JIANLIANG WU

Ph.D. Student

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EDUCATION

Purdue University   *West Lafayette, IN, USA*
Ph.D. IN COMPUTER SCIENCE   *Aug. 2017 - Present*
• Co-advised by Dongyan Xu and Antonio Bianchi

Shandong University   *Jinan, Shandong, China*
M.E IN COMPUTER SCIENCE   *Aug. 2012 - May. 2015*
• Advised by Shanqing Guo

Shandong University   *Jinan, Shandong, China*
B.S IN COMPUTER SCIENCE   *Aug. 2008 - May. 2012*
• Overall GPA: 85%

RESEARCH INTERESTS

IoT Security, System Security, Mobile Security, Program Analysis, Binary Analysis

PUBLICATIONS

BLESA: Spoofing Attacks against Reconnections in Bluetooth Low Energy. *Jianliang Wu*, Yuhong Nan, Vireshwar Kumar, Dave (Jing) Tian, Antonio Bianchi, Mathias Payer, Dongyan Xu. Proceedings of the USENIX Workshop on Offensive Technologies (WOOT), 2020.
Best Paper Award

BlueShield: Detecting Spoofing Attacks in Bluetooth Low Energy (BLE) Networks. *Jianliang Wu*, Yuhong Nan, Vireshwar Kumar, Mathias Payer, and Dongyan Xu. In Proceedings of 23rd International Symposium on Research in Attacks, Intrusions and Defenses (RAID), 2020.

All your sessions are belong to us: Investigating authenticator leakage through backup channels on Android. Bai, Guangdong, Jun Sun, *Jianliang Wu*, Quanqi Ye, Li Li, Jin Song Dong, and Shanqing Guo. In 2015 20th International Conference on Engineering of Complex Computer Systems (ICECCS), 2015.
Best Paper Award

PaddyFrog: systematically detecting confused deputy vulnerability in Android applications. *Jianliang Wu*, Tingting Cui, Tao Ban, Shanqing Guo, and Lizhen Cui. Security and Communication Networks (SCN), vol. 8 no. 13 (2015).

Automatically detecting ssl error-handling vulnerabilities in hybrid mobile web apps. Zuo, Chaoshun, *Jianliang Wu*, and Shanqing Guo. In Proceedings of the 10th ACM Symposium on Information, Computer and Communications Security (ASIACCS), 2015.

TrustFound: Towards a Formal Foundation for Model Checking Trusted Computing Platforms. Bai, Guangdong, Jianan Hao, *Jianliang Wu*, Yang Liu, Zhenkai Liang, and Andrew Martin. In International Symposium on Formal Methods (FM), 2014.

WORK EXPERIENCE

PurSec lab, Purdue University   *West Lafayette, IN*
RESEARCH ASSISTANT   *Aug. 2017 - PRESENT*
• IoT security research.

People's Bank of China, Jinan Branch   *Jinan, China*
SENIOR STAFF MEMBER   *Aug. 2015 - Jun. 2017*
• System maintenance.

Software Engineering Lab, NUS   *Singapore*
RESEARCH ASSISTANT   *Oct. 2013 - Apr. 2014*
• Mobile security research combined with formal methods.

Security Research Lab, Shandong University   *Jinan, China*
Research Assistant   *Aug. 2012 - May. 2015*
- Mobile (Android) security research.

HONORS & AWARDS

Best Paper Award   *2020*
BLESA: Spoofing Attacks against Reconnections in Bluetooth Low Energy

Best Paper Award   *2015*
All your sessions are belong to us: Investigating authenticator leakage through backup channels on Android

First Prize of Scientific and Technical Innovation   *2011*

First Prize of Shandong Province in MCM   *2010*

TALKS & PRESENTATIONS

BlueShield: Detecting Spoofing Attacks in Bluetooth Low Energy Networks   *Oct. 2020*
23rd International Symposium on Research in Attacks, Intrusions and Defenses (RAID'20)

BLESA: Spoofing Attacks against Reconnections in Bluetooth Low Energy   *Sep. 2020*
21st CERIAS Annual Security Symposium

BLESA: Spoofing Attacks against Reconnections in Bluetooth Low Energy   *Aug. 2020*
14th USENIX Workshop on Offensive Technologies (WOOT'20)

PROFESSIONAL SERVICES

SecureComm   *2020*
Subreviewer

Conference on Dependable Systems and Networks (DSN)   *2020*
Subreviewer

Network and Distributed System Security Symposium (NDSS)   *2020*
Subreviewer