

# Qing Wu

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## EDUCATION

### ShanghaiTech University

Shanghai, China

- Ph.D. Student in *Electronic Science and Technology*

Sep 2020 – Jul 2025 (Expected)

- Adviser: [Prof. Yuyao Zhang](#)

- Focus: *Inverse Problems in Medical Imaging (e.g., CT and MRI reconstruction)*

### China University of Geosciences, Wuhan

Hubei, China

- B.S. in *Communication Engineering*

Sep 2016 – Jul 2020

## RESEARCH EXPERIENCE

### Smart Medical Image Learning & Enhancement (SMILE) LAB

Shanghai, China

- Ph.D. Student

Sep 2020 – Present

- Adviser: [Prof. Yuyao Zhang](#)

- Project: *Unsupervised Model-driven Deep Neural Representation for CT Reconstruction*

- Focus: *Sparse-View CT, CT Metal Artifact Reduction, CT Self-Calibration, MRI Super-Resolution, etc.*

## SELECTED PUBLICATIONS

### JOURNALS

[J1] Qing Wu, Ruimin Feng, Hongjiang Wei, Jingyi Yu, Yuyao Zhang, “[Self-Supervised Coordinate Projection Network for Sparse-View Computed Tomography](#)”, *IEEE Transactions on Computational Imaging (IEEE TCI)*

[J2] 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 Journal of Biomedical and Health Informatics (IEEE J-BHI)*

[J3] 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 Transactions on Circuits and Systems I: Regular Papers (IEEE TCAS-I)*

### CONFERENCES

[C1] Qing Wu, Lixuan Chen, Ce Wang, Hongjiang Wei, S. Kevin Zhou, Jingyi Yu, Yuyao Zhang, “[Unsupervised Polychromatic Neural Representation for CT Metal Artifact Reduction](#)”, *Thirty-seventh Conference on Neural Information Processing Systems (NeurIPS 2023)*

[C2] Qing Wu, Yuwei Li, Lan Xu, Ruimin Feng, Hongjiang Wei, Qing Yang, Boliang Yu, Xiaozhao Liu, Jingyi Yu, Yuyao Zhang, “[IREM: High-Resolution Magnetic Resonance Image Reconstruction via Implicit Neural Representation](#)”, *24th International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI 2021)*

[C3] Qing Wu, Xin Li, Hongjiang Wei, Jingyi Yu, Yuyao Zhang, “[Joint Rigid Motion Correction and Sparse-View CT via Self-Calibrating Neural Field](#)”, *IEEE 20th International Symposium on Biomedical Imaging (IEEE ISBI 2023)*

## TEACHING EXPERIENCE

### CS276: Computational Photography, ShanghaiTech University

Shanghai, China

- Guest Lecture

Fall, 2022/2023

- Instructor: [Prof. Jingyi Yu](#)

### CS270B: Advanced Digital Image Processing, ShanghaiTech University

Shanghai, China

- Teaching Assistant

Spring, 2023

- Instructor: [Prof. Yuyao Zhang](#)

## AWARDS & SCHOLARSHIPS

### Outstanding Student, ShanghaiTech University

2022 – 2023

- *Top 5% students selected by Reward and Punishment Committee of ShanghaiTech University.*

### Merit Student, ShanghaiTech University

2020 – 2021

- *Top 10% students selected by Reward and Punishment Committee of ShanghaiTech University.*

**ACADEMIC  
SERVICE**

**Reviewer for Journals**

- *IEEE Transactions on Computational Imaging (IEEE TCI)*
- *IEEE Journal of Biomedical and Health Informatics (IEEE J-BHI)*
- *Journal of Computational Design and Engineering*

**Reviewer for Conferences**

- *International Conference on Machine Learning (ICML 2024)*
- *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2024)*
- *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI 2023/2024)*
- *IEEE International Symposium on Biomedical Imaging (IEEE ISBI 2024)*

**Volunteer**

- *Annual ShanghaiTech Symposium on Information Science and Technology (ASSIST 2023)*

**LANGUAGES**

- Mandarin: Native language.
- English: Intermediate (reading, writing).

**SKILLS**

LaTeX, Python, MATLAB, ITK-SNAP, Pytorch, Microsoft Word, Microsoft PowerPoint, etc.

**INTERESTS**

Esports (e.g., CS2, League of Legends), Music, Sleeping.

**REFERENCES**

- **Prof. Yuyao Zhang**  
Assistant Professor of School of Information Science and Technology  
ShanghaiTech University  
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