

# 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

Hefei, Anhui

Sept. 2020 - Jun. 2024

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

### University of Science and Technology of China

M.S. IN COMPUTER SCIENCE AND TECHNOLOGY

Hefei, Anhui

Sept. 2024 - Jun.  
2027(expected)

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

## 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

- 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.
- 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>.
- 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.
- Xumeng Wen, Zihan Liu, Shun Zheng, **Shengyu Ye**, Zhirong Wu, Yang Wang, Zhijian 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>.
- Yifei Liu, Jicheng Wen, Yang Wang, **Shengyu Ye**, Li Lyna 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	<b>Gold Award</b> , Outstanding Student Scholarship	USTC
2021	<b>Grade A</b> , Hua Xia Talent Program in Computer Science and Technology Scholarship	USTC
2022	<b>2nd Prize</b> , China Undergraduate Mathematical Contest in Modeling(Anhui Region)	Hefei, Anhui

**Skills**\_\_\_\_\_

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