

# Ricardo Yarza

## Publications

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For the most recent list, see any of the following: [NASA ADS](#), [Google Scholar](#), [ORCID](#). Underline indicates mentored student.

In press or under review:

3. Kotten, B., Soares-Furtado, M., **Yarza, R.**, Nine, A., et al. *Lithium Enrichment in a Subgiant Star with a Brown Dwarf Companion: A Planetary Engulfment Candidate*  
Submitted to AAS journals
2. Lane, K. T., Stephan, A. P., Soares-Furtado, M., Stassun, K. G., & **Yarza, R.** 2026, [arXiv:2601.00949](https://arxiv.org/abs/2601.00949)  
*Observable Metal Pollution in Main-Sequence Stars: Simulations of Rocky Planets En-gulfed by Stars in the 0.5 to 1.4 M<sub>⊙</sub> Range*  
Submitted to AAS journals
1. Soares-Furtado, M., Limbach, M. A., Vanderburg, A., Bally, J., et al. incl. **Yarza, R.** 2024, [arXiv:2406.01492](https://arxiv.org/abs/2406.01492)  
*The TEMPO Survey II: Science Cases Leveraged from a Proposed 30-Day Time Domain Survey of the Orion Nebula with the Nancy Grace Roman Space Telescope*  
Submitted to OJAp

Published:

14. **Yarza, R.**, MacLeod, M., Idini, B., Murray-Clay, R., & Ramirez-Ruiz, E. 2025, [ApJL, 995, L48](#)  
*Evolution of the ZTF SLRN-2020 Star-Planet Merger*
13. Bush, R. C., Wu, S. C., Everson, R. W., **Yarza, R.**, et al. 2025, [ApJL, 990, L7](#)  
*Black Hole Survival Guide: Searching for Stars in the Galactic Center that Endure Partial Tidal Disruption*
12. Liu, C., **Yarza, R.**, & Ramirez-Ruiz, E. 2025, [ApJ, 979, 40](#)  
*Repeating Partial Tidal Encounters of Sun-like Stars Leading to Their Complete Disruption*
11. Hutchinson-Smith, T., Everson, R. W., Twum, A. A., Batta, A., et al. incl. **Yarza, R.** 2024, [ApJ, 977, 196](#)  
*Rethinking Thorne-Żytkow Object Formation: The Fate of X-Ray Binary LMC X-4 and Implications for Ultra-long Gamma-Ray Bursts*
10. Rosselli-Calderon, A., **Yarza, R.**, Murguia-Berthier, A., Rohoza, V., et al. 2024, [ApJ, 977, 16](#)  
*The Evolution of Binaries Embedded Within Common Envelopes*
9. Farias, D., Gall, C., Narayan, G., Rest, S., et al. incl. **Yarza, R.** 2024, [ApJ, 977, 152](#)  
*SN 2021foa: The “Flip-flop” Type IIn/Ibn Supernova*

8. Ransome, C. L., Villar, V. A., Tartaglia, A., Gonzalez, S. J., 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., Jankowski, 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., Murguia-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., Jones, D. O., 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., Ryan, B. R., 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*