JIANLIANG WU

PH.D. STUDENT

☑ wu1220@purdue.edu

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

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.

Top 10 Finalists of CSAW Best Applied Research 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

SENIOR STAFF MEMBER Aug. 2015 - Jun. 2017

· System maintenance.

Software Engineering Lab, NUS

RESEARCH ASSISTANT Oct. 2013 - Apr. 2014

• Mobile security research combined with formal methods.

Jinan, Shandong, China

Aug. 2012 - May. 2015

Jinan, China

Singapore

Security Research Lab, Shandong University

RESEARCH ASSISTANT

Subreviewer

• Mobile (Android) security research.

Jinan, China Aug. 2012 - May. 2015

HONORS & AWARDS

BLESA: Spoofing Attacks against Reconnections in Bluetooth Low Energy	2020
Best Paper Award All your sessions are belong to us: Investigating authenticator leakage through backup channels on Android	2015
First Prize of Scientific and Technical Innovation	201
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