Yongxian Qian, PhD.

Assistant Professor of Radiology at New York University (NYU) Grossman School of Medicine.

Dr. Qian focuses his research on MRI technology development and clinical applications. Dr. Qian has developed multiple MRI pulse sequences for ultrashort echo time (UTE) imaging (AWSOS sequence), sodium (23Na) imaging (TPI sequence), and local neuronal firing detection (quantum-sensing MRI). Dr. Qian has applied these unique MRI techniques to the brain tumor evaluation of treatment response, knee osteoarthritis detection at early stage, and cerebrospinal fluid (CSF) clearance assessment in normal aging and Alzheimer's disease (AD). Dr. Qian is a full member of ISMRM and served as member of the ISMRM Young Investigator Award subcommittee 2016-2019. Dr. Qian is also a Principal Investigator (PI) of a NIH-funded R01 project to study CSF clearance in aging and AD brains using dynamic sodium MRI.

Speech Title: CSF Bulk Flow in the Human Brain via Dynamic Sodium (23Na) MRI.