# Jiahe Jin

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## Education

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

- ACM Honors Class in Zhiyuan College, an elite research-oriented CS program (top 5% of students).
- GPA: 3.93/4.3

## Research Experience

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

Topics: Search Agents; Reasoning; Reinforcement Learning

**Beneficial Reasoning Behaviors in Agentic Search and Effective Post-training to Obtain Them**

- Build a framework to identify beneficial reasoning behaviors in search agents.
- Propose a method to cultivate these reasoning behaviors and enable stronger improvements in RL.

**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 for side-by-side comparison and fine-grained human annotation for long reports generation of deep research agents.

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

**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 synthesize agent trajectories based on limited human demonstrations.
- Enhanced a virtual-machined based platform for computer use agent evaluation.

**Behonest: Benchmarking honesty in large language models**

- Introduced a benchmark assessing honesty in LLMs.

## Publications

*(* indicates equal contribution)*

**Beneficial Reasoning Behaviors in Agentic Search and Effective Post-training to Obtain Them**
***Jiahe Jin***, *Abhijay Paladugu, Chenyan Xiong*
In submission to ACL 2026

**Efficient Agent Training for Computer Use**
*Yanheng He*, **Jiahe Jin***, *Pengfei Liu*
Accepted by ICLR 2026

**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*
Accepted by WWW demo 2026

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

**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

**Deepresearchgym: A free, transparent, and reproducible evaluation sandbox for deep research**
*João Coelho, Jingjie Ning, Jingyuan He, Kangrui Mao, Abhijay Paladugu, Pranav Setlur, **Jiahe Jin**, Jamie Callan, João Magalhães, Bruno Martins, Chenyan Xiong*
In submission to ICML 2026

**Behonest: Benchmarking honesty in large language models**
*Steffi Chern, Zhulin Hu, Yuqing Yang, Ethan Chern, Yuan Guo, **Jiahe Jin**, Binjie Wang, Pengfei Liu*
Preprint

**Generative ai act ii: Test time scaling drives cognition engineering**
*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*
Preprint

## Selected Course Projects

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

- Identified an issue that some 3D LLM benchmarks could be easily solved by VLMs with rendered images, exposing ineffective evaluation the unique 3D capabilities.

**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

**Ruiyuan-Sequoia Scholarship** 2025

- Awarded to top 0.5% of students in Zhiyuan Honor Program

**Zhiyuan Honors Scholarship** 2023-2025

- Awarded to top 2% of students in SJTU

**Shanghai Jiao Tong University Undergraduate Outstanding Scholarship (Class A)** 2025

- Awarded to students with top academic performance in SJTU

**National High School Physics Competition (Zhejiang Division)** 2021

- First prize (84 students in Zhejiang Province)

## Skills & Languages

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