# Rohin Tangirala

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## EDUCATION

**University of Washington** – Seattle, WA                                      Sep 2023 - Present
Ph.D., Electrical and Computer Engineering

**University of California, Berkeley** – Berkeley, CA                                      May 2023
B.S., Electrical Engineering and Computer Sciences (EECS)
*EECS Honors Program, Breadth Area: Materials Physics*

## AWARDS AND HONORS

**Accelerating Quantum-Enabled Technologies (AQET) Fellow**                    Sep 2023 - Present
*University of Washington*
NSF Research Traineeship program and fellowship for graduate students

**SRC IBM Undergraduate Research Program Scholar**                    Sep 2022 - May 2023
*University of California, Berkeley*
Year-long research fellowship and industry mentorship program by Semiconductor Research Corporation
(SRC), sponsored by IBM Corporation

**Finalist, Apple Outstanding Student Designer Competition**                                      Dec 2021
*University of California, Berkeley*
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**                                      May - Aug 2022
*Research and Development Intern*                                      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**                                      Jun - Aug 2021
*Software Engineer Intern*                                      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**                                      May - Aug 2020
*Software Engineer Intern*                                      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.