

Zhilong Wang

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EDUCATION

Nanjing University

Sept. 2016 - Present

M.S. in Department of Computer Science and Technology

Major: Computer Science and Technology

Group: [System and Software Security](#)

Advisor: [Bing Mao](#)

Pennsylvania State University

Feb. 2018 - Sept. 2018

Research Assistant in College of Information Sciences and Technology

Research: ARM Security, Kernel Security

Zhengzhou University

Sept. 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 - Sept. 2018

Hardware-assisted Modular Kernel Protections.

Security Group, Nanjing University.

Member of Academic Dept.

Sept. 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 2016: “[System Security](#)”

Nanjing

18th Jul. 2016 - 22th Jul. 2016

Lecturer: [Zhiqiang Lin](#)

DragonStar 2017: “[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 *Sept. 2016 - Present*
- Assistant for Course “Software Security” in Nanjing University *Sept. 2017 - Feb. 2017*

AWARDS & HONORS

Scholarship of Shenzhen Stock Exchange, 2018.

Second-class Academic Scholarship of Nanjing University, 2017 &¹ 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 Robot Cup 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 Obtained annually.