

# 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 – June 2020

*B.S. in Information Engineering*

## RESEARCH INTEREST

- Computer-generated 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 via reinforcement learning for photorealistic and speckle-free 3D displays.” *Under Review*, 2024
- **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
- 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
- **Zhenxing Dong**, Yuye Ling, Chao Xu, Yan Li, Yikai Su, “Gaze-contingent efficient hologram compression for foveated near-eye holographic displays.” *Displays*, 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
- **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
- 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

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|---|------|
| • 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 for Outstanding Ph.D. Student, John Hopcroft Center            | 2022 |
| • 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**: ECCV (2022, 2024)
- **Journal Reviewer**: Photonics Research, Displays, Optics Express, Optics Letters, Biomedical Optics Express

## SKILLS

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