

RUNYI LI (李 潤一)

✉ leejunijp@gmail.com · ☎ (+86) 15205516336 · 🌐 Runyi Li · 🏠 Homepage

EDUCATION

Ph.D. Student, University of Tokyo 2026.10 – 2029.09 (Expected)

Supervised by Prof. Yamasaki Toshihiko, research mainly in world model, agentic AI and generative AI

M.S. Peking University 2023.09 – 2026.06

Supervised by Prof. Jian Zhang, research mainly in generative AI, low-level vision and trustworthy AI

B.S. Sichuan University 2019.09 – 2023.06

Major in Computer Science, Honor & Outstanding Graduate, supervised by Prof. Lei Zhang, research in medical image analysis

SELECTED PUBLICATIONS

Generative & Agentic AI

- OmniSSR: Zero-shot Omnidirectional Image Super-Resolution using Stable Diffusion Model. **First** author. *ECCV'24 Oral*.
- Mirai: Autoregressive Visual Generation Needs Foresight. Fourth author. *CVPR'26*.
- Video-Mirai: Autoregressive Video Diffusion Models Need Foresight. Third author. *NeurIPS'26 Under Review*.
- Bridging Video Understanding and Generation in a Unified Framework. *Tech Report in Tiktok, ByteDance*.
- Agentic World Modeling: Foundations, Capabilities, Laws, and Beyond. Contributor. *Survey*.
- Zero-shot Agentic Video Generation as Visual Reasoning. First author. *Ongoing Project*.

Trustworthy AI, Privacy and LLMs

- 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*.
- GaussianSeal: Rooting Adaptive Watermarks for 3D Gaussian Generation Model. **First** author. *Springer MIR (JCR Q1, IF=8.7)*.

AI for Science Research

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

EXPERIENCE

ByteDance Tiktok Group Research Intern 2025.06 – 2025.12

Mentored by Yuqi Wang; GenAI & MLLM, Unified Understanding and Generation Model

Universität Würzburg Visiting Student 2024.10 – 2026.04

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

RabbitPre Intelligent Technology Research Intern 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 Scientific Research

Century Frontier Quant Trading Research Intern 2025.01 – 2025.03

High Frequency Trading, LLM, Time Series Prediction

SELECTED HONORS AND AWARDS

Outstanding Graduate of Peking University (Top 3%) 2026

Outstanding Graduate of Sichuan Province (Top 1%) 2023

National Scholarship of China (Top 1%) 2022