

# Xixi Wu

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## SHORT BIO



Xixi Wu is a Ph.D. candidate at The Chinese University of Hong Kong. She received her B.S. and M.S. in Computer Science from Fudan University in 2021 and 2024, respectively.

Her research focuses on enhancing the long-horizon **planning**, **reasoning**, and **tool-use capabilities** for language agents. She was a Research Intern at Tongyi DeepResearch Team, contributed to the development of [Tongyi-DeepResearch-30B-A3B](#). Prior to her work on LLMs, she conducted research in Graph Learning.

## EDUCATION

- **The Chinese University of Hong Kong** Aug. 2024 -  
Hong Kong SAR  
*Ph.D. in Department of Systems Engineering and Engineering Management*
  - Advisor: **Prof. Hong Cheng**, Laboratory: **Database Group @ CUHK**
  - **Hong Kong PhD Fellowship**
- **Fudan University** Sept. 2021 - Jun. 2024  
Shanghai, China  
*M.S. in Computer Science*
  - Advisors: **Prof. Yangyong Zhu** and **Prof. Yun Xiong**
  - **National Scholarship ×2, Outstanding Graduate Student in Shanghai**
- **Fudan University** Sept. 2017 - Jun. 2021  
Shanghai, China  
*B.S. in Computer Science*

## EXPERIENCE

- **Tongyi Lab, Alibaba Group**  Jun. 2025 - Oct. 2025  
Hangzhou, China  
*Research Intern @ DeepResearch Team*
  - Mentors: **Dr. Liwen Zhang** and **Dr. Yong Jiang**
  - Topics: Developing agentic intelligence through reinforcement learning (RL)
  - Projects: **Tongyi-DeepResearch-30B-A3B (15K+ Downloads)**, **ReSum Paradigm**, **WebSailor-V1 & V2**
  - Responsibilities: (i) Contributed to the development of RL infrastructure for Tongyi-DeepResearch model and the systematical inference and evaluation for WebSailor models; (ii) Conducted research on unlocking long-horizon search intelligence for web agents and devised a summarization-based method **ReSum**, featuring in both training-free and training-required versions, i.e., a tailored ReSum-GRPO algorithm for paradigm adaptation.
- **Microsoft Research Asia**  Feb. 2024 - Jun. 2024  
Shanghai, China  
*Research Intern @ Shanghai AI/ML Group*
  - Mentors: **Dr. Yifei Shen** and **Dr. Caihua Shan**
  - Topics: Improving planning for language agents through graph learning
  - Project: **GNN4TaskPlan (140+ GitHub Stars)**
  - Responsibilities: (i) Systematically applied various graph learning methods, including graph prompts, graph search, graph language models, etc., to improve the planning capabilities for language agents; (ii) Designed a GNN-based method that demonstrates SOTA performance, strong efficiency, and is orthogonal to LLM fine-tuning and prompt engineering for task planning in language agents.

## SELECTED AWARDS

- **NeurIPS Top Reviewer (Top 0.8%)** 2024
- **Hong Kong PhD Fellowship**, Hong Kong SAR 2024
- **National Scholarship for Graduate Student (Top 1%)**, Ministry of Education, China 2022 & 2023
- **WWW 2023 Student Travel Award** 2023
- **2nd Class Scholarship for Outstanding Student**, Fudan University 2018 & 2021
- **2nd Prize of Undergraduate Mathematical Contest in Modeling**, Shanghai, China 2019
- **1st Prize in National Olympiad in Mathematics in Provinces**, Jiangsu, China 2016

## SELECTED PUBLICATIONS

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[\* denotes Equal Contribution]

[1] **ReSum: Unlocking Long-Horizon Search Intelligence via Context Summarization**

Xixi Wu<sup>\*</sup>, Kuan Li<sup>\*</sup>, Yida Zhao, Liwen Zhang, Litu Ou, Huifeng Yin, Zhongwang Zhang, Xinmiao Yu, Dingchu Zhang, Yong Jiang, Pengjun Xie, Fei Huang, Minhao Cheng, Shuai Wang, Hong Cheng, and Jingren Zhou.  
Long Paper. In *arXiv Pre-print 2025*. **16K+ GitHub Stars**

