joining Martinos as fundamentally intellectual stimulation - what the MGH/HMS communities offer is an environment with bright, energetic, creative scientists on both the basic science and clinical/translational side. The successful applicants will benefit enormously from the research environment, facilities, and career opportunities at 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.