

# YUTING NING

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## EDUCATION

<b>The Ohio State University</b>	08/2024 - 06/2029 (expected)
Ph.D. in Computer Science and Engineering	
Advisor: <a href="#">Huan Sun</a>	
GPA: 4.0/4.0	
<b>University of Science and Technology of China</b>	09/2021 - 06/2024
M.S. in Computer Science and Technology	
Advisor: <a href="#">Enhong Chen</a>	
GPA: 4.11 / 4.3 (Ranking: 1/116)	
<b>University of Science and Technology of China</b>	09/2017 - 06/2021
B.S. in Computer Science and Technology	
GPA: 3.93 / 4.3 (Ranking: 5/253)	

## RESEARCH EXPERIENCE

<b>The Ohio State University</b>	08/2024 - Present
Research Assistant, <a href="#">OSU NLP Group</a> , Advisor: <a href="#">Huan Sun</a> and <a href="#">Yu Su</a>	Columbus, OH
<b>University of Science and Technology of China</b>	09/2021 - 06/2024
Research Assistant, <a href="#">BDAA-BASE Group</a> , Advisor: <a href="#">Enhong Chen</a>	Hefei, China
<b>University of Southern California</b>	07/2023 - 12/2023
Visiting Student, <a href="#">INK Lab</a> , Advisor: <a href="#">Xiang Ren</a>	Los Angeles, CA
<b>Microsoft Research Asia</b>	07/2020 - 12/2020
Research Intern, <a href="#">Social Computing Group</a> , Mentor: <a href="#">Fangzhao Wu</a> and <a href="#">Xing Xie</a>	Beijing, China
<b>University of Science and Technology of China</b>	03/2020 - 07/2020
Undergraduate Research Assistant, Advisor: <a href="#">Qi Liu</a>	Hefei, China

## PUBLICATIONS

\* means equal contribution

- Mind2Web 2: Evaluating Agentic Search with Agent-as-a-Judge**  
Boyu Gou\*, Zanming Huang\*, **Yuting Ning\***, Yu Gu, Michael Lin, Weijian Qi, Andrei Kopanov, Botao Yu, Bernal Jiménez Gutiérrez, Yiheng Shu, Chan Hee Song, Jiaman Wu, Shijie Chen, Hanane Nour Moussa, Tian-shu Zhang, Jian Xie, Yifei Li, Tiansci Xue, Zeyi Liao, Kai Zhang, Boyuan Zheng, Zhaowei Cai, Viktor Rozgic, Morteza Ziyadi, Huan Sun, Yu Su  
*NeurIPS Datasets & Benchmarks Track, 2025.* [[PDF](#)] [[Website](#)]
- Is Your LLM Secretly a World Model of the Internet? Model-Based Planning for Web Agents**  
Yu Gu\*, Kai Zhang\*, **Yuting Ning\***, Boyuan Zheng\*, Boyu Gou, Tiansci Xue, Cheng Chang, Sanjari Srivastava, Yanan Xie, Peng Qi, Huan Sun, Yu Su  
*TMLR, 2025.* [[PDF](#)] [[Code](#)]
- RedTeamCUA: Realistic Adversarial Testing of Computer-Use Agents in Hybrid Web-OS Environments**  
Zeyi Liao\*, Jaylen Jones\*, Linxi Jiang\*, Yuting Ning, Eric Fosler-Lussier, Yu Su, Zhiqiang Lin, Huan Sun  
*In submission to ICLR, 2025.* [[PDF](#)] [[Code](#)] [[Website](#)]

**4. Agent Learning via Early Experience**

Kai Zhang, Xiangchao Chen, Bo Liu, Tianci Xue, Zeyi Liao, Zhihan Liu, Xiya Wang, **Yuting Ning**, Zhaorun Chen, Xiaohan Fu, Jian Xie, Yuxuan Sun, Boyu Gou, Qi Qi, Zihang Meng, Jianwei Yang, Ning Zhang, Xian Li, Ashish Shah, Dat Huynh, Hengduo Li, Zi Yang, Sara Cao, Lawrence Jang, Shuyan Zhou, Jiacheng Zhu, Huan Sun, Jason Weston, Yu Su, Yifan Wu

*In submission to ICLR, 2025.* [[PDF](#)]

**5. ScienceAgentBench: Toward Rigorous Assessment of Language Agents for Data-Driven Scientific Discovery**

Ziru Chen, Shijie Chen, **Yuting Ning**, Qianheng Zhang, Boshi Wang, Botao Yu, Yifei Li, Zeyi Liao, Chen Wei, Zitong Lu, Vishal Dey, Mingyi Xue, Frazier N Baker, Benjamin Burns, Daniel Adu-Ampratwum, Xuhui Huang, Xia Ning, Song Gao, Yu Su, Huan Sun

*ICLR, 2025.* [[PDF](#)] [[Code](#)] [[Website](#)]

