

YUTING NING

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EDUCATION

| | |
|---|------------------------------|
| The Ohio State University Ph.D. in Computer Science and Engineering Advisor: Huan Sun | 08/2024 - 06/2029 (expected) |
| University of Science and Technology of China M.S. in Computer Science and Technology Advisor: Enhong Chen | 09/2021 - 06/2024 |
| University of Science and Technology of China B.S. in Computer Science and Technology | 09/2017 - 06/2021 |

RESEARCH EXPERIENCE

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

PUBLICATIONS

* means equal contribution

- Mind2Web 2: Evaluating Agentic Search with Agent-as-a-Judge**
Boyuan Gou*, Zhanming 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, Tianci 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*, Boyuan Gou, Tianci Xue, Cheng Chang, Sanjari Srivastava, Yanan Xie, Peng Qi, Huan Sun, Yu Su
TMLR, 2025. [[PDF](#)] [[Code](#)]
- Agent Learning via Early Experience**
Kai Zhang, Xiangchao Chen, Bo Liu, Tianci Xue, Zeyi Liao, Zhihan Liu, Xiyao Wang, **Yuting Ning**, Zhaorun Chen, Xiaohan Fu, Jian Xie, Yuxuan Sun, Boyuan 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](#)]

4. **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](#)]
5. **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](#)]
6. **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](#)]
7. **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](#)]
8. **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](#)]
9. **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](#)]
10. **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](#)]
11. **Efficiently Measuring the Cognitive Ability of LLMs: An Adaptive Testing Perspective**
 Yan Zhuang, Qi Liu, **Yuting Ning**, Weizhe Huang, Rui Lv, Zhenya Huang, Guan hao Zhao, Zheng Zhang, Qingyang Mao, Shijin Wang, Enhong Chen
arXiv preprint, 2023. [[PDF](#)]
12. **Federated User Modeling from Hierarchical Information**
 Qi Liu, Jinze Wu, Hao Wang, Zhenya Huang, **Yuting Ning**, Ming Chen, Enhong Chen
TOIS, 2023. [[PDF](#)]
13. **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](#)]
14. **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](#)]
15. **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

Machine Learning and Knowledge Discovery

Fall 2022

Teaching Assistant, University of Science and Technology of China

SERVICES

Reviewer

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

SELECTED HONORS & AWARDS

University Fellowship, The Ohio State University 2024

Suzhou Industrial Park Scholarship, University of Science and Technology of China 2023

First Prize Academic Scholarship, University of Science and Technology of China 2021, 2022, 2023

Top 5% Outstanding Graduates of USTC, University of Science and Technology of China 2021

Baosteel Outstanding Student Scholarship (1/1800+ in USTC), Baosteel Education Fund 2020

National Scholarship, Ministry of Education of the People's Republic of China 2019