

## M. Katy Rodriguez Wimberly

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[mkrodriguezvimberly.github.io](https://github.com/mkrodriguezvimberly)

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EDUCATION	<i>Ph.D. Candidate Physics &amp; Astronomy</i>	<i>projected</i> June 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	
HONORS, AWARDS, PRIZES	<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	
	National Science Foundation Graduate Research Fellow	2016 - Current
	Eugene Cota-Robles Fellow	2016 - Current
	AAS National Osterbrock Fellow	2020 - Current
	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
<b>OBSERVING EXPERIENCE</b>	Keck Observatory DEIMOS: 15 nights UCO/Lick Observatory Robert P. Kraft Observational Astronomy Workshop October 2015, Lick Observatory, Mt. Hamilton, CA	
<b>TEACHING EXPERIENCE</b>	ASTR100L: Intro to Astronomy Lab (Stand Alone) Course Instructor, CSULB Fall 2015 & Spring 2016	
<b>TECHNICAL SKILLS</b>	Python      IRAF      MySQL      LaTeX      Aladin      DS9 Unix      Certified LabVIEW Associate Developer      Fortran95 Gwyddion      Mathematica      Atomic & Magnetic Force Microscopy	
<b>SOCIETY MEMBERSHIPS</b>	<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 2015 - 2017 2012 - 2015 2011 - 2015
<b>INVITED TALKS</b>	<i>Ultra Faint Dwarf Galaxies:</i> <i>Smallest Scales Quenching &amp; 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	February 2020   September 2018
<b>RECENT CONTRIBUTED PRESENT- ATIONS</b>	<i>Studying the Smallest Satellites:</i> <i>Star Formation Quenching &amp; 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 &amp; 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 &amp; Predictions</i> Science by Diverse Scientists: A Cal-Bridge Physics & Astronomy Seminar	October 2020    September 2020   September 2020
<b>HIGHLIGHTED SERVICE ACTIVITIES</b>	<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> Network creating equitable, inclusive and diverse communities <i>Cal-Bridge Director of Peer Mentoring Program</i> Creator & Organizer of Peer Mentoring Program for Cal-Bridge Scholars <i>UCI Physics &amp; Astronomy Community Excellence</i> Co-Creator of Peer Mentoring Programs for 1st Year Physics Graduate Students Group Sessions & 1-on-1 Mentoring with Trained Peer Mentors	Began 2019  Began 2020 Began 2020  Began 2019 Began 2018

Our Website: [uci-pace.github.io](https://uci-pace.github.io)

<b>REFERENCES</b>	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	

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

<b>DIVERSITY OUTREACH COMMUNITY</b>	<i>DreamWakers Speaker</i>	Began 2017
	Virtual chats with grade school science classrooms.	
	<i>UCI Competitive Edge Workshop Leader</i>	2020
	Created and Lead Workshop on Impostor Phenomena	
	<i>APS Conference for Undergraduate Women in Physics at UCI</i>	2020
	<i>Local Organizing Committee</i>	
	Assisted in proposal, promotion, recruitment, and programming	
	Co-Leader of ASCEND@UCI Mini Conference	
	Our Website: <a href="https://sites.uci.edu/cuwip2020/ascend-at-uci/">https://sites.uci.edu/cuwip2020/ascend-at-uci/</a>	
	<i>Astronomical Society of the Pacific Junior Board Fellow</i>	2017-2019
	First ever Junior Board Fellow on the ASP Board of Directors	

