

# M. Katy Rodriguez Wimberly

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

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## EDUCATION

*Ph.D. Physics & Astronomy*

University of California, Irvine (UCI)

September 2016 - projected June 2022

GPA: 3.34 out of possible 4.00

*M.S. Physics*

*Transferred to PhD Program*

California State University, Long Beach (CSULB)

August 2015 - May 2016

GPA: 4.00 out of possible 4.00

*B.S. Physics*

California State University, Long Beach (CSULB)

January 2011 - May 2015

Minor: Math

Overall GPA: 3.15 out of possible 4.00

Major GPA: 3.20 out of possible 4.00

*A.A.*

Mount San Antonio College, Walnut, CA

January 2004 - June 2009

Majors: Fine Arts, Natural Sciences & Math, Social & Behavioral Sciences

GPA: 3.32 out of possible 4.00

## PUBLIC- ATIONS

*Suppressing Star Formation on the Smallest Scales:*

*What Role Does Environment Play?*

**Rodriguez Wimberly, M.K.**, Cooper, M.C., Fillingham, S.P., et al. 2019,  
MNRAS, 483, 4031

*SETI Observations of Exoplanets with the Allen Telescope Array*

Harp, G.R., Richards, Jon, Tarter, Jill C., **et al.** 2016, AJ, 152.6 (2016b): 181

## HONORS, AWARDS, PRIZES

National Science Foundation Graduate Research Fellow

Awarded 2016

Eugene Cota-Robles Fellow

Awarded 2016

Doctoral Diversity Initiative Fellow

Awarded 2016

Diversity Recruitment Fellowship

Awarded 2016

Nevin Graduate Endowment Fellowship

Awarded 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: 12 nights

<b>TEACHING EXPERIENCE</b>	ASTR100L: Intro to Astronomy Lab (Stand Alone) Course Instructor, CSULB Fall 2015 & Spring 2016			
<b>TECHNICAL SKILLS</b>	Python      Certified LabVIEW Associate Developer      MySQL      Fortran95 Unix      Aladin      DS9      IRAF      Mathematica Gwyddion      Atomic & Magnetic Force Microscopy      LaTeX			
<b>SOCIETY MEMBERSHIPS</b>	<i>Astronomical Society of the Pacific</i> Began 2017 <i>American Astronomical Society</i> 2015 - 2017 <i>American Physical Society</i> 2012 - 2015 <i>Society of Physics Students (SPS)</i> 2011 - 2015 CSULB Chapter Chapter Secretary for Academic Years 2013-2014 & 2014-2015			
<b>DIVERSITY &amp; OUTREACH</b>	<i>Astronomical Society of the Pacific 130th Annual Meeting</i> September 2018 <i>Plenary Speaker</i> Plenary Session - Barriers to Equity, Inclusion, and Diversity in Astronomy Presented on Imposter Syndrome <i>UCI Reclaiming STEM Science Communication Workshop</i> September 2018 <i>Invited Speaker</i> A Science Communication Workshop by Diverse Scientists For Diverse Scientists Presented "Building Your Social Media Brand" <i>Astronomical Society of the Pacific Junior Board Fellow</i> Began 2017 First ever Junior Board Fellow on the ASP Board of Directors Serving on the Diversity Committee <i>DreamWakers Speaker</i> Began 2017 Virtual chats with grade school science classrooms. <i>UCI Astronomy Outreach</i> Began 2016 Telescope Volunteer for Elementary-level Classroom Night Sky Viewing Parties <i>Astronomy Outreach for Underrepresented Youth</i> Began 2016 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> Began 2015 Pen Pal during each Academic Year with a grade school student interested in space science. <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			
<b>COMMUNITY SERVICE</b>	<i>UCI Physics &amp; Astronomy Community Excellence</i> 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: <a href="http://uci-pace.github.io">uci-pace.github.io</a> <i>UCI Physics &amp; Astronomy Stride! Mentoring</i> Began 2018 Lead a Grad-Undergrad Mentoring Summer Program Mentoring & Activities Focused on Graduate Applications & Transition <i>UCI Physics &amp; Astronomy Admission Task Force</i> Began 2018 Department Committee to Improve Diversity in Admissions A Graduate Student Representative <i>UCSC Osterbrock Sierra Conference Planning Comittee, Co-I</i> Began 2017 Lead Professional Development Planning & Execution <i>UCI Physics &amp; Astronomy Inclusive Excellence Committee</i> Began 2017			

Department Committee to Improve Climate and Diversity  
 A Graduate Student Representative  
*UCI Physics & Astronomy Physics Graduate Caucus* Began 2017  
 Department Organization to Improve Graduates' Experience  
 Mentorship Chair - Creating and Reviving Peer Mentor Programs  
*SPS CSULB Chapter Secretary* August 2013 - May 2015  
 Assist in outreach program & event planning & execution  
 Assist in chapter and physics department event planning and execution

