Zhenxing Dong

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Education

Shanghai Jiao Tong University   Sep. 2020 – Present

Ph.D. student in Information and Communication Engineering
Advisor: Prof. Yuye Ling

South China University of Technology   Sep. 2016 – Jun. 2020

B.S. in Information Engineering

Research Interests

- Holography; Computational Displays and Imaging; Algorithm-hardware Co-design

Peer-review Publications

* denotes equal contribution

- **Zhenxing Dong**, Yuye Ling, Yan Li, Yikai Su, "Motion Hologram: Jointly optimized hologram generation and motion planning for photorealistic 3D displays via reinforcement learning." *Science Advances (Accepted)*, 2025
- **Zhenxing Dong***, Jidong Jia*, Yuye Ling, Yan Li, "Divide-Conquer-and-Merge: Memory-and Time-Efficient Holographic Displays." *IEEE Conference on Virtual Reality and 3D User Interfaces (VR)*, 2024
- **Zhenxing Dong**, Yuye Ling, Chao Xu, Yan Li, Yikai Su, "Gaze-contingent efficient hologram compression for foveated near-eye holographic displays." *Displays*, 2023
- **Zhenxing Dong**, Chao Xu, Yuye Ling, Yan Li, Yikai Su, "Fourier-inspired neural module for real-time and high-fidelity computer-generated holography." *Optics Letters*, 2023
- Yuye Ling*, **Zhenxing Dong***, Xueshen Li, Yu Gan, Yikai Su, "Deep learning empowered highly compressive SS-OCT via learnable spectral–spatial sub-sampling" *Optics Letters*, 2023
- Xueshen Li, **Zhenxing Dong**, Hongshan Liu, Jennifer J Kang-Mieler, Yuye Ling, Yu Gan, "Frequency-aware optical coherence tomography image super-resolution via conditional generative adversarial neural network." *Biomedical Optics Express*, 2023
- Mengyuan Wang, Yuye Ling, **Zhenxing Dong**, Xinwen Yao, Yu Gan, Chuanqing Zhou, Yikai Su, "GPU-accelerated iterative method for FD-OCT image reconstruction with an image-level cross-domain regularizer." *Optics Express*, 2023

Awards and Honors

- SPIE Student Travel Grant, SPIE Photonics West   2024
- United Automotive Electronic Scholarship, Shanghai Jiao Tong University   2023
- Best Poster Award, AI Photonics Technology Symposium   2023
- Second Prize, the 17th China Post-Graduate Mathematical Contest in Modeling   2020
- National Encouragement Scholarship, South China University of Technology   2017

Academic Services

- **Conference Reviewer:** CVPR, ECCV
- **Journal Reviewer:** Photonics Research, Displays, Optics Express, Optics Letters, Biomedical Optics Express, Applied Optics, Journal of the Optical Society of America A

Skills

- **Programming Tools:** Python, Matlab, PyTorch, TensorFlow
- **Language:** English, Chinese