

# Heng Wang

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## Research Interests

I am broadly interested in social network analysis, graph mining, and natural language processing. My previous research includes Twitter bot detection, spoiler detection and graph representation learning.

## 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.

*arXiv preprint 2023.*

### [2] 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, Yuhao 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.*

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

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

*In Proceedings of SIGIR 2023.*

### [4] 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.

*arXiv preprint 2023. reviewed at ARR, meta: 4*

## Honors and Awards

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 - present

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

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

## **Services**

Reviewer for NeurIPS, Datasets and Benchmarks Track

2022

## **Skills**

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