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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

All co-authored refereed publications (h-index: 48):

28. Lothringer, Joshua D., Bennett, Katherine A., Sing, David K., et al.: "*Refractory and Volatile Species in the UV-to-IR Transmission Spectrum of Ultra-hot Jupiter WASP-178b with HST and JWST.*" *Astronomical Journal*, 2025, in press.
29. Meier Valdés, E. A., Demory, B. -O., Diamond-Lowe, H., et al.: "*Hot Rocks Survey II: The thermal emission of TOI-1468 b reveals a hot bare rock.*" *Astronomy & Astrophysics*, 2025, in press.
30. August, P. C., Buchhave, L. A., Diamond-Lowe, H., et al.: "*Hot Rocks Survey I: A possible shallow eclipse for LHS 1478 b.*" *Astronomy & Astrophysics*, 2025, vol. 695, pp. A171
31. Rodríguez Martínez, Romy, Eastman, Jason D., Collins, Karen A., et al.: "*Discovery and Characterization of an Eccentric, Warm Saturn Transiting the Solar Analog TOI-4994.*" *Astronomical Journal*, 2025, vol. 169, no. 2, pp. 72
32. Louie, Dana R., Mullens, Elijah, Alderson, Lili, et al.: "*JWST-TST DREAMS: A Precise Water Abundance for Hot Jupiter WASP-17b from the NIRISS SOSS Transmission Spectrum.*" *Astronomical Journal*, 2025, vol. 169, no. 2, pp. 86
33. Heidari, N., Hébrard, G., Martioli, E., et al.: "*Characterization of seven transiting systems, including four warm Jupiters from SOPHIE and TESS.*" *Astronomy & Astrophysics*, 2025, vol. 694, pp. A36
34. McCreery, Patrick, Dos Santos, Leonardo A., **Espinoza**, Néstor, et al.: "*Tracing the Winds: A Uniform Interpretation of Helium Escape in Exoplanets from Archival Spectroscopic Observations.*" *Astrophysical Journal*, 2025, vol. 980, no. 1, pp. 125
35. Vítková, Michaela, Brahm, Rafael, Trifonov, Trifon, et al.: "*TOI-4504: Exceptionally Large Transit Timing Variations Induced by Two Resonant Warm Gas Giants in a Three-planet System.*" *Astrophysical Journal Letters*, 2025, vol. 978, no. 2, pp. L22
36. Banerjee, Agnibha, Barstow, Joanna K., Gressier, Amélie, et al.: "*Atmospheric Retrievals Suggest the Presence of a Secondary Atmosphere and Possible Sulfur Species on L98-59 d from JWST Nirspec G395H Transmission Spectroscopy.*" *Astrophysical Journal Letters*, 2024, vol. 975, no. 1, pp. L11
37. Carleo, Ilaria, Barrágan, Oscar, Persson, Carina M., et al.: "*Mass determination of two Jupiter-sized planets orbiting slightly evolved stars: TOI-2420 b and TOI-2485 b.*" *Astronomy & Astrophysics*, 2024, vol. 690, pp. A18
38. Agol, Eric, Allen, Natalie H., Benneke, Björn, et al.: "*Updated Forecast for TRAPPIST-1 Times of Transit for All Seven Exoplanets Incorporating JWST Data.*" *Research Notes of the American Astronomical Society*, 2024, vol. 8, no. 10, pp. 274
39. Moharana, A., Hełminiak, K. G., Marcadon, F., et al.: "*Spectroscopy of eclipsing compact hierarchical triples: I. Low-mass double-lined and triple-lined systems.*" *Astronomy & Astrophysics*, 2024, vol. 690, pp. A153
40. Alam, Munazza K., Kirk, James, Dos Santos, Leonardo A., et al.: "*Nondetections of Helium in the Young Sub-Jovian Planets K2-100b, HD 63433b, and V1298 Tau c.*" *Astronomical Journal*, 2024, vol. 168, no. 3, pp. 102

41. Valentine, Daniel, Wakeford, Hannah R., Challener, Ryan C., et al.: "*JWST-TST DREAMS: Nonuniform Dayside Emission for WASP-17b from MIRI/LRS.*" *Astronomical Journal*, 2024, vol. 168, no. 3, pp. 123

42. Carter, A. L., May, E. M., **Espinoza**, N., et al.: "*A benchmark JWST near-infrared spectrum for the exoplanet WASP-39 b.*" *Nature Astronomy*, 2024, vol. 8, pp. 1008-1019

43. Deming, Drake, Fu, Guangwei, Bouwman, Jeroen, et al.: "*Toward Exoplanet Transit Spectroscopy Using JWST/MIRI's Medium Resolution Spectrometer.*" *Publications of the Astronomical Society of the Pacific*, 2024, vol. 136, no. 8, pp. 084402

44. Quintana, Elisa V., Dotson, Jessie L., Colón, Knicole D., et al.: "*The Pandora SmallSat: multiwavelength characterization of exoplanets and their host stars.*" *Space Telescopes and Instrumentation 2024: Optical, Infrared, and Millimeter Wave*, 2024, vol. 13092, pp. 1309214

45. Ruffio, Jean-Baptiste, Perrin, Marshall D., Hoch, Kielan K. W., et al.: "*JWST-TST High Contrast: Achieving Direct Spectroscopy of Faint Substellar Companions Next to Bright Stars with the NIRSpec Integral Field Unit.*" *Astronomical Journal*, 2024, vol. 168, no. 2, pp. 73

46. Bell, Taylor J., Crouzet, Nicolas, Cubillos, Patricio E., et al.: "*Nightside clouds and disequilibrium chemistry on the hot Jupiter WASP-43b.*" *Nature Astronomy*, 2024, vol. 8, pp. 879-898

