

M. Katy Rodriguez Wimberly

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

University of California Irvine

wimberlm@uci.edu

ORCID: 0000-0003-1848-5571

Twitter: [@astronomouse_](https://twitter.com/astronomouse_)

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., et al. 2019, MNRAS, 483, 4031

SETI Observations of Exoplanets with the Allen Telescope Array

Harp, G.R., 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

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 Certified LabVIEW Associate Developer MySQL Unix Aladin DS9 IRAF Mathematica Gwyddion Atomic & Magnetic Force Microscopy LaTeX	Fortran95
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)</i> CSULB Chapter Chapter Secretary for Academic Years 2013-2014 & 2014-2015	Began 2017 2015 - 2017 2012 - 2015 2011 - 2015
DIVERSITY & OUTREACH	<i>Astronomical Society of the Pacific 130th Annual Meeting</i> <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> <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> First ever Junior Board Fellow on the ASP Board of Directors Serving on the Diversity Committee <i>DreamWakers Speaker</i> Virtual chats with grade school science classrooms. <i>UCI Astronomy Outreach</i> Telescope Volunteer for Elementary-level Classroom Night Sky Viewing Parties <i>Astronomy Outreach for Underrepresented Youth</i> 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> Pen Pal during each Academic Year with a grade school student interested in space science. <i>CSULB Science Outreach</i> Volunteer for Mexican American Engineers & Scientists CSULB Chapter's 2013 & 2014 Science Extravaganzas as both small group & workshop leader	September 2018 September 2018 Began 2017 Began 2017 Began 2016 Began 2016 Began 2015 2013 - 2014
COMMUNITY SERVICE	<i>UCI Physics & 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 Our Website: uci-pace.github.io <i>UCI Physics & Astronomy Stride! Mentoring</i> Lead a Grad-Undergrad Mentoring Summer Program Mentoring & Activities Focused on Graduate Applications & Transition <i>UCI Physics & Astronomy Admission Task Force</i> Department Committee to Improve Diversity in Admissions A Graduate Student Representative <i>UCSC Osterbrock Sierra Conference Planning Committee, Co-I</i> Lead Professional Development Planning & Execution <i>UCI Physics & Astronomy Inclusive Excellence Committee</i>	Began 2018 Began 2018 Began 2018 Began 2017 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
CSLUB 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
CSLUB 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 GalFRESCA 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

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