**6. In Search of the Long-Tail: Systematic Generation of Long-Tail Knowledge via Logical Rule Guided Search**

Huihan Li, **Yuting Ning**, Zeyi Liao, Siyuan Wang, Xiang Lorraine Li, Ximing Lu, Faeze Brahman, Wenting Zhao, Yejin Choi, Xiang Ren

*EMNLP, 2024.* [[PDF](#)] [[Code](#)] [[Dataset](#)]

**7. EduNLP: Towards a Unified and Modularized Library for Educational Resources**

Zhenya Huang, **Yuting Ning**, Longhu Qin, Shiwei Tong, Shangzi Xue, Tong Xiao, Xin Lin, Jiayu Liu, Qi Liu, Enhong Chen, Shijing Wang

*Technical Report, 2024.* [[PDF](#)] [[Code](#)]

**8. Pandora: Towards General World Model with Natural Language Actions and Video States**

Jiannan Xiang\*, Guangyi Liu\*, Yi Gu\*, Qiyue Gao, **Yuting Ning**, Yuheng Zha, Zeyu Feng, Tianhua Tao, Shibo Hao, Yemin Shi, Zhengzhong Liu, Eric P. Xing, Zhiting Hu

*Technical Report, 2024.* [[PDF](#)] [[Code](#)] [[Website](#)]

**9. Decompose, Analyze and Rethink: Solving Intricate Problems with Human-Like Reasoning Cycle**

Shangzi Xue, Zhenya Huang, Jiayu Liu, Xin Lin, **Yuting Ning**, Binbin Jin, Xin Li, Qi Liu

*NeurIPS, 2024.* [[PDF](#)]

**10. Towards a Holistic Understanding of Mathematical Questions with Contrastive Pre-training**

**Yuting Ning**, Zhenya Huang, Enhong Chen, Shiwei Tong, Zheng Gong, Shijin Wang

*AAAI, 2023.* [[PDF](#)] [[Code](#)]

**11. A Novel Approach for Auto-Formulation of Optimization Problems**

**Yuting Ning**, Jiayu Liu, Longhu Qin, Tong Xiao, Shangzi Xue, Zhenya Huang, Qi Liu, Enhong Chen, Jinze Wu

*NeurIPS NL4Opt Competition, 2023.* [[PDF](#)] [[Code](#)]

**12. Efficiently Measuring the Cognitive Ability of LLMs: An Adaptive Testing Perspective**

Yan Zhuang, Qi Liu, **Yuting Ning**, Weizhe Huang, Rui Lv, Zhenya Huang, Guanhao Zhao, Zheng Zhang, Qingyang Mao, Shijin Wang, Enhong Chen

*arXiv preprint, 2023.* [[PDF](#)]

**13. Federated User Modeling from Hierarchical Information**

Qi Liu, Jinze Wu, Hao Wang, Zhenya Huang, **Yuting Ning**, Ming Chen, Enhong Chen  
*TOIS, 2023.* [[PDF](#)]

**14. Beyond Homophily: Robust Graph Anomaly Detection via Neural Sparsification**

Zheng Gong, Guifeng Wang, Ying Sun, Qi Liu, **Yuting Ning**, Hui Xiong, Jingyu Peng  
*IJCAI, 2023.* [[PDF](#)]

**15. TechPat: Technical Phrase Extraction for Patent Mining**

Ye Liu, Han Wu, Zhenya Huang, Hao Wang, **Yuting Ning**, Jianhui Ma, Qi Liu, Enhong Chen  
*TKDE*, 2023. [PDF]

#### 16. Hierarchical Personalized Federated Learning for User Modeling

Jinze Wu, Qi Liu, Zhenya Huang, **Yuting Ning**, Hao Wang, Enhong Chen, Jinfeng Yi, Bowen Zhou  
*WWW*, 2021. [PDF]

### TEACHING EXPERIENCE

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#### Machine Learning and Knowledge Discovery

Fall 2022

Teaching Assistant, University of Science and Technology of China

### SERVICES

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#### Reviewer

- Main Conferences: AAAI 2026
- Workshops: Reasoning and Planning for LLMs @ ICLR 2025, Multi-Turn Interactions in LLMs @ NeurIPS 2025

### SELECTED HONORS & AWARDS

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<b>University Fellowship</b> , The Ohio State University	2024
<b>Suzhou Industrial Park Scholarship</b> , University of Science and Technology of China	2023
<b>First Prize Academic Scholarship</b> , University of Science and Technology of China	2021, 2022, 2023
<b>Top 5% Outstanding Graduates of USTC</b> , University of Science and Technology of China	2021
<b>Baosteel Outstanding Student Scholarship</b> (1/1800+ in USTC), Baosteel Education Fund	2020
<b>National Scholarship</b> , Ministry of Education of the People's Republic of China	2019