Postdoctoral Opportunity at Johns Hopkins University

A postdoctoral position is available at the Department of Radiology at Johns Hopkins University School of Medicine and the F.M. Kirby Research Center for Functional Brain Imaging at Kennedy Krieger Institute, Baltimore, MD, under the supervision of Dr. Hye-Young Heo, with additional mentorship by Drs. Peter van Zijl and Jinyuan Zhou. The research focuses on development of MRI acquisition and analysis techniques for fast, quantitative chemical exchange saturation transfer (CEST) imaging. In particular, we are seeking a candidate with interest and/or expertise in MR fingerprinting (MRF) acquisition (pulse sequence programming) and CEST parameter quantification using deep-learning techniques.

Requirements and preferred experience: A PhD in biomedical, electrical engineering, computer science, physics, or a related field is required. The candidate should have first-hand experience in MR physics, pulse sequence programming and/or image reconstruction algorithms. It is desirable that the candidate has had experience with the Siemens IDEA environment and Keras/Tensorflow platforms.

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 up to four years.

Environment: The position will be at the Radiology Department of the Johns Hopkins University (JHU) School of Medicine. JHU has a world-renowned Radiology program, ranked #1 (tie) in the 2020 US News rankings. We have 1.5T, 3T and 7T Philips and Siemens human scanners dedicated for research only. Preclinical imaging facilities at JHU and the Kennedy Krieger Institute 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. Hye-Young Heo, Division of MR Research, Department of Radiology, Johns Hopkins University School of Medicine, email: hheo1@jhmi.edu.