

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

- 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

- 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

- Sllic3r**: 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

- USENIX Security Symposium: 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

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