

KATHERINE KUDLA

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EDUCATION

University of California - Santa Barbara
Ph.D. Physics with an Astrophysics Emphasis

2024 - Present

Providence College
B.S. in Physics
Minor in Mathematics

2020 - 2024
GPA: 3.9

AWARDS AND SCHOLARSHIPS

Lindau Laureates Alum

2024

Selected as a Young Scientist to attend the 73rd Lindau Nobel Laureate Meeting for physics

Barry Goldwater Scholarship

2023

Oldest and most sought after undergraduate scholarship in the natural sciences

NASA Rhode Island Space Grant

2021, 2022

Grant funding scientific research related to NASA goals

St. Thomas Aquinas Scholarship

2020-2024s

Highest offered merit-based scholarship awarded to less than 1% of accepted Providence College applicants

IFoRE Undergraduate Physics and Astronomy Poster Presentation

2023

Highest ranked poster for undergraduates in physics and astronomy

IFoRE Interdisciplinary Research: "Understanding the Universe"

2023

Highest ranked interdisciplinary research in physics and astronomy

Certificate in Inclusive Teaching (CIT)

2024

Successfully completed the UC Santa Barbara CIT Program and demonstrated commitment to key issues of inclusion, equity, diversity, and accessibility

Outstanding Teaching Assistant

2025-2026

Recognized for outstanding performance as a Teaching Assistant for Physics 137, demonstrating strong professionalism, enthusiasm, and leadership while supporting and mentoring a diverse cohort of students.

AAS Chambliss Astronomy Achievement Award: Honorable Mention

2024

Award given to recognize exemplary research presented at one of the poster sessions at meetings of the AAS

EXPERIENCE

Physics TA (20 hours/week)

UCSB Physics Department

2024-present

Undergraduate Researcher - UCSB Physics REU

University of California Santa Barbara

Summer 2023

Undergraduate Researcher - NASA Rhode Island Space Grant Scholar

Brown University

Summer 2021, 2022

Undergraduate Researcher - Undergraduate ALFALFA Team

Green Bank Observatory

Summer 2021, 2022

Physics and Astronomy tutor (3 hours/week)

Providence College Physics Department

*2021-2024***Learning Assistant (LA) (3 hours/week)**

Providence College Physics Department

*Fall 2023***PRESENTATIONS**

Keck Science Meeting (Poster)*2025*

Spatially Resolved O32 Ratios in KCWI Dwarf Galaxies: Evidence for Anisotropic LyC Escape

UCSB Astro Lunch*2025*

Mapping Emission Line Spectra to Identify LyC Escape Channels

American Astronomical Society 243rd Meeting*2024*

Fitting Balmer Line Emissions and Absorptions to Map Star Formation Histories in Reionization Era Local Analog Galaxies

Conferences for Undergraduate Women in Physics (CUWiP)*2024*

Mapping Star Formation Histories in Nearby Galaxies to Source Lyman Continuum Photon Escape

International Forum on Research Excellence*2023*

Mapping Star Formation Histories in Nearby Galaxies to Source Lyman Continuum Photon Escape

NASA Rhode Island Space Grant Consortium*2022,2023*

The Baryonic Tully-Fisher Relation for Galaxies with Supernova Distances

UCSB REU Symposium*2023*

Mapping Star Formation Histories in Nearby Galaxies to Source Lyman Continuum Photon Escape

American Astronomical Society 240th Meeting*2022*

The Baryonic Tully-Fisher Relation for Galaxies with Supernova Distances

Undergraduate ALFALFA Team Summer Workshop*2021,2022*

Neutral Hydrogen (HI) Properties in Type Ia and II Supernovae

Preliminary Data Reduction and Analysis with the Green Bank Telescope

OUTREACH

Santa Barbara Astronomy on Tap Cohost*2025*

Las Cumbres Observatory

WISE Mentor

UCSB Physics Department

*2025-present***PROFESSIONAL SOCIETIES**

Phi Beta Kappa

Sigma Xi

Sigma Pi Sigma

American Astronomical Society

University of Oxford Physics Society

Society of Physics Students