

Guohuan Xie

155-5608-6882 | xieguohuan@mail.nankai.edu.cn | Homepage

Education

Tsinghua University, School of Software

Sep. 2026 – Jun. 2028

Master's in Software Engineering

Advised by Prof. Yue Gao at iMoon Lab

Nankai University, School of Software

Sep. 2022 – Jun. 2026

Bachelor's in Software Engineering

- **GPA: 93.7/100; Rank: 1/130.** Outstanding Graduate of Nankai University; National Scholarship for Undergraduates (twice), BYD Scholarship, and Gongneng Scholarship.

Research interests: multimodal large models, visual content generation, and hypergraph learning.

Internship Experience

Kling Video Model Department / GenAI Team 2

May 2026 – Present

Research Intern Advised by Sainan Guo and Pengfei Wan

Research focus: controllable video generation.

Media Computing Lab, Nankai University

Aug. 2024 – Oct. 2025

Research Intern Advised by Yun Liu and Ming-Ming Cheng

Research focus: video understanding.

Research Experience

A Comprehensive Survey on Video Scene Parsing: Advances, Challenges, and Prospects

ACM Computing Surveys · SCI Q1 · IF 30.4 First Author

Guohuan Xie, Syed Ariff Syed Hesham, Wenya Guo, Bing Li, Ming-Ming Cheng, Guolei Sun, Yun Liu.

Vision Correlators: Correlation-Driven Visual Understanding with Hypergraphs

NeurIPS 2026 · CCF A Second Author

Mengqi Lei, Guohuan Xie, Siqi Li, Shihui Ying, Shaoyi Du, Jun-Hai Yong, Nanning Zheng, Yue Gao.

PreCoMem: Predictive Cognitive Memory for Self-Evolving Long-Term Dialogue Agents

NeurIPS 2026 · CCF A Co-author

Zhong Jian, Zeyu Liu, Pingchuan Cao, Rongduo Han, Shunye Tang, Guohuan Xie, Mingyuan Qin, Ran Ji, Xiao Liang, Haining Zhang, Wei Wang.

EvalMem: An Operation-Level Diagnostic Framework for Long-Term Memory Systems

Findings of EMNLP 2026 · CCF B Co-author

Zeyu Liu, Jian Zhong, Rongduo Han, Ziyang Wu, Shunye Tang, Chenghao He, Yaxuan Yang, Yihang Qiu, Ailing Wang, Xiao Liang, Guohuan Xie, Xiaokang Xue, Gongchen Li, Haining Zhang, Wei Wang.

Project Experience

AI-Guide-and-Demos-zh_CN: An Open-source Beginner-Friendly AI/LLM Learning Project

Feb. 2026 – Mar. 2026

Core Contributor [GitHub]

- **Contribution:** Contributed to a Chinese-language AI/LLM learning project centered on the **OpenAI SDK** and main-stream tools, helping beginners progress from API calls to fine-tuning, deployment, and application development.
- **Learning resources:** Helped develop tutorials, example code, and paper notes spanning **AI video summarization, LLM fine-tuning, RAG, image generation, and model quantization**, connecting foundational concepts with advanced practice.
- **Engineering:** Contributed to **CodePlayground**, Kaggle/Colab execution support, and local deployment instructions to simplify reproduction of AI chat, video summarization, and text-to-image examples.
- **Impact:** The project earned **3.7K+ GitHub stars**, building a community around accessible Chinese-language LLM learning and hands-on practice.

- **Concept:** Developed an immersive AI experience around Li Bai's life and Tang poetry, combining **historical authenticity with AI generation** to explore interactive learning and digital cultural engagement.
- **Content:** Led reconstruction of Li Bai's life from **724–762** using his collected works and the *New Book of Tang*. Anchored **38 key poems** to historical scenes in a narrative framework integrating characters, events, and emotions.
- **Model adaptation:** Applied **SFT to Qwen-7B** using Li Bai's works and Tang poetry, improving the stylistic consistency, literary quality, and character alignment of NPC-generated poems.
- **Technical design:** Led the design of **LLM + RAG** for NPC dialogue and collaborative poetry creation; combined **Stable Diffusion / LoRA** visuals with RPG mechanics to create an immersive Tang-era experience.
- **Recognition:** Won the 2025 Migu M-Zone **“Most Valuable Application” Award (3/1,143; top 0.3%)**, receiving **RMB 50,000**; demonstrated applications of AI in cultural communication, educational experiences, and creative content.

Honors and Academic Service

- 2025 Migu M-Zone “Most Valuable Application” Award (3/1,143; top 0.3%).
- National Second Prize, China Mathematical Contest in Modeling (2024, top 2%); Outstanding Student of Nankai University (2023–2025).
- Reviewer for IJCAI 2026 and ICMR 2026.