

Shijie Xia

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Education

- 2024 – Present **Shanghai Jiao Tong University** – Shanghai, China
Ph.D. in Computer Science
Advisor: Prof. Pengfei Liu.
- 2020 – 2024 **Fudan University** – Shanghai, China
B.E. in Intelligence Science (Honors Program)
Rankings: **1/21**.

Publications

* indicates co-first authors

- 2025 **SR-Scientist: Scientific Equation Discovery With Agentic AI**
Shijie Xia*, Yuhan Sun*, Pengfei Liu
arXiv preprint, 2025.
- 2025 **A Survey of Test Time Scaling for Reasoning**
Shijie Xia, Yiwei Qin, Xuefeng Li, Yan Ma, Run-Ze Fan, Steffi Chern, Haoyang Zou, Fan Zhou, Xiangkun Hu, Jiahe Jin, Yanheng He, Yixin Ye, Yixiu Liu, Pengfei Liu
arXiv preprint, 2025.
- 2025 **LIMO: Less is More for Reasoning**
Yixin Ye*, Zhen Huang*, Yang Xiao, Ethan Chern, **Shijie Xia**, Pengfei Liu
COLM 2025.
- 2024 **PC Agent: While You Sleep, AI Works—A Cognitive Journey into Digital World**
Yanheng He*, Jiahe Jin*, **Shijie Xia**, Jiadi Su, Runze Fan, Haoyang Zou, Xiangkun Hu, Pengfei Liu
arXiv preprint, 2024.

- 2024 **O1 Replication Journey–Part 2: Surpassing O1-preview through Simple Distillation, Big Progress or Bitter Lesson?**
Zhen Huang*, Haoyang Zou*, Xuefeng Li*, Yixiu Liu*, Yuxiang Zheng*, Ethan Chern*, **Shijie Xia***, Yiwei Qin, Weizhe Yuan, Pengfei Liu.
arXiv preprint, 2024.
- 2024 **O1 Replication Journey: A Strategic Progress Report–Part 1**
Yiwei Qin*, Xuefeng Li*, Haoyang Zou*, Yixiu Liu*, **Shijie Xia***, Zhen Huang, Yixin Ye, Weizhe Yuan, Hector Liu, Yuanzhi Li, Pengfei Liu
arXiv preprint, 2024.
- 2024 **Evaluating Safety with Critique**
Yixiu Liu, Yuxiang Zheng, **Shijie Xia**, Yuan Guo, Jiajun Li, Yi Tu, Chaoling Song, Pengfei Liu
EMNLP 2024, Findings.
- 2024 **OlympicArena: Benchmarking Multi-discipline Cognitive Reasoning for Superintelligent AI**
Zhen Huang, Zengzhi Wang, **Shijie Xia**, Xuefeng Li, Haoyang Zou, Ruijie Xu, Runze Fan, Lyumanshan Ye, Ethan Chern, Yixin Ye, Yikai Zhang, Yuqing Yang, Ting Wu, Binjie Wang, Shichao Sun, Yang Xiao, Yiyuan Li, Fan Zhou, Steffi Chern, Yiwei Qin, Yan Ma, Jiadi Su, Yixiu Liu, Yuxiang Zheng, Shaoting Zhang, Dahua Lin, Yu Qiao, Pengfei Liu
NeurIPS 2024.
- 2024 **Evaluating Mathematical Reasoning Beyond Accuracy**
Shijie Xia, Xuefeng Li, Yixin Liu, Tongshuang Wu, Pengfei Liu
AAAI 2025 oral presentation.

Selected honors and awards

- 2024 Outstanding Graduates of Fudan University
- 2022 Shanghai City Scholarship (**top 5%**)
- 2020 - 2024 Fudan University Academic Scholarship