Research Fellow & Scientist positions in Advanced MRI Acquisition and Reconstruction

Advanced MRI Acquisition and Reconstruction Lab (mriacq-lab.martinos.org)
Athinoula A. Martinos Center for Biomedical Imaging
Massachusetts General Hospital (MGH)
Harvard Medical School (HMS)

Postdoctoral research fellowship and research scientist 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 Drs. Fuyixue Wang and Zijing Dong, the candidate 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., diffusion MRI, CSF flow imaging, functional MRI, quantitative MRI) with improved sensitivity, specificity, and information content.

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 candidate 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. 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, pulse sequence, image reconstruction, 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) and Dr. Zijing Dong (zdong3@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.

Lab webpage: mriacq-lab.martinos.org

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.

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