Nicholas Saunders

saunders.nk@gmail.com

NSF Graduate Research Fellow

github.com/nksaunders

• nksaunders.space

University of Hawai'i at Mānoa PhD Astronomy—advisors: Daniel Huber, Jennifer van Saders MSc Astronomy Astronomy BS Physics & Astronomy (with Honors)—advisors: Rodrigo Luger, Rory Barnes BA Comparative Literature (emphasis: Ginema Studies) APPOINTMENTS Visiting Scientist Department of Astrophysics, American Museum of Natural History, New York, NY NSF Graduate Research Fellow Institute for Astronomy, University of Hawai'i at Mānoa, Honolulu, HI Undergraduate Research Assistant University of Washington, Scattle, WA Planetary Science Intern The Bear Fight Institute, Winthrop, WA RELEVANT EMPLOYMENT Kepler & K2 Training Materials Developer NumFocus, STScl., The Astropy Project, Remote from Honolulu, HI Research Support Scientist, Kepler/K2 Guest Observer Office NASA Ames Research Center, Mountain View, CA Data Visualization Analyst, UW Mobile Planetarium University of Washington, Scattle, WA GRANTS, AWARDS, & TELESCOPE TIME "The Fate of Planets Transiting Evolved Stars," Keck/HPRES (UH) "The Fate of Planets Transiting Evolved Stars," Keck/HPRES (UH) "The Fate of Planets Transiting Evolved Stars," Keck/HPRES (UH) "The Fate of Planets Transiting Evolved Stars," Keck/HIRES (UH) "The Fate of Planets Transiting Evolved Stars," Keck/HIRES (UH) "The Fate of Planets Transiting Evolved Stars," Keck/HIRES (UH) "The Fate of Planets Transiting Evolved Stars," Keck/HIRES (UH) "The Fate of Planets Transiting Evolved Stars," Keck/HIRES (UH) "The Fate of Planets Transiting Evolved Stars," Keck/HIRES (UH) "The Fate of Planets Transiting Evolved Stars," Keck/HIRES (UH) "The Fate of Planets Transiting Evolved Stars," Keck/HIRES (UH) "The Fate of Planets Transiting Evolved Stars," Keck/HIRES (UH) "The Fate of Planets Transiting Evolved Stars," Keck/HIRES (UH) "The Fate of Planets Transiting Evolved Stars," Keck/HIRES (UH) "The Fate of Planets Transiting Evolved Stars," Keck/HIRES (UH) "The Fate of Planets Transiting Evolved Stars," Keck/HIRES (UH) "The Fate of Planets Transiting Evolved Stars," Keck/HIRES (UH) "The Fate of	EDUCATION		
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Visiting Scientist Department of Astrophysics, American Museum of Natural History, New York, NY NSF Graduate Research Fellow Institute for Astronomy, University of Hawaifi at Mānoa, Honolulu, HI Undergraduate Research Assistant University of Washington, Seattle, WA Planetary Science Intern The Bear Fight Institute, Winthrop, WA RELEVANT EMPLOYMENT Kepler & K2 Training Materials Developer NumFocus, STScl, The Astropy Project, Remote from Honolulu, HI Research Support Scientist, Kepler/K2 Guest Observer Office NASA Ames Research Center, Mountain View, CA Data Visualization Analyst, UW Mobile Planetarium University of Washington, Seattle, WA GRANTS, AWARDS, & TELESCOPE TIME "The Fate of Planets Transiting Evolved Stars," Keck/KPF (UH) Pl. 3n Planetary Archaeology" Keck/HIRES (NASA) Co-1, 5n, \$55,662 "Planetary Archaeology" TESS Space Telescope (TESS GI) Travel Award, Aspen Center for Physics Winter Workshop Travel Award,	BS Physics & Astronomy (with Honors) — advisors: Rodrigo Luger, Rory Barnes		•
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PUBLICATIONS	"The Fate of Planets Transiting Evolved Stars," Keck/HIRES (UH) "Planetary Archaeology" Keck/HIRES (NASA) Travel Award, Aspen Center for Physics Winter Workshop "Planetary Archaeology" TESS Space Telescope (TESS GI) National Science Foundation Graduate Research Fellowship Honorable Mention, National Science Foundation Graduate Research Departmental Honors in Astronomy, University of Washington 1st Place: Best Online Photo Essay, Washington Newspaper Publishers Washington NASA Space Grant, University of Washington	PI, 9n Co-I, 5n, \$55,662 \$1,903.30 Co-I, \$70,000 Fellowship	2022 – present 2021 – present 2023 2021 2021 2019 2018 2016 2013
	PUBLICATIONS		

First Author

3. **Saunders, N.**, van Saders, J., Lyttle, A. et al. (2023, submitted) <u>Stellar Cruise Control: Weakened Magnetic Braking Leads to Sustained Rapid Rotation of Old Stars</u>. arXiv:2309.05666

NASA ADS | 21 total publications (3 first author, 7 second author) | 1,600+ total citations | h-index = 10

