# YU LIANG

Ph.D. Candidate of Informatics

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Pennsylvania State University

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#### Research Interests:

System and Software Security, Principles of Operating Systems, Principles of Compilers, DBMS

## **Employment**

Ph.D. Full-time Research AssistantAug 2025 (PRED)Ph.D. Software Engineer InternMay 2024 – Aug 2024

Meta Platforms, Inc.

#### **Education:**

Ph.D. Candidate Aug 2019 - Present

Pennsylvania State University

Major: Informatics Advisor: Dr. <u>Peng Liu</u>

**Master** Aug 2018 – Aug 2019

Pennsylvania State University

Major: Engineering Science and Mechanics

Advisor: Dr. Jian Xu

### **Publications:**

- 1. Detecting Logical Bugs of DBMS with Coverage-based Guidance, Yu Liang, Song Liu, and Hong Hu, USENIX Security 2022
- 2. Who Goes First? Detecting Go Concurrency Bugs via Message Reordering, Ziheng Liu, Shihao Xia, **Yu Liang**, Linhai Song, and Hong Hu, **ASPLOS 2022**
- 3. Let the DOCTOR Decide Whom to Test: Adaptive Testing Strategies to Tackle the COVID-19 Pandemic, Yu Liang, Amulya Yadav, AAMAS 2021
- 4. Optimal and Non-Discriminative Rehabilitation Program Design for Opioid Addiction Among Homeless Youth. Amulya Yadav, Roopali Singh, Nikolas Siapoutis, Anamika Barman-Adhikari, & Yu Liang, IJCAI 20
- 5. Tackling Sequential Attacks in Security Games, Thanh H. Nguyen, Amulya Yadav, Branislav Bosansky, Yu Liang, GameSEC 19

#### **SKILLS:**

- System Security:
  - Techniques: Fuzzing, Program Analysis, Database Management System Testing