

Curriculum Vitae

RAQUEL A. MARTINEZ

The University of Texas at Austin
Department of Astronomy
2515 Speedway, C1400
Austin, TX 78712

ram@astro.as.utexas.edu
Mobile: (626)710-0862
Office: (512)471-0445
<https://raquizzi.github.io>

EDUCATION

The University of Texas at Austin, Austin, TX Aug 2014 – Present
Ph. D. Candidate, Concentration in Teaching & Mentoring
Advisor: Dr. Adam Kraus

Wesleyan University, Middletown, CT Aug 2011 – May 2013
M. A. in Astronomy
Thesis: *Searching for Spectral Signatures of the Hidden Secondary Component of BM Ori: Improved Spectroscopic Findings*
Advisor: Dr. Seth Redfield

California Institute of Technology, Pasadena, CA Sept 2004 – June 2008
B. S. in Astrophysics

RESEARCH EXPERIENCE

Research Assistant, A. Kraus, UT Austin Sept 2014 – Present
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, Iceland

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 Austin Dept. of Astronomy 2017
Recognizes a student for outstanding service to the department

NASA Earth & Space Science Fellowship Sept 2017 – Present
Three year \$35,000 graduate fellowship

Board of Visitors Graduate Student 2nd Year Defense Award, UT Austin Dept. of Astronomy 2016
Given in recognition for an outstanding Second Year defense of research to date

AAS FAMOUS Travel Grant Nov 2016
\$500 of travel support to attend Winter AAS #229 in Grapevine, TX

UT Graduate School Professional Development Award Nov 2016
\$800 of travel support to attend High-Contrast Imaging in Space Conference at STScI

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 1st, 2nd, and 5th years

Littell Prize, Wesleyan University May 2013
For excellence in one or more advanced courses in astronomy

President's Scholar, California Institute of Technology
Four year full-tuition scholarship

Sept 2004 – June 2008

TELESCOPE TIME AWARDED & OBSERVING EXPERIENCE

8m Gemini North: GNIRS, 1.4 hours	2019B
10m Hobby-Eberly Telescope: LRS2, 30.7 hours	Dec 2016 – Dec 2018
Harlan J. Smith 2.7m Telescope: Robert G. Tull Coudé Spectrograph	Dec 2016
Keck II 10m Telescope: NIRC-2	Sept 2016
Palomar 200" Telescope: Double Spectrograph	June 2014
SOAR 4.1m Telescope: OSIRIS	Feb 2014
SOAR 4.1m Telescope: Goodman Spectrograph	Sept 2013
Wesleyan 24" Perkin Telescope	Fall 2011 – Fall 2012

PRESENTATIONS & PANELS

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 <i>Practicing Allyship: Recognizing and Confronting Macro/Microaggressions</i>	
Workshop with Brandon Bozek and Caitlin Casey	
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 <i>Planetary Systems</i> , 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	March 2015, 2016
Teaching Assistant, Wesleyan University	Fall 2011 – Spring 2013
• <i>Introductory Astronomy, Descriptive Astronomy, The Universe</i>	
Outreach Volunteer, Van Vleck Observatory, Wesleyan University	Fall 2011 – Spring 2013

PROFESSIONAL DEVELOPMENT

Institute for Scientist & Engineer Educators Professional Development Program, UCSC	2017 – Present
Women in Astronomy IV, Austin, TX	June 2017
Sagan Summer Workshop: Is There a Planet in My Data?, Caltech	July 2016
Inclusive Astronomy, Vanderbilt University	June 2015
Sagan Summer Workshop: Imaging Planets and Disks, Caltech	July 2014

PROFESSIONAL ACTIVITIES & ACADEMIC SERVICE

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 Native Americans in Science	Aug 2016 – Present
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 & WORKING PAPERS

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, in press (arXiv:1907.06767)

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

Searching for the Elusive Optical Photospheric Continuum of the Enigmatic Wide-Orbit Tertiary Companion to FW Tau with HET LRS2

Martinez, R. 2018, American Astronomical Society Meeting Abstracts, 231, #246.25

The Demographics and Properties of Wide-Orbit, Planetary-Mass Companions from PSF Fitting of Spitzer/IRAC Images

Martinez, R., & Kraus, A. L. 2017, American Astronomical Society Meeting Abstracts, 230, #118.06

Searching for Wide, Planetary-Mass Companions in Archival Spitzer/IRAC Data

Martinez, R. 2017, American Astronomical Society Meeting Abstracts, 229, #146.17

High-accuracy Spitzer/IRAC Subarray Photometry of Potential Warm Debris Disk Sources Uncovered by WISE

Martinez, R. A., Padgett, D. L., Stapelfeldt, K. R., Su, K. Y. L., submitted to the Astronomical Journal

Improved Spectroscopic Findings of the Orion Trapezium Star θ^1 Ori B₁ (BM Ori)

Martinez, R. A., Redfield, S., Herbst, W., in preparation

Uncovering Spectral Signatures of the Hidden Secondary Component of BM Ori

Martinez, R., Redfield, S., & Herbst, W. 2013, American Astronomical Society Meeting Abstracts, 221, #256.30