## rodrigo luger

## stats publications

Total Pubs	49
Refereed	41
First Author	15
Citations	2164
h-index	24

- Lustig-Yaeger, J., Sotzen, K., Stevenson, K., Luger, R., et al., 2022, Hierarchical Bayesian Atmospheric Retrieval Modeling for Population Studies of Exoplanet Atmospheres: A Case Study on the Habitable Zone, AJ, 163, 140
- 9 Zinn, J., Stello, D., Elsworth, Y., García, R., et al. (including Luger, R.), 2022, The K2 Galactic Archaeology Program Data Release 3: Age-Abundance Patterns in C1-C8 and C10-C18, ApJ, 926, 191

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- 1 Dholakia, S., **Luger, R.**, & Dholakia, S., 2022, Efficient and Precise Transit Light Curves for Rapidly Rotating, Oblate Stars, ApJ, **925**, 185
- **7** Feinstein, A., Montet, B., Johnson, M., Bean, J., et al. (including **Luger, R.**), 2021, H-Alpha and Ca II Infrared Triplet Variations During a Transit of the 23 Myr Planet V1298 Tau C, AJ, **162**, 213
- 3 Johnson, M., David, T., Petigura, E., Isaacson, H., et al. (including **Luger, R.**), 2021, An Aligned Orbit for the Young Planet V1298 Tau B, arXiv:2110.10707
- 2 **Luger, R.**, Bedell, M., Foreman-Mackey, D., Crossfield, I., et al., 2021, Mapping Stellar Surfaces III: An Efficient, Scalable, and Open-Source Doppler Imaging Model, arXiv:2110.06271
- **14 Luger, R.**, Foreman-Mackey, D., Hedges, C., & Hogg, D., 2021, Mapping Stellar Surfaces. I. Degeneracies in the Rotational Light-Curve Problem, AJ, **162**, 123
- **10 Luger, R.**, Foreman-Mackey, D., & Hedges, C., 2021, Mapping Stellar Surfaces. II. An Interpretable Gaussian Process Model for Light Curves, AJ, **162**, 124
- 2 Hedges, C., **Luger, R.**, Martinez-Palomera, J., Dotson, J., & Barentsen, G., 2021, Linearized Field Deblending: Point-Spread Function Photometry for Impatient Astronomers, AJ, **162**, 107
- **2 Luger, R.**, Foreman-Mackey, D., & Hedges, C., 2021, starry\_process: Interpretable Gaussian Processes for Stellar Light Curves, The Journal of Open Source Software, **6**, 3071
- 82 Foreman-Mackey, D., Luger, R., Agol, E., Barclay, T., et al., 2021, Exoplanet: Gradient-Based Probabilistic Inference for Exoplanet Data & Data &
- 3 Luger, R., Agol, E., Bartolić, F., & Foreman-Mackey, D., 2021, Analytic Light Curves in Reflected Light: Phase Curves, Occultations, and Non-Lambertian Scattering for Spherical Planets and Moons, arXiv:2103.06275, AJ accepted
- 3 Bartolić, F., **Luger, R.**, Foreman-Mackey, D., Howell, R., & Rathbun, J., 2021, Occultation Mapping of lo's Surface in the Near-Infrared I: Inferring Static Maps, arXiv:2103.03758, **AJ accepted**
- 64 Agol, E., Dorn, C., Grimm, S., Turbet, M., et al. (including **Luger, R.**), 2021, Refining the Transit-Timing and Photometric Analysis of TRAPPIST-1: Masses, Radii, Densities, Dynamics, and Ephemerides, The Planetary Science Journal, **2**, 1
- 3 Hedges, C., **Luger, R.**, Dotson, J., Foreman-Mackey, D., & Barentsen, G., 2021, Multiwavelength Photometry Derived From Monochromatic Kepler Data, AJ, **161**, 95
- 15 Zinn, J., Stello, D., Elsworth, Y., García, R., et al. (including **Luger, R.**), 2020, The K2 Galactic Archaeology Program Data Release 2: Asteroseismic Results From Campaigns 4, 6, and 7, The Astrophysical Journal Supplement Series, **251**, 23
- 19 Cunningham, E., Garavito-Camargo, N., Deason, A., Johnston, K., et al. (including **Luger, R.**), 2020, Quantifying the Stellar Halo's Response to the LMC's Infall With Spherical Harmonics, ApJ,

