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Education

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| 2023 – 2027 | Sun Yat-sen University
Ph.D. in Cyberspace Security | Shenzhen, China |
| 2020 – 2023 | South China University of Technology
M.Eng. in Computer Technology (Recommended Admission) | Guangzhou, China |
| 2016 – 2020 | South China University of Technology
B.Eng. in Computer Science and Technology | Guangzhou, China |

Industry Research Experience

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| Feb. 2026 – Present | JD Explore Academy, Shenzhen, China <ul style="list-style-type: none">◦ Algorithm Intern focused on foundation model training and deployment of generative editing models, supervised by Lin Song.◦ Video editing: Responsible for SFT of JoyOmini (I2V/V2V), supporting image/video-to-video generation workflows.◦ Unified image editing: Responsible for SFT of JoyAI-Image-Edit; related work was included in the technical report <i>Awaking Spatial Intelligence in Unified Multimodal Understanding and Generation</i>.◦ Business deployment: Responsible for integrating trained I2I and I2V models into JD e-commerce product-display generation scenarios. |
| Jan. 2025 – Feb. 2026 | Huawei, Shenzhen, China <ul style="list-style-type: none">◦ Research Intern focused on image editing algorithm development and smartphone-side deployment, supervised by Zhixin Wang and Wenbo Li.◦ Image editing: Developed general image editing models for diverse user instructions, covering complex editing scenarios and fine-grained user requirements.◦ Camera-controllable editing: Developed camera parameter controllable image editing models for mobile imaging scenarios.◦ Smartphone-side deployment: Implemented and adapted camera-controllable editing algorithms for Huawei smartphone-side imaging algorithm pipelines. |

Publications

Technical Report

- Tech. 2026 **Awaking Spatial Intelligence in Unified Multimodal Understanding and Generation (*2.2k Stars on GitHub)**
Contributor: Responsible for SFT of JoyAI-Image-Edit.

First Author & Corresponding Author Publications

- Under Review **UltraTarget: Instruction-Guided Image Editing for Precise Multi-Object Manipulation**
Xinran Qin, Zhixin Wang, Fan Li, Jiaqi Xu, Renjing Pei, Xiaochun Cao
- NeurIPS 2025 **CamEdit: Continuous Camera Parameter Control for Photorealistic Image Editing (*deployed in Huawei smartphone-side algorithms)**
Xinran Qin, Zhixin Wang, Fan Li, Haoyu Chen, Renjing Pei, Wenbo Li, Xiaochun Cao
- TIP 2025 **Disentangle to Fuse: Towards Content Preservation and Cross-Modality Consistency for Multi-Modality Image Fusion**
Xinran Qin, Yuning Cui, Ruoyu Chen, Shangquan Sun, Wenqi Ren, Alois Knoll, Xiaochun Cao

- TNNLS 2025 Robust Unsupervised Deep Learning for Non-Blind Image Deconvolution with Noise and Kernel Error
Xinran Qin, Yuhui Quan, Zhuojie Chen, Hui Ji
- TPAMI 2024 Siamese Cooperative Learning for Unsupervised Image Reconstruction from Incomplete Measurements
Yuhui Quan, Xinran Qin, Tongyao Pang, Hui Ji*
- CVPR 2023 Ground-Truth Free Meta-Learning for Deep Compressive Sampling
Xinran Qin, Yuhui Quan, Tongyao Pang, Hui Ji*
- ECCV 2022 Dual-Domain Self-Supervised Learning and Model Adaptation for Deep Compressive Imaging
Yuhui Quan, Xinran Qin, Tongyao Pang, Hui Ji*
- Under Review Beyond Black-Box Fusion: Attribution-Driven Parameter Customization for Infrared-Visible Image Fusion
Xinran Qin, Yuning Cui, Shangquan Sun, Alois Knoll, Xiaochun Cao
- NNs 2024 Enhanced Unrolling Networks for Snapshot Compressive Hyperspectral Imaging
Xinran Qin, Yuhui Quan, Hui Ji
- ICASSP 2022 Self-Supervised Internal Learning for Hyperspectral Reconstruction
Yuhui Quan, Xinran Qin, Mingqin Chen, Yan Huang*

Co-author Publications

- Under Review ShotCrop³: Cropping Human-Centric Images into Cinematic Triple-Shot Compositions (***deployed in Huawei business scenarios**)
Dehong Kong, Lina Lei, Xinran Qin, Lingtao Zheng, Chenyang Wu, Ailing Zhang, Teng Ma, Jiaqi Xu, Zhixin Wang, Zhikai Chen, Xuecheng Qi, Renjing Pei, Fan Li
- Under Review UniPainter: Negative Context and Positive Local Modulation for Unified Video Painting
Lina Lei, Fan Li, Chenyang Wu, Xinran Qin, Chun-Le Guo, Yang Meng, Dehong Kong, Renjing Pei, Chongyi Li
- CVPR 2026 YOSE: You Only Select Essential Tokens for Efficient DiT-based Video Object Removal
Chenyang Wu, Lina Lei, Fan Li, Chun-Le Guo, Dehong Kong, Xinran Qin, Zhixin Wang, Ming-Ming Cheng, Chongyi Li
- CVPR 2026 HP-Edit: A Human-Preference Post-Training Framework for Image Editing (***deployed in Huawei business scenarios**)
Fan Li, Chonghuinan Wang, Lina Lei, Yuping Qiu, Jiaqi Xu, Jiaxiu Jiang, Xinran Qin, Zhikai Chen, Fenglong Song, Zhixin Wang, Renjing Pei, Wangmeng Zuo

Awards and Competitions

- 2025 **NeurIPS Scholar Award**, *NeurIPS 2025*
- 2023 – 2025 **First-Class Scholarship**, *Sun Yat-sen University*
- 2016 – 2019 **Top Student Scholarship**, *South China University of Technology*

Academic Service

Reviewer for ICML, CVPR, ECCV, NeurIPS, ACM MM, AAAI, TPAMI, TIP, and TNNLS;
TPC Member for IEEE WCNCW 2026 WS-09