M. Katy Rodriguez Wimberly

ASTROPHYSICS ASSISTANT PROFESSOR · CALIFORNIA STATE UNIVERSITY, SAN BERNARDINO

MWimberly@csusb.edu | Mrrodriguezwimberly.github.io | Inkedin.com/in/katyrodriguezwimberly | ORCID: 0000-0003-1848-5571

Appointments

California State University, San Bernardino

San Bernardino, California

Assistant Professor

August 2023 - Present

University of California, Riverside

Riverside, California

NSF MPS Ascend Postdoctoral Research Fellow

Jan '21 - Aug '23

• Advisors: Profs. Laura Sales & Gaby Canalizo

Claremont, California

Lecturer

Pomona College

Jan - May '23

Research Statement(s).

I study Near–Field Cosmology and Galaxy Evolution using both optical telescopes and cosmological simulations. In particular, my work focuses on ultra–faint dwarf galaxies — researching these possible relics of the first galaxies ever formed to learn more about the Early Universe, how the earliest galaxies evolve, and how they can be used as a tool to learn more about our own galaxy, the Milky Way. Additionally, I study RR Lyrae stars in the Milky Way's stellar halo to explore our Galaxy's mass and stellar structures through a different lense.

Alongside this astrophysics research, I work to improve the astronomical community for all, including publishing articles to help spread successful programs. I have created peer mentorship programs implemented at my alma mater, UC Irvine, at my postdoctoral institution, UC Riverside, and within the Cal-Bridge Program. My aim is to normalize a holistic approach to academic success and strengthen marginalized communities.

Education

University of California, Irvine

Irvine. California

Ph.D. in Physics

Sep 2016 - Dec 2021

- Thesis Advisor: Prof. Michael Cooper
- Thesis: Ultra-Faint Dwarf Galaxies: Investigating the Evolution of Our Universe & Those Who Study It

University of California, Irvine

Irvine, California

M.S. in Physics

Sep 2016 - June 2019

• GPA: 3.34 out of possible 4.00

California State University, Long Beach

Long Beach, California

M.S. in Physics · Transferred to Ph.D. Program

Aug 2015 - May 2016

• GPA: 4.00 out of possible 4.00

California State University, Long Beach

Long Beach, California

B.S. in Physics · Minor in Math

Jan 2011 - May 2015

• Major GPA: 3.20 out of possible 4.00

Mount San Antonio College

Walnut, California

A.A. · Majors in Fine Arts, Natural Science & Math, Social & Behavioral Sciences

Jan 2004 - June 2009

• Overall GPA: 3.32 out of possible 4.00

Grants

NSF MPS Ascending Faculty Catalyst Award

\$242,456

Driving Community Learning at Cosmic Scales: Defining Ultrafaint Dwarf Galaxies & Radical Mentorship Methods

2024 - 2026

Astrophysics Research Consortium: SDSS-V FAST

\$45,834

Linking Velocities and Brightness in Variable Stars: Toward Measuring the Total Mass of the Milky Way Out to $30~\rm kpc$

2024 - 2025

June 17, 2025 RODRIGUEZ WIMBERLY CV 1/7

NSF AST Conference Grant Cal-Bridge Doctoral Scholars Summer Institute Conference	\$49,950 2024
PATHS Linking Velocities and Brightness in Variable Stars: Towards Measuring the Mass of the Milky Way	\$1 5,200 2023
New York Community Trust: Astrophysics Grant Equipment Purchase - Laptops for Astrophysics Data Reduction & Analysis	\$4,000 2024
NSF AST Conference Grant Cal-Bridge Summer Institute Alumni Conference	\$49,375 2023
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	

Peer Reviewed Publications

A Model of Mentorship for Students from Historically Underrepresented Groups in STEM
Rodriguez Wimberly, M.K., et al.

*Understanding Interventions*2023

Sizing from the Smallest Scales: The Mass of the Milky Way Rodriguez Wimberly, M.K., et al.

MNRAS, 513, 4968

Characterizing the Infall Times and Quenching Timescales of the Milky Way Satellites with *Gaia* Proper Motions

MNRAS

Fillingham, S.P. **et al.**• arXiv: 1906..04180

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

AJ, 152.6 (2016b): 181

Harp, G.R. et al.

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Teaching Experience

CSU San Bernardino Current

PHYS3100: Mathematical Methods of Physics — Professor

PHYS1500: Tools for Physicists — Professor

ASTR3310: Astrophysics of Galaxies and Cosmology — Professor

ASTR2300: Introduction to Astronomy for Scientists — Professor

Pomona College Jan - May 2023

ASTR002: Introduction to Galaxies and Cosmology — Lecturer

CSU Long Beach Aug 2015 - May 2016

 ${\tt ASTR110L: Introduction\ to\ Astronomy\ Lab-Instructor\ on\ Record}$

Highlighted Mentorship Products _____

Cal-Bridge Mentorship Handbook

Revision Team Lead June 202.

