

Fuman XIE

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 Research Profile: <https://xie00059.github.io/>

Education

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| 2022 – Present | Doctor of Philosophy in Computer Science (Year 3)
The University of Queensland, Australia

Research Area: Software Privacy & Software Testing
Supervisor: Prof. Guangdong Bai |
| 2021 | Master of Engineering in Software Field
The University of Queensland, Australia |
| 2016 – 2020 | Bachelor of Software Engineering (Hons)
The University of Queensland, Australia |

Academic Achievements

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| Scholarships | Postgraduate Bursary Scholarship
APS & UQU Postgraduate Bursary Program

ACM SIGSOFT CAPS Scholarship
The IEEE/ACM International Conference on Automated Software Engineering (ICSE'24)

SMeW Scholarship
The IEEE/ACM International Conference on Software Engineering (ICSE'23)

ACM SIGSOFT CAPS Scholarship
The IEEE/ACM International Conference on Automated Software Engineering (ASE'22)

Waseda Summer Session Scholarship
The University of Queensland |
| Awards | Best Paper Runner-Up
The International Conference Advanced Data Mining and Applications (ADMA'21)

Dean's Commendation for Academic Excellence
The University of Queensland |

Publications

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| c1 | (Under Review) F. Xie , H. Meng, F. Yu, G. Bai, "Checking Icon Consistency of Emerging VPA ecosystem", <i>submitted to the International Conference on Software Engineering (ICSE)</i> , 2024 |
| c2 | (Under Review) S. Li, L. Bu, G. Bai, F. Xie , K. Chen, C. Yue, "Model-Enhanced LLM Driven VUI Testing of VPA Apps", <i>submitted to the International Symposium on Software Testing and Analysis (FSE)</i> , 2025 |
| c3 | C. Yan, H. Meng, F. Xie , G. Bai, "Investigating Documented Privacy Changes in Android OS", <i>ACM International Conference on the Foundations of Software Engineering (FSE)</i> , 2024 |
| c4 | F. Xie , C. Yan, H. Meng, S. Teng, Y. Zhang, G. Bai, "Are Your Requests Your True Needs? Checking Excessive Data Collection in VPA Apps", <i>46th International Conference on Software Engineering (ICSE)</i> , 2024 |
| c5 | C. Yan, F. Xie , H. Meng, Y. Zhang, G. Bai, "On the quality of privacy policy documents of virtual personal assistant", <i>24rd Privacy Enhancing Technologies Symposium (PoPETs)</i> , 2024 |
| c6 | F. Xie , Y. Zhang, C. Yan, S. Li, L. Bu, K. Chen, Z. Huang, G. Bai "Scrutinizing privacy policy compliance of virtual personal assistant apps", <i>37th IEEE/ACM International Conference on Automated Software Engineering (ASE)</i> , 2022 |

- c7 **F. Xie**, Y. Zhang, H. Wei, G. Bai, “UQ-AAS21: A comprehensive dataset of amazon alexa skills”, *17th International Conference Advanced Data Mining and Applications (ADMA)*, 2021, p.159–173

Research Community Services

Program Committee Member	The IEEE/ACM International Conference on Software Engineering (ICSE’25) The Network and Distributed System Security Symposium (NDSS’25) The Network and Distributed System Security Symposium (NDSS’24) The IEEE/ACM International Conference on Software Engineering (ICSE’24) The International Conference on Mining Software Repositories (MSR’23)
Reviewer	Reviewer in the Shadow PC-track (ICSE’25) Reviewer in the Artifact Evaluation-track (NDSS’25) Reviewer in the Artifact Evaluation-track (NDSS’24) Reviewer in the Artifact Evaluation-track (ICSE’24) Reviewer in the Junior PC-track (MSR’23) Sub reviewer (IJCAI’23, ASE’23, NDSS’24, ICSE’24)
Organization Volunteer	The IEEE/ACM International Conference on Software Engineering (ICSE’23) The International Conference on Formal Engineering Methods (ICFEM’23) The International Conference Advanced Data Mining and Applications (ADMA’22)
Student Thesis Mentor	The University of Queensland

Research Projects

2022 – Present (ongoing)	Privacy and Security Assessment of Virtual Personal Assistant Apps Conduct privacy analysis on Virtual Personal Assistant Apps to promote the development of VPA ecosystem
2022	Conducting Large Scale Study on Virtual Personal Assistant Ecosystem Maintain, update existing of UQ-AAS21 dataset, and analyze the dataset
2021	UQ-AAS21: Constructing Large Dataset for Virtual Personal Assistant Applications Target on Amazn Alexa skills and collect skills data and construct a comprehensive large dataset

Referee

A/Prof. Guangdong Bai

Associate Professor

School of Information Technology and Electrical Engineering

The University of Queensland, Brisbane, Australia

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