

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

- Yara Alsiyat, Yuanhaur Chang, Ning Zhang, Ivan Flechais
Smart Spaces, Private Lives: A Culturally Grounded Examination of Privacy Tensions in Smart Homes
Symposium on Usable Privacy and Security (SOUPS), 2025
- 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
- Zhiyuan Yu, Yuanhaur Chang, Ning Zhang, Chaowei Xiao
SMACK: Semantically Meaningful Adversarial Audio Attack
USENIX Security Symposium, 2023
- 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

- 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
- 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, Oren Heller, Yaniv Shlomo, Iddo Bar-Noy, Ella Bokobza, Michal Grinstein-Weiss, Ning Zhang
Mind the Gap: Revealing Security Barriers through Situational Awareness of Small and Medium Business Key Decision-Makers
arXiv preprint arXiv:2506.10025, 2025
2. Yuanhaur Chang, Han Liu, Evin Jaff, Chenyang Lu, Ning Zhang
SoK: Security and Privacy Risks of Healthcare AI
arXiv preprint arXiv:2409.07415, 2025

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

STUDENT MENTORING

Master Student

- Evin Jaff Sep 2023 - Dec 2024
- Zishuai Liu Sep 2023 - May 2024
- Matthew Kim Jan 2023 - Dec 2023
- Jack Zhai Sep 2022 - May 2023
- Yara Alsiyat Jan 2022 - Dec 2022

Undergraduate

- Elysia Quah May 2023 - Dec 2023
- Louie Kolter (Valedictorian) Sep 2022 - May 2023
- Annika Petrikin Sep 2022 - May 2023
- Sherry Zhang Sep 2022 - May 2023
- Trystan Ng Sep 2022 - Dec 2022
- Young Lin Jan 2022 - Aug 2022

SERVICE AND LEADERSHIP

Conference Organization

- Web Chair, 10th ACM Workshop on Moving Target Defense (MTD'23)
- US-Taiwan Workshop on Cybersecurity 2025

Technical Program Committee

- ACM Conference on Computer and Communications Security (CCS) AEC: 2025
- USENIX Security Symposium AEC: 2024, 2025
- IEEE Transactions on Information Forensics & Security (TIFS): 2024, 2025
- IEEE Transactions on Cyber-Physical Systems (TCPS): 2025
- International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS): 2025

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)
- 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

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

Volunteering

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