You-Zhe Xie (謝侑哲)

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G Google Scholar | in linkedin | ○ github | 🐦 Twitter

Education

National Yang Ming Chiao Tung University, BS in Computer Science   09.2023 –06.2027
- Ranking: 1/194 (0.52%) GPA: 4.29/4.3

Experience

Research Assistant, Computational Photography Laboratory, NYCU   06.2024 - Now
- Research in 3DGS backdoor attack & 4D controllable extend & video entropy increasing
- Publish 1 paper to top conference

Research Intern, Academia Sinica   07.2025 - Now
- Research in 4D Gaussian ray tracing for physics-based camera effect simulation.
- Publish 1 workshop paper to top conference

Consultant, WorldQuant   02.2025 - Now
- Design alpha signals for quantitative trading. Analyze market trends and financial characteristics to allocate investment funds. The best is to achieve 13.2% returns per year in out-of-sample terms.

Mentor, Google Developer Student Club, NYCU   06.2024 - 06.2025
- Taught students about generative AI algorithms and advised project about font style transfer & weakly supervised semantic segmentation.

Publications

StealthAttack: Robust 3D Gaussian Splatting Poisoning via Density-Guided Illusions 🌐   03.2025

Bo-Hsu Ke, ***You-Zhe Xie (2nd)***, Yu-Lun Liu, Wei-Chen Chiu

ICCV 2025 (Poster)
ICCV 2025 Responsible Imaging Workshop (Oral, Best Poster)

Every Camera Effect, Every Time, All at Once: 4D Gaussian Ray Tracing for Physics-based Camera Effect Data Generation 🌐   08.2025

Yi-Ruei Liu, ***You-Zhe Xie (co-1st)***, Yu-Hsiang Hsu, I-Sheng Fang, Jun-Cheng Chen

NeurIPS 2025 SpaVLE Workshop (Poster)

Projects

Real-Time DSTNet 🌐   08.2024
- Improved video deblurring model DSTNet (CVPR 2023) to achieve real-time inference (37 fps), sped up to 400%, refactored from offline to online.

Anime Helper 🌐   12.2024
- Anime info. website with React.js, Express.js, PostgreSQL. I was responsible for the backend engineering.

Paper Searching Bot with LLM 🌐   06.2024
- Built paper searching discord bot with RAG on LLM. Optimized result by prompt engineering. Collected data via crawler. Achieved 96.6% content relativity.

Deep Learning Projects 🌐   12.2024
- 6 sub-projects with technique including: CNN, UNet. ResNet, VAE, Transformer, Diffusion etc.

Berkeley Computer Vision Projects 🌐   12.2024
- 5 sub-projects include image alignment, hybrid, warping, stitching, auto stitching.

C++ Text-Based Dungeon Game 🌐   04.2024
- Build a dungeon game with a text-based UI via C++.

Honors

Academic Excellence Award (書卷獎) * 4

Core Fundamental Course Award (核心基礎課程獎) * 4

- Algorithm, Discrete Mathematics, Digital Circuit Design, Computer Organization