

EDUCATION

- University of Southampton** Southampton, UK
Ph.D. student in Computer Science 2023–2027
- Web and Internet Science (WAIS) Group
 - Research Interests: Data Marketplaces, Distributed Systems, Security, Privacy
- University of Bristol** Bristol, UK
M.S. in Communication Networks and Signal Processing 2021–2022
- Thesis: “Proof of Location assisted Self-supervised Multi-Agent Cooperation Framework”
 - Modules include Principles of Communication Systems, Mobile Communication Systems, Digital Filter & Signal Processing, Network Protocol Principles
- Xidian University** Xi’an, China
B.Eng. in Information Security 2016–2020
- Thesis: “Framework design for Federated Learning”
 - Modules include Digital Signal Processing, Computer and Network Security, Database Principle

EXPERIENCE

- IEEE Student Branch, University of Southampton** Southampton, UK
Treasurer, Publicity (Webmaster) 2023.12–present
- Responsible for maintaining the financial accounts.
 - Responsible for promoting the activities of the student branch, e.g. through social media etc, and maintaining the IEEE SB website
- University of Southampton** Southampton, UK
Teaching Assistant (TA) 2023.10–present
- Foundations of Computer Science
 - Python Lab
 - Data Management
- Toshiba BRIL** Bristol, UK
Research Intern 2022.6–2023.1
- Research in secure and secret cooperation in multi-agent/robot systems
 - Mainly focused on security concerns about swarm robots in the logistics industry
 - Study how to implement Distributed Ledger Technology (DLT) into swarm robotics to secure the cooperation among heterogeneous swarms
- TP-Link Technologies Co., Ltd.** Shenzhen, China
Senior Technical Engineer 2020–2021
- Responsible for all kinds of network devices include routers, extenders, adaptors, modems
 - Acting as a senior technical engineer, working with the R&D team for issues that are impacting the performance and compatibility of smart home devices.
 - Together with the R&D team, optimized performance of Smart DHCP on extenders

- Proficiency with Wireshark packets capturing and analysing tool
- Locating problems on all kinds of network devices remotely

Imperial College London

Visiting Student

London, UK
Summer 2019

- Data Science Summer School
- Gained expertise in Machine Learning, Blockchain, Innovation & Entrepreneurship
- Presentation of Group Project Design

School of Cyber Engineering, Xidian University

Research Intern in Tom H. Luan’s Lab

Xi’an, China
2019–2020

- Research in Federated Learning
- Learned knowledge about Federated Learning in terms of security issues and deployment
- Studied several privacy protecting technologies include Differential Privacy, Blockchain, InterPlanetary File System
- Undergraduate Thesis Based on the survey of Federated Learning

SKILLS

- **Programming:** Python, Matlab, C
- **Tools/Techs:** LaTeX, Linux, MySQL, Git, Markdown
- **Blog–Server:** Nginx/Apache, PHP, Wordpress/Typecho

LANGUAGES

- **English:** Profile C (IELTS 6.5 BAND), CET-6 (475)
- **Chinese:** Mother tongue, native speaker

PUBLICATIONS AND PATENTS

1. **EW. Wu**, M. Jurt, B. Holden, and Y. Jin, “Proof of location verification towards trustworthy collaborative multi-vendor robotic systems”, *IEEE International Conference on Industrial Technology, ICIT2024, 2024*. Status: Accepted
2. **W. Wu**, M. Jurt, B. Holden, “Proof of Location assisted Self-Supervised Multi-Robot Cooperation Framework”, *US Patent, 2023*. Status: Submitted

SCHOLARSHIPS AND AWARDS

- “Engineering and the Environment Research Studentship” (FEPS, University of Southampton) 2023–2027
- “The Texas Instruments Prize” (University of Bristol) 2023
- “Excellent Undergraduate Thesis” (Xidian University) 2020
- “Data Science Summer School Scholarship” (Xidian University) 2019
- “Excellent League Member” of College Student Union 2016–2017
- “3rd prize in Xidian spark cup competition” (Xidian University) 2016