• 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	

Skills____

Programming	Python (Pandas, SciPy, NumPy, Scikit-learn, AstroPy), IRAF (DEIMOS Mask Design, Wavelength Calibration), MySQL, Fortran95,
Programming	Mathematica, HTML, Certified LabVIEW Associate Developer
Tools	Unix, Shell (Bash/Zsh), 전 (Overleaf/R Markdown), Pypelt, Aladin, DS9, Gwyddion, Git, Atomic & Magnetic Force Microscopy.
Soft Skills	Mentorship, Time Management, Teamwork, Problem-solving, Documentation, Engaging Presentation.

Society Memberships _____

Astronomical Society of the Pacific, Vice President, Diversity Committee Co-Chair, Board Fellow	2017 - Present
American Astronomical Society, Early Career Task Force, Meetings Task Force, Demographics Committee	2015 - Present
American Physical Society, Member	2015 - 2017
Society of Physics Students - CSULB, CSULB Chapter Secretary (2013-2015), Member	2011 - 2015

Invited Talks

Pedagogical Practices for Building Welcoming Astrophysics Classrooms , 246 th American Astronomical	Jun 2025
Society Meeting Special Session	Juii 2025
Astronomy Colloquium, Cal Poly San Luis Obispo Physics Department Colloquium	May 2025
Invited Public Talk, Santa Barbara Astronomical Unit at The Santa Barbara Museum of Natural History	May 2025
Invited Research Pitch, CSU STEM-NET Virtual Research Cafe 10.0	Mar 2025
$\textbf{Towards Equity in the Classroom}, 244^{\rm th} \text{American Astronomical Society Meeting Special Session}$	Jun 2024
Astronomy Colloquium, California State University, Long Beach, Department of Physics & Astronomy	Feb 2024
Astronomy Colloquium, California State University, Los Angeles, Department of Physics & Astronomy	Sep 2023
Lamat Institute Summer Speaker, University of California, Santa Cruz, Department of Astronomy	Aug 2023
Astronomy Colloquium, University of Texas, Austin, Department of Astronomy	Apr 2023
First Friday Astronomy, Boise State University, Department of Physics	Mar 2023
${f 241}^{st}$ Meeting of the American Astronomical Society, NSF AAPF Symposium Mentorship Panelist	Jan 2023
Astronomy Colloquium, University of Michigan, Department of Astronomy	September 2022
Conversations in Equity & Inclusion, University of Michigan, Department of Astronomy	September 2022
Astronomy Brown Bag Lunch, MIT	May 2022
Physics & Astronomy Colloquium, Pomona College	April 2022
Cosmology & Astronomy Seminar, University of California, Davis	October 2021
CCAPP Little Galaxies Meeting, The Ohio State University	October 2021
Lunchtime Seminar, The Carnegie Observatories	September 2021
Lunchtime Seminar, The Carnegie Observatories	February 2020
Barriers to Equity, Inclusion & Diversity in Astronomy, Plenary Speaker, Presented on Imposter Syndrome, Astronomical Society of the Pacific 130^{th} Annual Meeting	September 2018

Recent Contributed Presentations

${f 246}^{th}$ Meeting of the American Astronomical Society, <code>Phase-Calibrating Velocities in RR Lyrae Stars</code>	Jan 2025
American Physical Society's Global Physics Summit, Ultra–faint Dwarf Galaxies: Hydrus I & Willman 1	Mar 2025
${f 241}^{st}$ Meeting of the American Astronomical Society, NSF AAPF Symposium	Jan 2023
Astronomical Society of the Pacific 2022: A Virtual Conference, Contributed Oral Presentation	December 2022
Keck Science Meeting, Oral Presentation	September 2022
GalFESCA Conference, Oral Presentation	September 2022
${f 240}^{th}$ Meeting of the American Astronomical Society, Dissertation Contributed Oral Presentation	June 2022
Science by Diverse Scientists: A Cal-Bridge Physics & Astronomy Seminar, Oral Presentation	April 2022
Galaxy Formation & Evolution in the Era of the Roman Space Telescope, Oral Presentation	October 2020
Space Telescope Science Institute's 2020 Spring Symposium — The Local Group: Assembly &	September 2020
Evolution , Poster Presentation	

Highlighted Service Activities

Astronomical Society of the Pacific Board

2017 - Present

Premier professional society for promoting public science interest, engagement, and literacy.

