

M. Katy Rodriguez Wimberly

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EDUCATION	<i>Ph.D. Candidate Physics & Astronomy</i>	<i>projected</i> December 2022
	University of California, Irvine (UCI)	
	Thesis Advisor: Prof. Michael Cooper	
	<i>M.S. Physics</i>	June 2019
	University of California, Irvine (UCI)	
	GPA: 3.34 out of possible 4.00	
	<i>M.S. Physics</i>	May 2016
	<i>Transferred to PhD Program</i>	
	California State University, Long Beach (CSULB)	
	GPA: 4.00 out of possible 4.00	
PUBLIC- ATIONS	<i>B.S. Physics</i>	May 2015
	California State University, Long Beach (CSULB)	
	Minor: Math	
	Overall GPA: 3.15 out of possible 4.00	
	Major GPA: 3.20 out of possible 4.00	
	<i>A.A.</i>	June 2009
	Mount San Antonio College, Walnut, CA	
	Majors: Fine Arts, Natural Sciences & Math, Social & Behavioral Sciences	
	GPA: 3.32 out of possible 4.00	
	<i>Sizing from the Smallest Scales: The Mass of the Milky Way</i>	
	Rodriguez Wimberly, M.K. , et al. 2021, submitted to MNRAS, (arXiv: 2109.00633)	
	<i>Characterizing the Infall Times and Quenching Timescales of the Milky Way Satellites with Gaia Proper Motions</i>	
	Fillingham, S.P. et al. 2019, MNRAS, under review (arXiv: 1906..04180)	
	<i>Suppressing Star Formation on the Smallest Scales: What Role Does Environment Play?</i>	
	Rodriguez Wimberly, M.K. , et al. 2019, MNRAS, 483, 4031	
	<i>SETI Observations of Exoplanets with the Allen Telescope Array</i>	
	Harp, G.R., et al. 2016, AJ, 152.6 (2016b): 181	
HONORS, AWARDS, PRIZES	Eugene Cota-Robles Fellow	2016 - Current
	AAS National Osterbrock Fellow	2020 - Current
	National Science Foundation Graduate Research Fellow	2016 - 2021
	UCI Latino Excellence & Achievement Award	2020
	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
	CSU-UC Cal-Bridge Scholar	2014 - 2017
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
OBSERVING EXPERIENCE	Keck Observatory DEIMOS: 15 nights UCO/Lick Observatory Robert P. Kraft Observational Astronomy Workshop October 2015, Lick Observatory, Mt. Hamilton, CA	
TEACHING EXPERIENCE	ASTR100L: Intro to Astronomy Lab (Stand Alone) Course Instructor, CSULB Fall 2015 & Spring 2016	
TECHNICAL SKILLS	Python IRAF MySQL LaTeX Aladin DS9 Unix Certified LabVIEW Associate Developer Fortran95 Gwyddion Mathematica Atomic & Magnetic Force Microscopy	
SOCIETY MEMBERSHIPS	<i>Astronomical Society of the Pacific</i> <i>American Astronomical Society</i> <i>American Physical Society</i> <i>Society of Physics Students (SPS) - CSULB</i>	Began 2017 Began 2015 2012 - 2015 2011 - 2015
INVITED TALKS	<i>Ultra Faint Dwarf Galaxies: Quenching, Predictions & Evolutionary History</i> Lunchtime Seminar at Carnegie Observatories <i>Ultra Faint Dwarf Galaxies: Smallest Scales Quenching & Predictions</i> Lunchtime Seminar at Carnegie Observatories <i>Astronomical Society of the Pacific 130th Annual Meeting</i> <i>Plenary Speaker</i> on Imposter Syndrome Plenary Session - Barriers to Equity, Inclusion, and Diversity in Astronomy	September 2021 February 2020 September 2018
RECENT CONTRIBUTED PRESENT- ATIONS	<i>Studying the Smallest Satellites:</i> <i>Star Formation Quenching & The Milky Way's Halo Mass</i> Talk Given at Galaxy Formation & Evolution in the Era of the Roman Space Telescope <i>Studying the Small Scales:</i> <i>Star Formation Quenching & The Milky Way's Halo Mass</i> Poster Presentation at the Space Telescope Science Institute's 2020 Spring Symposium - The Local Group: Assembly & Evolution <i>Ultra Faint Dwarf Galaxies:</i> <i>Smallest Scales Quenching & Predictions</i> Science by Diverse Scientists: A Cal-Bridge Physics & Astronomy Seminar	October 2020 September 2020 September 2020
HIGHLIGHTED SERVICE ACTIVITIES	<i>Astronomical Society of the Pacific Board of Directors Member</i> Diversity Committee Co-Chair <i>Cal-Bridge Mentorship Committee Co-Chair</i> <i>APS-IDEA Network: UCI Team Member</i>	Began 2019 Began 2020 Began 2020

Network creating equitable, inclusive and diverse communities
Cal-Bridge Director of Peer Mentoring Program Began 2019
 Creator & Organizer of Peer Mentoring Program for Cal-Bridge Scholars
UCI Physics & Astronomy Community Excellence Began 2018
 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

