

Yuanhaur Chang (Oliver)

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<https://changoliver.github.io/>

RESEARCH INTERESTS

Cyber-physical Security, Medical Security, Usable Security & Privacy

EDUCATION

Washington University in St. Louis

Ph.D. in Computer Science

Advisor: Dr. Ning Zhang

Missouri, USA

2021 - Present

National Taiwan University

Bachelor of Science in Computer Science and Information Engineering

Taipei, Taiwan

2017 – 2021

HONORS/AWARDS

- WashU Dean's International Award 2021
- Taiwanese Ministry of Education (MOE) Fellowship 2021

PUBLICATIONS

Conference

1. Zhiyuan Yu, Yuanhaur Chang, Shixuan Zhai, Nicholas Deily, Tao Ju, XiaoFeng Wang, Uday Jammalamadaka, Ning Zhang
Xcheck: Integrity Verification for 3D Printed Patient-Specific Devices via Computing Tomography
USENIX Security Symposium, 2023
Distinguished Artifact Award
2. Zhiyuan Yu, Yuanhaur Chang, Ning Zhang, Chaowei Xiao
SMACK: Semantically Meaningful Adversarial Audio Attack
USENIX Security Symposium, 2023
3. Zhiyuan Yu, Zhuohang Li, Yuanhaur Chang, Skylar Fong, Jian Liu, Ning Zhang
HeatDeCam: Detecting Hidden Spy Cameras via Thermal Emissions
ACM Conference on Computer and Communications Security (CCS), 2022

Workshop Papers

1. Sinyin Chang, Ao Li, Evin Jaff, Yuanhaur Chang, Jinwen Wang, Ning Zhang, Hsu-Chun Hsiao
AdapSan: Adaptive Input Sanitization in Medical Systems with eBPF
ACM Workshop on Adaptive and Autonomous Cyber Defense (AACD), 2024
2. Ao Li, Sinyin Chang, Guirui Li, Yuanhaur Chang, Nathan Fisher, Thidapat (Tam) Chantem
Software and Behavior Diversification for Swarm Robotics Systems
ACM Workshop on Moving Target Defense (MTD), 2023

arXiv Papers

1. Yuanhaur Chang, Han Liu, Evin Jaff, Chenyang Lu, Ning Zhang
SoK: Security and Privacy Risks of Medical AI
arXiv preprint arXiv:2409.07415, 2024

CVE

1. **Slic3r**: CVE-2021-44961, CVE-2021-44962 (Base score 5.5)

2. **ZBar:** CVE-2023-40889, CVE-2023-40890 (Base score 9.8)

TEACHING

National Taiwan University

- TA for EE5184 Machine Learning

Spring 2020

SERVICE AND LEADERSHIP

Conference Organization

- Web Chair, 10th ACM Workshop on Moving Target Defense (MTD'23)

Technical Program Committee

- USENIX Security Symposium: 2024, 2025
- IEEE Transactions on Information Forensics & Security: 2024

External Reviewer

- IEEE Symposium on Security and Privacy (Oakland)
- ACM Conference on Computer and Communications Security (CCS)
- ACM ASIA Conference on Computer and Communications Security (ASIACCS)
- Annual Computer Security Applications Conference (ACSAC)
- USENIX Security Symposium (Security)
- IEEE International Conference on Computer Communications (INFOCOM)
- ISOC The Network and Distributed System Security Symposium (NDSS)
- IEEE European Symposium of Security and Privacy (EuroS&P)
- Design Automation Conference (DAC)

Student Group

- Vice President, Taiwanese Graduate Student Association (TGSA) 2022 - 2023
- Treasurer, Taiwanese Graduate Student Association (TGSA) 2023 - 2024

Volunteering

- Student Volunteer, Office of International Affair 2018 - 2019
- Student Volunteer, College of EECS 2018 - 2019