

Mohamad Fakh

PHD STUDENT · EECS UNIVERSITY OF CALIFORNIA, IRVINE

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Career Summary

I am a PhD candidate specializing in cyber-physical system security, with an interest in applying Large Language Models to engineering workflows. My expertise spans machine learning, electronics, and sensor technologies.

Publications

PUBLISHED

Fakh, M; Dharmaji, R; Moghaddas, Y; Quiros, G; Ogundare, T; Al Faruque, M. **2024** - in **Collaboration with Siemens Research** LLM4PLC: Harnessing **Large Language Models** for Verifiable Programming of PLCs in Industrial Control Systems in the 46th International Conference on Software Engineering: Software Engineering in Practice (**2024 ICSE-SEIP**)

Moghaddas, Y; **Fakh, M;** Zhang, T; Odema, M; Al Faruque, M. **2023**.
An Integrated Corridor Management for **Connected Vehicles** and PAR Structures using **Deep Reinforcement Learning**.
University of California, Institute of Transportation Studies, Report

Fakh, M; Kanj, R; Kurdahi, F; Fouda, M. **2023**
AudioFool: Fast, Universal and synchronization-free Cross-Domain Attack on **Speech Recognition**.

IN PROGRESS

In Review: Anonymous manuscript in the 33rd **USENIX Security Symposium**.

In Prep: Anonymous manuscript in the 31th ACM Conference on Computer and Communications Security (**CCS**).

Education

University of California, Irvine (UCI)

California, USA

PHD IN COMPUTER ENGINEERING

2022 - 2027

- Research Topic: **ML for security of Cyber-Physical Systems**
- Research Lab: **Autonomous and Intelligent Cyber-Physical Systems** (Dr. Al Faruque)

American University of Beirut (AUB)

Beirut, Lebanon

BE IN COMPUTER AND COMMUNICATIONS ENGINEERING

2018 - 2022

- Graduated with **distinction**
- Focus Areas: **Machine Learning, High Performance Computing**

Professional Experience

- 2021-2022 **Research Internship**, University of California, Irvine
Proposed robust cross-domain adversarial attacks on Classification Neural Networks.
- 2020-2021 **Machine Learning Engineer (Part-Time Remote)**, TecFrac
Delivered a complete Arabic OCR pipeline for Document Retrieval on Mobile Devices
- 2019 **Teaching Assistant**, American University of Beirut
Data Structures & Algorithms, and Intro. to Programming
- 2019-2021 **Lead Developer**, Coursis.org (now defunct)
Platform helped over 600 students to register for classes

AWARDS

- 2022 **Software Innovation Award**, Murex \$ 3,000
- 2016 **Lebanese National Championship of Science**, Bronze Medal \$ 500