Research Fellowships in Advanced MRI Acquisition and Reconstruction

Athinoula A. Martinos Center for Biomedical Imaging
Massachusetts General Hospital (MGH)
Harvard Medical School (HMS)

Postdoctoral research fellowship positions in advanced MRI acquisition, reconstruction, and data processing are available at the Athinoula A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital (MGH) and Harvard Medical School (HMS). Under the supervision of Dr. Fuyixue Wang, the fellow will receive training and support to develop cutting-edge MR acquisition, reconstruction, and data processing technologies, and apply them to study the function and structure of the human brain and body (e.g., functional MRI, diffusion MRI, CSF flow imaging, quantitative MRI) with improved sensitivity, specificity, and information content. The fellow will further expand the impact of their research by evaluating and disseminating the developed tools and data in an open science manner to the broad research community.

The successful candidate will utilize the state-of-the-art hardware systems housed at the Martinos Center, including 3T and 7T scanners (e.g., Siemens 3T Prisma, Skyra, Cima.X, 7T Terra), the high-performance 3T "Connectome 2.0" scanner, and others. The position provides a valuable opportunity for the fellow to join a vibrant research environment at one of the world's best universities and hospital systems, and work and collaborate with a diverse group of researchers with multidisciplinary expertise in engineering, neuroscience, and clinical research. This role will also provide an opportunity for a strong academic-industrial partnership with Siemens Healthineers, in translating cutting-edge technologies into impactful clinical tools. These opportunities are unique and valuable for the candidate's career development.

A Ph.D. in electrical/biomedical engineering, medical physics, computer science, or a related field is required. Strong candidates with other scientific backgrounds will also be considered. The candidate should have first-hand experience in MR physics, image reconstruction, pulse sequence, and/or data analysis. Experience with Matlab, C/C++, and/or Python is desirable.

APPLICATION

Enquiries may be directed to Dr. Fuyixue Wang (fwang18@mgh.harvard.edu). Interested applicants should send a CV, a cover letter (describing research experience, research interest, and career goals), and the contact information of 3 referees.

This position is full-time with benefits and is available immediately. A two-year commitment is required.

Martinos webpage: https://www.martinos.org/investigator/fuyixue-wang/
PI's Twitter: https://twitter.com/FuyixueWang

We are an equal opportunity employer, and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, gender identity, sexual orientation, pregnancy-related conditions or any other characteristic protected by law. By embracing diverse skills, perspectives and ideas, we choose to lead. Applications from protected veterans and individuals with disabilities are strongly encouraged.

Posted: 2024-June-19