

ZHENPENG LIN

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EDUCATION

Penn State University 2019 – Present
Ph.D student advised by Xinyu Xing

Wuhan University 2018 – 2019
Master student

Xidian University 2014 – 2018
B.E. in Cyberspace Security

RESEARCH INTERESTS

Reverse Engineering, Binary Analysis, and Vulnerability Exploitation

PUBLICATION

A Systematic Study of Elastic Objects in Kernel Exploitation. **ACM CCS 2020**
Yueqi Chen, Zhenpeng Lin, Xinyu Xing

TALKS

Bypassing Many Kernel Protections Using Elastic Objects. **Linux Security Summit (LSS) Europe 2020**
Yueqi Chen, Zhenpeng Lin

EXPERIENCES

Baidu X-Lab May. 2020 – July. 2020
Research Intern, worked with Kang Li

Worked on escalating the exploitability of Linux kernel vulnerabilities.

Arizona State University Apr. 2019 – July. 2019
Summer Intern, worked with Ruoyu (Fish) Wang

Focused on optimizing IR lifting to accelerate symbolic execution engine (e.g., angr).

Automatic Exploit Generation System July. 2017 - Sep. 2018
independent researcher

Won 3rd place in RHG 2017 and 1st place in Baidu AI CTF 2018.

Chaitin Tech Inc. Sep. 2017 – Jan. 2018
Security Researcher

Worked on vulnerability discovery and exploitation, found critical vulnerabilities causing remote code execution (RCE) and local privilege escalation (LPE) in HUAWEI's products: CVE-2017-8187, CVE-2017-8188, CVE-2017-8190, CVE-2017-8191, CVE-2017-17223, CVE-2017-17221, CVE-2017-17222.

HONORS AND AWARDS

Team Shellphish

DEF CON Qualifier 2019	5 th Prize	2019
DEF CON Finals 2019	10 th Prize	2019

Team Nu1L

Baidu AI CTF	1 st Prize	2018
WCTF Junior	1 st Prize	2018
OCTF/TCTF	4 th Prize	2018
BCTF	1 st Prize	2017

COMMUNITY SERVICES

External reviewer

USENIX Security 2020, ACM CCS 2020, USENIX Security 2021, IEEE Security and Privacy 2021