Serving on the Diversity Committee	
<i>Bruin Brains Research Conference - Keynote Speaker</i>	2019
TRIO Programming at Salt Lake Community College, UT	
<i>Expand Your Horizons Event - Keynote Speaker</i>	2019
Annual Workshop for 6-10th Grade Girls Interested in STEM	
Salt Lake Community College, UT	
<i>UCI Physics &amp; Astronomy Inclusive Excellence Committee</i>	2017-2019
Department Committee to Improve Climate and Diversity	
A Graduate Student Representative	
<i>UCI Physics &amp; Astronomy Physics Graduate Caucus</i>	2017-2019
Department Organization to Improve Graduates' Experience	
Mentorship Chair - Creating and Reviving Peer Mentor Programs	
<i>UCI Physics &amp; Astronomy Admission Task Force</i>	2018-2019
Department Committee to Improve Diversity in Admissions	
A Graduate Student Representative	
<i>UCI Astronomy Outreach</i>	2016-2019
Telescope Volunteer for Elementary-level Classroom Night Sky Viewing Parties	
<i>Astronomy Outreach for Underrepresented Youth</i>	2016-2019
K-12 Classroom Visits for underrepresented groups ranging from ethnic minorities to Autistic and Downs Syndrome students.	
<i>Letters to a Pre-Scientist Scientist Pen Pal</i>	2015-2019
Pen Pal during each Academic Year with a grade school student interested in space science.	
<i>UCI DECADE Learning Community - Invited Workshop Leader</i>	2018
Created and Lead Workshop on Facing Impostor Phenomena	
<i>Reclaiming STEM Science Communication Workshop - Invited Speaker</i>	2018
A Science Communication Workshop by Diverse Scientists For Diverse Scientists	
Presented "Building Your Social Media Brand"	
<i>UCI Physics &amp; Astronomy Stride! Mentoring</i>	2018
Lead a Grad-Undergrad Mentoring Summer Program	
Mentoring & Activities Focused on Graduate Applications & Transition	
<i>UCSC Osterbrock Sierra Conference Planning Committee, Co-I</i>	2017
Lead Professional Development Planning & Execution	
<i>SPS CSULB Chapter Secretary</i>	2013-2015
Assist in outreach program & event planning & execution	
Assist in chapter and physics department event planning and execution	
<i>CSULB Science Outreach</i>	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**

<i>Ultrafaint Dwarf Galaxies:</i>	August 2019
<i>The Suppression of Their Star Formation &amp; Their Orbits</i>	
Talk given at GalFRESCA UCI	
<i>Suppressing Star Formation on the Smallest Scales:</i>	September 2018
<i>What Role Does Environment Play?</i>	
Poster Presentation given at Keck Science Meeting 2018	
<i>Suppressing Star Formation on the Smallest Scales:</i>	August 2018
<i>What Role Does Environment Play?</i>	
Talk given at UCSC Galaxy Workshop 2018, Santa Cruz	
Recording of the presentation can be <a href="#">found here!</a>	
A PDF of the presentation slides can be <a href="#">found here.</a>	
<i>Suppressing Star Formation on the Smallest Scales:</i>	August 2017
<i>What Role Does Environment Play?</i>	

Talk given at GalFRESCA 2017, CalTech	
<i>Constraining Quenching Timescales at <math>z &gt; 1.5</math></i>	August 2016
Poster Presentation at UCI Summer Research Symposium	
<i>Constraining Quenching Timescales at <math>z &gt; 1.5</math></i>	January 2016
Poster Presentation at AAS 2016 Meeting	
<i>Constraining Quenching Timescales at <math>z &gt; 1.5</math></i>	October 2015
Talk given at APS Far West Meeting 2015	
<i>Quenching Time: A study on galaxy evolution &amp; formation.</i>	September 2015
Talk given at Cal Poly Pomona's 2015 CAMPARE Research Symposium	
<i>Quenching Time: A study on galaxy evolution &amp; formation.</i>	September 2015
Talk given at UC Irvines's 2015 Summer Research Symposium	
<i>Analysis of SETI's Radio Signal Observations &amp; Classification Tests</i>	June 2015
Talk given at the national Astrobiology Science Conference, Chicago, IL	
<i>Surface Morphology of Ferromagnetic Nanostructures</i>	October 2014
Poster presentation given at CSULB's Student Research Symposium	
<i>Analysis of SETI's Radio Signal Observations &amp; Classification Tests</i>	September 2014
Talk given at Cal Poly Pomona's 2014 CAMPARE Research Symposium	
<i>Analysis of SETI's Radio Signal Observations and Classification Tests</i>	August 2014
Talk given to the SETI Institute, Mountain View, CA for SETI/NSF REU	
<i>Lightening Talk</i> version <a href="#">found here</a> at 22:00 minutes	
<i>Volume Meter</i>	October 2013
Poster presentation given at CSULB's Student Research Symposium	
<i>The Variability of Vega</i>	January 2013
Poster presentation for the 2013 Conference for Undergraduate Women in Physics	
<i>The Variability of Vega</i>	August 2012
Poster presentation & talk at the University of Texas, Brownsville	