Postdoctoral Opportunity at Johns Hopkins University

One postdoctoral position is 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 fast, quantitative chemical exchange saturation transfer (CEST) imaging or, more specifically, amide proton transfer (APT) imaging techniques, as well as their clinical applications to brain tumors, stroke, Alzheimer’s disease, TBI, and other neurological diseases. In particular, we are seeking a candidate with interest and/or expertise in developing various novel CEST/APT MRI acquisition and analysis techniques, 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: A Ph.D. in medical imaging, biomedical, electrical engineering, computer science, physics, or a related field is required. The candidate should have some first-hand experience in MRI physics, pulse sequence programming (on Philips or Siemens) and/or image reconstruction algorithms.

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

Environment: The position 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, 17.6T MRI, 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 CV and contact information of three referees to Dr. Jinyuan Zhou, using the e-mail address: jzhou@mri.jhu.edu.