

Qing Wu

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Research interests

Inverse Problems in Medical Imaging, Neural Representations.

Education

2020 – PRESENT	ShanghaiTech University – Ph.D. Candidate in <i>Electronic Science and Technology</i> – Advisor: Prof. Yuyao Zhang	Shanghai, China
2016 – 2020	China University of Geosciences, Wuhan – B.S. in <i>Communication Engineering</i>	Hubei, China

Selected publications

PREPRINT	Qing Wu , Hongjiang Wei, Jingyi Yu, Yuyao Zhang, “ Unsupervised Multi-Parameter Inverse Solving for Reducing Ring Artifacts in 3D X-Ray CBCT ”, <i>arXiv preprint arXiv:2412.05853</i>
ICLR 2025 SPOTLIGHT	Qing Wu *, Chenhe Du*, XuanYu Tian, Jingyi Yu, Yuyao Zhang, Hongjiang Wei, “ Moner: Motion Correction in Undersampled Radial MRI with Unsupervised Neural Representation ”, <i>13th International Conference on Learning Representations</i>
NEURIPS 2023	Qing Wu , Lixuan Chen, Ce Wang, Hongjiang Wei, S. Kevin Zhou, Jingyi Yu, Yuyao Zhang, “ Unsupervised Polychromatic Neural Representation for CT Metal Artifact Reduction ”, <i>37th Conference on Neural Information Processing Systems</i>
IEEE TCI 2023	Qing Wu , Ruimin Feng, Hongjiang Wei, Jingyi Yu, Yuyao Zhang, “ Self-Supervised Co-ordinate Projection Network for Sparse-View Computed Tomography ”, <i>IEEE Transactions on Computational Imaging</i>
IEEE ISBI 2023	Qing Wu , Xin Li, Hongjiang Wei, Jingyi Yu, Yuyao Zhang, “ Joint Rigid Motion Correction and Sparse-View CT via Self-Calibrating Neural Field ”, <i>IEEE 20th International Symposium on Biomedical Imaging</i>
IEEE TCAS-I 2023	Chaolin Rao*, Qing Wu *, Pingqiang Zhou, Jingyi Yu, Yuyao Zhang, Xin Lou, “ An Energy-Efficient Accelerator for Medical Image Reconstruction From Implicit Neural Representation ”, <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i>

IEEE J-BHI 2022	<u>Qing Wu</u> , 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 ”, <i>IEEE Journal of Biomedical and Health Informatics</i>
MICCAI 2021	<u>Qing Wu</u> , 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 ”, <i>24th International Conference on Medical Image Computing and Computer Assisted Intervention</i>

Patents

Yu Jingyi, Zhang Yuyao, Lou Xin, Wu Qing, Rao Chaolin, Yang Jiawen, “**Real-time volumetric rendering**”, *WO2023284275A1/CN117651975A*

Yu Jingyi, Zhang Yuyao, Xu Lan, Li Yuwei, Wu Qing, “**Method for high-resolution image reconstruction**”, *WO2023283795A1/CN115619632A*

Yu Jingyi, Zhang Yuyao, Wu Qing, “**System and method for near real-time and unsupervised coordinate projection network for computed tomography images reconstruction**”, *WO2024078049A1*

Teaching experience

FALL 2022/2023	CS276: Computational Photography – Position: Guest Lecture – Instructor: Prof. Jingyi Yu	ShanghaiTech University
SPRING 2023	CS270B: Advanced Digital Image Processing – Position: Teaching Assistant – Instructor: Prof. Yuyao Zhang	ShanghaiTech University

Honors and scholarships

2023 – 2024	Outstanding Student (Top 5%)	ShanghaiTech University
2022 – 2023	Outstanding Student (Top 5%)	ShanghaiTech University
2020 – 2021	Merit Student (Top 10%)	ShanghaiTech University

Academic service

REVIEWER	Conferences: <i>NeurIPS 2025/2024, ICML 2025/2024, ICLR 2025, CVPR 2025/2024, MICCAI 2025/2024/2023, AISTATS 2025, AAAI 2025, IEEE ISBI 2024</i> Journals: <i>MedIA, IEEE TNNLS, IEEE TCI, IEEE J-BHI, JCDE</i>	
VOLUNTEER	Conference: <i>ASSIST 2023</i>	

Technical skills

Programming languages: Python, MATLAB

Software: L^AT_EX, Git, ITK-SNAP, Microsoft Word, Microsoft PowerPoint, etc.

Languages: Mandarin (native), English (basic)

Other interests

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