

Shengyu Ye

USTC · COMPUTER SCIENCE AND TECHNOLOGY

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“Be the change that you want to see in the world.”

Education

University of Science and Technology of China

B.E. IN COMPUTER SCIENCE AND TECHNOLOGY

- Hua Xia Talent Program in Computer Science and Technology
- GPA: 3.97 (91.78) Rank: 7/269

Hefei, Anhui

Sept. 2020 - Jun. 2024

University of Science and Technology of China

M.S. IN COMPUTER SCIENCE AND TECHNOLOGY

- State Key Laboratory of Cognitive Intelligence
- Prof. Qi Liu

Hefei, Anhui

Sept. 2024 - Jun. 2027(expected)

Experience

MSRA

RLVR

Beijing

Mar. 2025 - May. 2025

- Explored the impact of RLVR on enhancing the upper bound of model reasoning capabilities.

Zhongguancun Academy

INFORMATION ENGINE STARTUP PROJECT

Beijing

Dec. 2024 - Feb. 2025

- Information engine prototype, designing the core system architecture and data processing pipelines.

MSRA

LUT-DLA

Beijing

Sept. 2023 - Jun. 2024

- Responsible for the implementation of the LiteLUT algorithm and model fine-tuning.

- Completed during the MSRA Innovation Talent Program.

NSFC

NSFC BASIC RESEARCH PROGRAM FOR YOUNG STUDENTS

USTC

2023

- Cognitive LLM-based Approach for Automatic Generation of Programming Language Test Cases

Publication

- [1] **Shengyu Ye**, Qi Liu, Hao Jiang, Zheng Zhang, Yu Heng, Zhenya Huang. “Themis: Automated Constraint-Aware Test Synthesis Framework for Code Reinforcement Learning”. In: *Proceedings of the AAAI Conference on Artificial Intelligence*. Vol. 40. Accepted for publication. 2026.
- [2] Zifan He, **Shengyu Ye**, Rui Ma, Yang Wang, Jason Cong. *LUT-LLM: Efficient Large Language Model Inference with Memory-based Computations on FPGAs*. 2025. arXiv: 2511.06174 [cs.AR]. URL: <https://arxiv.org/abs/2511.06174>.
- [3] Guoyu Li, **Shengyu Ye**, Chunyun Chen, Yang Wang, Fan Yang, Ting Cao, Cheng Liu, Mohamed M Sabry Aly, Mao Yang. “LUT-DLA: Lookup Table as Efficient Extreme Low-Bit Deep Learning Accelerator”. In: *2025 IEEE International Symposium on High Performance Computer Architecture (HPCA)*. IEEE. 2025, pp. 671–684.
- [4] Xumeng Wen, Zihan Liu, Shun Zheng, **Shengyu Ye**, Zhirong Wu, Yang Wang, Zhiyan Xu, Xiao Liang, Junjie Li, Ziming Miao, Jiang Bian, Mao Yang. *Reinforcement Learning with Verifiable Rewards Implicitly Incentivizes Correct Reasoning in Base LLMs*. 2025. arXiv: 2506.14245 [cs.AI]. URL: <https://arxiv.org/abs/2506.14245>.
- [5] Yifei Liu, Jicheng Wen, Yang Wang, **Shengyu Ye**, Li Lyra Zhang, Ting Cao, Cheng Li, Mao Yang. “VPTQ: Extreme Low-bit Vector Post-Training Quantization for Large Language Models”. In: *Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing*. Ed. by Yaser Al-Onaizan, Mohit Bansal, and Yun-

Honors & Awards

- 2021 **Gold Award**, Outstanding Student Scholarship USTC
2021 **Grade A**, Hua Xia Talent Program in Computer Science and Technology Scholarship USTC
2022 **2nd Prize**, China Undergraduate Mathematical Contest in Modeling(Anhui Region) Hefei, Anhui

Skills

- DevOps** Git, Vue3, Docker
Platform Macos, Ubuntu, Windows
Languages Mandarin Chinese, English(CET4: 614 CET6: 581)
Programming C/C++, Python, Rust, Verilog, MySql, Typescript, Markdown, LaTeX, Typst