

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

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

RESEARCH ON THE COGNITIVE LARGE LANGUAGE MODEL-BASED APPROACH FOR
AUTOMATIC GENERATION OF PROGRAMMING LANGUAGE TEST CASES

USTC

2023

- NSFC Basic Research Program for Young Students

BDAA

CODIA

USTC

Mar. 2023 - Jun. 2023

- Intelligent Online Education System for Programming Education

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, 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>.
- [5] Yifei Liu, Jicheng Wen, Yang Wang, **Shengyu Ye**, Li Lina 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-Nung Chen. Miami, Florida, USA: Association for Computational Linguistics, Nov. 2024, pp. 8181–8196. doi: 10.18653/v1/2024.emnlp-main.467. URL: <https://aclanthology.org/2024.emnlp-main.467/>.

Honors & Awards

INTERNATIONAL 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 Windows, Linux

Languages Mandarin Chinese, English(CET4: 614 CET6: 581)

Programming C/C++, Python, Rust, Verilog, MySql, Typescript, Markdown, LaTeX, Typst