2. **Saunders, N.**, Grunblatt, S., Huber, D., et al. (2022) <u>TESS Giants Transiting Giants I. A Non-inflated Hot Jupiter Orbiting a Massive Subgiant.</u> AJ, 163, 2

1. Saunders, N., Luger, R., Barnes, R. (2019) The Pointing Limits of Transiting Exoplanet Light Curve Characterization with Pixel Level De-correlation. AJ, 157, 197

Co-author

- 18. Hey, D., Huber, D., Shappee, J. et al. including Saunders, N. (2023, submitted) The Far Side of the Galactic Bar/Bulge Revealed Through Semi-Regular Variables. aXiv:2305.19319
- 17. Grunblatt, S., Saunders, N., Huber D. et al. (2023, submitted) An Unlikely Survivor: A Low-density Hot Neptune Orbiting a Red Giant Star. arXiv:2303.06728
- 16. Grunblatt, S., Saunders, N., Chontos, A. et al. (2023) TESS Giants Transiting Giants III. An Eccentric Warm Jupiter Supports a Period-Eccentricity Relation for Giant Planets Transiting Evolved Stars. AJ, 165, 2
- 15. Vissapragada, S., Chontos, A., Greklek-McKeon, M. et al. including Saunders, N. (2022) The Possible Tidal Demise of Kepler's First Planetary System. ApJL, 941, 2
- 14. The Astropy Collaboration, Price-Whelan, A. M., Lian Lim, P. et al. including Saunders, N. (2022) The Astropy Project: Sustaining and Growing a Community-oriented Open-source Project and the Latest Major Release (v5.0) of the Core Package. ApJ, 935, 2
- 13. Grunblatt, S., Saunders, N., Sun, M. et al. (2022) TESS Giants Transiting Giants II. The Hottest Jupiters Orbiting Evolved Stars. AJ, 163, 3
- 12. Stello, D., Saunders, N., Grunblatt, S., et al. (2022) TESS asteroseismology of the Kepler red giants. MNRAAS, 512, 2
- 11. Hedges, C., Saunders, N., Martínez-Palomera, J. (2021) Contaminante: A Tool for Automatically Finding a Closeto-optimal Aperture for Transiting Signals in Kepler, K2, and TESS Data, RNAAS, 5, 260
- 10. Grunblatt, S., Zinn, J., Price-Whelan, A., Angus, R., Saunders, N. et al. (2021) Age-Dating Red Giant Stars Associated with Galactic Disk and Halo Substructures. ApJ, 916, 88
- 9. Hedges, C., Angus, R., Barentsen, G., Saunders, N., Montet, B.T., Gully-Santiago, M. (2020) Systematicsinsensitive Periodogram for Finding Periods in TESS Observations of Long-period Rotators. RNAAS, 4, 220
- 8. Hedges, C., Saunders, N., Barentsen, G., Coughlin, J., Vinícius de Miranda Cardoso, J., Kostov, V., Dotson, J., Cody, A.M. (2019) Four Small Planets Buried in K2 Systems: What Can We Learn for TESS? ApJL, 880, 1
- 7. Feinstein, A.D., Montet, B.T., Bean, J.L. et al. including Saunders, N. (2019) eleanor: A tool for extracting light curves from the TESS Full-Frame Images. PASP, 131, 1003
- 6. David, T., Cody, A.M., Hedges C. et al. including Saunders, N. (2019) A warm Jupiter-sized planet transiting the pre-main sequence star V1298 Tau. AJ, 158, 2
- 5. Mahabal, A., Rebbapragada, U., Walters, R. et al. including Saunders, N. (2019) Machine Learning for the Zwicky Transient Facility. PASP, 131, 997
- 4. Hedges, C., Saunders, N., Barensen, G. et al. (2019) A Hot Jupiter Exoplanet Candidate towards the Galactic Center Identified in Kepler/K2 Campaign 9 Microlensing Survey. RNAAS, 3, 1
- 3. Barentsen, G., Hedges, C., Saunders, N. et al. (2018) Kepler's Discoveries Will Continue: 21 Important Scientific Opportunities with Kepler & K2 Archive Data. arXiv:1810.12554
- 2. Cody, A.M., Barentsen, G., Hedges, G., Gully-Santiago, M., Dotson, J., Barclay, T., Bryson, S., Saunders, N. (2018) A catalog of 29 open clusters and associations observed by the Kepler and K2 Missions, RNAAS, 2, 4
- 1. Luger, R., Kruse, E., Foreman-Mackey, D., Agol, E., Saunders, N. (2018) An Update to the EVEREST K2 Pipeline: Short Cadence, Saturated Stars, and Kepler-like Photometry down to Kp = 15. AJ, 156, 99

ADVISING

<u>Undergraduate</u>

Advisor, Alicia Chun, Research Experience for Undergraduates, University of Chicago May 2023 - July 2023 Co-advisor, Erica Sawczynec, Undergraduate Honors Thesis, UH Mānoa

