Stanford

Shen Zhao

Postdoctoral Scholar, Cardiovascular Medicine

Bio

HONORS AND AWARDS

- SCMR Early Career Award - Basic Science, SCMR (2023)
- The OSU College of Engineering Exemplary Graduate Student Research Award, The Ohio State University (2022)
- 2nd Place Poster Award for ISMRM Workshop on Data Sampling & Image Reconstruction, ISMRM (2020)
- 1st Place for ISMRM Cardiac MR Study Group Abstract Award, ISMRM (2018)
- ISMRM Summa Cum Laude Merit Award, ISMRM (2018)

PROFESSIONAL EDUCATION

- Postdoc, Stanford University , Signal Processing and Medical Imaging (2023)
- Ph.D., The Ohio State University , Electrical and Computer Engineering (2022)
- M.S., The Ohio State University , Electrical and Computer Engineering (2017)
- B.S., Nanjing University of Aeronautics and Astronautics , Electrical and Electronics Engineering (2015)

STANFORD ADVISORS

- Michael Salerno, Postdoctoral Faculty Sponsor
- Michael Salerno, Postdoctoral Research Mentor

PATENTS

- Shen Zhao, Rizwan Ahmad, Lee Potter. "United States Patent US20220244333A1 High-dimensional fast convolutional framework (HICU) for calibrationless MRI", Ohio State Innovation Foundation, Aug 4, 2022
- Shen Zhao, Rizwan Ahmad, David Tucker, Lee C. Potter. "United States Patent T2022-060 Venc design and velocity estimation for phase-contrast MRI", Ohio State Innovation Foundation, Sep 16, 2021

Publications

PUBLICATIONS

- **Venc Design and Velocity Estimation for Phase Contrast MRI** *IEEE TRANSACTIONS ON MEDICAL IMAGING*
  Zhao, S., Ahmad, R., Potter, L. C.
  2022; 41 (12): 3712-3724
- **High-dimensional fast convolutional framework (HICU) for calibrationless MRI (vol 86, pg 1212, 2021)** *MAGNETIC RESONANCE IN MEDICINE*
  Zhao, S., Potter, L. C., Ahmad, R.
  2022; 87 (6): 3027
- **Alias-Free Arrays.** *IEEE signal processing letters*

Tucker, D., Zhao, S., Ahmad, R., Potter, L. C.
2022; 29: 2457-2461

- **MAXIMIZING UNAMBIGUOUS VELOCITY RANGE IN PHASE-CONTRAST MRI WITH MULTIPOINT ENCODING**
  Zhao, S., Ahmad, R., Potter, L. C., IEEE
  IEEE.2022

- **CALIBRATIONLESS MRI RECONSTRUCTION WITH A PLUG-IN DENOISER**
  Zhao, S., Potter, L. C., Ahmad, R., IEEE
  IEEE.2021: 1846-1849

- **CONVOLUTIONAL FRAMEWORK FOR ACCELERATED MAGNETIC RESONANCE IMAGING**
  Zhao, S., Potter, L. C., Lee, K., Ahmad, R., IEEE
  IEEE.2020: 1065-1068