

ZHILONG WANG

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EDUCATION

Pennsylvania State University

Feb. 2018 - Nov. 2018

Research Assistant in College of Information Sciences and Technology

Research: ARM Security, Kernel Security

Advisor: [Xinyu Xing](#)

Nanjing University

Sep. 2016 - Present

M.S. in Department of Computer Science and Technology

Major: Computer Science and Technology

Advisor: [Bing Mao](#)

Zhengzhou University

Sep. 2012 - Jul. 2016

Earned Bachelor's Degree of Computer Science and Technology

– GPA: 3.6/4.0 Ranking: 1/240

RESEARCH INTERESTS

To detect, analyze and solve security problems with dynamic and static program analysis;

To deploy security strategies by modifying the Kernel and Compiler;

To secure the system and software via the new features (ARM ETM, Intel AES-NI) of CPU;

RESEARCH PROJECTS

Cyber Security Lab, Penn State University.

Research Assistant

Feb. 2018 - Feb. 2018

Hardware-assisted Modular Kernel Protections.

Security Group, Nanjing University.

Member of Academic Dept.

Sep. 2016 - Jun. 2017

Design dynamic stack guard[1,2] and new program obfuscation techniques[3].

Robotics Lab, Zhengzhou University.

Group Member

Oct. 2013 - Jul. 2014

Design and develop automatic robot control algorithms.

SKILLS

C Language, Java, Compiler Hacking, Program Analysis, Linux Kernel, Software and System Security.

ACADEMIC ACTIVITIES

DragonStar 2017: “[System Security](#)”

Nanjing

18th Jul. 2016 - 22th Jul. 2018

Lecturer: [Zhiqiang Lin](#)

DragonStar 2016: “[Program Analysis and Software Security](#)”

Nanjing

05th Jun. 2017 -

09th Jun. 2017

Lecturer: [Xiangyu Zhang](#)

PUBLIC SERVICE

- Commissary in Charge of Studies in Zhengzhou University *Feb. 2013 - Jun. 2016*
- Class Monitor in Nanjing University *Sep. 2016 - Present*
- Assistant for Course “Software Security” in Nanjing University *Sep. 2017 - Feb. 2017*
- Assistant for Course DragonStar2017 - “Program Analysis and Software Security” ¹ in Nanjing University *05th Jun. 2017 - 09th Jun. 2017*

AWARDS & HONORS

Scholarship of Shenzhen Stock Exchange, 2018.

Second-class Academic Scholarship of Nanjing University, 2017 & ² 2018.

First-class Academic Scholarship of Nanjing University, 2016.

The first prize of Program Testing Competition of Henan Province, 2015.

First-class scholarship of Zhengzhou University, 2013 & 2015 & 2016.

The first prize of China Robot Competition and RoboCup China Open (Beijing), 2014.

The first prize of ACM Computer Programming Contest of Zhengzhou University, 2014.

National Scholarship, 2014.

PUBLICATIONS

1. **Zhilong Wang**, Xuhua Ding, Chengbin Pang, Jian Guo, Jun Zhu and Bing Mao. “To Detect Stack Buffer Overflow With Polymorphic Canaries.” In IEEE/IFIP International Conference on Dependable Systems and Networks (DSN), 2018.
2. Jun Zhu, Weiping Zhou, **Zhilong Wang**, Dongliang Mu, and Bing Mao. “DiffGuard: Obscuring Sensitive Information in Canary Based Protections.” International Conference on Security and Privacy in Communication Systems (SecureComm). Springer, Cham, 2017.
3. Dongliang Mu, Jia Guo, Wenbiao Ding, **Zhilong Wang**, Bing Mao, and Lei Shi. “ROPOB: Obfuscating Binary Code via Return Oriented Programming.” International Conference on Security and Privacy in Communication Systems (SecureComm). Springer, Cham, 2017.

¹ <http://dragonstar.ict.ac.cn/dragonstar/curriculum2017.asp>

² Obtained annually.