

ROMY RODRÍGUEZ MARTÍNEZ

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RESEARCH INTERESTS/GOALS

I am interested in the detection and characterization of extrasolar planets. My chief research goals are to combine precise measurements of exoplanets's masses and radii with the chemical abundances of their host stars to constrain the structure and composition of small exoplanets.

EDUCATION

PhD, Astronomy The Ohio State University	August 2017 - Present
Master of Science, Physics University of Puerto Rico, Río Piedras	August 2015 - June 2017
Bachelor of Science, Physics University of Puerto Rico, Río Piedras	August 2009 - May 2015

PUBLICATIONS

7 total: 5 first author

7. **Rodríguez Martínez, R.**, Stevens, D.J., Gaudi, B.S., Panero, W., “Analytic Estimates of the Achievable Precision on the Physical Properties of Transiting Planets using Purely Empirical Measurements”, *in preparation*
6. Godoy-Rivera, D., Tayar, J., Pinsonneault, M., **Rodríguez Martínez, R.**, et al., “Testing the Limits of Precise Subgiant Characterization with APOGEE and Gaia: Opening a Window to Unprecedented Astrophysical Studies”, *Submitted to the Astrophysical Journal*
5. **Rodríguez Martínez, R.**, Gaudi, B.S., Rodriguez, Joseph E., “KELT-25b and KELT-26b, a Hot Jupiter and a Substellar Companion Transiting Young A-stars observed by TESS”, *Astronomical Journal*
4. Rodriguez, J. E., Eastman, J. D., Zhou, G., et al., “KELT-24b: A $5M_J$ Planet on a 5.6 day Well-Aligned Orbit around the Young V=8.3 F-star HD 93148”, *Astronomical Journal*
3. **Rodríguez Martínez, R.**, Lopez, L., Shappee, B., Kochanek, C.S., Jayasinghe, T., Schmidt, S., “A Catalog of Flares on M dwarfs with ASAS-SN”, *Astrophysical Journal*
2. **Rodríguez Martínez, R.**, Ballard, S., Mayo, A., Vanderburg, A., Montet, B., Christiansen, J. L., “Characterization of Low Mass K2 Planet Hosts Using Near-Infrared Spectroscopy”, *Astronomical Journal*,
1. **Rodríguez Martínez, R.**, Schmidt, S. J., Jayasinghe, T., Stanek, K. Z., Prieto, J. L., Shappee, B., Kochanek, C.S., Thompson, T. A., Holoien, T. W.-S., Bersier, D., Brimacombe, J., “ASASSN-18di: Discovery of a Powerful Flare on a Mid-M Dwarf”, *Research Notes of the American Astronomical Society*

TALKS PRESENTED

“Finding Flares with ASAS-SN” (invited talk at Cool Stars conference 2020)	Cancelled due to COVID-19
“KELT-25b & KELT-26b: A hot Jupiter and a substellar companion transiting young A-stars observed by TESS” (invited “Astronomy Tea” talk - Carnegie Observatories)	July 2020
“Searching for Hot Planets Around Hot Stars with the KELT Survey”, Harvard-Smithsonian Center for Astrophysics, Stars & Planets seminar (invited talk)	October 2019

AWARDS AND HONORS

8 Hours Observing Time awarded at PEPSI Spectrograph on LBT	August 2020
Beth A. Brown Award for Best Graduate Poster Presentation	November 2018
Ann S. Tuttle Scholarship	September 2017

TEACHING & ADVISING

Mentor for a high school student <i>Ohio State School for the Blind Mentorship Program</i>	September 2020 - December 2020
Mentor for physics & astronomy undergraduate student <i>Polaris Mentorship Program</i>	August 2019 - May 2020
University of Puerto Rico, Río Piedras, Intermediate Lab II, Graduate Teaching Assistant (TA)	January 2016
University of Puerto Rico, Río Piedras, Introduction to Physics Lab I, Graduate Teaching Assistant (TA)	August 2015
Math and Physics Tutor for Middle Schoolers <i>A tiempo</i> tutoring center	August 2011

OUTREACH & SERVICE

Panelist for <i>Women in Space</i> Q&A webinar for elementary school and high school students	September 2020
Panelist for <i>The Martian</i> Monthly Movie Nights - Science Fiction vs Science Fact Q&A webinar, Astronomy Department, OSU	August 2020
Invited speaker for the Planetary Habitability Lab’s “AstroChat” series event University of Puerto Rico Arecibo campus	December 2019
Invited speaker at elementary school Myrna M. Fuentes Caguas, Puerto Rico	December 2019
Creator and co-organizer of symposium: “The Hunt for Alien Habitable Worlds” Speakers: Sarah Ballard, Noemí Pinilla-Alonso, Abel Méndez, University of Puerto Rico, Río Piedras	March, 2017

PRESS COVERAGE

ASAS-SN-18di (Article on this paper were published in phys.org, medium.com, renfrewshireastro.co.uk, and others.)	April 2018
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POSTER PRESENTATIONS

Rodríguez et al., “Finding Flares with ASAS-SN”, National Society of Black Physicists Meeting	November 2018
Rodríguez et al., “Finding Flares with ASAS-SN”, SACNAS - National Diversity in STEM	October 2018
Rodríguez et al., “Characterization of Low-mass K2 planet hosts using Near-Infrared Spectroscopy”, 229th American Astronomical Society Meeting, #240.14	January 2017
Rodríguez et al., “Characterization of Low-mass K2 planet hosts using	

CONFERENCES ATTENDED

233rd American Astronomical Society Meeting, (Seattle, WA)	January 2019
National Society of Black Physicists, (Columbus, OH)	November 2018
SACNAS - National Diversity in STEM Conference, (San Antonio, TX)	October 2018
Planets around Hot Stars Meeting, (Nashville, TN)	June 2018
2nd Earth-Like Worlds Workshop, (Manati, PR)	February 2017
229th American Astronomical Society Meeting (Grapevine, TX)	January 2017
SACNAS - National Diversity in STEM Conference (Long Beach, CA)	October 2016
Astrobiology Science Conference (Chicago, IL)	June 2015