Xingyang Li

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EDUCATION

Massachusetts Institute of Technology (MIT)   Cambridge, MA
Visiting Student at MIT HAN Lab, EECS Department   07/2025 – 12/2025
Advisor: Prof. Song Han

Shanghai Jiao Tong University (SJTU)   Shanghai, China
B.Eng. in Computer Science & Technology   09/2022 – 06/2026 (Expected)
Member of (ACM Honors Class), an elite CS program for top 5% students
- **GPA** (All Core Courses): **4.03**/4.3, Ranking: **3**/29, 19 A+ courses

RESEARCH INTERESTS

I am interested in efficient machine learning. I aim to build efficient superintelligence that stay compact, accessible, and reliably scalable to serve increasingly broad real-world needs.

SELECTED PUBLICATIONS

Radial Attention: $\mathcal{O}(n \log n)$ Sparse Attention with Energy Decay for Long Video Generation
Xingyang Li*, Muyang Li*, Tianle Cai, Haocheng Xi, Shuo Yang, Yujun Lin, Lvmin Zhang, Songlin Yang, Jinbo Hu, Kelly Peng, Maneesh Agrawala, Ion Stoica, Kurt Keutzer, Song Han
Annual Conference on Neural Information Processing Systems (NeurIPS), 2025. [arxiv] [code] [website] [blog]

Nebula: Enable City-Scale 3D Gaussian Splatting in Virtual Reality via Collaborative Rendering and Accelerated Stereo Rasterization
He Zhu, Zheng Liu, Xingyang Li, Anbang Wu, Jieru Zhao, Fangxin Liu, Yiming Gan, Jingwen Leng, Yu Feng
To Appear at International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS), 2026; (**Oral Presentation**). [arxiv]

SLTarch: Towards Scalable Point-Based Neural Rendering by Taming Workload Imbalance and Memory Irregularity
Xingyang Li*, Jie Jiang*, Yu Feng, Yiming Gan, Jieru Zhao, Zihan Liu, Jingwen Leng, Minyi Guo
International Conference on Computer-Aided Design (ICCAD), 2025; (**Oral Presentation**). [arxiv]

Harnessing Conventional Video Processing Insights for Emerging 3D Video Generation Models: A Comprehensive Attention-aware Way
Tianlang Zhao*, Jun Liu*, Xingyang Li*, Li Ding, Jinhao Li, Shuaiheng Li, Jinbo Hu, Guohao Dai
Design Automation Conference (DAC), 2025; (**Oral Presentation**). [proceedings]

HONORS

2025 Commercial Sponsorship Scholarship (**Top 6** at Zhiyuan College, SJTU)
2025 SenseTime Scholarship (**30 winners nationwide** with aspiration in AI research)
2024 Commercial Sponsorship Scholarship (**14 winners** each year in SJTU)
2023 Longfor Merit Scholarship (**Top 10** at Zhiyuan College, SJTU)

TECHNICAL SKILLS & MISCELLANEOUS

Programming : Python, C++, CUDA, Bash, Git, Java, Go, Verilog
Tools : LaTeX, Markdown, Bash, Git
Language : TOEFL: Total 115 (Reading 30, Listening 30, Speaking 25, Writing 30); CET 6: 665/710
Hobbies : Soccer, Table Tennis, Running, Guitar