Runyi Li

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Education

M.S. Peking University 2023.09 – 2026.06 (Expected)

Major in Computer Science, supervised by Prof. Jian Zhang, GPA 3.86/4.00, IELTS 7.0

B.S. Sichuan University 2019.09 – 2023.06

Major in Computer Science, Honor & Outstanding Graduate, supervised by Prof. Lei Zhang, GPA 3.91/4.00, ranking top 2%

Selected Publications

Generative AI for Low-level Vision

- OmniSSR: Zero-shot Omnidirectional Image Super-Resolution using Stable Diffusion Model. **First** author. *ECCV'24* ***Oral***.

Generative AI with Privacy and Trustworthy

- EditGuard: Versatile Image Watermarking for Tamper Localization and Copyright Protection. Second author. *CVPR'24*.
- V2A-Mark: Versatile Deep Visual-Audio Watermarking for Manipulation Localization and Copyright Protection. Third author. *ACMMM'24*.
- GS-Hider: Hiding Messages into 3D Gaussian Splatting. Third author. *NeurIPS'24*.
- Fakeshield: Explainable image forgery detection and localization via multi-modal large language models. Third author. *ICLR'25*.
- OmniGuard: Hybrid Manipulation Localization via Augmented Versatile Deep Image Watermarking. Fourth author. *CVPR'25*.
- Rooting Adaptive Watermarks for 3D Gaussian Generation Model. First author. *MIR (JCR Q1, IF=8.7)*.

AI for Science

- Machine learning for energy band prediction of halide perovskites. Co-first author. *Materials Futures (JCR Q1, IF=10.8)*.

Selected Manuscripts Under-Review

Generative AI for Low-level Vision

- LAFR: Efficient Diffusion-based Blind Face Restoration via Latent Codebook Alignment Adapter. First author. *NeurIPS'25 submission*.
- CTSR: Controllable Fidelity-Realness Trade-off Distillation for Real-World Image Super Resolution. First author. *AAAI'26 submission*.
- RealOSR: Latent Unfolding Boosting Diffusion-based Real-world Omnidirectional Image Super-Resolution. Co-first author. *NeurIPS'25 submission*.

Experience

ByteDance Tiktok Group *Research Intern* 2025.06 – Present

GenAI, MLLM&VLM, Unified Understanding and Generation Model

Universität Würzburg *Visiting Student* 2024.10 – 2025.05

Supervised by Prof. Radu Timofte; Low-level Vision, Diffusion Model, Real-world Image Super-resolution

RabbitPre Intelligent Technology *Algorithm Engineer* 2024.04 – 2025.03

AI Safety & Privacy Protection, Personalized GenAI

School of Physics, Peking University *Visiting Student* 2024.12 – Present

Co-supervised by Prof. Lixin Xiao; AI for Chemistry and Materials Research

Century Frontier *Quant Trading Researcher* 2025.01 – 2025.03

High Frequency Trading, LLM, Time Series Prediction

Selected Honors and Awards

Outstanding Student of Peking University (Top 10%) 2024
Outstanding Graduate of Sichuan Province (Top 1%) 2023
National Scholarship of China (Top 1%) 2022