

Amir Shapour Mohammadi

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Phone: (559) 308-3930

Education

PhD – University of California, Berkeley, Department of Physics, Zaletel Group

2024 – present

Undergraduate - Princeton University, B.A. Physics (Cum Laude)

2024

Minors: Applied and Computational Mathematics, Near Eastern Language & Culture (Persian)

Experience

HRL Laboratories (Malibu, CA)

May 2023 – Aug. 2023

Adviser: Andrew Oriani

Jun. 2024 – Aug. 2024

- Design new electrical control systems for manipulation and readout of quantum dot spin-qubits.
- Develop FPGA software for full control of semiconductor spin-qubits.

Publications

Visualizing interaction-driven restructuring of quantum Hall edge states

2025, Nature

High-resolution tunnelling spectroscopy of fractional quantum Hall states

2025, Nature Physics

Presentations

Sources of Dephasing in Si/SiGe Quantum Dots

2023, APS March Meeting

Conferences

APS March Meeting (Las Vegas, NV)

2023

ARO/LPS Quantum Computing Programming Review (Annapolis, MD)

2022

Awards/Honors

Allen G. Shenstone Prize in Physics (Princeton University)

2023, 2024

Manfred Pyka Memorial Prize in Physics (Princeton University)

2022