

M. Katy Rodriguez Wimberly

ASTROPHYSICS ASSISTANT PROFESSOR · CALIFORNIA STATE UNIVERSITY, SAN BERNARDINO

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Appointments

California State University, San Bernardino Assistant Professor	San Bernardino, California August 2023 - Present
University of California, Riverside NSF MPS Ascend Postdoctoral Research Fellow • Advisors: Profs. Laura Sales & Gaby Canalizo	Riverside, California Jan '21 - Aug '23
Pomona College Lecturer	Claremont, California Jan - May '23

Education

University of California, Irvine Ph.D. in Physics • Thesis Advisor: Prof. Michael Cooper • Thesis: Ultra-Faint Dwarf Galaxies: Investigating the Evolution of Our Universe & Those Who Study It	Irvine, California Sep 2016 - Dec 2021
California State University, Long Beach M.S. in Physics • Transferred to Ph.D. Program	Long Beach, California Aug 2015 - May 2016
California State University, Long Beach B.S. in Physics • Minor: Math	Long Beach, California Jan 2011 - May 2015
Mount San Antonio College A.A. • Majors: Fine Arts, Natural Science & Math, Social & Behavioral Sciences	Walnut, California Jan 2004 - June 2009

Publications

A Model of Mentorship for Students from Historically Underrepresented Groups in STEM Rodriguez Wimberly, M.K., et al. • Accepted for Publishing • arXiv: 2209.03395	Understanding Interventions 2023
Sizing from the Smallest Scales: The Mass of the Milky Way Rodriguez Wimberly, M.K., et al.	MNRAS, 513, 4968 2022
Characterizing the Infall Times and Quenching Timescales of the Milky Way Satellites with <i>Gaia</i> Proper Motions Fillingham, S.P. et al. • Under Review • arXiv: 1906..04180	MNRAS 2019
Suppressing Star Formation on the Smallest Scales: What Role Does Environment Play? Rodriguez Wimberly, M.K., et al.	MNRAS, 483, 4031 2019
SETI Observations of Exoplanets with the Allen Telescope Array Harp, G.R. et al.	AJ, 152.6 (2016b): 181 2016

Highlighted Awards

NSF MPS Ascend Postdoctoral Fellow, 2021 - 2023

AAS National Osterbrock Fellow, 2020 - 2021

NSF Graduate Research Fellow, 2016 - 2021

Eugene Cota-Robles Fellow, 2016 - 2021

Teaching Experience

CSU San Bernardino

Current

PHYS3100: Tools for Physicists — Professor

PHYS1500: Mathematical Methods of Physics — Professor

Pomona College

Jan - May 2023

ASTR002: Introduction to Galaxies and Cosmology — Lecturer

CSU Long Beach

Aug 2015 - May 2016

ASTR110L: Introduction to Astronomy Lab — Instructor on Record

Highlighted Mentorship

Cal-Bridge Mentorship Handbook

Revision Team Lead

June 2021

- Revisions focus on reciprocal mentor-mentee relationships (especially in that as much as students need to adapt to academia, mentors and academia need to adapt to students), highlighting hurdles specific to many underrepresented groups within STEM, and mental health
- Publicly available at <https://tinyurl.com/CBMentorshipHandbook>

Cal-Bridge Mentor Map

Author

Aug 2020

- Created a Mentor/Support Network Map designed specifically for undergraduate STEM students.
- Publicly available at <https://tinyurl.com/CBMentorshipMap>

Observing Experience

6 Nights **Keck Observatory**, Mass-Metallicity Relation for UFDs

LRIS, Lead Co-I

1.5 Nights **Keck Observatory**, Chemical Abundances in UFD, Willman 1

DEIMOS, Lead Co-I

15 Nights **Keck Observatory**, Extragalactic Star Formation Quenching Survey

DEIMOS, Co-I

Oct 2015 **UCO/Lick Observatory**, Robert P. Kraft Observational Astronomy Workshop

References

Dr. Laura Sales

Professor - UC Riverside

lsales@ucr.edu - 951.827.7037

Dr. Michael Cooper

Professor - UC Irvine

cooper@uci.edu - 949.824.6485

Dr. Alex Ji

Professor - University of Chicago

alexji@uchicago.edu - 773.702.8203

Dr. Alex Rudolph

Professor - Cal Poly Pomona

alrudolph@cpp.edu - 909.717.1851