Mingxue Zhang

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RESEARCH INTERESTS

Web Security, Software Security

PROFESSIONAL EXPERIENCE

Assistant Professor   Nov. 2022 – Present

School of Cyber Science and Technology, Zhejiang University

EDUCATION

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

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

   Penghui Li, Mingxue Zhang* (Corresponding Author).

   To appear in Proceedings of The 31th ACM Conference on Computer and Communications Security (CCS).

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

   Penghui Li, Wei Meng, Mingxue Zhang, Chenlin Wang, and Changhua Luo.

   To appear in Proceedings of 45th IEEE Symposium on Security and Privacy (S&P).

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

   Mingxue Zhang, Wei Meng, You Zhou, and Kui Ren.

   To appear in Proceedings of 46th International Conference on Software Engineering (ICSE), April 2024.

4. **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.

5. **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.

6. **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.

7. **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.

8. **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.

9. **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.

10. **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

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 Intellectul Property Office of The People's Republic of China), 2019

SELECTED HONORS AND AWARDS

Qizhen Outstanding Young Scholar   2023 – 2026
Zhejiang University

CUHK Postgraduate Studentship   2018 – 2022
The Chinese University of Hong Kong

Outstanding Graduate of School of Computer Science   Jul. 2018
Wuhan University

National Scholarship   Nov. 2017
The Ministry of education of China

First-class Scholarship of Hongyi Talent Class   Sep. 2015
Wuhan University

SERVICES

Journal Reviewer

- Empirical Software Engineering
- Transactions on Networking

Program Committee Member

- ACM SIGSOFT Symposium on the Foundation of Software Engineering/ European Software Engineering Conference (ESEC/FSE)   2023
- International Symposium on Software Testing and Analysis (ISSTA)   2024
- IEEE/ACM International Conference on Software Engineering (ICSE)   2025
- SecWeb Workshop   2024

Teaching   ZJU

- Software Security   Spring 2024
- Introduction to Cyberspace Security   Spring 2024

External Reviewer

- 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

Teaching Assistant   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