

JIANLIANG WU

PH.D. STUDENT

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EDUCATION

Purdue University

PH.D. IN COMPUTER SCIENCE

- Co-advised by Dongyan Xu and Antonio Bianchi

Shandong University

M.E IN COMPUTER SCIENCE

- Advised by Shanqing Guo

Shandong University

B.S IN COMPUTER SCIENCE

- Overall GPA: 85%

West Lafayette, IN, USA

Aug. 2017 - Present

Jinan, Shandong, China

Aug. 2012 - May. 2015

Jinan, Shandong, China

Aug. 2008 - May. 2012

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 **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*, 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

RESEARCH ASSISTANT

- IoT security research.

People's Bank of China, Jinan Branch

SENIOR STAFF MEMBER

- System maintenance.

Software Engineering Lab, NUS

RESEARCH ASSISTANT

- Mobile security research combined with formal methods.

West Lafayette, IN

Aug. 2017 - PRESENT

Jinan, China

Aug. 2015 - Jun. 2017

Singapore

Oct. 2013 - Apr. 2014

Security Research Lab, Shandong University

RESEARCH ASSISTANT

- 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

All your sessions are belong to us: Investigating authenticator leakage through backup channels on Android

2015

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)

Subreviewer

2020