- Vice President (2025-2027)
- Jr. Board Fellow Selection Committee Co-Chair (2022 Current)
- Board of Directors' Diversity Committee Co-Chair (2019 Current)
- Board of Directors Member (2019 2025)
- Jr. Board Fellow (2017 2019)

Cal-Bridge Program

2019 - Present

A bridge program assisting primarily UMR students through STEM career pathways.

- Director of Mentorship (2023 Current)
- Doctoral Summer Institute, NSF Conference Grant PI (July 2023)
- Doctoral Summer Institute, Pedagogy Training Co-I (July 2023)
- Mentorship Committee Chair (2020 2023)
- Director of Peer Mentorship Program (2019 2023)

American Astronomical Society

2022 - Present

Premier professional society in the U.S. for astronomers.

- Invited Demographics Committee Member (2023 Current)
- Invited Meetings Task Force Member (2023 Current)
- Invited Early Career Perspectives Task Force Member (2022 Current)

APS-IDEA Network: UCI Team Member

2020-2021

Network creating equitable, inclusive and diverse communities

UCI Physics & Astronomy Community Excellence

2018-2021

- Co-Creator of Peer Mentoring Programs for 1st Year Physics Graduate Students
- Group Sessions & 1-on-1 Mentoring with Trained Peer Mentors
- Our Website: uci-pace.github.io

Highlighted Media Pieces

Mercury Magazine Contributor (Research Focus)

2018 - Present

Astronomical Society of the Pacific

Author: Katy Rodriguez Wimberly

Road to Happiness: Featured Alumni Story

August 2022

September 2021

The Reionization of Katy Rodriguez Wimberly

California Sate University STEM Network

Author: Monica Alarcon

UC Irvine School of Physical Sciences Features

Author: Lucas Van Wyk Joel

Ultra-Faint Dwarf Galaxies: Cosmic Fossils?

2018-2020

AstronoMouse YouTube SciComm Playlist

Creator: Katy Rodriguez Wimberly

The Story Collider: True, Personal Stories About Science

Speaker: Katy Rodriguez Wimberly

Employment History

UCI Competitive Edge Program, Graduate Student Peer Mentor	2017 & 2018
UCI Competitive Edge Program, Graduate Student Researcher	2016
CSLUB Physics Dept., Teaching Assistant - Astronomy Lab Instructor	2015-2016
UCI Summer Internship Program, Cal-Bridge Student Researcher	2015
US Army Reserves , Staff Sergeant, Saxophonist, Human Resources Manager	2003-2015
CSLUB Physics Dept., Learning Assistant	2013-2015
SETI Institute REU, CAMPARE Student Researcher	2014
LSAMP Academic Year Fellowship, Student Researcher	2013-2014
University of Texas, Brownsville Physics REU, Student Researcher	2012
CSULB Physics Dept., Winter Research Student Researcher	2012
Dept. of Defense Army Civilian , 300th Army Band Unit Administrator	2009-2012
Anbeten Productions, Design Assistant/Consultant	2006-2009
Disneyland Attractions Dept., Innoventions Supervisor, Project Lead & Performer	2007-2009
Mt. San Antonio College Theatre Dept., Asst. Costumer	2006
Disneyland Entertainment Dept. , Costumer & Atmosphere Character	2003-2006

References_

Dr. Laura SalesProfessor - UC Riverside

lsales@ucr.edu - 951.827.7037

Dr. Michael CooperProfessor - UC Irvine

cooper@uci.edu - 949.824.6485

Dr. Alex Ji Professor - University of Chicago

alexji@uchicago.edu - 773.702.8203

Dr. Alex RudolphProfessor - Cal Poly Pomona

alrudolph@cpp.edu - 909.717.1851

Previous Awards

UCI Latino Excellence & Achievement Award, 2020

 $\textbf{UCI Physics \& Astronomy Department Award for Outstanding Contributions}} \ , 2019$

UCI Graduate Division Tom Angell Mentor Fellowship, 2019

Doctoral Diversity Initiative Fellow, 2016

Diversity Recruitment Fellowship, 2016

Nevin Graduate Endowment Fellowship , $2016\,$

 $\textbf{CSU-UC Cal-Bridge Scholar}\ , \ 2014-2017$

 $\textbf{LSAMP PROUD Scholar Award}\ , 2015$

CSULB Physical Sciences and Mathematics Scholar, 2014

CSULB Physics Department Scholarship, 2014

Louis Stokes' Alliance for Minority Participation Academic Year Fellow, 2013 - 2014

CSULB Physics Department Scholarship, 2013

Past Service Activities

DreamWakers Speaker 2017 - Present

Virtual chats with grade school science classrooms.

