Nicholas Saunders

NSF Graduate Research Fellow

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• nksaunders.space

saunders.nk@gmail.com

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, Seattle, WA RELEVANT EMPLOYMENT Kepler & K2 Training Materials Developer NumFocus, STScI, 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 "Testing Spin-Orbit Realignment" Keck/KPF (UH) "The Fate of Planets Transiting Evolved Stars," Keck/HIRES (UH) "The Fate of Planets Transiting Evolved Stars," Keck/HIRES (UH) PI, 9n 2023 – 2024 "The Fate of Planets Transiting Evolved Stars," Keck/HIRES (UH) PI, 9n 2022 – 2024 "Planetary Archaeology" Keck/HIRES (NASA) Achievement Rewards for College Scientists (ARCS) ARCS Scholar of the Year Achievement Rewards for College Scientists (ARCS) Splanetary Archaeology" TESS Space Telescope (TESS GI) Planetary Archaeology" Tess Space Telescope (TESS GI) Pl	EDUCATION		
BS Physics & Astronomy (with Honors) — advisors: Rodrigo Luger, Rory Barnes BA Comparative Literature (emphasis: Cinema 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, Seattle, 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 "Testing Spin-Orbit Realignment" Keck/KPF (UH) "The Fate of Planets Transiting Evolved Stars," Keck/HIRES (UH) "Pl, 1n 2024 "The Fate of Planets Transiting Evolved Stars," Keck/HIRES (UH) "Pl, pn 2022 – 2024 "The Fate of Planets Transiting Evolved Stars," Keck/HIRES (UH) "Pl, pn 2022 – 2024 ARCS Scholar of the Year Achievement Rewards for College Scientists (ARCS) ACO-1, 5n, \$55,662 2021 – present Achievement Rewards for College Scientists (ARCS) 4, 1000 May 2024 ARCS Scholar of the Year Archaeology" TESS Space Telescope (TESS GI) Co-1, 570,000 May 2024 Travel Award, Aspen Center for Physics Winter Workshop Sl, 903.30 2023 "Planetary Archaeology" TESS Space Telescope (TESS GI) Co-1, 870,000 May 2024 Honorable Mention, National Science Foundation Graduate Research Fellowship Departmental Honors in Astronomy, University of Washington 1018 1020 1021 1021 1031 1041 1051 1051 1051 1051 1061 1071 1071 1072 1073 1074 1075	PhD Astronomy — advisors: Daniel Huber, Jennifer van Saders		=
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, Seattle, WA RELEVANT EMPLOYMENT Kepler & K2 Training Materials Developer NumFocus, STScI, 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 "Testing Spin-Orbit Realignment" Keck/KPF (UH) "The Fate of Planets Transiting Evolved Stars," Keck/HIRES (UH) "The Fate of Planets Transiting Evolved Stars," Keck/HIRES (UH) PI, 9n 2023 – 2024 "The Fate of Planets Transiting Evolved Stars," Keck/HIRES (UH) PI, 9n 2022 – 2024 "Planetary Archaeology" Keck/HIRES (NASA) Achievement Rewards for College Scientists (ARCS) ARCS Scholar of the Year Achievement Rewards for College Scientists (ARCS) Splanetary Archaeology" TESS Space Telescope (TESS GI) Planetary Archaeology" Tess Space Telescope (TESS GI) Pl	BS Physics & Astronomy (with Honors) — advisors: Rodrigo Luger, Rory Barnes		· ·
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PUBLICATIONS	"Hot Jupiter Companions in Evolved Systems," Keck/HIRES (UH) "The Fate of Planets Transiting Evolved Stars," Keck/KPF (UH) "The Fate of Planets Transiting Evolved Stars," Keck/HIRES (UH) "Planetary Archaeology" Keck/HIRES (NASA) Achievement Rewards for College Scientists (ARCS) ARCS Scholar of the Year 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 Publisher Washington NASA Space Grant, University of Washington	PI, 1n PI, 3n PI, 9n Co-I, 5n, \$55,662 \$6,000 \$1,000 \$1,903.30 Co-I, \$70,000 a Fellowship as Association	2024 2023 – 2024 2022 – 2024 2021 – present May 2024 May 2024 2023 2021 2021 2019 2018 2016 2013
	PUBLICATIONS		

NASA ADS | 27 total publications (4 first author, 7 second author) | 2,700+ total citations | h-index = 13

First Author

4. **Saunders, N.**, Grunblatt, S., Chontos, A. et al. (2024) <u>TESS Giants Transiting Giants. VI. Newly Discovered Hot Jupiters Provide Evidence for Efficient Obliquity Damping After the Main Sequence. AJ, 168, 81</u>

