Shijie Wang

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11 Yuk Choi Road, Hung Hom, Kowloon, Hong Kong

EDUCATION

PhD Candidate, The Hong Kong Polytechnic University — Hong Kong
Advisor: Dr. Wenqi FAN (supervisor) and Prof. Qing LI (co-supervisor) — 08/2022−Present
BSc Information and Computing Science, University of Liverpool — Liverpool, UK
Grade: First Class Honors Degree — 09/2018−07/2022

RESEARCH INTERESTS

- Large Language Models, Graph Neural Networks (GNNs), Recommender Systems (RecSys), Trustworthy AI.

PUBLICATION RECORDS

* indicates equal contribution.

[1] **Shijie Wang**, Wenqi Fan, Xiao-yong Wei, Xiaowei Mei, Shanru Lin, Qing Li "Multi-agent Attacks for Black-box Social Recommendations", ACM Transactions on Information Systems (**TOIS**), 2024.

[2] Liang-bo Ning*, **Shijie Wang***, Wenqi Fan, Qing Li, Xu Xin, Hao Chen, Feiran Huang. "CheatAgent: Attacking LLM-Empowered Recommender Systems via LLM Agent", In ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD**), 2024.

[3] Wenqi Fan, **Shijie Wang**, Jiani Huang, Zhikai Chen, Yu Song, Wenzhuo Tang, Haitao Mao, Hui Liu, Xiaorui Liu, Dawei Yin, Qing Li. "Graph Machine Learning in the Era of Large Language Models (LLMs)", Under Review, 2024.

[4] Jiahao Zhang, Lin Wang, **Shijie Wang**, Wenqi Fan. "Graph Unlearning with Efficient Partial Retraining", In the Web Conference (**WWW** PhD Symposium), 2024.

[5] Yujuan Ding, Wenqi Fan, Liangbo Ning, **Shijie Wang**, Hengyun Li, Dawei Yin, Tat-Seng Chua, and Qing Li. "A Survey on RAG Meets LLMs: Towards Retrieval-Augmented Large Language Models", In ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD**), 2024.

[6] **Shijie Wang**, Shangbo Wang. "A novel Multi-Agent Deep RL Approach for Traffic Signal Control", in IEEE International Conference on Pervasive Computing and Communications Workshops (**PerCOM** Workshops), 2023.

Tutorials:

[7] Yujuan Ding, **Shijie Wang**, Liangbo Ning, Qiaoyu Tan, Wenqi Fan, and Qing Li. "Recommender Systems in the Era of Large Language Models (LLMs)", in International Joint Conference on Artificial Intelligence (**IJCAI**, Tutorial), 2024.

[8] Wenqi Fan, Xiangyu Zhao, Lin Wang, Xiao Chen, Jingtong Gao, Qidong Liu, and **Shijie Wang**. "Trustworthy Recommender Systems: Foundations and Frontiers", In ACM SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD**, Tutorial), 2023.

[9] Wenqi Fan, Xiangyu Zhao, **Shijie Wang**, Xiao Chen, Jingtong Gao, Qidong Liu, and Lin Wang. "Trustworthy Recommender Systems: Foundations and Frontiers", In International Joint Conference on Artificial Intelligence (**IJCAI**, Tutorial), 2023.

[10] Wenqi Fan, Xiangyu Zhao, Lin Wang, Xiao Chen, Jingtong Gao, Qidong Liu, and **Shijie Wang**. "Trustworthy Recommender Systems", In The Web Conference (**WWW**, Tutorial), 2023.

PROFESSIONAL SERVICES

Conference Program Committee:

2024: AAAI, ICDM 2023: AAAI

Conference Reviewer:

KDD24 KDD23 WWW23 IJCAI23 MM23 WSDM23 CIKM22 LOG22

Journal Reviewer:

ACM Transactions on Information Systems (TOIS)
IEEE Transactions on Knowledge and Data Engineering (TKDE)
IEEE Internet of Things Journal (IoT-J)
ACM Transactions on Knowledge Discovery from Data (TKDD)

WORK EXPERIENCE

Baidu — 06/2024−Now
Research Intern — *Search Science Team*

- Large language model for recommendation algorithm development.

The Hong Kong Polytechnic University — 09/2022−08/2023
Research Assistant — *Computing Department*

- Towards interactions between adversarial robustness and fairness for trustworthy graph neural networks;
- Algorithm implementation and paper writing.

Xian-Jiaotong Liverpool University — 06/2021−04/2022
Research Assistant — *Computing Department*

- Traffic Signal Controller Design by using multi-agent Reinforcement Learning approach.

- Published one paper in PerCom2023 workshop.

Teaching Experience

The Hong Kong Polytechnic University

- Teaching Assistant, COMP5511: Artificial Intelligence Concepts — Fall'2024
- Teaching Assistant, COMP3511: Legal Aspects and Ethics of Computing — Spring'2024
- Teaching Assistant, COMP5511: Artificial Intelligence Concepts — Fall'2023