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48. Vissapragada, Shreyas, McCreery, Patrick, Dos Santos, Leonardo A., et al.: "*A High-resolution Non-detection of Escaping Helium in the Ultrahot Neptune LTT 9779b: Evidence for Weakened Evaporation.*" *Astrophysical Journal Letters*, 2024, vol. 962, no. 1, pp. L19

49. Eberhardt, Jan, Hobson, Melissa J., Henning, Thomas, et al.: "*Three Warm Jupiters around Solar-analog Stars Detected with TESS.*" *Astronomical Journal*, 2023, vol. 166, no. 6, pp. 271

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51. Mallorquín, M., Goffo, E., Pallé, E., et al.: "*TOI-1801 b: A temperate mini-Neptune around a young Mo.5 dwarf.*" *Astronomy & Astrophysics*, 2023, vol. 680, pp. A76

52. Hobson, Melissa J., Trifonov, Trifon, Henning, Thomas, et al.: "*TOI-199 b: A Well-characterized 100 day Transiting Warm Giant Planet with TTVs Seen from Antarctica.*" *Astronomical Journal*, 2023, vol. 166, no. 5, pp. 201

53. Wilson, Robert F., Barclay, Thomas, Powell, Brian P., et al.: "*Transiting Exoplanet Yields for the Roman Galactic Bulge Time Domain Survey Predicted from Pixel-level Simulations.*" *Astrophysical Journal Supplement Series*, 2023, vol. 269, no. 1, pp. 5

54. Grant, David, Lewis, Nikole K., Wakeford, Hannah R., et al.: "*JWST-TST DREAMS: Quartz Clouds in the Atmosphere of WASP-17b.*" *Astrophysical Journal Letters*, 2023, vol. 956, no. 2, pp. L32

55. Palle, E., Orell-Miquel, J., Brady, M., et al.: "*GJ 806 (TOI-4481): A bright nearby multi-planetary system with a transiting hot low-density super-Earth.*" *Astronomy & Astrophysics*, 2023, vol. 678, pp. A80

56. Maire, Anne-Lise, Delrez, Laetitia, Pozuelos, Francisco J., et al.: "*Workshop Summary: Exoplanet Orbits and Dynamics.*" *Publications of the Astronomical Society of the Pacific*, 2023, vol. 135, no. 1052, pp. 106001

57. Radica, Michael, Welbanks, Luis, **Espinoza**, Néstor, et al.: "*Awesome SOSS: transmission spectroscopy of WASP-96b with NIRISS/SOSS.*" *Monthly Notices of the Royal Astronomical Society*, 2023, vol. 524, no. 1, pp. 835-856

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59. McGruder, Chima D., López-Morales, Mercedes, Kirk, James, et al.: "*ACCESS, LRG-BEASTS, and MOPSS: Featureless Optical Transmission Spectra of WASP-25b and WASP-124b.*" *Astronomical Journal*, 2023, vol. 166, no. 3, pp. 120

60. Lim, Olivia, Benneke, Björn, Doyon, René, et al.: "*Atmospheric Reconnaissance of TRAPPIST-1 b with JWST/NIRISS: Evidence for Strong Stellar Contamination in the Transmission Spectra.*" *Astrophysical Journal Letters*, 2023, vol. 955, no. 1, pp. L22

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62. Coulombe, Louis-Philippe, Benneke, Björn, Challener, Ryan, et al.: "*A broadband thermal emission spectrum of the ultra-hot Jupiter WASP-18b.*" *Nature*, 2023, vol. 620, no. 7973, pp. 292-298

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64. Gardner, Jonathan P., Mather, John C., Abbott, Randy, et al.: "*The James Webb Space Telescope Mission.*" *Publications of the Astronomical Society of the Pacific*, 2023, vol. 135, no. 1048, pp. 068001

65. Brahm, Rafael, Ulmer-Moll, Solène, Hobson, Melissa J., et al.: "*Three Long-period Transiting Giant Planets from TESS.*" *Astronomical Journal*, 2023, vol. 165, no. 6, pp. 227

66. Dos Santos, Leonardo A., Alam, Munazza K., **Espinoza**, Néstor, et al.: "*Observing Atmospheric Escape in Sub-Jovian Worlds with JWST.*" *Astronomical Journal*, 2023, vol. 165, no. 6, pp. 244

67. Peterson, Merrin S., Benneke, Björn, Collins, Karen, et al.: "*A temperate Earth-sized planet with tidal heating transiting an M6 star.*" *Nature*, 2023, vol. 617, no. 7962, pp. 701-705

68. Trifonov, Trifon, Brahm, Rafael, Jordán, Andrés, et al.: "*TOI-2525 b and c: A Pair of Massive Warm Giant Planets with Strong Transit Timing Variations Revealed by TESS.*" *Astronomical Journal*, 2023, vol. 165, no. 4, pp. 179

69. Bozhilov, Vladimir, Antonova, Desislava, Hobson, Melissa J., et al.: "*A 2:1 Mean-motion Resonance Super-Jovian Pair Revealed by TESS, FEROS, and HARPS.*" *Astrophysical Journal Letters*, 2023, vol. 946, no. 2, pp. L36

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73. Feinstein, Adina D., Radica, Michael, Welbanks, Luis, et al.: "*Early Release Science of the exoplanet WASP-39b with JWST NIRISS.*" *Nature*, 2023, vol. 614, no. 7949, pp. 670-675

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81. Fu, Guangwei, **Espinoza**, Néstor, Sing, David K., et al.: "*Water and an Escaping Helium Tail Detected in the Hazy and Methane-depleted Atmosphere of HAT-P-18b from JWST NIRISS/SOSS.*" *Astrophysical Journal Letters*, 2022, vol. 940, no. 2, pp. L35

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