

Qing Wu

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EDUCATION

ShanghaiTech University

- Ph.D. Student in *Electronic Science and Technology*
- Advisor: [Prof. Yuyao Zhang](#)
- Focus: *Inverse Problems in Medical Imaging (e.g., CT and MRI reconstruction)*

Shanghai, China
Sep 2020 – Jul 2025 (Expected)

China University of Geosciences, Wuhan

- B.S. in *Communication Engineering*

Hubei, China
Sep 2016 – Jul 2020

RESEARCH EXPERIENCE

Smart Medical Image Learning & Enhancement (SMILE) LAB

- Ph.D. Student
- Advisor: [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.*

Shanghai, China
Sep 2020 – Present

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

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

Shanghai, China
2022/2023 Fall

CS270B: Advanced Digital Image Processing, ShanghaiTech University

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

Shanghai, China
2023 Spring

AWARDS & SCHOLARSHIPS

Outstanding Student, ShanghaiTech University

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

2022 – 2023

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

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

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

INTERESTS

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

REFERENCES

- **Prof. Yuyao Zhang**
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