

# Siru Ouyang

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## Education

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### University of Illinois Urbana-Champaign

Urbana, USA

Aug. 2022 - present

- Ph.D. in Computer Science
- Advisor: Professor [Jiawei Han](#)

### Shanghai Jiao Tong University

Shanghai, China

Sep. 2018 - Jun. 2022

- B.Eng. in Computer Science (IEEE honor class)
- Advisor: Professor [Hai Zhao](#), Professor [Xiaofeng Gao](#)

## Research Interests

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- Self-Evolving LLM Agents, Agentic Post-Training, Complex Reasoning in LLMs

## Selected Publications

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For the full list, please refer to the [Google Scholar Page](#).

### **SkillOS: Learning Skill Curation for Self-Evolving Agents with Reinforcement Learning**

- [Siru Ouyang](#), Jun Yan, Yanfei Chen, Rujun Han, Zifeng Wang, Rui Meng, Bhavana Dalvi Mishra, Chun-Liang Li, Yizhu Jiao, Kaiwen Zha, Maohao Shen, Vishy Tirumalashetty, George Lee, Jiawei Han, Tomas Pfister, Chen-Yu Lee
- In submission to **NeurIPS 2026**

### **MemoryArena: Benchmarking Agent Memory in Interdependent Multi-Session Agentic Tasks**

- Zexue He, Yu Wang, Churan Zhi, Yuanzhe Hu, Tzu-Ping Chen, Lang Yin, Ze Chen, Tong Arthur Wu, [Siru Ouyang](#), Zihan Wang, Jiaxin Pei, Julian McAuley, Yejin Choi, Alex Pentland
- **ICML 2026**

### **ReasoningBank: Scaling Agent Self-Evolving with Reasoning Memory**

- [Siru Ouyang](#), Jun Yan, I-Hung Hsu, Yanfei Chen, Ke Jiang, Zifeng Wang, Rujun Han, Long Le, Samira Daruki, Xiangru Tang, Vishy Tirumalashetty, George Lee, Mahsan Rofouei, Hangfei Lin, Jiawei Han, Chen-Yu Lee, Tomas Pfister
- **ICLR 2026**, featured by [VentureBeat](#), [MarkTechPost](#), and [Google Blogpost](#)

### **Discourse-Aware Language Representation**

- Zhuosheng Zhang, [Siru Ouyang](#), Hai Zhao
- **IEEE Transactions on Pattern Analysis and Machine Intelligence (Impact Factor: 18.6)**

### **RAST: Reasoning Activation through Small-model Transfer**

- [Siru Ouyang](#), Xinyu Zhu, Zilin Xiao, Minhao Jiang, Yu Meng, Jiawei Han
- **NeurIPS 2025**

### **RepoGraph: Enhancing AI Software Engineering with Repository-level Code Graph**

- [Siru Ouyang](#), Wenhao Yu, Kaixin Ma, Zhihan Zhang, Zilin Xiao, Mengzhao Jia, Jiawei Han, Hongming Zhang, Dong Yu
- **ICLR 2025**

### **ChemAgent: Self-updating Memories in Large Language Models Improves Chemical Reasoning**

- Xiangru Tang, Tianyu Hu, Muyang Ye, Yanjun Shao, Xunjian Yin, [Siru Ouyang](#), Wangchunshu Zhou, Pan Lu, Zhuosheng Zhang, Yilun Zhao, Arman Cohan, Mark Gerstein
- **ICLR 2025**

## Structured Chemistry Reasoning with Large Language Models

- [Siru Ouyang](#), Zhuosheng Zhang, Bing Yan, Xuan Liu, Yejin Choi, Jiawei Han, and Lianhui Qin.
- ICML 2024

## Does Data Contamination Make a Difference?

### Insights from Intentionally Contaminating Pre-training Data for Language Models

- Minhao Jiang, Ken Ziyu Liu, Ming Zhong, Rylan Schaeffer, [Siru Ouyang](#), Jiawei Han, Sanmi Koyejo
- **Best paper award** at DPFM Workshop ICLR 2024.

## The Shifted and The Overlooked: A Task-oriented Investigation of User-GPT Interactions

- [Siru Ouyang](#), Shuohang Wang, Yang Liu, Ming Zhong, Yizhu Jiao, Dan Iter, Reid Pryzant, Chenguang Zhu, Heng Ji, and Jiawei Han.
- EMNLP 2023

## Research Experiences

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### Google Cloud AI Research

Sunnyvale, CA

May 2025 - May 2026

- Student Researcher
- Host: Dr. [Jun Yan](#)
- Research Topic: Scaling Agent Self-Evolving with Reasoning Memory; RL for skill management

### Tencent AI Seattle Lab

Seattle, WA

May 2024 - Aug. 2024

- Research Intern
- Host: Dr. [Wenhao Yu](#), Dr. [Kaixin Ma](#)
- Research Topic: Towards repository-level understanding with plug-and-play code graph

### Microsoft Research, Redmond

Remote

May 2023 - Dec. 2023

- Research Intern, Cognitive Service Research Group and Azure AI
- Host: Dr. [Shuohang Wang](#)
- Research Topic: User-centric investigation of LLMs and NLP efficiency

### Georgia Institute of Technology

Remote

June 2021 - Dec. 2021

- Research Intern, School of Interactive Computing
- Advisor: Prof. [Diyi Yang](#)
- Research Topic: Data augmentation for abstractive conversation summarization

## Honors and Awards

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- **NeurIPS Scholar Award**, Neural Information Processing Foundation, 2025.
- **WWW Student Travel Grant Award**, The Web Conference. 2025
- **Richard T. Cheng Endowed Fellowship**, University of Illinois Urbana-Champaign. 2022
- **Outstanding Graduate at SJTU**, Shanghai Jiao Tong University. 2022
- **Rongchang Scientific and Technological Innovation Scholarship** (Rank 1<sup>st</sup> in the School of Electronic Information and Electrical Engineering), Shanghai Jiao Tong University. 2021
- **SenseTime Scholarship** (31 out of all students for artificial intelligence in China), SenseTime Incorporation. 2021
- **Google Women Tech Makers Scholarship** (110 out of 2800 students around the whole Pacific Rim), Google. 2020
- **SJTU Academic Scholarship** (5% of all the students in the School of Electronic Information and Electrical Engineering), Shanghai Jiao Tong University. 2019 and 2020