- 3. **Saunders, N.**, van Saders, J., Lyttle, A. et al. (2024) <u>Stellar Cruise Control: Weakened Magnetic Braking Leads to Sustained Rapid Rotation of Old Stars</u>. ApJ, 962, 2
- 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) <u>The Pointing Limits of Transiting Exoplanet Light Curve Characterization with Pixel Level De-correlation.</u> AJ, 157, 197

Co-author

- 23. Yee, S., Petigura, E., Isaacson, H. et al. including **Saunders, N.** (2024) <u>Additional Doppler Monitoring</u> Corroborates HAT-P-11 c as a Planet. arXiv:2407.11109
- 22. Isaacson, H., Howard, A., Fulton, B. et al. including **Saunders, N.** (2024, submitted) <u>The California Legacy Survey V. Chromospheric Activity Cycles in Main Sequence Stars.</u> arXiv:2406.17332
- 21. Grunblatt, S., **Saunders, N.**, Huber D. et al. (2024) <u>An Unlikely Survivor: A Low-density Hot Neptune Orbiting a Red Giant Star.</u> AJ, 168, 1
- 20. Eisner, N., Grunblatt, S., Barragán, O. et al. including **Saunders, N.** (2024) <u>Planet Hunters TESS V: A Planetary System Around a Binary Star, Including a Mini-Neptune in the Habitable Zone.</u> AJ, 167, 5
- 19. Chontos, A., Huber, D., Grunblatt, S., **Saunders, N.** et al (2024, submitted) <u>The TESS-Keck Survey XXI: 13 New Planets and Homogeneous Properties for 21 Subgiant Systems.</u> arXiv:2402.07893
- 18. Pereira, F., Grunblatt, S., Psaridi, A. et al. including **Saunders, N.** (2024) <u>TESS Giants Transiting Giants V. Two hot Jupiters orbiting red-giant hosts.</u> MNRAS, 527, 3
- 17. Hey, D., Huber, D., Shappee, J. et al. including **Saunders, N.** (2023) <u>The Far Side of the Galactic Bar/Bulge Revealed Through Semi-Regular Variables</u>. AJ, 166, 6
- 16. Grunblatt, S., **Saunders, N.**, Chontos, A. et al. (2023) <u>TESS Giants Transiting Giants III. An Eccentric Warm Jupiter Supports a Period-Eccentricity Relation for Giant Planets Transiting Evolved Stars.</u> AJ, 165, 2
- 15. Vissapragada, S., Chontos, A., Greklek-McKeon, M. et al. including **Saunders, N.** (2022) <u>The Possible Tidal Demise of Kepler's First Planetary System.</u> ApJL, 941, 2
- 14. The Astropy Collaboration, Price-Whelan, A. M., Lian Lim, P. et al. including **Saunders, N.** (2022) <u>The Astropy Project: Sustaining and Growing a Community-oriented Open-source Project and the Latest Major Release (v5.0) of the Core Package.</u> ApJ, 935, 2
- 13. Grunblatt, S., **Saunders, N.**, Sun, M. et al. (2022) <u>TESS Giants Transiting Giants II. The Hottest Jupiters Orbiting Evolved Stars.</u> AJ, 163, 3
- 12. Stello, D., **Saunders, N.**, Grunblatt, S., et al. (2022) <u>TESS asteroseismology of the Kepler red giants.</u> MNRAAS, 512, 2
- 11. Hedges, C., **Saunders, N.**, Martínez-Palomera, J. (2021) <u>Contaminante: A Tool for Automatically Finding a Close-to-optimal Aperture for Transiting Signals in Kepler, K2, and TESS Data.</u> RNAAS, 5, 260
- 10. Grunblatt, S., Zinn, J., Price-Whelan, A., Angus, R., **Saunders, N.** et al. (2021) <u>Age-Dating Red Giant Stars Associated with Galactic Disk and Halo Substructures.</u> ApJ, 916, 88
- 9. Hedges, C., Angus, R., Barentsen, G., **Saunders, N.**, Montet, B.T., Gully-Santiago, M. (2020) <u>Systematics-insensitive Periodogram for Finding Periods in TESS Observations of Long-period Rotators.</u> 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) <u>Four Small Planets Buried in *K2* Systems: What Can We Learn for TESS?</u> ApJL, 880, 1
- 7. Feinstein, A.D., Montet, B.T., Bean, J.L. et al. including **Saunders, N.** (2019) <u>eleanor: A tool for extracting light curves from the TESS Full-Frame Images.</u> 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) <u>Machine Learning for the Zwicky Transient Facility</u>. PASP, 131, 997
- 4. Hedges, C., **Saunders, N.**, Barensen, G. et al. (2019) <u>A Hot Jupiter Exoplanet Candidate towards the Galactic Center Identified in Kepler/K2 Campaign 9 Microlensing Survey.</u> RNAAS, 3, 1
- 3. Barentsen, G., Hedges, C., **Saunders, N.** et al. (2018) <u>Kepler's Discoveries Will Continue: 21 Important Scientific Opportunities with Kepler & K2 Archive Data.</u> 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) <u>An Update to the EVEREST K2</u> <u>Pipeline: Short Cadence, Saturated Stars, and Kepler-like Photometry down to Kp = 15.</u> AJ, 156, 99