[2] **Tongyi DeepResearch Technical Report**

Xixi Wu is a co-author, contributed to the development of RL infrastructure for Tongyi-DeepResearch models.  
Technical Report. In *arXiv Pre-print 2025*. **16K+ GitHub Stars**

[3] **WebSailor: Navigating Super-human Reasoning for Web Agent**

Xixi Wu is a co-author, contributed to the systematical inference and evaluation for WebSailor.  
Technical Report. In *arXiv Pre-print 2025*. **Huggingface Daily Paper Top-1, 16K+ GitHub Stars**

[4] **WebSailor-V2: Bridging the Chasm to Proprietary Agents via Synthetic Data and Scalable Reinforcement Learning**

Xixi Wu is a co-author, contributed to the development of RL infrastructure for WebSailor.  
Technical Report. In *arXiv Pre-print 2025*. **Huggingface Daily Paper Top-3, 16K+ GitHub Stars**

[5] **Can Graph Learning Improve Planning in LLM-based Agents?**

Xixi Wu<sup>\*</sup>, Yifei Shen<sup>\*</sup>, Caihua Shan, Kaitao Song, Siwei Wang, Bohang Zhang, Jiarui Feng, Hong Cheng, Wei Chen, Yun Xiong, and Dongsheng Li.  
Main Track Long Paper. In *NeurIPS 2024*. **140+ GitHub Stars**

[6] **When Do LLMs Help With Node Classification? A Comprehensive Analysis**

Xixi Wu, Yifei Shen, Fangzhou Ge, Caihua Shan, Yizhu Jiao, Xiangguo Sun, and Hong Cheng.  
Long Paper. In *ICML 2025*. **Benchmark Integrates 10+ Datasets and 10+ Algorithms**

[7] **MoLoRAG: Bootstrapping Document Understanding via Multi-modal Logic-aware Retrieval**

Xixi Wu, Yanchao Tan, Nan Hou, Ruiyang Zhang, and Hong Cheng.  
Long Paper. In *EMNLP 2025*.

## OTHER PUBLICATIONS

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[¶ denotes Students She Mentored]

[7] **ProCom: A Few-shot Targeted Community Detection Algorithm.**

Xixi Wu, Kaiyu Xiong, Yun Xiong, Xiaoxin He, Yao Zhang, Yizhu Jiao, and Jiawei Zhang.  
Research Track Long Paper. In *KDD 2024*.

[8] **ConsRec: Learning Consensus Behind Interactions for Group Recommendation.**

Xixi Wu, Yun Xiong, Yao Zhang, Yizhu Jiao, Jiawei Zhang, Yangyong Zhu, and Philip S. Yu.  
Research Track Long Paper. In *WWW 2023*.

[9] **Dual Intents Graph Modeling for User-centric Group Discovery.**

Xixi Wu, Yun Xiong, Yao Zhang, Yizhu Jiao, and Jiawei Zhang.  
Research Track Long Paper. In *CIKM 2023*.

[10] **CLARE: A Semi-supervised Community Detection Algorithm.**

Xixi Wu, Yun Xiong, Yao Zhang, Yizhu Jiao, Caihua Shan, Yiheng Sun, Yangyong Zhu, and Philip S. Yu.  
Research Track Long Paper. In *KDD 2022*. **60+ Citations**

[11] **DDIPrompt: Drug-Drug Interaction Event Prediction based on Graph Prompt Learning.**

Yingying Wang<sup>¶</sup>, Yun Xiong, Xixi Wu, Xiangguo Sun, and Jiawei Zhang.  
Research Track Long Paper. In *CIKM 2024*.

[12] **Towards Adaptive Neighborhood for Advancing Temporal Interaction Graph Modeling.**

Siwei Zhang<sup>¶</sup>, Xi Chen, Yun Xiong, Xixi Wu, Yao Zhang, Yongrui Fu, Yinglong Zhao, and Jiawei Zhang.  
Research Track Long Paper. In *KDD 2024*.

## ACADEMIC SERVICE

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- **Conference Reviewer:** NeurIPS 2024 - 2025, ICLR 2025 - 2026, KDD 2024 - 2025, ICML 2025, AAAI 2026
- **Journal Reviewer:** IEEE Transactions on Knowledge and Data Engineering (TKDE), Transactions on Machine Learning Research (TMLR)