NASA SMD Bridge Program Workshop

2022

Early Career Prospectives Breakout Discussion Facilitator.

EmpowHER: Empowering Women through High School Engagement and STEM Research-Keynote Speaker

2022

Inaugural Annual Conference to enhance student success in STEM

University of California, Irvine

Department Committee to Improve Climate and Diversity A Graduate Stude UCI Physics & Astronomy Physics Graduate Caucus Department Organization to Improve Graduates' Experience UCI Physics & Astronomy Admission Task Force Department Committee to Improve Diversity in Admissions A Graduate Stude UCI Astronomy Outreach Telescope Volunteer for Elementary-level Classroom Night Sky Viewing Parties Astronomy Outreach for Underrepresented Youth K-12 Classroom Visits for underrepresented groups ranging from ethnic minorities to Autistic and Downs Syndrome students. Letters to a Pre-Scientist Scientist Pen Pal Pen Pal during each Academic Year with a grade school student interested in space science. UCI DECADE Learning Community - Invited Workshop Leader Created and Lead Workshop on Facing Impostor Phenomena Reclaiming STEM Science Communication Workshop - Invited Speaker Presented "Building Your Social Media Brand" UCI Physics & Astronomy Stride! Peer Mentoring Mentoring & Activities Focused on Graduate Applications & Transition UCSC Osterbrock Sierra Conference Planning Comittee, Co-I Lead Professional Development Planning & Execution SPS CSULB Chapter Secretary - Assist in outreach program & event planning & execution	2020
Assisted in proposal, promotion, recruitment, and programming Co-Leader of ASCEND@UCI Mini Conference- Our Website: https://sites.uci.edu/cuwip2020/ascend-at-uci/Astronomical Society of the Pacific Junior Board Fellow First ever Junior Board Fellow on the ASP Board of Directors Bruin Brains Research Conference - Keynote Speaker TRIO Programming at Salt Lake Community College, UT Expand Your Horizons Event - Keynote Speaker Annual Workshop for 6-10th Grade Girls Interested in STEM CIP Physics & Astronomy Inclusive Excellence Committee Department Committee to Improve Climate and Diversity UCI Physics & Astronomy Physics Graduate Caucus Department Organization to Improve Graduates' Experience UCI Physics & Astronomy Admission Task Force Department Organization to Improve Diversity in Admissions A Graduate Stude UCI Astronomy Outreach Telescope Volunteer for Elementary-level Classroom Night Sky Viewing Parties Astronomy Outreach for Underrepresented Youth K-12 Classroom Visits for underrepresented groups ranging from ethnic minorities to Autistic and Downs Syndrome students. Letters to a Pre-Scientist Scientist Pen Pal Pen Pal during each Academic Year with a grade school student interested in space science. UCI DECADE Learning Community - Invited Workshop Leader Created and Lead Workshop on Facing Impostor Phenomena Reclaiming STEM Science Communication Workshop - Invited Speaker Presented "Building Your Social Media Brand" UCI Physics & Astronomy Stride! Peer Mentoring Mentoring & Activities Pocused on Graduate Applications & Transition UCSC Osterbrock Sierra Conference Planning Comittee, Co-I Lead Professional Development Planning & Execution SPSC SULB Chapter Secretary Assist in outreach program & event planning & execution	2020
- Ce-Leader of ASCEND@UCI Mini Conference - Our Website: https://sites.uci.edu/cuwip2020/ascend-at-uci/ Astronomical Society of the Pacific Junior Board Fellow First ever Junior Board Fellow on the ASP Board of Directors Bruin Brains Research Conference - Keynote Speaker TRIO Programming at Salt Lake Community College, UT Expand Your Horizons Event - Keynote Speaker Annual Workshop for 6-10th Grade Girls Interested in STEM Salt Lake Community UCI Physics & Astronomy Inclusive Excellence Committee Department Committee to Improve Climate and Diversity A Graduate Stude UCI Physics & Astronomy Physics Graduate Caucus Department Organization to Improve Graduates' Experience UCI Physics & Astronomy Admission Task Force Department Committee to Improve Diversity in Admissions A Graduate Stude UCI Astronomy Outreach Telescope Volunteer for Elementary-level Classroom Night Sky Viewing Parties Astronomy Outreach for Underrepresented Youth K-12 Classroom Visits for underrepresented Groups ranging from ethnic minorities to Autistic and Downs Syndrome students. Letters to a Pre-Scientist Scientist Pen Pal Pen Pal during each Academic Year with a grade school student interested in space science. UCI DECADE Learning Community - Invited Workshop Leader Created and Lead Workshop on Facing Impostor Phenomena Reclaiming STEM Science Communication Workshop - Invited Speaker Presented "Building Your Social Media Brand" UCI Physics & Astronomy Stride! Peer Mentoring Mentoring & Activities Focused on Graduate Applications & Transition UCSC Osterbrock Sierra Conference Planning Comittee, Co-I Lead Professional Development Planning & Execution	
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Lead Professional Development Planning & Execution SPS CSULB Chapter Secretary Assist in outreach program & event planning & execution	2018
Assist in outreach program & event planning & execution	2017
Assist in outreach program & event planning & execution	2013-2015
Assist in chapter and physics department event planning and execution	
CSULB Science Outreach	2013 - 2014
Workshop Leader for Mexican American Engineers & Scientists CSULB Chapter	

