

## 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 Trickle, Fabio Pagani, **Chang Zhu**, Lukas Dresel, Giovanni Vigna, Christopher Kruegel, Ruoyu Wang, Tiffany Bao, Yan Shoshitaishvili, Adam Doupe

*In 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 Doupe, Yan Shoshitaishvili, Ruoyu Wang, Aravind Machiry

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

\* Indicates equal contribution

## 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

## Skills

---

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

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