Curriculum Vitae RAQUEL A. MARTINEZ

RAQUEL A. WARTINEZ	
University of California, Irvine	r.martinez@uci.edu
Department of Physics & Astronomy	Mobile: (626)710-0862
4129 Frederick Reines Hall	Office: (949)824-6911
Irvine, CA 92697	https://raquizzi.github.io
EDUCATION	
The University of Texas at Austin, Austin, TX	Sept 2014 – Aug 2021
Ph. D. in Astronomy, Concentration in Teaching & Mentoring	
Advisor: Dr. Adam Kraus	
Wesleyan University, Middletown, CT	Aug 2011 – May 2013
M. A. in Astronomy	
Advisor: Dr. Seth Redfield	
California Institute of Technology, Pasadena, CA	Sept 2004 – June 2008
B. S. in Astrophysics	
RESEARCH INTERESTS	
Star & Planet Formation, including:	
Direct-imaging and spectroscopy of young brown dwarfs and exoplain	nets
 Brown dwarf and exoplanet atmospheres and evolution 	
Exoplanet demographics	
- Exoplanet demographics	
Positions	
Postdoctoral Scholar, UC Irvine	Sept 2021 – Present
Harrington Graduate Research Fellow, UT Austin	Sept 2014 – Aug 2021
NASA Earth & Space Sciences Fellow (NESSF), UT Austin	Sept 2017 – Aug 2020
Research Assistant, A. Kraus, UT Austin	Sept 2016 – Aug 2017
Intern, D. Padgett, NASA Goddard Space Flight Center	June 2013 – June 2014
Research Assistant, S. Redfield, W. Herbst, Wesleyan University	Sept 2011 – May 2013
FELLOWSHIPS, ACADEMIC HONORS & AWARDS	
Robert Smith Davis and Lyall Pickett Davis Fellowship	April 2019
\$1000 travel grant to attend Extreme Solar Systems IV in Reykjavik,	*
UT Graduate School Professional Development Award	July 2018
\$600 of travel support to attend Cool Stars 20 at Boston University	,,
Fred T. Goetting, Jr. Memorial Endowed Presidential Fellowship, UT A	Austin Dept. of Astronomy 2017
Recognizes a student for outstanding service to the department	Lustin Bept. of Fishionomy 2017
NASA Earth & Space Science Fellowship	Sept 2017 – Aug 2020
Three year \$45,000/yr graduate fellowship	3ept 2017 – Aug 2020
Board of Visitors Graduate Student 2 nd Year Defense Award, UT Austin	n Dept. of Astronomy 2016
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Given in recognition for an outstanding Second Year defense of research	
AAS FAMOUS Travel Grant #500 of travel gupport to attend Winter AAS #220 in Cranquing TV	Nov 2016
\$500 of travel support to attend Winter AAS #229 in Grapevine, TX	NT 2017
UT Graduate School Professional Development Award	Nov 2016
\$800 of travel support to attend High-Contrast Imaging in Space Con	nrerence at \$15c1

