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Publication List

Selected first and second author publications (student/mentee-led marked in **blue**):

1. **Patel & Espinoza**: *Empirical Limb-darkening Coefficients and Transit Parameters of Known Exoplanets from TESS*, The Astronomical Journal (2022), vol. 163, 5.
2. Rackham, **Espinoza**, Berdyugina et al.: *Final Report for SAG 21: The Effect of Stellar Contamination on Space-based Transmission Spectroscopy*, Report Submitted to NASA on January 2022; arXiv:2201.09905.
3. **Espinoza**, Pallé, Kemmer et al.: *A transiting, temperate mini-Neptune orbiting the M dwarf TOI-1759 unveiled by TESS*, The Astronomical Journal (2022), vol. 163, 3.
4. **Espinoza & Jones**: *Constraining Mornings and Evenings on Distant Worlds: A new Semianalytical Approach and Prospects with Transmission Spectroscopy*, The Astronomical Journal (2021), vol. 162, 4.
5. **Jones & Espinoza**: *catwoman: A transit modelling Python package for asymmetric light curves*, Journal of Open Source Software (2020), 5, 2382.
6. Yan, **Espinoza**, Molaverdikhani, et al.: *LBT transmission spectroscopy of HAT-P-12b. Confirmation of a cloudy atmosphere with no significant alkali features*, Astronomy & Astrophysics (2020), 642, 98.
7. **Espinoza**, Brahm, Henning, et al.: *HD 213885b: A transiting 1-day-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), 491, 2, 2982.
8. **Espinoza**: *On the Transit Probability of the Habitable-zone Exoplanet GJ 357d*, Research Notes of the American Astronomical Society (2019), vol. 3, 8.
9. **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, 2262.
10. **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, 3149.
11. **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, 1094.
12. **Espinoza**, Hartman, Bakos, et al.: *HATS-54b-HATS-58Ab: five new transiting hot Jupiters including one with a possible temperate companion*, The Astronomical Journal (2019), vol. 158, 2, 63.

13. **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, 2.
14. **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, 4, 209.
15. Jordán & **Espinoza**: *An Alternative Derivation of the Analytic Expression of Transmission Spectra*, Research Notes of the American Astronomical Society (2018), vol. 2, 149.
16. **Espinoza**, Fortney, Miguel, et al.: *Metal enrichment leads to low atmospheric C/O ratios in transiting giant exoplanets*, Astrophysical Journal Letters (2017), vol. 838, L9.
17. Rackham, **Espinoza**, Apai, et al.: *ACCESS I: An Optical Transmission Spectrum of GJ 1214b Reveals a Heterogeneous Stellar Photosphere*, The Astrophysical Journal (2017), vol. 834, 151.
18. **Espinoza**, Rabus, Brahm, et al.: *EPIC 220504338b: A dense hot-Jupiter transiting a solar analogue*, Monthly Notices of the Royal Astronomical Society (2017), vol. 471, 4374.
19. **Espinoza**, Brahm, Jordán et al.: *Discovery and Validation of a High-Density sub-Neptune from the K2 Mission*, The Astrophysical Journal (2016), vol. 830, 43.
20. **Espinoza**, Bayliss, Hartman et al.: *HATS-25b through HATS-30b: A Half-dozen New Inflated Transiting Hot Jupiters from the HATSouth Survey*, The Astronomical Journal (2016), vol. 152, 108.
21. **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, 3573.
22. **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, 1879.
23. Jordán, **Espinoza**, Rabus et al.: *A Ground-based Optical Transmission Spectrum of WASP-6b*, The Astrophysical Journal (2013), vol. 778, 184.

Selected co-authored publications (full list of 100+ papers in [ADS](#); h-index: 30):

- Trifonov, Caballero, Morales et al. (including **Espinoza**): *A nearby transiting rocky exoplanet that is suitable for atmospheric investigation*, Science (2021), 371, 6533.
- McGruder, Lopez-Morales, **Espinoza**, et al.: *ACCESS: Confirmation of No Potassium in the Atmosphere of WASP-31b*, The Astronomical Journal (2020), 160, 235.
- Jenkins, Díaz, Kurtovic et al. (including **Espinoza**): *An ultrahot Neptune in the Neptune desert*, Nature Astronomy (2020), 4, 1148.
- Weaver, Lopez-Morales, **Espinoza**, et al.: *ACCESS: A Visual to Near-infrared Spectrum of the Hot Jupiter WASP-43b with Evidence of H₂O, but no evidence of Na or K*, The Astronomical Journal (2020), 159, 13.
- Brahm, Jordán & **Espinoza**: *CERES: A Set of Automated Routines for Echelle Spectra*, Publications of the Astronomical Society of Pacific (2017), vol. 129, 973.