Qing Wu

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EDUCATION	

ShanghaiTech University — Shanghai, China

- Ph.D. Student in *Electronic Science and Technology* — Sep 2020 – Jul 2025 (Expected)
- Advisor: Prof. Yuyao Zhang
- Focus: *Inverse Problems in Medical Imaging*

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
- Advisor: Prof. Yuyao Zhang
- Project: *Unsupervised Model-driven Neural Representation for CT Reconstruction*
- Focus: *Sparse-View CT, CT Metal Artifact Reduction, CT 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 — 2022/2023 Fall
- Instructor: Prof. Jingyi Yu

CS270B: Advanced Digital Image Processing, ShanghaiTech University — Shanghai, China

- Teaching Assistant — 2023 Spring

- 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.*

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**
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  ShanghaiTech University
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