

YUTING NING

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EDUCATION

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

RESEARCH EXPERIENCE

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

PREPRINTS

* means equal contribution

1. Yu Gu*, Kai Zhang*, **Yuting Ning***, Boyuan Zheng*, Boyu Gou, Tianci Xue, Cheng Chang, Sanjari Srivastava, Yanan Xie, Peng Qi, Huan Sun, Yu Su. Is Your LLM Secretly a World Model of the Internet? Model-Based Planning for Web Agents. *arXiv preprint*, 2025. [PDF] [Code]
2. 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. Pandora: Towards General World Model with Natural Language Actions and Video States. *Technical Report*, 2024. [PDF] [Code] [Website]
3. Zhenya Huang, **Yuting Ning**, Longhu Qin, Shiwei Tong, Shangzi Xue, Tong Xiao, Xin Lin, Jiayu Liu, Qi Liu, Enhong Chen, Shijing Wang. EduNLP: Towards a Unified and Modularized Library for Educational Resources. *Technical Report*, 2024. [PDF] [Code]
4. **Yuting Ning**, Jiayu Liu, Longhu Qin, Tong Xiao, Shangzi Xue, Zhenya Huang, Qi Liu, Enhong Chen, Jinze Wu. A Novel Approach for Auto-Formulation of Optimization Problems. *arXiv preprint*, 2023. [PDF] [Code]
5. Yan Zhuang, Qi Liu, **Yuting Ning**, Weizhe Huang, Rui Lv, Zhenya Huang, Guanhao Zhao, Zheng Zhang, Qingyang Mao, Shijin Wang, Enhong Chen. Efficiently Measuring the Cognitive Ability of LLMs: An Adaptive Testing Perspective. *arXiv preprint*, 2023. [PDF]

PUBLICATIONS

1. 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. ScienceAgentBench: Toward Rigorous Assessment of Language Agents for Data-Driven Scientific Discovery. *ICLR*, 2025. [\[PDF\]](#) [\[Code\]](#) [\[Website\]](#)
2. Huihan Li, **Yuting Ning**, Zeyi Liao, Siyuan Wang, Xiang Lorraine Li, Ximing Lu, Faeze Brahman, Wenting Zhao, Yejin Choi, Xiang Ren. In Search of the Long-Tail: Systematic Generation of Long-Tail Knowledge via Logical Rule Guided Search. *EMNLP*, 2024. [\[PDF\]](#) [\[Code\]](#) [\[Dataset\]](#)
3. Shangzi Xue, Zhenya Huang, Jiayu Liu, Xin Lin, **Yuting Ning**, Binbin Jin, Xin Li, Qi Liu. Decompose, analyze and rethink: Solving intricate problems with human-like reasoning cycle. *NeurIPS*, 2024. [\[PDF\]](#)
4. **Yuting Ning**, Zhenya Huang, Enhong Chen, Shiwei Tong, Zheng Gong, Shijin Wang. Towards a Holistic Understanding of Mathematical Questions with Contrastive Pre-training. *AAAI*, 2023. [\[PDF\]](#) [\[Code\]](#)
5. Qi Liu, Jinze Wu, Hao Wang, Zhenya Huang, **Yuting Ning**, Ming Chen, Enhong Chen. Federated User Modeling from Hierarchical Information. *ACM Transactions on Information Systems (TOIS)*, 2023. [\[PDF\]](#)
6. Zheng Gong, Guifeng Wang, Ying Sun, Qi Liu, **Yuting Ning**, Hui Xiong, Jingyu Peng. Beyond Homophily: Robust Graph Anomaly Detection via Neural Sparsification. *IJCAI*, 2023. [\[PDF\]](#)
7. Ye Liu, Han Wu, Zhenya Huang, Hao Wang, **Yuting Ning**, Jianhui Ma, Qi Liu, Enhong Chen. TechPat: Technical Phrase Extraction for Patent Mining. *ACM Transactions on Knowledge Discovery from Data (TKDE)*, 2023. [\[PDF\]](#)
8. Jinze Wu, Qi Liu, Zhenya Huang, **Yuting Ning**, Hao Wang, Enhong Chen, Jinfeng Yi and Bowen Zhou. Hierarchical Personalized Federated Learning for User Modeling. *WWW*, 2021. [\[PDF\]](#)
9. **Yuting Ning**, Ye Liu, Zhenya Huang, Haoyang Bi, Qi Liu, Enhong Chen, Dan Zhang. Stable and Diverse: A Unified Approach for Computerized Adaptive Testing. *CCIS*, 2021. [\[PDF\]](#)

TEACHING EXPERIENCE

Machine Learning and Knowledge Discovery	09/2022 - 02/2023
Teaching Assistant, University of Science and Technology of China	

SELECTED HONORS AND AWARDS

University Fellowship , The Ohio State University	2024
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