Postdoctoral Opportunity at Johns Hopkins University

Two postdoctoral positions are available in the Department of Radiology at Johns Hopkins University School of Medicine, Baltimore, MD, USA. The research goal is focused on the development of novel MRI techniques on clinical MRI scanners, such as chemical exchange saturation transfer (CEST) or more specifically amide proton transfer (APT), and their clinical applications to various neurological diseases, such as brain tumors, stroke, and Alzheimer's disease. In particular, we are seeking young scientists with some expertise and/or motivation in developing novel MRI pulse sequences, acquisition approaches, and analysis techniques on human MRI scanners, including compressed sensing, MR fingerprinting (MRF), and deep-learning. For more details about the research field, please see some of our previous articles:


Requirements and preferred experience: Applicants must have a Ph.D. in medical imaging, biomedical engineering, electrical engineering, computer science, physics, or a related field. The candidates must have first-hand experience in MRI physics, pulse sequence programming (on Philips or Siemens), image reconstruction algorithms, and/or clinical MRI applications.

Benefits: The position is grant-funded, full-time with benefits, and is available immediately. Salary will be commensurate with experience. The position will typically be for two years, renewable for more years, with potential to be promoted to faculty for outstanding researchers.

Environment: The positions will be in the Division of MR Research, Department of Radiology, Johns Hopkins University School of Medicine. JHU has a world-renowned Radiology program, ranked #1 in the nation, according to US News and World Report's 2021 Best Research-Oriented Medical School rankings. We have 1.5T, 3T, and 7T Philips and Siemens human scanners dedicated for research only. Preclinical imaging facilities include Bruker 4.7T, 9.4T, 11.7T, and 17.6T MRI, as well as 7T PET-MRI scanners. The Division of MR Research has more than 100 MR physicists, collaborating closely with neuroscientists, pathologists, and clinicians at Hopkins and around the world. There are ample opportunities for collaboration with world leaders in many fields.

To apply: Interested individuals should e-mail their CVs and contact information of three referees to Dr. Jinyuan Zhou using the e-mail address: jzhou2@jhmi.edu.