

Shuyi Liang

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Education

Peking University

B.S. in Computer Science and Technology (Junior)

Beijing, China

2023 – Present

GPA: 3.64/4.0 (Top 34%)

Selected Courses: Large Language Models: From Foundations to Practice; Introduction to Artificial Intelligence; Computational Photography; NLP; (ongoing) Introduction to Computer Vision

Honors & Awards

- Academic Excellence Award, Peking University 2023–2024
- Third Prize, 22nd “Castle Cup” Programming Contest, Peking University 2024
- Outstanding Research Award & Tianchuang Scholarship, Peking University 2024–2025
- First Prize (Co-first Author), 34th “Challenge Cup” May Fourth Youth Science Award, Peking University 2025
- Honorable Mention, Mathematical Contest in Modeling / Interdisciplinary Contest in Modeling 2026

Research Experience

Camera Intelligence Lab

Research Intern, Supervisor: Prof. Boxin Shi

Jun. 2025 – Mar. 2026

Beijing, China

- Research focuses on the intersection of computer vision and generative AI, with applications in image synthesis and restoration.
- **Outcomes:**
 - **SLAIR: Structured Latent Flow Matching for All-in-One Image Restoration**
*Shuyi Liang**, *Yixin Yang**, *Hanyue Lou*, *Yuning Cui*, *Boxin Shi*
*Equal contribution. **Accepted to ECCV 2026.**

VIE Group

Research Intern, Supervisor: Prof. Tingting Jiang

Feb. 2025 – Jun. 2025

Beijing, China

- Research focuses on Visual Benchmark Construction for multimodal evaluation; contributed to dataset design and large-scale data analysis.
- **Outcomes:**
 - **Beyond the Visible: Benchmarking Occlusion Perception in Multimodal Large Language Models**
Zhaochen Liu, *Kaiwen Gao*, ***Shuyi Liang***, *Bin Xiao*, *Limeng Qiao*, *Lin Ma*, *Tingting Jiang*
Preprint on arXiv.

Projects

LLM Fine-Tuning: Domain Adaptation for Medical Q&A

Course Project — Large Language Models: From Foundations to Practice

Jul. 2025

- Fine-tuned Qwen1.5-1.8B-Chat on a 147K-pair Chinese medical dataset via QLoRA; implemented a custom LoRA framework from scratch and a RAG pipeline (SentenceTransformer + FAISS).

Technical Skills

Programming: Proficient in C++ and Python.

Deep Learning: Skilled in PyTorch for model training and inference.