

## Education

### Arizona State University

PH.D IN COMPUTER SCIENCE

May, 2021 - PRESENT

## Publications

### Toss a fault to your witcher: Applying grey-box coverage-guided mutational fuzzing to detect sql and command injection vulnerabilities

Erik Trickel, Fabio Pagani, **Chang Zhu**, Lukas Dresel, Giovanni Vigna, Christopher Kruegel, Ruoyu Wang, Tiffany Bao, Yan Shoshitaishvili, Adam Doupé

*Proceedings of the 44th IEEE Symposium on Security and Privacy (S&P), San Francisco, CA, May 22-25, 2023.*

### TYGR: Type Inference on Stripped Binaries using Graph Neural Networks

**Chang Zhu\***, Ziyang Li\*, Anton Xue, Ati Priya Bajaj, William Gibbs, Yibo Liu, Hanjun Dai, Mayur Naik, Rajeev Alur, Tiffany Bao, Adam Doupé, Yan Shoshitaishvili, Ruoyu Wang, Aravind Machiry

*Proceedings of the 33th USENIX Security Symposium, Philadelphia, PA, August 14-16, 2024.*

\* Indicates equal contribution

### Fuzz to the Future: Uncovering Occluded Future Vulnerabilities via Robust Fuzzing

Arvind S Raj, Wil Gibbs, Fangzhou Dong, Jayakrishna Menon Vadayath, Michael Tompkins, Steven Wirsz, Yibo Liu, Zhenghao Hu, **Chang Zhu**, Gokul Krishna, Brendan Dolan-Gavitt, Adam Doupé, Yan Shoshitaishvili, Ruoyu Wang, Tiffany Bao

*Proceedings of the 30th ACM Conference on Computer and Communications Security, Salt Lake City, USA, October 14-18, 2024.*

## Work Experience

### Arizona State University

RESEARCH ASSISTANT

May, 2021 - PRESENT

- Research on reverse engineering, specifically focuses on type inference. Utilizing symbolic execution combined with ML technique for type inference.

TEACHING ASSISTANT

- CS 4376 Object-oriented Design *Fall2019, Spring2020*
- CS 6329 Object-oriented Software Engineering *Fall2019, Spring2020*
- CS 4348 Operating Systems Concepts *Fall2020*

## Honors & Awards

**SCAI Doctoral Fellowship** 2023 Spring, USA

**DAAD(Deutscher Akademischer Austauschdienst) summer scholarship** 2024 Summer, Germany

## Skills

**Computer Skills:** Python, C/C++, Javascript, assembly language, SQL, LaTeX

**Language Skills:** Elementary proficiency German, GOETHE-ZERTIFIKAT B1