- 55 Agol, E., **Luger, R.**, & Foreman-Mackey, D., 2020, Analytic Planetary Transit Light Curves and Derivatives for Stars With Polynomial Limb Darkening, AJ, **159**, 123
- 17 Montet, B., Feinstein, A., Luger, R., Bedell, M., et al., 2020, The Young Planet DS Tuc Ab Has a Low Obliquity, AJ, 159, 112
- 13 Fleming, D., Barnes, R., Luger, R., & VanderPlas, J., 2020, On the XUV Luminosity Evolution of TRAPPIST-1, ApJ, 891, 155
- 21 Barnes, R., Luger, R., Deitrick, R., Driscoll, P., et al., 2020, VPLanet: The Virtual Planet Simulator, PASP, 132, 24502
- 53 David, T., Petigura, E., Luger, R., Foreman-Mackey, D., et al., 2019, Four Newborn Planets Transiting the Young Solar Analog V1298 Tau, ApJ, 885
- 23 Bedell, M., Hogg, D., Foreman-Mackey, D., Montet, B., & Luger, R., 2019, WOBBLE: A Data-Driven Analysis Technique for Time-Series Stellar Spectra, AJ, 158, 164
- 100 Feinstein, A., Montet, B., Foreman-Mackey, D., Bedell, M., et al. (including Luger, R.), 2019, Eleanor: An Open-Source Tool for Extracting Light Curves From the TESS Full-Frame Images, PASP, 131, 94502
- 34 Kruse, E., Agol, E., **Luger, R.**, & Foreman-Mackey, D., 2019, Detection of Hundreds of New Planet Candidates and Eclipsing Binaries in K2 Campaigns 0-8, The Astrophysical Journal Supplement Series, **244**, 11
- 24 Fleming, D., Barnes, R., Davenport, J., & Luger, R., 2019, Rotation Period Evolution in Low-Mass Binary Stars: The Impact of Tidal Torques and Magnetic Braking, ApJ, 881, 88
- 111 Eastman, J., Rodriguez, J., Agol, E., Stassun, K., et al. (including **Luger, R.**), 2019, EXOFASTv2: A Public, Generalized, Publication-Quality Exoplanet Modeling Code, arXiv:1907.09480
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- 32 Kreidberg, L., Luger, R., & Bedell, M., 2019, No Evidence for Lunar Transit in New Analysis of Hubble Space Telescope Observations of the Kepler-1625 System, ApJ, 877
- 1 Saunders, N., Luger, R., & Barnes, R., 2019, The Pointing Limits of Transiting Exoplanet Light Curve Characterization With Pixel Level Decorrelation, AJ, 157, 197
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- **109 Luger, R.**, Agol, E., Foreman-Mackey, D., Fleming, D., et al., 2019, Starry: Analytic Occultation Light Curves, AJ, **157**, 64
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- 28 Lustig-Yaeger, J., Meadows, V., Tovar Mendoza, G., Schwieterman, E., et al. (including **Luger, R.**), 2018, Detecting Ocean Glint on Exoplanets Using Multiphase Mapping, AJ, **156**, 301
- 76 Lincowski, A., Meadows, V., Crisp, D., Robinson, T., et al. (including **Luger, R.**), 2018, Evolved Climates and Observational Discriminants for the TRAPPIST-1 Planetary System, ApJ, **867**, 76
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- **24** Fleming, D., Barnes, R., Graham, D., **Luger, R.**, & Quinn, T., 2018, On the Lack of Circumbinary Planets Orbiting Isolated Binary Stars, ApJ, **858**, 86
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- **13 Luger, R.**, Foreman-Mackey, D., & Hogg, D., 2017, Linear Models for Systematics and Nuisances, Research Notes of the American Astronomical Society, **1**, 7
- **209 Luger, R.**, Sestovic, M., Kruse, E., Grimm, S., et al., 2017, A Seven-Planet Resonant Chain in TRAP-PIST-1, Nature Astronomy, **1**, 129
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- 68 Schwieterman, E., Meadows, V., Domagal-Goldman, S., Deming, D., et al. (including **Luger, R.**), 2016, Identifying Planetary Biosignature Impostors: Spectral Features of CO and  $O_4$  Resulting From Abiotic  $O_2/O_3$  Production, ApJ, **819**
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- **83 Luger, R.**, Barnes, R., Lopez, E., Fortney, J., et al., 2015, Habitable Evaporated Cores: Transforming Mini-Neptunes Into Super-Earths in the Habitable Zones of M Dwarfs, Astrobiology, **15**, 57
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