Curriculum Vitae RAQUEL A. MARTINEZ

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EDUCATION	
The University of Texas at Austin, Austin, TX Ph. D. in Astronomy, Concentration in Teaching & Mentoring Advisor: Dr. Adam Kraus	Aug 2014 – Aug 2021
Wesleyan University, Middletown, CT M. A. in Astronomy Thesis: Searching for Spectral Signatures of the Hidden Secondary Component of BM Ori: Improved Spectroscopic Findings Advisor: Dr. Seth Redfield	Aug 2011 – May 2013
California Institute of Technology, Pasadena, CA B. S. in Astrophysics	Sept 2004 – June 2008
RESEARCH POSITIONS	
NSF MPS-Ascend Fellow, UC Irvine	Sept 2022 – Present
Postdoctoral Scholar, S. Sallum, UC Irvine	Sept 2021 – Aug 2022
Harrington Graduate Research Fellow, UT Austin	Sept 2014 – Aug 2021
NASA Earth & Space Sciences Fellow, UT Austin	Sept 2017 – Aug 2020
Research Assistant, A. Kraus, UT Austin	Aug 2014 – Aug 2021
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	
NSF MPS-Ascend Postdoctoral Fellowship	Sept 2022 – Presen
Three year \$100,000 postdoctoral fellowship	
Robert Smith Davis and Lyall Pickett Davis Fellowship	
Robert Smith Davis and Lyall Pickett Davis Fellowship \$1000 travel grant to attend Extreme Solar Systems IV in Reykjavic,	Iceland
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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 – Present
Three year \$36,000 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	C . 2004 I 2000
President's Scholar, California Institute of Technology	Sept 2004 – June 2008
Four year full-tuition scholarship	
SUCCESSFUL OBSERVING PROPOSALS	
	D 2014 D 2010
Hobby-Eberly Telescope: LRS2, 30.7 hours, (PI)	Dec 2016 – Dec 2018
Gemini North: GNIRS, 1.4 hours, (PI)	2019B
Keck-I: LRIS, 3 1/2 nights, (Co-I)	2021B, 2022AB
Keck-II: NIRSPAO, 3 1/2 nights, (Co-I)	2021B, 2022AB
Hubble Space Telescope: WFC3/UVIS, 26 orbits, (Co-I)	Cycle 28
James Webb Space Telescope: MIRI, NIRCam, NIRISS, NIRSpec (Collaborator)	Early Release Science
Presentations & Panels	
University of San Diego, Colloquium, San Diego, CA	Oct 2022
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	-
Center for Astrophysics Star & Planets Seminar, Invited Speaker, Cambridge, MA	Oct 2019
Boston University, Invited Speaker, Boston, MA	Oct 2019
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 Mac	•
Workshop with Brandon Bozek and Caitlin Casey	10/11/11/10/188163310/13
Dept. of Astronomy Board of Visitors Meeting, Invited Speaker, UT Austin	Feb 2016
Harrington Symposium, Invited Speaker, Amarillo, TX	April 2015
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Harrington Fellows Program Board Meeting, Invited Speaker, UT Austin	Maich 2015
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

James Webb Space Telescope Exhibit Volunteer, SXSW Gaming Expo Teaching Assistant, Wesleyan University • Introductory Astronomy, Descriptive Astronomy, The Universe	March 2015, 2016 Fall 2011 – Spring 2013	
Outreach Volunteer, Van Vleck Observatory, Wesleyan University	Fall 2011 – Spring 2013	
PROFESSIONAL DEVELOPMENT		
Postdoc Leadership Institute , Society for Advancement of Chicanos/Hispanics an Native Americans in Science	d Oct 2022	
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		
Reviewer, AAS Journals	2022 – Present	
Full Member, American Astronomical Society	2022 – Present	
Mentoring Working Group Member, NASA Bridge Program	Sept 2022 - Oct 2022	
National Liaison, Society for Advancement of Chicanos/Hispanics and	Sept 2022 – Present	
Native Americans in Science, UC Irvine Chapter		
New Professional Member, Society for Advancement of Chicanos/Hispanics and Native Americans in Science	2022 – Present	
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 - Present	
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 – Present	
Graduate Student Member, Society for Advancement of Chicanos/Hispanics and	2016 - 2021	
Native Americans in Science		
Junior Member, American Astronomical Society	2012 - 2021	
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. 2022, AJ, 163, 36

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

The JWST Early Release Science Program for Direct Observations of Exoplanetary Systems II: A 1 to 20 Micron Spectrum of the Planetary-Mass Companion VHS 1256-1257 b

Miles, B. E., Biller, B. A., Patapis, P., et al. (including Martinez, R. A.) 2022, in review

The JWST Early Release Science Program for Direct Observations of Exoplanetary Systems I: High Contrast Imaging of the Exoplanet HIP 65426 b from 2-16 µm

Carter, A. L., Hinkley, S., Kammerer, J., et al. (including Martinez, R. A.) 2022, in review

The JWST Early Release Science Program for the Direct Imaging and Spectroscopy of Exoplanetary Systems Hinkley, S. Carter, A. L., Ray, S., et al. (including **Martinez**, **R. A.**) 2022, PASP, 134, 095003

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

Martinez, R. A., Silvia, D.W., Rice, E.L., & Porter, J. (2022). Value of the array of returner roles within the Professional Development Program. pp. 381–388 in S. Seagroves, A. Barnes, A.J. Metevier, J. Porter, & L. Hunter (Eds.), Leaders in effective and inclusive STEM: Twenty years of the Institute for Scientist & Engineer Educators. UC Santa Cruz: Institute for Scientist & Engineer Educators. https://escholarship.org/uc/isee_pdp20yr

Finkelstein, K., Martinez, R. A., & Vanderbosch, Z. (2022). Designing and implementing a PDP inquiry activity for an introductory astronomy research methods course. pp. 221–232 in S. Seagroves, A. Barnes, A.J. Metevier, J. Porter, & L. Hunter (Eds.), Leaders in effective and inclusive STEM: Twenty years of the Institute for Scientist & Engineer Educators. UC Santa Cruz: Institute for Scientist & Engineer Educators. https://escholarship.org/uc/isee_pdp20yr