

# Mingxue Zhang

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🏠 <https://zhangmx1997.github.io>

## RESEARCH INTERESTS

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Web Security, Software Security

## PROFESSIONAL EXPERIENCE

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**Assistant Professor**

Nov. 2022 – Present

School of Cyber Science and Technology, Zhejiang University

## EDUCATION

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**The Chinese University of Hong Kong**

Aug. 2018 – Jul. 2022

Ph.D. in Computer Science and Engineering

Advised by Prof. Wei Meng

**Wuhan University**

Sep. 2014 – Jun. 2018

B.Eng in Computer Science and Technology (*Hongyi Talent Class*)

GPA: **3.89 / 4.0**, ranked **no. 1** in School of Computer Science

## PUBLICATIONS

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1. **Sensitive Behavioral Chain-focused Android Malware Detection Fused with AST Semantics.**

Jiacheng Gong, Weina Niu, Song Li, [Mingxue Zhang](#), Xiaosong Zhang.

*In IEEE Transactions on Information Forensics and Security (TIFS).*

2. **GraphTunnel: Robust DNS Tunnel Detection Based on DNS Recursive Resolution Graph.**

Guangyuan Gao, Weina Niu, Jiacheng Gong, Dujuan Gu, Song Li, [Mingxue Zhang](#), Xiaosong Zhang.

*In IEEE Transactions on Information Forensics and Security (TIFS).*

3. **FuzzCache: Optimizing Web Application Fuzzing Through Software-Based Data Cache.**

Penghui Li, [Mingxue Zhang](#) ✉.

*In Proceedings of The 31st ACM Conference on Computer and Communications Security (CCS), Salt Lake City, Utah, October 2024.*

★ Distinguished Paper Award

4. **Holistic Concolic Execution for Dynamic Web Applications via Symbolic Interpreter Analysis.**

Penghui Li, Wei Meng, [Mingxue Zhang](#), Chenlin Wang, and Changhua Luo.

*In Proceedings of 45th IEEE Symposium on Security and Privacy (S&P), San Francisco, CA, May 2024.*

5. **CSChecker: Revisiting GDPR and CCPA Compliance of Cookie Banners on the Web.**

[Mingxue Zhang](#), Wei Meng, You Zhou, and Kui Ren.

*In proceedings of 46th International Conference on Software Engineering (ICSE), Lisbon, Portugal, April 2024.*

**6. JSISOLATE: Lightweight In-Browser JavaScript Isolation.**

Mingxue Zhang and Wei Meng.

*In proceedings of the 29th ACM Joint European Software Engineering Conference and on the Foundations of Software Engineering (ESEC/FSE), Athens, Greece, August 2021.*

**7. Revealer: Detecting and Exploiting Regular Expression Denial-of-Service Vulnerabilities.**

Yinxi Liu, Mingxue Zhang, and Wei Meng.

*In proceedings of the 42nd IEEE Symposium on Security and Privacy (S&P), San Francisco, CA, May 2021.*

**8. Detecting and Understanding JavaScript Global Identifier Conflicts on the Web.**

Mingxue Zhang and Wei Meng.

*In proceedings of the 28th ACM Joint European Software Engineering Conference and on the Foundations of Software Engineering (ESEC/FSE), Sacramento, CA, November 2020.*

**9. MineThrottle: Defending against Wasm In-Browser Cryptojacking.**

Weikang Bian, Wei Meng, and Mingxue Zhang.

*In proceedings of the Web Conference 2020 (WWW), Taipei, Taiwan, April 2020.*

**10. Poster: Finding JavaScript Name Conflicts on the Web.**

Mingxue Zhang, Wei Meng, and Yi Wang.

*In proceedings of the 26th ACM Conference on Computer and Communications Security (CCS), London, UK, November 2019.*

**11. All Your Clicks Belong to Me: Investigating Click Interception on the Web.**

Mingxue Zhang, Wei Meng, Sangho Lee, Byoungyoung Lee, and Xinyu Xing.

*In proceedings of the 28th USENIX Security Symposium (Security), Santa Clara, CA, August 2019.*

**12. InstantCryptoGram: Secure Image Retrieval Service.**

Minghui Li, Mingxue Zhang, Qian Wang, Sherman S. M. Chow, Minxin Du, Yanjiao Chen, and Chenliang Li.

*In proceedings of the IEEE Conference on Computer Communications (INFOCOM), Honolulu, HI, April 2018*

## PATENT

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**1. A Real-time Communication Method for Smartphone based on Hidden Acoustical Signal.**

Qian Wang, Man Zhou, Mingxue Zhang, and Xiuying Chen.

CN106161785B, SIPO (The State Intellectual Property Office of The People's Republic of China), 2019

## SELECTED HONORS AND AWARDS

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**CCS 2024 Distinguished Paper Award**

Oct. 2024

**Qizhen Outstanding Young Scholar**

2024 – 2026

Zhejiang University

<b>CUHK Postgraduate Studentship</b>	2018 – 2022
The Chinese University of Hong Kong	
<b>Outstanding Graduate of School of Computer Science</b>	Jul. 2018
Wuhan University	
<b>National Scholarship</b>	Nov. 2017
The Ministry of education of China	
<b>First-class Scholarship of Hongyi Talent Class</b>	Sep. 2015
Wuhan University	

## SERVICES

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<b>Teaching</b>	ZJU
- Software Security	Spring 2024
- Introduction to Cyber Security	Spring 2024
- Object-oriented Programming in C++	Fall 2024
<b>Technical Program Committee</b>	
- The Network and Distributed System Security Symposium (NDSS)	2025
- IEEE/ACM International Conference on Software Engineering (ICSE)	2025
- International Symposium on Software Testing and Analysis (ISSTA)	2024
- SecWeb Workshop	2024
- ACM SIGSOFT Symposium on the Foundation of Software Engineering/ European Software Engineering Conference (ESEC/FSE)	2023
<b>Journal Reviewer</b>	
- Empirical Software Engineering	
- Transactions on Networking	
<b>External Reviewer</b>	
- The Web Conference (WWW)	2020, 2021, 2022
- The ACM Asia Conference on Computer and Communications Security (AsiaCCS)	2021, 2022
- The ACM Conference on Computer and Communications Security (CCS)	2021
<b>Teaching Assistant</b>	CUHK
- ENGG5015 Computer and Network Security	2019, 2021
- CSCI3170 Introduction to Database Systems	2020
- CSCI4140 Open-Source Software Project Development	2018, 2019
- ENGG1110A Problem Solving by Programming	2018