

# Zhilong Wang

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## EDUCATION

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**Nanjing University** *Sep. 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 - Nov. 2018*  
Research Assistant in College of Information Sciences and Technology  
Research: ARM Security, Kernel Security

**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

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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

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**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

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

## ACADEMIC ACTIVITIES

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**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

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- 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” <sup>1</sup> in Nanjing University *05th Jun. 2017 - 09th Jun. 2017*

## AWARDS & HONORS

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Scholarship of Shenzhen Stock Exchange, 2018.

Second-class Academic Scholarship of Nanjing University, 2017 & <sup>2</sup> 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

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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.

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

<sup>2</sup> Obtained annually.