# Qing Wu

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Google Scholar: https://scholar.google.com/citations?user=A1E80HUAAAAJ

#### Research interests

Inverse Problems in Medical Imaging, Neural Representations.

## Education

### 2020 - Present ShanghaiTech University

2022

Shanghai, China

- Ph.D. Candidate in *Electronic Science and Technology*
- Advisor: Prof. Yuyao Zhang

#### 2016 – 2020 China University of Geosciences, Wuhan

Hubei, China

- B.S. in Communication Engineering

# Selected publications

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", Thirty-seventh Conference on Neural Information Processing Systems.

IEEE TCI 2023 Qing Wu, Ruimin Feng, Hongjiang Wei, Jingyi Yu, Yuyao Zhang, "Self-Supervised Co-

ordinate Projection Network for Sparse-View Computed Tomography", IEEE Trans-

actions on Computational Imaging.

IEEE ISBI 2023 Qing Wu, Xin Li, Hongjiang Wei, Jingyi Yu, Yuyao Zhang, "Joint Rigid Motion Correc-

tion and Sparse-View CT via Self-Calibrating Neural Field", IEEE 20th International

Symposium on Biomedical Imaging.

IEEE TCAS-I Chaolin Rao\*, Qing Wu\*, Pingqiang Zhou, Jingyi Yu, Yuyao Zhang, Xin Lou, "An

2023 Energy-Efficient Accelerator for Medical Image Reconstruction From Implicit Neural

Representation", IEEE Transactions on Circuits and Systems I: Regular Papers.

IEEE J-BHI 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.

MICCAI 2021 — 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 Confer-

ence on Medical Image Computing and Computer Assisted Intervention.

# **P**atents

WO2023284275A1 CN117651975A Yu Jingyi, Zhang Yuyao, Lou Xin, <u>Wu Qing</u>, Rao Chaolin, Yang Jiawen, "Real-time volumetric rendering", *Filing date:* 2022-01-11, *Publication date:* 2023-01-19.

WO2023283795A1 CN115619632A

Yu Jingyi, Zhang Yuyao, Xu Lan, Li Yuwei, <u>Wu Qing</u>, "Method for high-resolution image reconstruction", *Filing date: 2021-07-12*, *Publication date: 2023-01-19*.

WO2024078049A1

Yu Jingyi, Zhang Yuyao, Wu Qing, "System and method for near real-time and unsupervised coordinate projection network for computed tomography images reconstruction", Filing date: 2023-06-30, Publication date: 2024-04-18.

# Teaching experience

Fall 2022/2023 CS276: Computational Photography

Shanghaitech University

Position: Guest LectureInstructor: Prof. Jingyi Yu

Spring 2023 CS276: Computational Photography

Shanghaitech University

Position: Teaching AssistantInstructor: Prof. Yuyao Zhang

Honors and scholarships

2023 Outstanding Student (Top 5%)

ShanghaiTech University

2021 Merit Student (Top 10%)

ShanghaiTech University

## Academic service

Reviewer

 $\textbf{Conferences:} \ \text{ICML 2024, CVPR 2024, MICCAI 2023/2024, IEEE ISBI 2024}$ 

Journals: IEEE TCI, IEEE J-BHI, JCDE

Volunteer

Conference: ASSIST 2023

#### Technical skills

Programming languages: Python, MATLAB

Software: LATEX, Git, ITK-SNAP, Microsoft Word, Microsoft PowerPoint, etc.

Languages: Mandarin (Native), English (basic)

#### Other interests

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