

# Liuhuo Wan

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in Liuhuo Wan

🌐 <https://cosunshine.github.io/>



## Education

**Ph.D., The University of Queensland (UQ), Australia**

Apr 2022 – Oct 2025 (Expected)

Major: Software Engineering, School of Electrical Engineering and Computer Science

Supervisor: Associate Professor **Guangdong Bai**

**M.Sc., National University of Singapore (NUS), Singapore**

Sep 2018 – Jun 2019

Major: Computer Science, School of Computing

GPA: 4.0/5.0

**B.Sc., Dalian University of Technology (DUT), China**

Sep 2014 – Jun 2018

Major: Software Engineering, School of Software

GPA: 88/100

## Research Interests



- **Software Engineering:** Utilize both LLM techniques and static/dynamic methods for software testing and analysis.
- **Software Security:** Analysis and testing of web, mobile, and IoT security.

## Research Publications



- **C1 - [MobiCom'25]** Z. Li, C. Yan, **L. Wan**, H. Zhuang, P. Hu, G. Bai, Y. Shen, "WinSpy: Cross-window Side-channel Attacks on Android's Multi-window Mode," in Proceedings of the 31st Annual International Conference On Mobile Computing And Networking, 2024. **Just Accepted.**
- **C2 - [WWW'25]** C. Yan, B. Guan, Y. Li, M. H. Meng, **L. Wan**, G. Bai, "Understanding and Detecting File Knowledge Leakage in GPT App Ecosystem," in Proceedings of the ACM on Web Conference 2025.
- **C3 - [ASE'24]** C. Yan, R. Ren, M. H. Meng, **L. Wan**, T. Y. Ooi, and G. Bai, "Exploring chatgpt app ecosystem: Distribution, deployment and security," in Proceedings of the 39th IEEE/ACM International Conference on Automated Software Engineering, 2024. **ACM SIGSOFT Distinguished Paper Award.**
- **C4 - [WWW'24]:** **L. Wan**, K. Wang, K. Mahadewa, H. Wang, and G. Bai, "Don't bite off more than you can chew: Investigating excessive permission requests in trigger-action integrations," in Proceedings of the ACM on Web Conference 2024.
- **C5 - [WWW'24]:** **L. Wan**, K. Wang, H. Wang, and G. Bai, "Is it safe to share your files? an empirical security analysis of google workspace," in Proceedings of the ACM on Web Conference 2024.
- **C6 - [ICECCS'24]** **L. Wan**, C. Yan, M. H. Meng, K. Wang, and H. Wang, "Analyzing excessive permission requests in google workspace add-ons," in International Conference on Engineering of Complex Computer Systems, 2024.

- C7 - [ADMA'22] **L. Wan**, Y. Zhang, R. Li, R. Ko, L. Hoffman, and G. Bai, "Satb: A testbed of iot-based smart agriculture network for dataset generation," in International Conference on Advanced Data Mining and Applications, Springer, 2022. **Best Paper Runner Up Award.**









## Teaching Experience

- 2022 – 2023      **Casual Academic**, CSSE7610 - Concurrency: Theory and Practice
- 2023 – 2024      **Casual Academic**, COMP3320 - Vulnerability Assessment and Penetration Testing  
I assisted in creating assignments and problem sets, delivering tutorials and lab sessions, as well as evaluating lab tasks, assignments, group projects, and the final examination.

## Funded Projects

- UQ Cyber      Cyber Seed Project: Security Investigation in Queensland Smart Agriculture. **My role:** I contributed to the research and delivered the audit presentation.
- DP      Australian Research Council Discovery Projects: Security and Privacy Compliance in the Emerging Web App Ecosystem. **My role:** My research project is part of my supervisor's Discovery Project (DP). I am responsible for the project design and academic output.

## Honors and Awards

- 2025      **Richard Jago Memorial Prize**, School of Electrical Engineering and Computer Science, Australia
-  **Scholarship**, UQU Postgraduate Bursary Program, Australia
- 2024      **Travel Grant**, UQ ITEE, Australia
-  **Scholarship**, UQU Postgraduate Bursary Program, Australia
- 2023      **Bug Bounty Program**, Google **Bug Hunter Reward**, America
- 2019      **Scholarship**, Tuition Fee Scholarship, Singapore
- 2018      **Merit Award**, Outstanding Graduate, China
- 2016      **Scholarship**, National Scholarship, China

## Talks

- T1 - **Seed Funding Talks at UQ**, Cyber Security in Smart Agriculture, July, 2024
- T2 - **Research Talk at NUS**, Security and Privacy of Web-based Collaborative Platforms, May, 2024
- T3 - **WWW Conference**, Two oral presentations, May, 2024
- T4 - **ADMA Conference**, SATB: A testbed of IoT-based smart, November, 2022

## Mentoring Experience

### Master Students

Guokai Tang, University of Queensland -> Current: Ph.D. Student in Huazhong University of Technology.  
Zicong Liu, University of Queensland, Topic: Investigating the Privacy of Team Platforms.  
Zeng Li, Shandong University, Topic: Side-channel Attacks on Android's Multi-window Mode.  
Jieping Liu, University of Queensland, Topic: Investigating Security Vulnerabilities in the GitHub Ecosystem.

## Professional Services

### Sub-Reviewer:

- The Network and Distributed System Security Symposium (NDSS), 2024
- The ACM International Conference on the Foundations of Software Engineering (FSE), 2024
- The ACM SIGSAC Conference on Computer and Communications Security (CCS), 2024
- The International Conference on Engineering of Complex Computer Systems (ICECCS), 2023
- IEEE/ACM International Conference on Automated Software Engineering (ASE), 2023

### External Reviewer:

- The ACM Conference on Data and Application Security and Privacy (CODASPY), 2024

### Reviewer:

- IEEE Transactions on Dependable and Secure Computing (TDSC)
- IEEE Transactions on Services Computing (TSC)

## Collaborators

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**Guangdong Bai**, Associate Professor at University of Queensland

**Haoyu Wang**, Professor at Huazhong University of Science and Technology

**Kailong Wang**, Associate Professor at University of Huazhong University of Science and Technology

**Yiran Shen**, Professor at Shandong University

## Industry Experience

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| 2019 – 2022 |  <b>Software Developer at Shopee</b><br>Algorithm Design for Recommendation Systems      |
| 2019 – 2019 |  <b>Research Intern at NUS Suzhou</b><br>Develop popular ML frameworks for the institute |