

PING HE

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EDUCATION

Zhejiang University , Hangzhou, China	September 2022 - Present
Ph.D. in Computer Science and Technology, College of Computer Science and Technology	
Supervisor: <u>Prof. Shouling Ji</u> .	
Zhejiang University , Hangzhou, China	September 2018 - June 2022
B.E. in Information Security, College of Computer Science and Technology	GPA: 91.44/100.00

RESEARCH INTERESTS

I am broadly interested in computer security and machine learning. My research bridges the domains of computer security and machine learning, particularly emphasizing the intersection of AI with computer security. Presently, I am investigating the security vulnerabilities of AI-driven systems. Parallely, I am passionate about leveraging AI to fortify security applications.

PUBLICATIONS

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- [1] **Efficient Query-Based Attack Against ML-Based Android Malware Detection Under Zero Knowledge Setting.** Ping He, Yifan Xia, Xuhong Zhang, and Shouling Ji.
In *Proceedings of the 2023 ACM SIGSAC Conference on Computer and Communications Security (CCS)*, November 2023.
 - [2] **Static Semantics Reconstruction for Enhancing JavaScript-WebAssembly Multilingual Malware Detection.** Yifan Xia, Ping He, Xuhong Zhang, Peiyu Liu, Shouling Ji, and Wenhai Wang.
In *Computer Security—ESORICS 2023: 28th European Symposium on Research in Computer Security (ESORICS)*, September 2023.
 - [3] **Towards Understanding Bogus Traffic Service in Online Social Networks.** Ping He, Xuhong Zhang, Changting Lin, Ting Wang, and Shouling Ji.
In *Frontiers of Information Technology & Electronic Engineering (FITEE)*, March 2024.
 - [4] **BaDExpert: Extracting Backdoor Functionality for Accurate Backdoor Input Detection.** Tinghao Xie, Xiangyu Qi, Ping He, Yiming Li, Jiachen T. Wang, Prateek Mittal.
In *the Twelfth International Conference on Learning Representations (ICLR)*, May 2024.

SERVICES

Reviewer Service

- [TIFS] IEEE Transactions on Information Forensics and Security: 2023, 2024
- [TIP] IEEE Transactions on Image Processing: 2023

External Reviewer

- [CCS] The ACM Conference on Computer and Communications Security: 2022, 2023, 2024
- [USENIX Security] USENIX Security Symposium: 2024
- [IJCAI] International Joint Conference on Artificial Intelligence: 2023
- [FITEE] Frontiers of Information Technology & Electronic Engineering: 2024
- [IEEE DSC] IEEE Conference on Dependable and Secure Computing: 2022
- [TIIS] KSII Transactions on Internet and Information Systems: 2021

SKILLS

Machine Learning: Familiar with scikit-learn, PyTorch.

Program Analysis: Android application reverse engineering.

Programming Language: Fluent in Python, Java, C/C++. Experienced in x86_64, arm, RISC-V assembly language.

Languages: English, Chinese (native)

SELECTED HONORS AND AWARDS

Graduate with Merit A Performance , Zhejiang University	2023
Outstanding Bachelor Thesis , College of Computer Science and Technology of Zhejiang University	2022
Research Rising Star in Undergraduate Student , College of Computer Science and Technology of Zhejiang University	2021
Provincial Scholarships , The People's Government of Zhejiang Province	2020
First Class Prize , National Mathematics Competition for College Student	2019

TALKS

2023. 11	Presenter, ML Application Session, CCS 2023 <i>Efficient Query-Based Attack Against ML-Based Android Malware Detection Under Zero Knowledge Setting</i>
2024. 04	Speaker, SJTU-CS GLOBAL LUNCH SEMINAR SERIES, SJTU <i>On the Robustness of ML-Based Android Malware Detector</i>