ADVISING	
Undergraduate Addition Alii Cl. D. d. F. i. of H. l. d. H. i. of Cl. i.	M 2022 I 1 2022
Advisor, Alicia Chun, Research Experience for Undergraduates, University of Chicago Co-advisor, Erica Sawczynec, Undergraduate Honors Thesis, UH Mānoa	May 2023 – July 2023 June 2019 – June 2021
, 0	June 2017 – June 2021
High School Students & Teachers	1 2022
Advisor, Anica Ancheta, Dominic Rice, Holden Suzuki, HI STAR Research, HI High Schools Co-advisor, Alison English, Research Experience for Teachers, Honoka'a High School	=
Advisor, Wilson Chau, Pono Fortune, Gabe Mckillip, HI STAR Research, HI High Schools	June 2022 July 2020
•	July 2020
TEACHING & OUTREACH	
"Dying stars swallowing nearby planets," Interview, Hawai'i Public Radio	Jan 2022
Science Pen Pal, Letters to a Pre-Scientist	Sept 2020 – June 2021
Graduate Teaching Assistant, University of Hawai'i	Aug 2019 – Jan 2020
Planetarium Organizer, University of Washington	Jan 2018 – Aug 2018
Teaching Assistant, University of Washington	Jan 2017 – June 2018
Astrobiology Mobile Planetarium Presenter, University of Washington	Mar 2018
Volunteer, NASA Total Solar Eclipse Outreach Event	Aug 2017
Planetarium Presenter, University of Washington	Nov 2015 – Aug 2018
SERVICE	
LOC Member, TESS/Kepler Asteroseismic Science Consortium	2023
Graduate Student Representative, University of Hawai'i at Mānoa	Aug 2022 – Aug 2023
Graduate Outreach Representative, University of Hawai'i at Mānoa	Aug 2022 – Aug 2023
Undergraduate Liaison, University of Washington Astronomy Department Faculty Board	Sept 2017 – Aug 2018
TALKS	
Invited Talks	
"Orbital Evolution of Giant Planets" APS Seminar, CU Boulder, Boulder, CO (remote)	Feb 2024
"Orbital Evolution of Giant Planets" ESPF Seminar, STScI, Johns Hopkins University, Baltimore, MD	
"A Catalog of Uniform Exoplanet Parameters," CIPS Seminar, University of California, Berke	
"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 F	HI July 2023
"Orbital Evolution of Giant Planets After the Main Sequence," AAS 241, Seattle, WA	Jan 2023
"TESS Giants Transiting Giants IV: The Hottest Evolved Neptune," AAS 241, Seattle, WA	Jan 2023
"Tracing Hot Jupiter Evolution," Dissertation Proposal, University of Hawai'i	Dec 2021
"Refining Weakened Magnetic Braking with Hierarchical Modeling," University of Hawai'i	June 2021
"TOI-2184b: A Non-inflated Hot Jupiter" TESS Science Team Meeting #25, Virtual	Mar 2021
"Revealing the Mysteries of Exoplanets Around Evolved Stars with TESS," University of Haw	
"Revealing the Mysteries of Exoplanets Around Evolved Stars with TESS," AAS 235, Honolu	
"Analysis of Simulated Kepler/K2 Exoplanet Transit Parameters" AAS 233, Seattle, WA	Jan 2019
"Simulated CCD Photometry," Kepler/K2 Science Office, NASA Ames, Moffett Field, CA	May 2018
"Searching for Exoplanets" UW Undergraduate Research Symposium, Seattle, WA	May 2018
"De-trending K2 Exoplanet Targets for High Spacecraft Motion," AAS 231, Washington DC	Jan 2018
"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	June 2023
"Putting the Science in Science Fiction" Astronomy on Tan San Iose CA	May 2010

May 2019

Apr 2018

"Putting the Science in Science Fiction," Astronomy on Tap, San Jose, CA

"Putting the Science in Science Fiction," Astronomy on Tap, Seattle, WA

POSTERS

"Stellar Cruise Control: Weakened Magnetic Braking" TASC7 / KASC14, Honolulu, HI	July 2023
"Spin-Orbit (Re?) Alignment of Giant Planets," Late-Stage and Post-MS Systems Workshop, Aspen, CO	Mar 2023
"Giants Transiting Giants," Late-Stage and Post-MS Systems Workshop, Aspen, CO	Mar 2023
"Evidence for Weakened Magnetic Braking in Old Stars," TASC6 / KASC13, Leuven, Belgium	July 2022
"Evidence for Weakened Magnetic Braking in Old Stars," Cool Stars 21, Toulouse, France	July 2022
"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	Jan 2019