

# Shijie Wang

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## EDUCATION

### **PhD Computing, The Hong Kong Polytechnic University**

**Advisor:** Dr. FAN Wenqi (supervisor) and Prof. LI Qing (co-supervisor)

### **BSc Information and Computing Science, University of Liverpool**

**Grade:** First Class Honors Degree

Hong Kong

08/2022–Present

Liverpool, UK

09/2018–07/2022

## RESEARCH INTERESTS

- ♦ Recommender Systems (RecSys), Graph Neural Networks (GNNs), Trustworthy AI

## PUBLICATION RECORDS

[1] **Shijie Wang**, Wenqi Fan, Qing Li. “Untargeted Black-box Attacks for Social Recommendations”, submitted to **ICDE 2024**

[2] “A Review for LLM-Generated Text Detection: Methods, Models, Datasets”, Ongoing

[3] Jiahao Zhang, **Shijie Wang**, Wenqi Fan, Lin Wang, Qing Li. “Selective Retraining for Graph Neural Networks Unlearning”, under review

[4] **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

[5] 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.

[6] 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.

[7] 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

2023: AAAI

### **Conference Reviewer and Sub-Reviewer:**

KDD23 WWW23 IJCAI 23 MM23 WSDM23 CIKM22 LOG22

### **Journal Reviewer and Sub-Reviewer:**

ACM Transactions on Information Systems (TOIS)

IEEE Transactions on Knowledge and Data Engineering (TKDE)

ACM Transactions on Knowledge Discovery from Data (TKDD)

## WORK EXPERIENCE

### **The Hong Kong Polytechnic University**

*Research Assistant*

05/2023–Present

*Computing Department*

- ♦ Recommendations in Online Customer-to-Customer Marketplaces;
- ♦ Algorithm implementation and paper writing.

### **The Hong Kong Polytechnic University**

*Research Assistant*

08/2022–05/2023

*Computing Department*

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

### **Xian-Jiaotong Liverpool University**

*Research Assistant*

06/2021–08/2022

*Computing Department*

- ♦ Traffic Signal Controller Design by using multi-agent Reinforcement Learning approach;
- ♦ Published one paper in PerCom2023 workshop.

### **Qibei Smart City Big Data Technology**

*Software Development Engineer*

07/2020–08/2020

*Software Development Department*

- ♦ Completed development, testing and maintenance tasks in accordance with the design documentation and as stipulated;
- ♦ Carried out the code writing and testing work in accordance with the company’s procedures, standards and specifications;
- ♦ Assisted in the software development process by maintaining the database, analyzing and resolving data issues.

### **Yinglink Technology (Beijing) Co., Ltd.**

*Computer Programmer*

07/2019–08/2019

*Software Development Department*

- ♦ Acquired knowledge of artificial intelligence’s machine learning methods and algorithms;
- ♦ Realized artificial intelligence development programming;
- ♦ Assisted with the development of software and the maintenance of websites.

## **RESEARCH WORK**

### **Autonomous Driving Simulator Development Project**

06/2021-08/2021

*Scrum Master*

*Supervisor: Shangbo Wang*

- ♦ Read papers selected by the supervisor and learned from two postgraduate seniors in related search disciplines;
- ♦ Assisted team members in implementing the algorithm in python, oversaw the project's primary development activity, led and insured the project's progress and completion ;
- ♦ Awarded a certificate from the school and an RMB2,000 scientific scholarship.

### **Software Engineering Group Project**

03/2021-06/2021

*Scrum Master*

*Supervisor: Soon Phei. Tin*

- ♦ Divided the project into four sprints, applied Azure to distribute tasks and took care of programming and development;
- ♦ Communicated with group members, product owner and developers regularly to ensure the smooth progress of the project;
- ♦ Developed the Color Crush game successfully with group members within 12 weeks.

### **Introduction to Networking: Large Efficient Flexible and Trusty Files Sharing**

10/2020-12/2020

*Individual Developer*

*Supervisor: Fei Cheng*

- ♦ Designed a framework for server-side and client-side integration, and implemented service functions including continuous file transmission, file encryption, data communication visualization and partial updates, Etc.;
- ♦ Learned the applications of TCP and UDP connections and enhanced the understanding of computer networks.

### **Robot Design and Programming Learning Project**

11/2018-12/2018

*Programmer*

*Supervisor: Haining Liang*

- ♦ Collaborated with other group members to construct a Lego robot;
- ♦ Completed and tested the programming portion in order for the Lego robot to perform the two tasks of navigating through the maze and tracking the line.

## **OTHERS**

- ♦ Language: English (Fluent); Chinese (Native)
- ♦ IT Skills: Pytorch, Tensorflow, C++, Java, JS, Assembly and Python Programming, Deep Learning, Machine Learning, Reinforcement Learning
- ♦ Software: Adobe Premiere, Adobe PhotoShop, Pycharm, Eclipse, Notepad++, MATLAB, Visual Studio, IntelliJ Ideal, Netbeans, Mysql
- ♦ Hobbies: Programming, Software Development, Video Editing, Writing, Guitar, Frisbee, Movies, Music