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Publication List

First author publications (14 refereed, 2 non-refereed; latter in grey) along with postdoc/student/mentee-led papers (11, in **blue**):

1. Gressier, MacDonald, **Espinoza**, et al.: "*JWST-TST DREAMS: A Supersolar Metallicity in WASP-17 b's Dayside Atmosphere from NIRISS SOSS Eclipse Spectroscopy.*" *Astronomical Journal*, 2025, vol. 169, no. 2, pp. 57
2. Gressier, **Espinoza**, Allen, et al.: "*Hints of a Sulfur-rich Atmosphere around the 1.6 $R_\oplus$ Super-Earth L98-59 d from JWST NIRspec G395H Transmission Spectroscopy.*" *Astrophysical Journal Letters*, 2024, vol. 975, no. 1, pp. L10
3. Allen, Sing, **Espinoza**, et al.: "*HST SHEL: Enabling Comparative Exoplanetology with HST/STIS.*" *Astronomical Journal*, 2024, vol. 168, no. 3, pp. 111
4. Baines, **Espinoza**, Filippazzo, et al.: "*JWST NIRISS/SOSS: advancements in calibration and observational tools for exoplanetary science.*" *Space Telescopes and Instrumentation 2024: Optical, Infrared, and Millimeter Wave*, 2024, vol. 13092, pp. 1309212
5. **Espinoza**, Steinrueck, Kirk, et al.: "*Inhomogeneous terminators on the exoplanet WASP-39 b.*" *Nature*, 2024, vol. 632, no. 8027, pp. 1017-1020
6. Deal *&* **Espinoza**: "*Spelunker: A quick-look Python pipeline for JWST NIRISS FGS Guide Star Data.*" *The Journal of Open Source Software*, 2024, vol. 9, no. 97, pp. 6202
7. Wang *&* **Espinoza**: "*A Blind Search for Transit Depth Variability with TESS.*" *Astronomical Journal*, 2024, vol. 167, no. 1, pp. 1
8. **Espinoza**, Úbeda, Birkmann, et al.: "*Spectroscopic Time-series Performance of JWST/NIRSpec from Commissioning Observations.*" *Publications of the Astronomical Society of the Pacific*, 2023, vol. 135, no. 1043, pp. 018002
9. Allen, **Espinoza**, Jordán, et al.: "*ACCESS: Tentative Detection of H_2O in the Ground-based Optical Transmission Spectrum of the Low-density Hot Saturn HATS-5b.*" *Astronomical Journal*, 2022, vol. 164, no. 4, pp. 153
10. Patel *&* **Espinoza**: "*Empirical Limb-darkening Coefficients and Transit Parameters of Known Exoplanets from TESS.*" *Astronomical Journal*, 2022, vol. 163, no. 5, pp. 228
11. **Espinoza**, Pallé, Kemmer, et al.: "*A Transiting, Temperate Mini-Neptune Orbiting the M Dwarf TOI-1759 Unveiled by TESS.*" *Astronomical Journal*, 2022, vol. 163, no. 3, pp. 133
12. **Espinoza** *&* Jones: "*Constraining Mornings and Evenings on Distant Worlds: A new Semianalytical Approach and Prospects with Transmission Spectroscopy.*" *Astronomical Journal*, 2021, vol. 162, no. 4, pp. 165

13. Jones & **Espinoza**: "*catwoman: A transit modelling Python package for asymmetric light curves.*" *The Journal of Open Source Software*, 2020, vol. 5, no. 55, pp. 2382

14. **Espinoza**, Brahm, Henning, et al.: "*HD 213885b: a transiting 1-d-period super-Earth with an Earth-like composition around a bright (V = 7.9) star unveiled by TESS.*" *Monthly Notices of the Royal Astronomical Society*, 2020, vol. 491, no. 2, pp. 2982-2999

15. **Espinoza**, Kossakowski & Brahm: "*juliet: a versatile modelling tool for transiting and non-transiting exoplanetary systems.*" *Monthly Notices of the Royal Astronomical Society*, 2019, vol. 490, no. 2, pp. 2262-2283

16. Kossakowski, **Espinoza**, Brahm, et al.: "*TOI-150b and TOI-163b: two transiting hot Jupiters, one eccentric and one inflated, revealed by TESS near and at the edge of the JWST CVZ.*" *Monthly Notices of the Royal Astronomical Society*, 2019, vol. 490, no. 1, pp. 1094-1110

17. Sandford, **Espinoza**, Brahm, et al.: "*Estimation of singly transiting K2 planet periods with Gaia parallaxes.*" *Monthly Notices of the Royal Astronomical Society*, 2019, vol. 489, no. 3, pp. 3149-3161

18. **Espinoza**: "*On the Transit Probability of the Habitable-zone Exoplanet GJ 357d.*" *Research Notes of the American Astronomical Society*, 2019, vol. 3, no. 8, pp. 122

19. **Espinoza**, Hartman, Bakos, et al.: "*HATS-54b-HATS-58Ab: Five New Transiting Hot Jupiters Including One with a Possible Temperate Companion.*" *Astronomical Journal*, 2019, vol. 158, no. 2, pp. 63

20. **Espinoza**, Rackham, Jordán, et al.: "*ACCESS: a featureless optical transmission spectrum for WASP-19b from Magellan/IMACS.*" *Monthly Notices of the Royal Astronomical Society*, 2019, vol. 482, no. 2, pp. 2065-2087

21. **Espinoza**: "*Efficient Joint Sampling of Impact Parameters and Transit Depths in Transiting Exoplanet Light Curves.*" *Research Notes of the American Astronomical Society*, 2018, vol. 2, no. 4, pp. 209

22. **Espinoza**, Rabus, Brahm, et al.: "*K2-113: a dense hot-Jupiter transiting a solar analogue.*" *Monthly Notices of the Royal Astronomical Society*, 2017, vol. 471, no. 4, pp. 4374-4380

23. **Espinoza**, Fortney, Miguel, et al.: "*Metal Enrichment Leads to Low Atmospheric C/O Ratios in Transiting Giant Exoplanets.*" *Astrophysical Journal Letters*, 2017, vol. 838, no. 1, pp. L9

24. **Espinoza**, Bayliss, Hartman, et al.: "*HATS-25b through HATS-30b: A Half-dozen New Inflated Transiting Hot Jupiters from the HATSouth Survey.*" *Astronomical Journal*, 2016, vol. 152, no. 4, pp. 108

25. **Espinoza**, Brahm, Jordán, et al.: "*Discovery and Validation of a High-Density sub-Neptune from the K2 Mission.*" *Astrophysical Journal*, 2016, vol. 830, no. 1, pp. 43

26. **Espinoza** & Jordán: "*Limb darkening and exoplanets - II. Choosing the best law for optimal retrieval of transit parameters.*" *Monthly Notices of the Royal Astronomical Society*, 2016, vol. 457, no. 4, pp. 3573-3581

27. **Espinoza** & Jordán: "*Limb darkening and exoplanets: testing stellar model atmospheres and identifying biases in transit parameters.*" *Monthly Notices of the Royal Astronomical Society*, 2015, vol. 450, no. 2, pp. 1879-1899