

Yitao Liu

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EDUCATION

The University of Hong Kong

9/2021 – 6/2025

BEng in Computer Science

Hong Kong

- GPA: 3.78/4.30; HKU Undergraduate Entrance Scholarship for Outstanding Students (full tuition covered, the highest honor for HKU undergraduate students); Dean's Award for Engineering Students (top 10 students faculty-wide)

Princeton University

1/2024 – 5/2024

Exchange student in Computer Science

Princeton, United States

- Selected one student from the Faculty of Engineering, HKU

EXPERIENCES

Princeton University, Department of Computer Science

1/2024 – 11/2024

Research Assistant

Advisor: Prof. Karthik Narasimhan

- Research Keywords: Language Agents (CER), Multimodal LMs (CharXiv)

The University of Hong Kong, Natural Language Processing Group

6/2023 – 12/2023

Research Assistant

Advisor: Prof. Tao Yu

- Research Keywords: Language Agents (OpenAgents, OSWorld); Pretrained Large Language Models (Lemur); Reinforcement Learning (Text2Reward)

PUBLICATIONS

* Equal contribution.

- [1] [Yitao Liu](#)*, Tianbao Xie*, Fan Zhou*, Zhoujun Cheng*, Peng Shi*, Luoxuan Weng*, Toh Jing Hua, Junning Zhao, Qian Liu, Che Liu, Leo Z. Liu, Yiheng Xu, Hongjin Su, Dongchan Shin, Caiming Xiong, Tao Yu, **OpenAgents: An Open Platform for Language Agents in the Wild**, Conference on Language Modeling (COLM) 2024. [paper] [github] [demo]
- [2] [Yitao Liu](#), Chenglei Si, Karthik Narasimhan, Shunyu Yao, *Contextual Experience Replay for Continual Learning of Language Agents*, In submission 2024. [paper]
- [3] Tianbao Xie*, Siheng Zhao*, Chen Henry Wu, [Yitao Liu](#), Qian Luo, Victor Zhong, Yanchao Yang, Tao Yu, *Text2Reward: Reward Shaping with Language Models for Reinforcement Learning*, International Conference on Learning Representations (ICLR) 2024 **Spotlight**. [paper] [project] [code]
- [4] Zirui Wang, Mengzhou Xia, Luxi He, Howard Chen, [Yitao Liu](#), Richard Zhu, Kaiqu Liang, Xindi Wu, Haotian Liu, Sadhika Malladi, Alexis Chevalier, Sanjeev Arora, Danqi Chen, **CharXiv: Charting Gaps in Realistic Chart Understanding in Multimodal LLMs**, The Conference and Workshop on Neural Information Processing Systems (NeurIPS) 2024. [website]
- [5] Yiheng Xu*, Hongjin Su*, Chen Xing*, Boyu Mi, Qian Liu, Weijia Shi, Binyuan Hui, Fan Zhou, [Yitao Liu](#), Tianbao Xie, Zhoujun Cheng, Siheng Zhao, Lingpeng Kong, Bailing Wang, Caiming Xiong, Tao Yu, *Lemur: Harmonizing Natural Language and Code for Language Agents*, International Conference on Learning Representations (ICLR) 2024 **Spotlight**. [paper] [code] [model]
- [6] Tianbao Xie, Danyang Zhang, Jixuan Chen, Xiaochuan Li, Siheng Zhao, Ruisheng Cao, Toh Jing Hua, Zhoujun Cheng, Dongchan Shin, Fangyu Lei, [Yitao Liu](#), Yiheng Xu, Shuyan Zhou, Silvio Savarese, Caiming Xiong, Victor Zhong, Tao Yu, *OSWorld: Benchmarking Multimodal Agents for Open-Ended Tasks in Real Computer Environments*, Neural Information Processing Systems (NeurIPS) 2024. [paper] [project] [code]

PROJECTS

OpenAgents: An Open Platform for Language Agents in the Wild

- 4k stars on Github
- Core contributor

Official Website and App of RIC CSSAUD, HKU

- 4k+ users
- Full-stack engineer

HONORS

HKU Undergraduate Entrance Scholarship for Outstanding Students <i>(full tuition covered, the highest honor for HKU undergraduate students)</i>	2021-2025
Dean’s Award for Engineering Students <i>(top 10 students faculty-wide)</i>	2021-2022
Dean’s Honors List <i>(top 10% students faculty-wide)</i>	2021-2022
HKSAR Government Scholarship Fund - Reaching Out Award <i>(1 student faculty-wide)</i>	2024

SKILLS

Programming	Python (PyTorch), C/C++, Bash, \LaTeX , Java, Javascript, Go, MatLab
Tools & Software	Git, CMake
Languages	English (TOEFL: 104), Mandarin (native)