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: 1/192 (0.52%) GPA: 4.29/4.3

Experience

Research Assistant, Computational Photography Laboratory, NYCU   06.2024 –Now

- Research in 3D reconstruction model backdoor attack & 4D controllable extend
- Publish 1 paper to top conference

Research Intern, Academia Sinica   07.2025 –08.2025

- 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.

Research Assistant, Department of Management Science, NYCU   09.2024 –Now

- Research in the Lotka-Volterra model based on biological competition for sales forecasting. Analyze competitive relationships between different products.

Mentor, Google Developer Student Club, NYCU   06.2024 –06.2025

- Taught students about generative AI algorithms and complete 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)

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.

Paper Searching Bot with LLM 🌐   06.2024

- Used RAG with LLM by LangChain for searching paper. Optimized result by prompt engineering. Got data by crawler. Used discord bot. Achieved 93.3% format correctness and 96.6

Berkeley Computer Vision Projects 🌐   12.2024

- 5 sub-projects include image alignment, hybrid, warping, stitching, auto stitching.

Honors

Academic Excellence Award (書卷獎) * 4

Core Fundamental Course Award

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

Skills

Languages: Mandarin (native), English (TOEIC 810)

Technologies: Git, PyTorch, Express.js, PostgreSQL, Shell Script