



Dan Ma, Ph.D.

Dr. Dan Ma is a tenured Associate Professor in the Departments of Neurosurgery and Biomedical Engineering at Duke University. She received her B.S. from Zhejiang University and her Ph.D. in Biomedical Engineering from Case Western Reserve University.

Dr. Ma's research focuses on the development and clinical translation of novel quantitative MRI technologies. She is a key inventor of MR Fingerprinting (MRF), a groundbreaking quantitative MRI framework first reported in *Nature*. Her work has helped establish MRF as a powerful platform for generating reproducible, quantitative imaging markers that can improve disease detection, characterization, and treatment monitoring.

A major theme of Dr. Ma's work is bridging technical innovation and real-world clinical impact. Her inventions in MRF have received FDA clearance and have been licensed by major imaging vendors. Dr. Ma holds 25 U.S. patents and 2 international patents. She is also a Senior Member of the National Academy of Inventors.

Dr. Ma leads a highly collaborative and well-funded research program. She has served as Principal Investigator on five NIH R01 grants with collaborations across international institutions and industry. Her NIH-supported work includes quantitative MRI for epilepsy, brain tumors, breast cancer, prostate cancer, and infant imaging.

Dr. Ma has published over 80 peer-reviewed papers, with more than 9,500 citations, an h-index of 43, and an i10-index of 78. Her publications include papers in *Nature*, *PNAS*, *Radiology*, *Magnetic Resonance in Medicine*, *Journal of MRI*, and other leading journals. She also serves as chief editor of the Elsevier book *Magnetic Resonance Fingerprinting for Quantitative MRI*.

Her contributions have been recognized through numerous honors, including the ISMRM I.I. Rabi Young Investigator Award, ISMRM Junior Fellow, Outstanding Teacher Award, and Crain's Cleveland 40 Under 40. She is deeply engaged in national and international service, including as a standing member of the NIH Emerging Imaging Technologies and Applications (EITA) study section, former Chair of the ISMRM Quantitative MR Study Group, former Chair of the Acquisition and Reconstruction Section of the ISMRM Annual Meeting Program Committee, and former Chair of Cross-Cutting and Emerging Technologies in the ISMRM Education Committee. She also serves on the editorial board of *Magnetic Resonance in Medicine*.