Past Contributed Presentations

Keck Science Meeting, Oral Presentation	September 2022
Cal-Bridge's Science by Diverse Scientists, Oral Presentation	September 2020
GalFRESCA @ UCI, Oral Presentation	August 2019
Keck Science Meeting, Poster Presentation	September 2018
UCSC Galaxy Workshop , Oral Presentation, Recording of the presentation can be found here!	August 2018
GalFRESCA, CalTech, Oral Presentation	August 2017
UCI Summer Research Symposium, Poster Presentation	August 2016
227 th AAS Meeting , Poster Presentation	January 2016
APS Far West Meeting, Oral Presentation	October 2015
CAMPARE Research Symposium, Oral Presentation	September 2015
UCI Summer Research Symposium, Oral Presentation	September 2015
CSULB Student Research Symposium, Poster Presentation	October 2014
Astrobiology Science Conference, Oral Presentation	June 2015
CAMPARE Research Symposium, Oral Presentation	September 2014
SETI Institute REU Symposium , Oral Presentation, <i>Lightening Talk</i> version found here at 22:00 minutes	August 2014
CSULB Student Research Symposium, Poster Presentation	October 2013
Conference for Undergraduate Women in Physics, Poster Presentation	January 2013
University of Texas, Brownsville REU Symposium, Oral Presentation	January 2013

Past Media Pieces

1 Million Women in STEM

The Cal-Bridge Program

Astronomy on Tap!

March 2021

AOT Davis AOT West LA Co-Presenter: Katy Rodriguez Wimberly

Katy Rodriguez Wimberly Receives Latino Excellence and Achievement Award

UC Irvine School of Physical Sciences News

Author: Lucas Van Wyk Joel

May 2020

Summer 2020

April 2019

Author: Katy Rodriguez Wimberly

PACE Yourself April 2020

UC Irvine School of Physical Sciences Features

Author: Lucas Van Wyk Joel

M. Katy Rodriguez Wimberly Profile

May 2020

Cultivating Excelencia Podcast Interview

Producer: Michelle Espino Lira

Astronomouse

Winter 2019

American Physical Society Forum on Graduate Student Affairs Newsletter

Author: Katy Rodriguez Wimberly

Interview with Katy Rodriguez Wimberly

September 2019

Exploring New Worlds: An Astrophysicist's Journey from Academia to Industry

Interviewer: Ines Juvan-Beaulieu

Reclaiming STEM: addressing the gap in diverse and inclusive trainings

June 2019

Sister STEM

Authors: Evelyn Valdez-Ward AND Linh

Anh Cat

Student Spotlight: Katy Rodriguez Wimberly

UCI Physics & Astronomy Blog

OCT Thysics & Astronomy Blog

California Program Cultivates Minority Physics and Astronomy Ph.D. Students

October 2018

Diverse Issues in Higher Education

Cal-Bridge: Changing the Face of STEM One Student At A Time

May 2018

STEM For All Multiplex

Peer Pressure Ep 38: Astronomy, Not Astrology with Katy Wimberly February 2018

Peer Pressure Podcast

Interviewers: Dominic Lozano and
Brandon Ongsy

JUNE 17, 2025 RODRIGUEZ WIMBERLY CV 8/7

Great Gram! November 2017

Careers with STEM

Interviewer: Eliza Brockwell

Hundreds gather at UCI to witness 'Great American Eclipse'

OC Register

Author: Tomoya Shimura

Student Highlight: Katy Rodriguez Wimberly

Astronomy in Color Interviewer: Jorge Moreno

CSU LSAMP PROUD - Program Recognizing Outstanding Undergraduate Distinction

California State University Louis Stokes Alliance For Minority Participation

October 2015

August 2017

April 2016