Jiahe Jin

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Education

Shanghai Jiao Tong University, B.Eng. in Computer Science, ACM Honors Class — Shanghai, China, 2022.09 – now

- **ACM Honors Class** is an elite CS program for top 5% students with aspirations in research.
- GPA: 3.93/4.3

Research Experience

Carnegie Mellon University, Research Intern, Advised by Prof. **Chenyan Xiong** — Pittsburgh, USA, 2025.04 – Now

Topics: Agentic Search; Deep Research Agents; Reasoning; Reinforcement Learning

Projects:

- **Beneficial Reasoning Behaviors in Agentic Search and Effective Post-training to Obtain Them**
  - Identify reasoning behaviors in agentic search that are beneficial to achieving better performance in Reinforcement Learning.
- **Deepresearchgym: A Free, Transparent, and Reproducible Evaluation Sandbox for Deep Research**
  - Built a search agent sandbox with reproducible search API, and proposed a benchmark for deep research systems.
- **Deep Research Comparator: A Platform for Fine-grained Human Annotations of Deep Research Agents**
  - Developed a platform to host deep research agents and support side-by-side comparison and fine-grained human annotation for long reports evaluation.

Shanghai Jiao Tong University, Research Intern, Advised by Prof. **Pengfei Liu** — Shanghai, China, 2024.05 – 2025.05

Topics: Computer Use Agents, Vision-Language Models, Trustworthy LLMs

Projects:

- **PC Agent: While You Sleep, AI Works–A Cognitive Journey into Digital World**
  - Built an infrastructure for collecting human-computer interaction trajectories, and a pipeline to train computer use agents from human demonstrations.
- **Efficient Agent Training for Computer Use**
  - Proposed a method to train computer use model by augmenting human trajectories with diverse action decisions from a frontier model, which outperforms using human data alone or direct distillation.
- **Behonest: Benchmarking honesty in large language models**
  - Introduced a benchmark assessing honesty in LLMs across awareness of knowledge boundaries, avoidance of deceit, and consistency in responses.

Selected Publications (First & Co-First Author)

(indicates equal contribution)*

Beneficial Reasoning Behaviors in Agentic Search and Effective Post-training to Obtain Them
Jiahe Jin, *Abhijay Paladugu, Chenyan Xiong*
In submission

Efficient Agent Training for Computer Use
Yanheng He, **Jiahe Jin***, *Pengfei Liu*
In submission

Deep research comparator: A platform for fine-grained human annotations of deep research agents
Prahaladh Chandrahasan, **Jiahe Jin***, Zhihan Zhang*, Tevin Wang, Andy Tang, Lucy Mo, Morteza Ziyadi, Leonardo FR Ribeiro, Zimeng Qiu, Markus Dreyer, Akari Asai, Chenyan Xiong*
In submission

PCAgent: 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*
Preprint

Revisiting 3D LLM Benchmarks: Are We Really Testing 3D Capabilities?
Jiahe Jin, Yanheng He*, Mingyan Yang**
Accepted by ACL 2025 Findings

Selected Course Projects

Revisiting 3D LLM Benchmarks: Are We Really Testing 3D Capabilities? — Computer Vision (A+)

- Identified an issue that some tasks for 3D LLM evaluation could be easily solved by VLMs with rendered images, exposing ineffective evaluation the 3D LLM's unique 3D capabilities.
- *first-author paper accepted by ACL 2025 Findings.*

Adaptive Length Control For Reasoning — Reinforcement Learning (A+)

- Applied a reward function that introduces token penalty according to question difficulty enable autonomous reasoning length control.

Teaching Experience

Data Structures (Honors), Teaching Assistant — Spring 2024

Awards

Zhiyuan Honors Scholarship — 2023-2025

- Awarded to top 2% of students in SJTU

Academic Excellence Scholarship — 2023-2025

- Awarded to students with top academic performance in SJTU

Skills & Languages

- **Programming Languages**: Python, Rust, C++, Java, Golang, Verilog.
- **Tools & Frameworks**: verl, vLLM, LLaMA-Factory, Git, Docker.