

Milo Moses

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Department of Mathematics

University of California, Santa Barbara

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Education

2022 - UC Santa Barbara, Mathematics major in the College of Creative Studies

2021 - 2022 UC Berkeley, Concurrent enrollment student

2019 - 2020 Stanford University, Pre-Collegiate student

Research experience

2023 Research assistant for Zhenghan Wang, UC Santa Barbara (topological quantum computing, property F conjecture on modular tensor categories)

2022 Independent winter research, resulting in the following preprint:

<https://arxiv.org/pdf/2301.12655.pdf>

2022 Research assistant for Francesc Castella, UC Santa Barbara (p-adic L functions of modular forms, Iwasawa theory)

2022 Independent summer research, resulting in the following preprint:

<https://arxiv.org/abs/2210.05838>.

2020 - 2021 Research assistant for Alan Hammond, UC Berkeley (combinatorics, coding)

2020 Alameda County Science and Engineering Fair *Mu Alpha Theta* Prize Winner, resulting in the following preprint: <https://arxiv.org/abs/2211.13215>

Industry experience

2023 Quantum computing intern at BEIT. Led projects focused on the mathematical, physical, and computational aspects of quantum error correction

Teaching

2023 Course Assistant for “p-adic analysis”, special topics course in the College of Creative Studies at UC Santa Barbara

Talks and conferences

2023 Finalist in “Undergraduate Research and Creative Activities” slam, for research talk on “*p-adic Pontryagin duality*”

2022 Attended “Quantum Computing Triple Play” mini conference at UC Berkeley

2022 Two-time guest lecturer at the Berkeley Math Circle, on “*Galois Theory with applications to Pisot numbers*” and “*Finite Fields with applications to cryptography*”