# Zheng Yu

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#### **EDUCATION**

Northwestern University	Evanston, IL
Ph.D. Student, Computer Science Department, Advised by Xinyu Xing	Sep 2022 - Present
• Research Interests: AI Security, Software Security	
<ul> <li>Focused on improving the security of software and AI systems.</li> </ul>	
Shanghai Jiao Tong University	Shanghai, China
Bachelor of Computer Science, Member of ACM Class	Sep 2018 - June 2022
Yali High School	Hunan, China
High School Student, focused on Algorithmic Competition	Sep 2015 - June 2018
Experience	
Teaching Assistant	Sep 2024 – Dec 2024
Introduction of Computer Security (COMP_SCI 350), Northwestern University	
Project Mentor	${ m Apr}\ 2022-{ m Oct}\ 2022$
Summer of Code 2022, Google	
Security Engineer	June $2021 - May 2022$
$JD.com,\ Inc.$	
Research Assistant	Feb 2021 – April 2021
RITAS Lab, Southern University of Science and Technology	Advised by: Yinqian Zhang
Research Assistant	$July\ 2020-June\ 2022$
SAIL Lab, Shanghai Jiao Tong University	Advised by: Chao Li
Website Operation	Sep 2019 - Sep 2021
Network & Information Center, Shanghai Jiao Tong University	-
Teaching Assistant	June $2019 - Sep 2019$
Programming Design Course (CS151), Shanghai Jiao Tong University	
Dypyratory	

#### Publication

- ShadowBound: Efficient Heap Memory Protection Through Advanced Metadata Management and Customized Compiler Optimization **Zheng Yu**; Ganxiang Yang; Xinyu Xing (USENIX Security 2024)
- LLM-Fuzzer: Scaling Assessment of Large Language Model Jailbreaks *Jiahao Yu; Xinwei Lin; Zheng Yu; Xinyu Xing* (USENIX Security 2024)
- CAMP: Compiler and Allocator-based Heap Memory Protection Zhenpeng Lin; Zheng Yu; Ziyi Guo; Simone Campanoni; Peter Dinda; Xinyu Xing (USENIX Security 2024)
- FIRST: Exploiting the Multi-Dimensional Attributes of Functions for Power-Aware Serverless Computing Lu Zhang; Chao Li; Xinkai Wang; Weiqi Feng; Zheng Yu; Quan Chen; Jingwen Leng; Minyi Guo; Pu Yang; Shang Yue (IPDPS 2023)
- Reversing MCU with Firmware Emulation **Zheng Yu**; KAI JERN LAU; MuChen Su; Anh Quynh NGUYEN (BlackHat Europe 2022)

## ACADEMIC SERVICE

Program Committee Member International Conference on Machine Learning (ICML)	2025
Program Committee Member	2025
International Conference on Learning Representations (ICLR)	
Artifact Committee Member Network and Distributed System Security (NDSS)	202
Program Committee Member The Association for the Advancement of Artificial Intelligence Undergraduate Consorti	202 um (AAAI-UC)
Program Committee Member Artificial Intelligence and Statistics Conference (AISTATS)	202
Program Committee Member Conference on Neural Information Processing Systems (NeurIPS)	202
Journal Reviewer IEEE Transactions on Dependable and Secure Computing (TDSC)	202
Artifact Committee Member  USENIX Annual Technical Conference (ATC)	202-
Artifact Committee Member USENIX Symposium on Operating Systems Design and Implementation (OSDI)	202
Artifact Committee Member International Symposium on Software Testing and Analysis (ISSTA)	202
Artifact Committee Member USENIX Security Symposium (USENIX Security)	2024, 202
Artifact Committee Member  ACM SIGSAC Conference on Computer and Communications Security (CCS)	2023, 202
Journal Reviewer  Peer J Computer Science Journal	2023, 202
Honors & Awards	
Advanced Final Competition at AICC 42-b3yond-6ug	Northwestern University 2022
5th at Defcon 23 CTF Finals StrawHat Team	DEFCON 202
7th at Defcon 22 CTF Finals StrawHat Team	DEFCO! 202.
Outstanding Graduates Outstanding Graduate of Shanghai Jiaotong University	SJTU 2022
Zhiyuan Honor Scholarship Top 2% in SJTU	SJTU 2018, 2019, 2020, 202
The 35th China National Olympiad in Informatics Silver Medal (top 100)	CCI 201
Technical Skills	
Languages: Chinese (Native), English (Fluent)	

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Programming Languages: C/C++, Python, Java, Javascript, Rust, Verilog

Frameworks: MySQL, Spark, Angr, Unicorn, IDA, Qiling, Ghidra

Developer Tools: Git, VSCode, Emacs, Docker, Vivado