Frank N. Edmonds, Jr. Memorial Fellowship, UT Austin Dept. of Astronomy	2015
Given to a second or third year student who shows strong promise in research	
Donald D. Harrington Fellowship, UT Austin Graduate School	Sept 2014 – Aug 2021
Three year \$36,000/yr graduate fellowship for the 1^{st} , 2^{nd} , and 5^{th} years	
Littell Prize, Wesleyan University	May 2013
For excellence in one or more advanced courses in astronomy	-
President's Scholar, California Institute of Technology	Sept 2004 – June 2008
Four year full-tuition scholarship	
SUCCESSFUL OBSERVING PROPOSALS	
Hobby-Eberly Telescope: LRS2, 30.7 hours, (PI)	Dec 2016 – Dec 2018
Gemini North: GNIRS, 1.4 hours, (PI)	2019B
Keck-I: LRIS, 1/2 night, (Co-I)	2021B
Keck-II: NIRSPAO, 1/2 night, (Co-I)	2021B
Hubble Space Telescope: WFC3/UVIS, 26 orbits, (Co-I)	Cycle 28
James Webb Space Telescope: MIRI, NIRCam, NIRISS, NIRSpec, (Collaborator)	Early Release Science
junes trees opace recoope. Hind, Ivircuit, Ivircoo, Ivircopec, (Condobiator)	Early Release Science
Presentations & panels	
AAS Division of Dynamical Astronomy, Invited Speaker, Virtual	May 2021
KIPAC Tea Talk, Invited Speaker, Virtual	Dec 2020
Carnegie EPL Seminar, Invited Speaker, Virtual	Nov 2020
Carnegie Observatories, Invited Speaker, Virtual	Oct 2020
JPL Exoplanet Journal Club, Invited Speaker, Virtual	Oct 2020
SACNAS National Diversity in STEM Conference, Contributed Talk, Virtual	Oct 2020
AAS #237, Contributed Talk, Honolulu, HI	Jan 2020
Brown Dwarf-Exoplanet Connection Workshop III, Contributed Talk, Newark, DE	
	Oct 2019
Center for Astrophysics Star & Planets Seminar, Invited Speaker, Cambridge, MA	Oct 2019
Boston University, Invited Speaker, Boston, MA	
6 th Annual GMT Community Science Meeting, Contributed Talk, Honolulu, HI	Sept 2018
Women in Astronomy IV, Austin, TX	June 2017
Co-designer & Co-presenter of Practicing Allyship: Recognizing and Confronting Man	cro/Microaggressions
Workshop with Brandon Bozek and Caitlin Casey	E-1-2016
Dept. of Astronomy Board of Visitors Meeting, Invited Speaker, UT Austin	Feb 2016
Harrington Symposium, Invited Speaker, Amarillo, TX	April 2015
Harrington Fellows Program Board Meeting, Invited Speaker, UT Austin	March 2015
Northeast Conference for Undergraduate Women in Physics, Panelist, Yale	Jan 2012
TEACHING EXPERIENCE & PUBLIC OUTREACH	
Astronomy on Tap Organizer and Co-Host, Austin, TX	Jul 2016 – Mar 2019
Girl Day STEM Festival Volunteer, UT Austin	Feb 2016 – Present
Coordinated UT Department of Astronomy involvement in event	
attended by >5000 K-8 school-aged children	
AAS Astronomy Ambassador	Jan 2017 – Present
Astronomy on Tap Talk, Austin, TX	May 2015, May 2016
Smart Kids: Career Paths and Personal Journeys in Science, Panelist, UT Austin	Mar 2018
Teaching Assistant, AST 364P Planetary Systems, UT Austin	Fall 2017
CNS Science in the Public Square, Panelist, UT Austin	Nov 2016
Young Scientists' Day, Travis Heights Elementary School	Nov 2016
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James Webb Space Telescope Exhibit Volunteer, SXSW Gaming Expo	March 2015, 2016
Teaching Assistant, Wesleyan University	Fall 2011 – Spring 2013
 Introductory Astronomy, Descriptive Astronomy, The Universe 	
Outreach Volunteer, Van Vleck Observatory, Wesleyan University	Fall 2011 – Spring 2013

PROFESSIONAL DEVELOPMENT

Institute for Scientist & Engineer Educators Leadership by Design, UCSC	2021
Institute for Scientist & Engineer Educators Professional Development Program, UCSC	2017 - 2019
Women in Astronomy IV, Austin, TX	June 2017
Inclusive Astronomy, Vanderbilt University	June 2015

PROFESSIONAL ACTIVITIES & ACADEMIC SERVICE

Graduate Student Program Working Group, UT Austin	Oct 2020 – May 2021
Local Organizing Committee, Bashfest Symposium, UT Austin	2017
UT Austin Department of Astronomy Leadership Positions	
CNS Dean's Council	Sept 2017 – April 2019
Equity & Inclusion Group, Co-Founder	Aug 2016 – Aug 2021
Graduate Student Representative	May 2016 – May 2017
UT Graduate Student Assembly Representative	Sept 2015 – May 2016
Association of Women in Astronomy Research and Education, Coordinator	2014 – Aug 2021
Member, Society for Advancement of Chicanos/Hispanics and	Aug 2016 – Present
Native Americans in Science	
Junior Member, American Astronomical Society	2012 – Present
Representative, Educational Policy Committee, Wesleyan University	Fall 2012 – Spring 2013
Executive Committee, Graduate Student Association, Wesleyan University	2012 – 2013

PUBLICATIONS

A Mid-Infrared Study of Directly-Imaged Planetary-Mass Companions us Archival Spitzer/IRAC Images **Martinez, R. A.**, Kraus, A. L. 2021, AJ, in press (arXiv:2111.03087)

Searching for Wide Companions and Identifying Circum(sub)stellar Disks Through PSF-fitting of Spitzer/IRAC Archival Images

Martinez, R. A., Kraus, A. L. 2019, AJ, 158, 134

TESS Hunt for Young and Maturing Exoplanets (THYME): A planet in the 45 Myr Tucana-Horologium association Newton, E. R., Mann, A. W., Tofflemire, B. M., Pearce, L., Rizzuto, A. C., Vanderburg, A., Martinez, R. A., et al. 2019, ApJL, 880, L17

How to Constrain Your M Dwarf. II. The Mass–Luminosity–Metallicity Relation from 0.075 to 0.7 Solar Masses Mann, A. W., Dupuy, T., Kraus, A. L., Gaidos, E., Ansdell, M., Ireland, M., Rizzuto, A. C., Hung, C.-L., Dittmann, J., Factor, S., Feiden, G., Martinez, R. A., Ruíz-Rodríguez, D., Chia Thao, P. 2019, ApJ, 871, 63