

# XUANYU TIAN

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## RESEARCH INTEREST

Computational Imaging  
Inverse Problems in Medical Imaging

## EDUCATION

**ShanghaiTech University**

Shanghai, China

*Ph.D. Candidate in Computer Science*

2021 - 2026 (*Expected*)

- Advisor: Prof. Yuyao Zhang

**Wuhan University of Technology**

Hubei, China

*B.E. in Computer Science and Technology*

2017 - 2021

## PUBLICATIONS

1. Xuanyu Tian, Qing Wu, Hongjiang Wei, Yuyao Zhang, “Noise2SR: Learning to denoise from super-resolved single noisy fluorescence image”, *MICCAI*, 2022.
2. Changhao Jiang\*, Xuanyu Tian\*, Yanbin Li, Jiangjie Wu, Xin Mu, Lei Zhang, Yuyao Zhang, “Self-Supervised High-Dimensional Magnetic Resonance Image Denoising Using Super-Resolved Single Noisy Image”, *IEEE ISBI*, 2023.
3. Xuanyu Tian, Zhuoya Dong, Xiyue Lin, Yue Gao, Hongjiang Wei, Yanhang Ma, Jingyi Yu, Yuyao Zhang, “Zero-Shot Image Denoising for High-Resolution Electron Microscopy”, *IEEE Transactions on Computational Imaging*.
4. Lixuan Chen\*, Xuanyu Tian\*, Jiangjie Wu, Guoyan Lao, Yuyao Zhang, Hongjiang wei, “COLLATOR: Consistent spatial-temporal longitudinal atlas construction via implicit neural representation”, *Medical Image Analysis*.
5. Shuyang Lai, Xuanyu Tian, Qing Wu, Chenhe Du, Xiaojun Xu, Hongjiang Wei, Xiaojun Guan, Yuyao Zhang, “Reconstructing Knee CT Volumes from Biplanar X-Rays Via Self-Supervised Neural Field”, *IEEE ISBI*, 2024.
6. Xiyue Lin, Chenhe Du, Qing Wu, Xuanyu Tian, Jingyi Yu, Yuyao Zhang, Hongjiang Wei, “Zero-Shot Low-Field MRI Enhancement via Denoising Diffusion Driven Neural Representation”, *MICCAI*, 2024.
7. Chenhe Du, Xiyue Lin, Qing Wu, Xuanyu Tian, Ying Su, Zhe Luo, Hongjiang Wei, S Kevin Zhou, Jingyi Yu, Yuyao Zhang, “DPER: Diffusion Prior Driven Neural Representation for Limited Angle and Sparse View CT Reconstruction”, *IEEE Transactions on Medical Imaging*, (Under Review).
8. Lixuan Chen, Xuanyu Tian, Jiangjie Wu, Ruimin Feng, Guoyan Lao, Yuyao Zhang, Hongjiang Wei, “JSMoCo: Joint Coil Sensitivity and Motion Correction in Parallel MRI with a Self-Calibrating Score-Based Diffusion Model”, *Medical Image Analysis*, (Under Review).

## TEACHING EXPERIENCE

**CS270B: Advanced Digital Image Processing**

Spring 2023

*ShanghaiTech University*

- Position: Teaching Assistant
- Instructor: Prof. Yuyao Zhang

## ACADEMIC SERVICES

Journals Reviewer: *IEEE Transactions on Pattern Analysis and Machine Intelligence*.

Conferences Reviewer: *MICCAI 2024; ISBI 2024, 2025*

## SKILLS

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

**Programming:** Python, MATLAB.