June 2019 - June 2021

High School Students & Teachers

Advisor, Anica Ancheta, Dominic Rice, Holden Suzuki, HI STAR Research, HI High Schools May 2023 – June 2023 Co-advisor, Alison English, Research Experience for Teachers, Honoka'a High School June 2022 Advisor, Wilson Chau, Pono Fortune, Gabe Mckillip, HI STAR Research, HI High Schools July 2020

TEACHING & OUTREACH

TEACHING & OUTREACH	
"Dying stars swallowing nearby planets," Interview, Hawai'i Public Radio Science Pen Pal, Letters to a Pre-Scientist Graduate Teaching Assistant, University of Hawai'i Planetarium Organizer, University of Washington Teaching Assistant, University of Washington Astrobiology Mobile Planetarium Presenter, University of Washington Volunteer, NASA Total Solar Eclipse Outreach Event Planetarium Presenter, University of Washington OPEN-SOURCE SOFTWARE	Jan 2022 Sept 2020 – June 2021 Aug 2019 – Jan 2020 Jan 2018 – Aug 2018 Jan 2017 – June 2018 Mar 2018 Aug 2017 Nov 2015 – Aug 2018
Lead developer → Gore developer → Core developer → Core developer → Contributor → Contributor → Contributor → Core developer → Contributor →	
SERVICE	
LOC Member, TESS/Kepler Asteroseismic Science Consortium Graduate Student Representative, University of Hawai'i at Mānoa Graduate Outreach Representative, University of Hawai'i at Mānoa Undergraduate Liaison, University of Washington Astronomy Department Faculty Board TALKS	2023 Aug 2022 – Aug 2023 Aug 2022 – Aug 2023 Sept 2017 – Aug 2018
Invited Talks "Orbital Evolution of Giant Planets" ESPF Seminar, STScI, Johns Hopkins University, Balt "A Catalog of Uniform Exoplanet Parameters," CIPS Seminar, University of California, Berkel "Sputtering Effects on K2" Kepler/K2 Guest Observer Office, NASA Ames, Moffett Field. Contributed Talks "Evidence for Efficient Tidal Realignment of Hot Jupiters" TASC7 / KASC14, Honolulu H "Orbital Evolution of Giant Planets After the Main Sequence," AAS 241, Seattle, WA "TESS Giants Transiting Giants IV: The Hottest Evolved Neptune," AAS 241, Seattle, WA "Tracing Hot Jupiter Evolution," Dissertation Proposal, University of Hawai'i "Refining Weakened Magnetic Braking with Hierarchical Modeling," University of Hawai'i "TOI-2184b: A Non-inflated Hot Jupiter" TESS Science Team Meeting #25, Virtual "Revealing the Mysteries of Exoplanets Around Evolved Stars with TESS," University of Hawai'i "Revealing the Mysteries of Exoplanets Around Evolved Stars with TESS," AAS 235, Honolul "Analysis of Simulated Kepler/K2 Exoplanet Transit Parameters" AAS 233, Seattle, WA "Simulated CCD Photometry," Kepler/K2 Science Office, NASA Ames, Moffett Field, CA "Searching for Exoplanets" UW Undergraduate Research Symposium, Seattle, WA "De-trending K2 Exoplanet Targets for High Spacecraft Motion," AAS 231, Washington DC "K2 Pixel Sensitivity Variations," UW Undergraduate Research Symposium, Seattle, WA	ley, CA Apr 2019 , CA Oct 2017 II July 2023 Jan 2023 Jan 2023 Dec 2021 June 2021 Mar 2021 rai'i Sept 2020
K2 Pixel Sensitivity Variations, UW Undergraduate Research Symposium, Seattle, WA	May 2017
Outreach Talks "Exploring Strange New Worlds," HI STAR, UH Maui College, Kahului, HI "Putting the Science in Science Fiction," Astronomy on Tap, San Jose, CA "Putting the Science in Science Fiction," Astronomy on Tap, Seattle, WA "The Search for Habitable Worlds," Astrobiology Mini Talks, Museum of Flight, Seattle, WA	June 2023 May 2019 Apr 2018 Apr 2018
POSTERS	
"Stellar Cruise Control: Weakened Magnetic Braking" TASC7 / KASC14, Honolulu, HI "Spin-Orbit (Re?) Alignment of Giant Planets," Late-Stage and Post-MS Systems Workshop, A "Giants Transiting Giants," Late-Stage and Post-MS Systems Workshop, Aspen, CO "Evidence for Weakened Magnetic Braking in Old Stars," TASC6 / KASC13, Leuven, Belgium "Evidence for Weakened Magnetic Braking in Old Stars," Cool Stars 21, Toulouse, France	Mar 2023

"No Planet Left Behind" Exoplanets IV, Las Vegas, NV	May 2022
"Quantifying Biases with Simulated Kepler/K2 Light Curves," Kepler SciCon V, Glendale, CA	Mar 2019
"Exoplanet Science with the Lightkurve Python Package," AAS 233, Seattle, WA	