

# Jacob H. Nie

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Last updated: June 2021

## PERSONAL INFORMATION

Personal email: [jacobnie2008@gmail.com](mailto:jacobnie2008@gmail.com) (preferred)

School email: [jacobhnie@ucsb.edu](mailto:jacobhnie@ucsb.edu)

Current residence: Santa Barbara, CA

Age: 18

## EDUCATION

**University of California, Santa Barbara**

B. S., Physics, 2020–2024 (expected)

GPA: 4.0/4.0

## EXPERIENCE

**Undergraduate researcher** (April 2021–Present)

PI: *Prof. Chenhao Jin*

Study of two-dimensional strongly-correlated quantum materials using optical spectroscopy.

## SELECTED COURSEWORK

PHYS 104 - Advanced Mechanics

PHYS 110A - Electromagnetism

PHYS 123B - Topics in Condensed Matter Physics

(Fall 2021) PHYS 13AH - Honors Experimental Physics

(Fall 2021) PHYS 215A - Quantum Mechanics\*

(Fall 2021) PHYS 223A - Condensed Matter Physics\*

\* *Graduate course*

## SELECTED HONORS

Rudolf Ortway International Competition in Physics: First Prize, undergraduate top score, best solution award (2020)

USA Physics Olympiad National Team Training Camp Attendee (2019)

USA Physics Olympiad: Gold Medalist (2019)

Princeton University Physics Competition: Gold Medalist (2018)

## SKILLS

Proficient: Python, Mathematica,  $\text{\LaTeX}$

Familiar with: MATLAB, Linux

## EMPLOYMENT

Art of Problem Solving, part-time physics grader and assistant, 2020–2021

Private tutoring, math and physics, 2017–2019