



OCSMRM YIA 2022

2022 OCSMRM YIA Committee Members



Dr. Guanshu Liu, Johns Hopkins Univ.

Dr. Hua Guo, Tsinghua Univ.

Dr. Chuan Huang, Stony Brook Univ.

Dr. Shanshan Jiang, Johns Hopkins Univ.

Dr. Fan Lam, UIUC

Dr. Yao Li, Shanghai Jiaotong Univ.

Dr. Jing Liu, UCSF

Dr. Dan Ma, Case Western Reserve Univ.

Dr. Dan Wu, Zhejiang Univ.

Dr. Rong Xue, Institute of Biophysics, CAS

OCSMRM Young Investigator Award (YIA) 3rd Place



Chongxue Bie
PhD student
Northwest Univ. China
Johns Hopkins Univ., USA

Zhou Y*, Bie C*, van Zijl PCM, Xu J, Zou C, Yadav NN.
Detection of electrostatic molecular binding using the water proton signal.
Magnetic Resonance in Medicine. 2022;1-5.



Mentors: Xiaolei Song, Ph.D.; Peter van Zijl, Ph.D.; Nirbhay Yadav, Ph.D.

Bie C, Li Y, Zhou Y, Bhujwala ZM, Song X, Liu G, van Zijl PCM, Yadav NN.
Deep learning-based classification of preclinical breast cancer tumor models using chemical exchange saturation transfer magnetic resonance imaging.
NMR in Biomedicine. 2022; 35(2):e4626.

OCSMRM Young Investigator Award (YIA) 3rd Place



Jing Cheng, PhD
Postdoc

Shenzhen Institutes of
Advanced Technology, Chinese
Academy of Sciences



Mentor: Dong Liang, PhD

Jing Cheng, Zhuo-Xu Cui, Wenqi Huang,
Ziwen Ke, Leslie Ying, Haifeng Wang,
Yanjie Zhu, Dong Liang
**Learning Data Consistency and its
Application to Dynamic MR Imaging.**
IEEE Transactions on Medical Imaging,
2021; 40(11):3140-3153.

OCSMRM Young Investigator Award (YIA) 3rd Place



Chunyan Luo, MD, PhD
Postdoc
West China Hospital of
Sichuan University, China



Mentor: Su Lui, MD, PhD

Luo C, Pi X, Hu N, Wang X, Xiao Y, Li S,
Sweeney JA, Bishop JR, Gong Q, Xie D,
Lui S.

**Subtypes of schizophrenia identified by
multi-omic measures associated with
dysregulated immune function.**

Mol Psychiatry 2021;26(11):6926-6936.

OCSMRM Young Investigator Award (YIA) 3rd Place



Ruixi Zhou, PhD

Postdoc

Beijing University of Posts
and Telecommunications



Mentor:

Michael Salerno, PhD
Stanford University

Zhou RZ, Wang JY, Weller DS, Yang Y,
Mugler JP, Salerno M.

**Free-breathing self-gated continuous-
IR spiral T1 mapping: Comparison of
dual flip-angle and Bloch-Siegert B1-
corrected techniques.**

Magn Reson Med. 2022. In Production.

OCSMRM Young Investigator Award (YIA) 3rd Place



Dan Zhu, Michael Schär, Qin Qin

Ultrafast B1 mapping with RF-prepared 3D FLASH acquisition: Correcting the bias due to T1-induced k-space filtering effect

Magn Reson Med. 2022; doi:
10.1002/mrm.29247

Dan Zhu, PhD
Postdoc
Kennedy Krieger Institute

Mentor:
Peter C.M. van Zijl, PhD

OCSMRM Young Investigator Award (YIA) 2nd Place



Hongli Fan

PhD student
Johns Hopkins University
School of Medicine



Mentor: Hanzhang Lu, PhD

Fan H, Su P, Lin DDM, Goldberg EB, Walker A,
Leigh R, Hillis AE, Lu H.

**Simultaneous Hemodynamic and Structural
Imaging of Ischemic Stroke With Magnetic
Resonance Fingerprinting Arterial Spin
Labeling.**

Stroke. 2022. doi:STROKEAHA. 121.037066.

OCSMRM Young Investigator Award (YIA) 2nd Place



Guanhua Wang
PhD student
University of Michigan



Mentors: Jeffrey A. Fessler, PhD
Douglas C. Noll, PhD



Wang G, Luo T, Nielsen JF, Noll DC, Fessler JA.

**B-spline Parameterized Joint Optimization of Reconstruction and K-space Trajectories (BJORK)
for Accelerated 2D MRI.**

IEEE Transactions on Medical Imaging 2022; in press.

OCSMRM Young Investigator Award (YIA) 2nd Place



Qingqing Wen
PhD student
Zhejiang University



Mentor:
Yi Zhang, PhD

Wen Q, Wang K, Hsu YC, Xu Y, Sun Y, Wu D,
Zhang Y.

**Chemical exchange saturation transfer imaging
for epilepsy secondary to tuberous sclerosis
complex at 3 T: Optimization and analysis.**
NMR in Biomedicine 2021; 34(9): e4563. (cover)

OCSMRM Young Investigator Award (YIA) FIRST Place



Yudu Li

Ph.D. Student
University of Illinois at
Urbana-Champaign

Mentors:

Zhi-Pei Liang, PhD
Wei Chen, PhD



Li Y, Zhao Y, Guo R, Wang T, Zhang Y, Chrostek M, Low WC, Zhu X-H,
Liang Z-P, Chen W.

**Machine learning-enabled high-resolution deuterium MR
spectroscopic imaging for dynamic metabolic imaging of brain
cancer.**

IEEE Trans Med Imaging. 2021;40:3879-3890.