

Rohin Tangirala

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EDUCATION

University of Washington – Seattle, WA
Ph.D., Electrical and Computer Engineering

Sep 2023 - Present

University of California, Berkeley – Berkeley, CA
B.S., Electrical Engineering and Computer Sciences (EECS)
EECS Honors Program, Breadth Area: Materials Physics

August 2019 - May 2023

AWARDS AND HONORS

Accelerating Quantum-Enabled Technologies (AQET) Fellow
University of Washington
NSF Research Traineeship program and fellowship for graduate students

Sep 2023 - Present

SRC IBM Undergraduate Research Program Scholar
University of California, Berkeley

Sep 2022 - May 2023

Year-long research fellowship and industry mentorship program by Semiconductor Research Corporation (SRC), sponsored by IBM Corporation

Finalist, Apple Outstanding Student Designer Competition
University of California, Berkeley

Dec 2021

Awarded in competition sponsored by Apple, for original design of LCD display driver amplifier circuit for final project in course covering analog integrated circuits

PROFESSIONAL EXPERIENCE

Sandia National Laboratories
Research and Development Intern

May - Aug 2022
Albuquerque, NM

- Investigated hardware compilation and acceleration of custom neural network models on FPGA platforms
- Streamlined modeling of trained quantized neural network models in analog in-memory computing systems

Cradlepoint
Software Engineer Intern

Jun - Aug 2021
Boise, ID

- Automated creation of an F2FS binary to facilitate remote deployment of 5G/LTE wireless adapter firmware images
- Reduced time taken by ODMs during manufacturing to write adapter images to edge router flash memory partitions

Cisco Systems
Software Engineer Intern

May - Aug 2020
San Jose, CA

- Created standardized development pipeline for thermal fan control algorithms across service provider router platforms

- Accelerated the fan algorithm software development and hardware testing workflow by developing web GUI and unified C library for customizable algorithm implementation in IOS XR network OS

TEACHING EXPERIENCE

Devices and Circuits I (EE 331)

Autumn 2023

Teaching Assistant

University of Washington

Led weekly lab section and guided students in completing electronic circuit simulation and measurement exercises, as well as final circuit design project

Going Down the EECS Stack

Spring/Fall 2021, Spring/Fall 2022, Spring 2023

Guest Lecturer

UC Berkeley

Taught class session on electronic and photonic devices as part of student-run course surveying various subfields of electrical engineering and computer science

Designing Information Devices and Systems I (EECS 16A)

Fall 2020

Lab Assistant

UC Berkeley

Assisted students in multiple lab sections for introductory EECS course covering circuit analysis and linear algebra, by providing technical and conceptual guidance

PREPRINTS AND PUBLICATIONS

M. Odeh, K. Godeneli, E. Li, **R. Tangirala**, H. Zhou, X. Zhang, Z. Zhang, A. Sipahigil. Non-Markovian dynamics of a superconducting qubit in a phononic bandgap. *arXiv:2312.01031 [quant-ph]*, 2023.