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 M.E IN COMPUTER SCIENCE

Advised by Shanging 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

LIGHTBLUE: Automatic Profile-Aware Debloating of Bluetooth Stacks. Jianliang Wu, Ruoyu Wu, Daniele Antonioli, Mathias Payer, Nils Ole Tippenhauer, Dongyan Xu, Dave (Jing) Tian, and Antonio Bianchi. In Proceedings of the 30th USENIX Security Symposium (Security), 2021

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

Best Paper Award CSAW'20 Applied Research Competition Finalist

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, Quangi 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 · IoT security research.

People's Bank of China, Jinan Branch

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.

Jinan, China

Jinan, Shandong, China

Aug. 2012 - May. 2015

Aug. 2017 - PRESENT

Security Research Lab, Shandong University

RESEARCH ASSISTANT

Subreviewer

• Mobile (Android) security research.

Jinan, China Aug. 2012 - May. 2015

HONORS & AWARDS

Best Paper Award BLESA: Spoofing Attacks against Reconnections in Bluetooth Low Energy	2020
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 23rd International Symposium on Research in Attacks, Intrusions and Defenses (RAID'20)	Oct. 2020
BLESA: Spoofing Attacks against Reconnections in Bluetooth Low Energy 21st CERIAS Annual Security Symposium	Sep. 2020
BLESA: Spoofing Attacks against Reconnections in Bluetooth Low Energy 14th USENIX Workshop on Offensive Technologies (WOOT'20)	Aug. 2020
Professional Services	
SecureComm Subreviewer	2020
Conference on Dependable Systems and Networks (DSN) Subreviewer	2020
Network and Distributed System Security Symposium (NDSS)	2020