Heng Wang

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Research Interests

I am broadly interested in natural language processing, social network analysis, and graph mining.

Education

Xi'an Jiaotong University, Xi'an, Shaanxi, China (member of the C9 league in China)   2021.09 - present

Computer Science and Technology Experimental Class (Qian Xuesen Honor Science)

GPA: 94.96/100 (4.17/4.3) [transcript]

Thesis Advisor: Prof. Minnan Luo

Publications (* indicates equal contribution)

[1] **Can Language Models Solve Graph Problems in Natural Language?**

Heng Wang*, Shangbin Feng*, Tianxing He, Zhaoxuan Tan, Xiaochuang Han, Yulia Tsvetkov.

In *Proceedings of the NeurIPS 2023* **(spotlight)**

[2] **Detecting Spoilers in Movie Reviews with External Movie Knowledge and User Networks**

Heng Wang, Wenqian Zhang, Yuyang Bai, Zhaoxuan Tan, Shangbin Feng, Qinghua Zheng, Minnan Luo.

In *Proceedings of EMNLP 2023*

[3] **TwiBot-22: Towards Graph-Based Twitter Bot Detection**

Shangbin Feng*, Zhaoxuan Tan*, Herun Wan*, Ningnan Wang*, Zilong Chen*, Binchi Zhang*, Qinghua Zheng, Wenqian Zhang, Zhenyu Lei, Shujie Yang, Xinshun Feng, Qingyue Zhang, Hongrui Wang, Yuhan Liu, Yuyang Bai, Heng Wang, Zijian Cai, Yanbo Wang, Lijing Zheng, Zihan Ma, Jundong Li, Minnan Luo.

In *Proceedings of the NeurIPS, Datasets and Benchmarks Track, 2022*

[4] **BotMoE: Twitter Bot Detection with Community-Aware Mixtures of Modal-Specific Experts**

Yuhan Liu, Zhaoxuan Tan, Heng Wang, Shangbin Feng, Qinghua Zheng, Minnan Luo.

In *Proceedings of SIGIR 2023*

[5] **Resolving Knowledge Conflicts in Large Language Models**

Yike Wang*, Shangbin Feng*, Heng Wang, Weijia Shi, Vidhisha Balachandran, Tianxing He, Yulia Tsvetkov.

arXiv preprint 2023

Honors and Awards

Golden Award (team 3rd place), ACM ICPC Shaanxi Provincial Programming Contest	2023
Silver Award (ranking 26/115), ACM ICPC Asia Hong Kong Regional	2023
National Scholarship	2022
Academic Research Award, Xi'an Jiaotong University	2022
Silver Award, CCF Collegiate Computer System and Programming Contest	2022
Silver Award (ranking 61/697), ACM ICPC Asia Kunming Regional	2022
Outstanding Student Leaders, Xi'an Jiaotong University	2022
Dean's List, Xi'an Jiaotong University	2022

Research Experience

Research Assistant, Luo lab Undergraduate Division (LUD) @ Xi'an Jiaotong University

- **Member:** Worked on graph-based Twitter bot detection, heterogeneous graph anomaly detection, and graph neural networks pre-training.   2022.02 - present

- Authored 1*NeurIPS'22, 1*SIGIR'23.

Advisor: Prof. Minnan Luo

Research Assistant, TsvetShop @ University of Washington   2023.02 - 2023.06

- Working on probing the graph reasoning abilities of large language models.

Advisor: Ph.D. student Shangbin Feng, Prof. Yulia Tsvetkov

Services

Reviewer for EMNLP   2023

Reviewer for TOIS   2023

Reviewer for NeurIPS, Datasets and Benchmarks Track   2022, 2023

Skills

- Programming Skills: C/C++, Python, PyTorch, Pascal
- Language Skills: Mandarin (native), English (TOFEL 106: R 30, L 29, S 23, W 24)