Yixin **Ye**

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Research Interests

My research interests mainly lie in **natural language processing**, **complex reasoning**, and **fundamental research of LLMs**. I am now focusing on enhancing LLMs' reasoning capabilities through innovative approaches. I have experience in developing and training large language models, with a focus on pretraining and fine-tuning techniques. My background also includes work on multimodal learning systems and addressing alignment challenges in multimodal AI architectures.

Education

Shanghai Jiao Tong University, SEIEE   *Shanghai, China*
B.Eng. in Software Engineering   *Sept. 2022 - Present*

Papers

LIMO: Less is More for Reasoning
Yixin Ye*, Zhen Huang*, Yang Xiao, Ethan Chern, Shijie Xia, Pengfei Liu
Preprint, 2025. [GitHub] [arXiv:2502.03387]

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
Preprint, 2024. [GitHub] [arXiv:2410.18982]

OlympicArena: Benchmarking Multi-discipline Cognitive Reasoning for Superintelligent AI
Zhen Huang, Zengzhi Wang, Shijie Xia, Xuefeng Li, Haoyang Zou, Ruijie Xu, Run-Ze Fan, Lyumanshan Ye, Ethan Chern, **Yixin Ye**, et al.
NeurIPS, 2024. [Website] [arXiv:2406.12753]

Dissecting Dissonance: Benchmarking Large Multimodal Models Against Self-Contradictory Instructions
Jin Gao, Lei Gan*, Yuankai Li*, **Yixin Ye**, Dequan Wang
ECCV, 2024. [arXiv:2408.01091]

Lost in Translation: Latent Concept Misalignment in Text-to-Image Diffusion Models
Juntu Zhao, Junyu Deng*, **Yixin Ye***, Chongxuan Li, Zhijie Deng, Dequan Wang
ECCV, 2024. [arXiv:2408.00230]

Research Experience

Shanghai Jiao Tong University - Generative Artificial Intelligence Research Lab   *Shanghai, China*
Undergraduate Research Intern   *March 2024 - Present*
Supervisor: Prof. Pengfei Liu

Shanghai Jiao Tong University - Dequan Wang's Group   *Shanghai, China*
Undergraduate Research Intern   *July 2023 - Jan. 2024*
Supervisor: Prof. Dequan Wang

Awards

2024   **Undergraduate Honors Scholarship,** Award for the top student (1/300+) among all undergraduates in School of Software Engineering

Skills

Frameworks   LLaMA-Factory, TensorRT-LLM, vllm
Programming   Python, C/C++, JavaScript, Java, Linux, LaTeX, HTML, CSS