## WORK EXPERIENCE

*UCI Competitive Edge Program*  
 June 2017 - August 2017 & June 2018 - August 2018;  
 Graduate Student Peer Mentor  
*UCI Competitive Edge Program*  
 June 2016 - August 2016; Graduate Student Researcher  
*CSULB Physics Dept.*  
 August 2015 - May 2016; Teaching Assistant - Astronomy Lab Instructor  
*UCI Summer Internship Program*  
 June 2015 - August 2015; Cal-Bridge Student Researcher  
*US Army Reserves*  
 June 2003 - August 2015; Staff Sergeant, Saxophonist, Human Resources Manager  
*CSULB Physics Dept.*  
 August 2013 - May 2015; Learning Assistant  
*SETI Institute REU*  
 June 2014 - August 2014; CAMPARE Student Researcher  
*LSAMP Academic Year Fellowship*  
 August 2013 - May 2014; Student Researcher  
*University of Texas, Brownsville Physics REU*  
 June 2012 - August 2012; Student Researcher  
*CSULB Physics Dept.*  
 January 2012 - May 2012; Winter Research Student Researcher  
*Dept. of Defense Army Civilian*  
 July 2009 - September 2012; 300th Army Band Unit Administrator  
*Anbeten Productions*  
 June 2006 - December 2010; Design Assistant/Consultant  
*Disneyland Attractions Dept.*  
 January 2007 - February 2009; Innoventions Supervisor, Project Lead & Performer  
*Mt. San Antonio College Theatre Dept.*  
 January 2006 - May 2006; Asst. Costumer  
*Disneyland Entertainment Dept.*  
 December 2003 - January 2006; Costumer & Atmosphere Character

## PRESENT- ATIONS

*Suppressing Star Formation on the Smallest Scales:*  
*What Role Does Environment Play?*  
 M.K. Rodriguez Wimberly, et al. September 2018  
 Poster Presentation given at Keck Science Meeting 2018  
*Suppressing Star Formation on the Smallest Scales:*  
*What Role Does Environment Play?*  
 M.K. Rodriguez Wimberly, et al. August 2018  
 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:  
What Role Does Environment Play?*  
M.K. Rodriguez Wimberly, Michael Cooper, Sean Fillingham August 2017  
Talk given at GalFRESKA 2017, CalTech

*Constraining Quenching Timescales at  $z > 1.5$*   
M.K. Rodriguez Wimberly, Michael Cooper August 2016  
Poster Presentation at UCI Summer Research Symposium

*Constraining Quenching Timescales at  $z > 1.5$*   
M.K. Rodriguez Wimberly, Michael Cooper January 2016  
Poster Presentation at AAS 2016 Meeting

*Constraining Quenching Timescales at  $z > 1.5$*   
M.K. Rodriguez Wimberly, Michael Cooper October 2015  
Talk given at APS Far West Meeting 2015

*Quenching Time: A study on galaxy evolution & formation.*  
M.K. Rodriguez Wimberly, Michael Cooper September 2015  
Talk given at Cal Poly Pomona's 2015 CAMPARE Research Symposium

*Quenching Time: A study on galaxy evolution & formation.*  
M.K. Rodriguez Wimberly, Michael Cooper September 2015  
Talk given at UC Irvines's 2015 Summer Research Symposium

*Analysis of SETI's Radio Signal Observations & Classification Tests*  
M.K. Rodriguez Wimberly, Dr. G. Harp June 2015  
Talk given at the national Astrobiology Science Conference, Chicago, IL

*Surface Morphology of Ferromagnetic Nanostructures*  
M.K. Rodriguez, K. Ngo, X. Zou, Dr. J. Gu October 2014  
Poster presentation given at CSULB's Student Research Symposium

*Analysis of SETI's Radio Signal Observations & Classification Tests*  
M.K. Rodriguez, Dr. G. Harp September 2014  
Talk given at Cal Poly Pomona's 2014 CAMPARE Research Symposium

*Analysis of SETI's Radio Signal Observations and Classification Tests*  
M.K. Rodriguez, Dr. G. Harp 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*  
M. Jaramillo, M.K. Rodriguez, W. R. Chavez, Dr. C. Kwon October 2013  
Poster presentation given at CSULB's Student Research Symposium

*The Variability of Vega*  
M.K. Rodriguez, S. Fuentes, Dr. M. Diaz January 2013  
Poster presentation for the 2013 Conference for Undergraduate Women in Physics

*The Variability of Vega*  
M.K. Rodriguez, S. Fuentes, Dr. M. Diaz August 2012  
Poster presentation & talk at the University of Texas, Brownsville

<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	