

Ricardo Yarza

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EDUCATION

- PhD, Astronomy and Astrophysics, University of California, Santa Cruz (expected) 2025
Advisor: Professor Enrico Ramirez-Ruiz
- BS, Engineering Physics, Tecnológico de Monterrey 2019
- Study abroad, University of Illinois at Urbana–Champaign Fall 2017–2018
Advisor: Professor Charles Gammie

PUBLICATIONS

Lists: NASA ADS, Google Scholar, ORCID.

8. Ransome, C. L., Villar, V. A., Tartaglia, A., et al., incl. **Yarza, R.** 2024, ApJ, 965, 93
SN 2023ixf in Messier 101: The Twilight Years of the Progenitor as Seen by Pan-STARRS
7. Capistrant, B. K., Soares-Furtado, M., Vanderburg, A., et al., incl. **Yarza, R.** 2024, AJ, 167, 54
TESS Hunt for Young and Maturing Exoplanets (THYME). XI. An Earth-sized Planet Orbiting a Nearby, Solar-like Host in the 400 Myr Ursa Major Moving Group
6. **Yarza, R.**, Razo-López, N. B., Murguía-Berthier, A., Everson, R. W., et al. 2023, ApJ, 954, 176
Hydrodynamics and Survivability during Post-main-sequence Planetary Engulfment
5. Aleo, P. D., Malanchev, K., Sharief, S., et al., incl. **Yarza, R.** 2023, ApJS, 266, 9
The Young Supernova Experiment Data Release 1 (YSE DR1): Light Curves and Photometric Classification of 1975 Supernovae
4. Liu, C., Mockler, B., Ramirez-Ruiz, E., **Yarza, R.**, et al. 2023, ApJ, 944, 184
Tidal Disruption Events from Eccentric Orbits and Lessons Learned from the Noteworthy ASASSN-14ko
3. Wong, G. N., Prather, B. S., Dhruv, V., et al., incl. **Yarza, R.** 2022, ApJS, 259, 64
PATOKA: Simulating Electromagnetic Observables of Black Hole Accretion
2. **Yarza, R.**, Wong, G. N., Ryan, B. R., & Gammie, C. F. 2020, ApJ, 898, 50
Bremsstrahlung in GRMHD Models of Accreting Black Holes
1. Tovmassian, G., Szkody, P., **Yarza, R.**, & Kennedy, M. 2018, ApJ, 863, 47
K2 Study of the Magnetic Precataclysmic Variable V1082 Sagittarius

AWARDS

- Future Investigators in NASA Earth and Space Science and Technology 2022–2025
NASA

Doctoral Fellowship University of California Institute for Mexico and the United States	2020–2025
Raynor L. Duncombe Student Research Prize Division on Dynamical Astronomy, American Astronomical Society	2023
Frontera Computational Science Fellowship Texas Advanced Computing Center, The University of Texas at Austin	2022–2023
Regents Fellowship UC Santa Cruz	2019

TALKS

Meeting of the American Physical Society	April 2024
54th meeting of the AAS Division on Dynamical Astronomy	May 2023
Texas Advanced Computing Center, The University of Texas at Austin	May 2023
Exoplanet Systems and Stellar Life Cycles, Aspen Center of Physics	Mar 2023
Friday Lunch Time Astrophysics Seminar (FLASH), UC Santa Cruz	Dec 2022
Seminar in Geophysical and Astrophysical Fluid Dynamics, UC Santa Cruz	Nov 2022
Exoplanet Summer Program, Other Worlds Laboratory	July 2022
Texas Advanced Computing Center, The University of Texas at Austin	July 2022
240th meeting of the American Astronomical Society	June 2022

SERVICE

Chair for session on neutron stars and stellar objects, meeting of the APS	April 2024
Referee for <i>Astronomy & Astrophysics</i>	
Executive Secretary, NASA Astrophysics Theory Program review panel	Oct 2023
Designed and led workshops: <i>Analyzing volumetric data using the yt package</i> , Lamat program	June 2023
<i>Stellar evolution using Gaia</i> , University of Guadalajara	Mar 2022

MENTORING

Lamat program:

- Brooke Kotten, undergraduate at the University of Wisconsin, Madison 2023
- Richard Truong, undergraduate at San Francisco State University 2023
- Valeriia Rohoza, undergraduate at Northwestern 2022
- Alejandra Meza, high school senior at Pacific Collegiate School 2022
Now physics undergraduate at UC Berkeley
- Alejandra Roselli-Calderon, MS student at Brown University 2021
Now astronomy and astrophysics PhD student at UC Santa Cruz

Society of Physics Students Mentoring Program 2021
Young Scholars Program: Derek Davis, junior at Urbana High School Summer 2018

OUTREACH

Volunteer, *Climate Justice Leaders: Voices from the Pajaro Valley* Oct 2023
Panelist, Society of Physics Students undergrad-grad meet and greet Nov 2021
Volunteer, University of Illinois Astronomical Observatory open house Fall 2017

TEACHING

Teaching assistant, UC Santa Cruz:
Astronomy 118: *Physics of planetary systems* Spring 2022
Taught one lecture; wrote and gave final exam
Astronomy 116: *Physics of stars* Spring 2021
Astronomy 119: *Introduction to scientific computing* Fall 2020
Astronomy 16: *Astrobiology: life in the universe* Spring 2020
Astronomy 6: *The space-age solar system* Winter 2020

PRESS

Discovery Alert: Earth-sized Planet Has a ‘Lava Hemisphere’ Jan 2024
Chelsea Gohd, NASA
The Juicy Secrets of Stars That Eat Their Planets Aug 2022
Becky Ferreira, The New York Times
Astronomers Reveal New Details of How Stars Devour Planets Aug 2022
Nola Taylor Tillman, Scientific American