

Jordan O'Kelley

Contact Information

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Internships & Research

N3 Pilot Program Summer Intern, *NASA's Neurodiversity Network*

May 2019 -- June 2019

Worked with Dr. Dave Thompson on a scientific outreach program, summarizing the properties of neutron stars and black holes, with the goal of making an informational video for non-STEM audiences.

Undergraduate Research Assistant, *Research Group of Dr. Susan Terebey, CSULA*

January 2022 -- Present

I have worked on two projects with Dr. Terebey. One was an undergraduate thesis on a novel method to estimate the internal luminosities of protostars. The other is correcting a computational simulation of the chemistry of protostars and their surrounding regions.

Physics REU, *Vanderbilt University*

June 2022 – August 2022

Participated in a 10-week internship where I assisted in the identification of Supermassive Black Hole Binaries using periodic curve fitting methods on electroagnetic data, with eventual applications to Multi-Messenger Astronomy and Gravitational Waves. I gave an oral presentation on my contributions at the end of the program.

Education

August 2019 – May 2024

B.S. in Physics, Minor in Mathematics, California State University, Los Angeles

Coursework:

Calculus I-III, Ordinary Differential Equations, Linear Algebra, Theory of Probability, Senior Level Classical Mechanics, Thermodynamics and Statistical Mechanics, Electromagnetism, Graduate Quantum Mechanics, Mathematical Methods, Experimental Research, Introductory Solid State Physics, Astrophysics, and Computational Physics, as well as Quantitative Communication, Video Production and Editing, Announcing and Voiceover, and Public Speaking. Planned classes include Machine Learning for Physics, Modern Astronomy, Partial Differential Equations, and Group Theory.

Skills

Python, Bash, IDL	Curve Fitting	Communication
Astronomical Databases	Experimental Methods	Scientific Writing
Machine Learning	Public Speaking/Presentation	

Awards

Honors College, *California State University, Los Angeles*

August 2019 -- Present

Dean's List, *California State University, Los Angeles*

August 2019 – Present

Lilly LaCava Scholarship

2021

**Edison, John B. Willis, Dermody Fund, Elliot Barton, and
Lester Hirsch Scholarships**

2022

URISE Fellowship

June 2023 – Present

**CSULA Student Symposium on Research, Scholarship, and
Creative Activities Prize in Physical Sciences**

2024

Selected Speaking Engagements

SENG National Conference

July 2020 & July 2022

California State University, Los Angeles Neurodiversity

Acceptance Month Speaking Events

2021-2023

Illinois Association of Gifted Children Conference

October 2022

Texas Association of Gifted Children Conference

December 2022

California Speech, Language, Hearing Association

April 2023

Loyola Marymount University Autism Panel

June 2023

Stanford Neurodiversity Summit

October 2023

**University of Denver, Gifted Education Policy Symposium
& Conference**

Feb 2024

Academic Presentations & Posters

Vanderbilt Physics REU Final Presentation (Oral)

July 2022

URISE Annual Research Retreat (Poster)

September 2023

**CSULA Symposium on Student Research, Scholarship, and
Creative Activities (Oral)**

March 2024

CSULA Physics & Astronomy Colloquium (Oral)

April 2024

**244th Meeting of the American Astronomical Society
(Poster)**

June 2024 (Upcoming)

Work Experience

Peer Leader, PLUS Program, *California State University, Los Angeles*
March 2021 – May 2023

Private Math Tutor, *Self Employed*
March 2021 – May 2023

STEM Outreach

Joshua Tree Night Sky Festival, *The National Park Service*
October 2023

Various Informal Stargazing Events