REFERENCES Dr. Michael Cooper Professor - UC Irvine
 cooper@uci.edu - 949.824.6485
 Dr. Manoj Kaplinghat Professor - UC Irvine
 mkapling@uci.edu - 949.824.8541
 Dr. Alex Rudolph Professor - Cal Poly Pomona
 alrudolph@cpp.edu - 909.717.1851

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

DIVERSITY OUTREACH COMMUNITY *DreamWakers Speaker* Began 2017
 Virtual chats with grade school science classrooms.
UCI Competitive Edge Workshop Leader 2020
 Created and Lead Workshop on Impostor Phenomena
APS Conference for Undergraduate Women in Physics at UCI 2020

Local Organizing Committee
 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 2017-2019
 First ever Junior Board Fellow on the ASP Board of Directors
 Serving on the Diversity Committee

Bruin Brains Research Conference - Keynote Speaker 2019
 TRIO Programming at Salt Lake Community College, UT

Expand Your Horizons Event - Keynote Speaker 2019
 Annual Workshop for 6-10th Grade Girls Interested in STEM
 Salt Lake Community College, UT

UCI Physics & Astronomy Inclusive Excellence Committee 2017-2019
 Department Committee to Improve Climate and Diversity
 A Graduate Student Representative

UCI Physics & Astronomy Physics Graduate Caucus 2017-2019
 Department Organization to Improve Graduates' Experience
 Mentorship Chair - Creating and Reviving Peer Mentor Programs

UCI Physics & Astronomy Admission Task Force 2018-2019
 Department Committee to Improve Diversity in Admissions
 A Graduate Student Representative

UCI Astronomy Outreach 2016-2019
 Telescope Volunteer for Elementary-level Classroom Night Sky Viewing Parties

Astronomy Outreach for Underrepresented Youth 2016-2019
 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 2015-2019
 Pen Pal during each Academic Year with a grade school student interested in space science.

UCI DECADE Learning Community - Invited Workshop Leader 2018
 Created and Lead Workshop on Facing Impostor Phenomena

Reclaiming STEM Science Communication Workshop - Invited Speaker 2018
 A Science Communication Workshop by Diverse Scientists For Diverse Scientists
 Presented "Building Your Social Media Brand"

UCI Physics & Astronomy Stride! Mentoring 2018
 Lead a Grad-Undergrad Mentoring Summer Program
 Mentoring & Activities Focused on Graduate Applications & Transition

UCSC Osterbrock Sierra Conference Planning Committee, Co-I 2017
 Lead Professional Development Planning & Execution

SPS CSULB Chapter Secretary 2013-2015
 Assist in outreach program & event planning & execution
 Assist in chapter and physics department event planning and execution

CSULB Science Outreach 2013 - 2014
 Volunteer for Mexican American Engineers & Scientists CSULB Chapter's
 2013 & 2014 Science Extravaganzas as both small group & workshop leader

PAST CONTRIBUTED PRESENT-ATIONS

Ultrafaint Dwarf Galaxies: August 2019
The Suppression of Their Star Formation & Their Orbits
 Talk given at GalFRESCA UCI

Suppressing Star Formation on the Smallest Scales: September 2018
What Role Does Environment Play?
 Poster Presentation given at Keck Science Meeting 2018

Suppressing Star Formation on the Smallest Scales: August 2018

What Role Does Environment Play?
 Talk given at UCSC Galaxy Workshop 2018, Santa Cruz
 Recording of the presentation can be [found here!](#)
 A PDF of the presentation slides can be [found here.](#)

Suppressing Star Formation on the Smallest Scales: August 2017
What Role Does Environment Play?
 Talk given at GalFRESCA 2017, CalTech

Constraining Quenching Timescales at $z > 1.5$ August 2016
 Poster Presentation at UCI Summer Research Symposium

Constraining Quenching Timescales at $z > 1.5$ January 2016
 Poster Presentation at AAS 2016 Meeting

Constraining Quenching Timescales at $z > 1.5$ October 2015
 Talk given at APS Far West Meeting 2015

Quenching Time: A study on galaxy evolution & formation. September 2015
 Talk given at Cal Poly Pomona's 2015 CAMPARE Research Symposium

Quenching Time: A study on galaxy evolution & formation. September 2015
 Talk given at UC Irvines's 2015 Summer Research Symposium

Analysis of SETI's Radio Signal Observations & Classification Tests June 2015
 Talk given at the national Astrobiology Science Conference, Chicago, IL

Surface Morphology of Ferromagnetic Nanostructures October 2014
 Poster presentation given at CSULB's Student Research Symposium

Analysis of SETI's Radio Signal Observations & Classification Tests September 2014
 Talk given at Cal Poly Pomona's 2014 CAMPARE Research Symposium

Analysis of SETI's Radio Signal Observations and Classification Tests August 2014
 Talk given to the SETI Institute, Mountain View, CA for SETI/NSF REU

Lightening Talk version [found here](#) at 22:00 minutes

Volume Meter October 2013
 Poster presentation given at CSULB's Student Research Symposium

The Variability of Vega January 2013
 Poster presentation for the 2013 Conference for Undergraduate Women in Physics

The Variability of Vega August 2012
 Poster presentation & talk at the University of Texas, Brownsville