

EDUCATION

- University of California, Riverside** Riverside, CA
P.h.D in Electrical Engineering, GPA: 4.00/4.00 2021.9–Current
– Advisors: Professor Nael Abu-Ghazaleh
- University of California, Irvine** Irvine, CA
M.S. in Computer Engineering, GPA: 3.78/4.00 2018.9–2021.3
– Advisors: Professor Mohammad Abdullah Al Faruque and Professor Zhou Li
– Thesis: “Stealing Deep Learning Model Secret through Remote FPGA Side-channel Analysis.”
- Sichuan University** Chengdu, China
B.S. in Electrical Engineering and Automation, GPA: 3.53/4.00 2014.9–2018.6
– Thesis: “Fault detection in power transmission system using Machine Learning.”

EXPERIENCE

- University of California, Riverside** Riverside, CA
Research Assistant in Secure and Efficient Architectures and Systems (SEAS) Lab 2021.9–Current
– AR/VR Security, Computer Architecture Support for Security.
– I worked with my advisor Prof. Nael B. Abu-Ghazaleh on research topics including security in AR/VR systems and side-channel attack & defense on computer architecture.
- University of California, Irvine** Irvine, CA
Research Assistant in Embedded & Cyber-Physical Systems Lab 2018.9–2021.3
– Embedded and Cyber-Physical System Security, Computer Microarchitecture.
– I worked with Prof. Mohammad Abdullah Al Faruque on research topics including security in Embedded & Cyber-Physical Systems and side-channel attack & defense.
- University of California, Irvine** Irvine, CA
Research Assistant in Data-driven Security and Privacy (DSP) Lab 2018.9–2021.3
– Machine learning privacy and defense.
– I worked with Prof. Zhou Li on research topics including machine learning privacy attack and GPU security.
- University of California, Irvine** Irvine, CA
Teaching Assistant in Department of Electrical Engineering and Computer Science 2019.12–2021.3
– Assisted course instructors in course website design, grading, and lecturing.

PUBLICATIONS

1. Wei Junyi*, **Yicheng Zhang***, Zhe Zhou, Zhou Li, and Mohammad Abdullah Al Faruque, “Leaky DNN: Stealing Deep-Learning Model Secret with GPU Context-Switching Side-Channel.”, *2020 50th Annual IEEE/IFIP International Conference on Dependable Systems and Networks (DSN)*, Valencia, Spain, June, 2020.
*Junyi Wei and Yicheng Zhang are both first author.

2. **Yicheng Zhang**, Rozhin Yasaei, Hao Chen, Zhou Li and Mohammad Abdullah Al Faruque, “Poster : Stealing Neural Network Structure through Remote FPGA Side-channel Analysis”, *In 29th ACM/SIGDA International Symposium on Field-Programmable Gate Arrays (FPGA)*, February, 2021.
3. **Yicheng Zhang**, Rozhin Yasaei, Hao Chen, Zhou Li and Mohammad Abdullah Al Faruque, “Stealing Neural Network Structure through Remote FPGA Side-channel Analysis”, *In IEEE Transactions on Information Forensics and Security (TIFS)*, August, 2021.
4. **Yicheng Zhang**, Jiasi Chen, Nael B. Abu-Ghazaleh, “It’s all in your head(set): side-channel attacks on augmented reality systems”, *To appear in USENIX Security Symposium*, August, 2023.

TEACHING

- **Teaching Assistant** at University of California, Irvine Winter 2019
EECS 150 Continuous-Time Signals and Systems
- **Teaching Assistant** at University of California, Irvine Spring 2020
EECS 111 System Software
- **Teaching Assistant** at University of California, Irvine Fall 2020
EECS 40 Object Oriented System Programming
- **Teaching Assistant** at University of California, Irvine Winter 2021
CS 125 Next Generation Search Systems
- **Teaching Assistant** at University of California, Irvine Spring 2021
EECS 112 Organization of Digital Computers

COMPUTER SKILLS

- **Programming:** C/C++, CUDA C, Python, Verilog, Bash Script(Linux), Java
- **CAD Tools:** Altera Quartus, Xilinx ISE, Vivado, Vivado HLS
- **Softwares:** Matlab, Arduino, Unity, Unreal Engine

LANGUAGES

- **English:** Fluent
- **EXAM:** Score 102 for TOEFL iBT test
- **Chinese:** Native

SCHOLARSHIPS AND AWARDS

- Student Travel Grant for ACM Conference on Computer and Communications Security 2021
- Student Travel Grant for USENIX Security Symposium 2021
- Student Travel Grant for IEEE Symposium on Security and Privacy 2021,2022
- Dean’s Distinguished Fellowship Award (UC Riverside) 2021
- Sichuan University Scholarship (China) 2014,2015,2016,2017
- Outstanding Students Leader of Sichuan University 2016.10

EXTRACURRICULAR ACTIVITIES

- Member at University of California Irvine Cycling Club 2018–Current
- Member at Chinese Students Scholars Association at UCI (UCI-CSSA) 2018–Current
- Head of Practice Department of Sichuan University Cycling Club 2014–2018
- Volunteers at 120th Anniversary of Sichuan University 2016.9