

# Qing Wu PH.D.

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## Research interests

Inverse Problems in Medical Imaging, Neural Representations.

## Education

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|-------------|---|-----------------|
| 2020 – 2025 | <b>ShanghaiTech University</b><br>– Ph.D. in <i>Electronic Science and Technology</i><br>– Advisor: <a href="#">Prof. Yuyao Zhang</a> | Shanghai, China |
| 2016 – 2020 | <b>China University of Geosciences, Wuhan</b><br>– B.S. in <i>Communication Engineering</i>   | Hubei, China    |

## Selected publications

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|------------------------|--|
| AAAI 2026              | <a href="#">Qing Wu</a> , Hongjiang Wei, Jingyi Yu, Yuyao Zhang, “ <a href="#">Unsupervised Multi-Parameter Inverse Solving for Reducing Ring Artifacts in 3D X-Ray CBCT</a> ”, <i>40th Annual AAAI Conference on Artificial Intelligence</i>  |
| ICLR 2025<br>SPOTLIGHT | <a href="#">Qing Wu*</a> , Chenhe Du*, XuanYu Tian, Jingyi Yu, Yuyao Zhang, Hongjiang Wei, “ <a href="#">Moner: Motion Correction in Undersampled Radial MRI with Unsupervised Neural Representation</a> ”, <i>13th International Conference on Learning Representations</i>           |
| NEURIPS 2023           | <a href="#">Qing Wu</a> , Lixuan Chen, Ce Wang, Hongjiang Wei, S. Kevin Zhou, Jingyi Yu, Yuyao Zhang, “ <a href="#">Unsupervised Polychromatic Neural Representation for CT Metal Artifact Reduction</a> ”, <i>37th Conference on Neural Information Processing Systems</i>            |
| IEEE TCI<br>2023       | <a href="#">Qing Wu</a> , Ruimin Feng, Hongjiang Wei, Jingyi Yu, Yuyao Zhang, “ <a href="#">Self-Supervised Co-ordinate Projection Network for Sparse-View Computed Tomography</a> ”, <i>IEEE Transactions on Computational Imaging</i>  |
| IEEE ISBI<br>2023      | <a href="#">Qing Wu</a> , Xin Li, Hongjiang Wei, Jingyi Yu, Yuyao Zhang, “ <a href="#">Joint Rigid Motion Correction and Sparse-View CT via Self-Calibrating Neural Field</a> ”, <i>IEEE 20th International Symposium on Biomedical Imaging</i>  |
| IEEE TCAS-I<br>2023    | Chaolin Rao*, <a href="#">Qing Wu*</a> , Pingqiang Zhou, Jingyi Yu, Yuyao Zhang, Xin Lou, “ <a href="#">An Energy-Efficient Accelerator for Medical Image Reconstruction From Implicit Neural Representation</a> ”, <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> |

IEEE J-BHI 2022	Qing Wu, Yuwei Li, Yawen Sun, Yan Zhou, Hongjiang Wei, Jingyi Yu, Yuyao Zhang, “ <b>An Arbitrary Scale Super-Resolution Approach for 3D MR Images via Implicit Neural Representation</b> ”, <i>IEEE Journal of Biomedical and Health Informatics</i>
MICCAI 2021	Qing Wu, Yuwei Li, Lan Xu, Ruimin Feng, Hongjiang Wei, Qing Yang, Boliang Yu, Xiaozhao Liu, Jingyi Yu, Yuyao Zhang, “ <b>IREM: High-Resolution Magnetic Resonance Image Reconstruction via Implicit Neural Representation</b> ”, <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	<b>CS276: Computational Photography</b> – Position: Guest Lecture – Instructor: <b>Prof. Jingyi Yu</b>	ShanghaiTech University
SPRING 2023	<b>CS270B: Advanced Digital Image Processing</b> – Position: Teaching Assistant – Instructor: <b>Prof. Yuyao Zhang</b>	ShanghaiTech University

## Honors and scholarships

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

## Academic service

REVIEWER	<b>Conferences:</b> <i>ICLR’26/’25, NeurIPS’25/’24, ICML’25/’24, CVPR’26/’25/’24, AIS-TATS’26/’25, AAAI’26/’25, MICCAI’25/’24/’23, IEEE ISBI’24</i> <b>Journals:</b> <i>MedIA, IEEE TNNLS, IEEE TCI, IEEE J-BHI, JCDE</i>	
VOLUNTEER	<b>Conference:</b> <i>ASSIST 2023</i>	

## Technical skills

**Programming languages:** Python, MATLAB

**Software:** L<sup>A</sup>T<sub>E</sub>X, Git, ITK-SNAP, Microsoft Word, Microsoft PowerPoint, etc.

**Languages:** Mandarin (native), English (basic)

## Other interests

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