Qing Wu

wuqing@shanghaitech.edu.cn
https://iwuqing.github.io
google scolar
https://github.com/iwuqing

Research Interests

- A variety of topics related to **inverse problems in medical imaging**, such as CT metal artifact reduction, undersampling CT imaging, spectral CT, and high-resolution MRI reconstruction, etc.

Education

ShanghaiTech University **2020.09 - 2025.07 (Expected)**

- Ph.D. student in Electronic Science and Technology
- Major GPA: 3.78/4.00
- Advisor: Prof. Yuyao Zhang
- Outstanding Student of ShanghaiTech University, 2020–2021

China University of Geosciences, Wuhan **2016.09 - 2020.07**

- B.Eng. in Communication Engineering

Selected Publications

- Qing Wu, Lixuan Chen, Ce Wang, Hongjiang Wei, S Kevin Zhou, Jingyi Yu, Yuyao Zhang | **Unsupervised Polychromatic Neural Representation for CT Metal Artifact Reduction** | NeurIPS 2023
- Qing Wu, Ruimin Feng, Hongjiang Wei, Jingyi Yu, Yuyao Zhang | **Self-Supervised Coordinate Projection Network for Sparse-View Computed Tomography** | IEEE TCI
- Qing Wu, Xin Li, Hongjiang Wei, Jingyi Yu, Yuyao Zhang | **Joint Rigid Motion Correction and Sparse-View CT via Self-Calibrating Neural Field** | IEEE ISBI 2023
- Qing Wu, Yuwei Li, Yawen Sun, Yan Zhou, Hongjiang Wei, Jingyi Yu, Yuyao Zhang | **An Arbitrary Scale Super-Resolution Approach for 3D MR Images via Implicit Neural Representation** | IEEE J-BHI
- Qing Wu, Yuwei Li, Lan Xu, Ruiming Feng, Hongjiang Wei, Qing Yang, Boliang Yu, Xiaozhao Liu, Jingyi Yu, Yuyao Zhang | **IREM: High-Resolution Magnetic Resonance Image Reconstruction via Implicit Neural Representation** | MICCAI 2021
- Chaolin Rao#, Qing Wu#, Pingqiang Zhou, Jingyi Yu, Yuyao Zhang, Xin Lou | **An Energy-Efficient Accelerator for Medical Image Reconstruction From Implicit Neural Representation** | IEEE TCAS-I

Academic Service

- **Reviewer for Conferences**: MICCAI 2023, IEEE ISBI 2024
- **Reviewer for Journals**: IEEE J-BHI, Journal of Computational Design and Engineering
- **Volunteer**: ASSIST 2023

Skills

- **Programming Language**: Python, Matlab, C
- **Software & Framework**: Pycharm, VS Code, GitHub, LATEX, ITK-SNAP, Pytorch
- **Language**: Mandarin (Native Speaker), English (CET-6, ONLY enough for research)