

Alexander Singh La Cour

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Education

Princeton University — Princeton, NJ

Ph.D., Electrical and Computer Engineering 2021-Present

– Research Areas: Neural Combinatorial Optimization over Graphs, Sequence Modeling

– Advisor: Prof. Niraj K. Jha

M.A., Electrical and Computer Engineering 2021-2023

Cornell University — Ithaca, NY

B.S., Electrical and Computer Engineering (Summa Cum Laude) 2018-2021

Awards

Francis Robbins Upton Fellowship (highest honor for incoming students) 2021

Intel Semiconductor Research Corporation Program Scholar 2020 – 2021

Cornell Engineering Learning Initiative Research Grant 2020

IEEE Eta Kappa Nu Member 2019 – Present

Cornell University College of Engineering Dean's List 2018 – 2019

Publications

[Wireless Charging Power Side-Channel Attacks](#)

Alexander S. La Cour, Khurram K. Afridi, G. Edward Suh.

ACM Conference on Computer and Communications Security (CCS), 2021

Research Experience

Suh Research Group — *Undergraduate Researcher*; Ithaca, NY Aug 2019 – Nov 2021

– Demonstrated the existence of a novel wireless charging power side-channel on modern smartphones using supervised learning and published a paper on my findings

Zhang Research Group — *Research Assistant*; Ithaca, NY Jan 2019 – May 2019

– Implemented a high-level synthesis benchmark algorithm from MachSuite, a collection of benchmarks for customized architecture, into HeteroCL, an open-source programming infrastructure

Work and Project Experience

Marvell Technology — *ASIC Design Intern*; Marlborough, MA Summer 2019

CU Autonomous Underwater Vehicle — *Electrical Subteam*; Ithaca, NY Oct 2018 – May 2020

Teaching

Machine Learning for Predictive Data Analytics (ECE 364, Princeton University) Fall 2022

Signals and Information (ECE 2200, Cornell University) Spring 2021

Embedded Systems (ECE 3140/CS 3420, Cornell University) Spring 2020

Skills

Python, PyTorch, TensorFlow, MATLAB, Git, L^AT_EX