Nicholas Saunders

NSF Graduate Research Fellow

Q github.com/nksaunders

• nksaunders.space

saunders.nk@gmail.com

| EDUCATION | | |
|---|---------------|--|
| University of Hawai'i at Mānoa PhD Astronomy — advisors: Daniel Huber, Jennifer van Saders MSc Astronomy | | expected 2025 June 2021 |
| University of Washington BS Physics & Astronomy (with Honors) — advisors: Rodrigo Luger, Rory Barnes BA Comparative Literature (emphasis: Cinema Studies) | | June 2018 June 2018 |
| APPOINTMENTS | | |
| Visiting Scientist Department of Astrophysics, American Museum of Natural History, New York, NY | | Aug 2021 – present |
| NSF Graduate Research Fellow Institute for Astronomy, University of Hawai'i at Mānoa, Honolulu, HI | | Sept 2019 – present |
| Undergraduate Research Assistant University of Washington, Seattle, WA | | Jan 2016 – Aug 2018 |
| Planetary Science Intern The Bear Fight Institute, Winthrop, WA | | Apr 2011 – June 2013 |
| RELEVANT EMPLOYMENT | | |
| Kepler & K2 Training Materials Developer NumFocus, STScI, The Astropy Project, Remote from Honolulu, HI | | Apr 2020 – Sept 2020 |
| Research Support Scientist, Kepler/K2 Guest Observer Office NASA Ames Research Center, Mountain View, CA | | Aug 2018 – Aug 2019 |
| Data Visualization Analyst , UW Mobile Planetarium University of Washington, Seattle, WA | | June 2018 – Aug 2018 |
| GRANTS, AWARDS, & TELESCOPE TIME | | |
| "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) 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 Irving and Louise Donnergaard Endowment, University of Washington | s Association | 2023 – present 2022 – present 2021 – present 2023 2021 2021 2019 2018 2016 2013 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) <u>The Pointing Limits of Transiting Exoplanet Light Curve Characterization with Pixel Level De-correlation.</u> AJ, 157, 197

Co-author

- 18. Hey, D., Huber, D., Shappee, J. et al. including **Saunders, N.** (2023, submitted) <u>The Far Side of the Galactic Bar/Bulge Revealed Through Semi-Regular Variables.</u> aXiv:2305.19319
- 17. Grunblatt, S., **Saunders, N.**, Huber D. et al. (2023, submitted) <u>An Unlikely Survivor: A Low-density Hot Neptune Orbiting a Red Giant Star.</u> arXiv:2303.06728
- 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. AJ, 165, 2</u>
- 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. RNAAS, 5, 260</u>
- 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
- Mahabal, A., Rebbapragada, U., Walters, R. et al. including Saunders, N. (2019) <u>Machine Learning for the Zwicky</u> <u>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 Pipeline: Short Cadence, Saturated Stars, and Kepler-like Photometry down to Kp = 15.</u> AJ, 156, 99

ADVISING

<u>Undergraduate</u>

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

High School Students & Teachers

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

TEACHING & OUTREACH

| | Jan 2022 |
|--|---|
| Dying stars swallowing nearby planets," Interview, <u>Hawai'i Public Radio</u> cience Pen Pal, Letters to a Pre-Scientist raduate Teaching Assistant, University of Hawai'i Aug 2019 | |
| | |
| 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 20 | |
| OPEN-SOURCE SOFTWARE | |
| Lead developer → giants: TESS full-frame image photometry & planet search pipelin | e |
| Core developer → <u>lightkurve</u> : time-series analysis tools for Kepler/K2 & TESS | |
| Core developer → <u>eleanor</u> : TESS full-frame image photometry pipeline | |
| Contributor → <u>everest</u> : K2 noise removal pipeline | |
| 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 | D.1. 11D 1 2000 |
| "Orbital Evolution of Giant Planets" ESPF Seminar, STScI, Johns Hopkins Universit | |
| "Orbital Evolution of Giant Planets" ESPF Seminar, STScI, Johns Hopkins Universit "A Catalog of Uniform Exoplanet Parameters," CIPS Seminar, University of California, | Berkeley, CA Apr 2019 |
| "Orbital Evolution of Giant Planets" ESPF Seminar, STScI, Johns Hopkins Universit | Berkeley, CA Apr 2019 |
| "Orbital Evolution of Giant Planets" ESPF Seminar, STScI, Johns Hopkins Universit "A Catalog of Uniform Exoplanet Parameters," CIPS Seminar, University of California, | Berkeley, CA Apr 2019 |
| "Orbital Evolution of Giant Planets" ESPF Seminar, STScI, Johns Hopkins Universit "A Catalog of Uniform Exoplanet Parameters," CIPS Seminar, University of California, "Sputtering Effects on K2" Kepler/K2 Guest Observer Office, NASA Ames, Moffett Contributed Talks "Evidence for Efficient Tidal Realignment of Hot Jupiters" TASC7 / KASC14, Honor | Berkeley, CA Apr 2019 t Field, CA Oct 2017 |
| "Orbital Evolution of Giant Planets" ESPF Seminar, STScI, Johns Hopkins Universit "A Catalog of Uniform Exoplanet Parameters," CIPS Seminar, University of California, "Sputtering Effects on K2" Kepler/K2 Guest Observer Office, NASA Ames, Moffett Contributed Talks "Evidence for Efficient Tidal Realignment of Hot Jupiters" TASC7 / KASC14, Hono "Orbital Evolution of Giant Planets After the Main Sequence," AAS 241, Seattle, WA | Berkeley, CA Apr 2019 t Field, CA Oct 2017 slulu HI July 2023 Jan 2023 |
| "Orbital Evolution of Giant Planets" ESPF Seminar, STScI, Johns Hopkins Universit "A Catalog of Uniform Exoplanet Parameters," CIPS Seminar, University of California, "Sputtering Effects on K2" Kepler/K2 Guest Observer Office, NASA Ames, Moffett Contributed Talks "Evidence for Efficient Tidal Realignment of Hot Jupiters" TASC7 / KASC14, Hono "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 | Berkeley, CA Apr 2019 Ct Field, CA Oct 2017 July 2023 Jan 2023 WA Jan 2023 |
| "Orbital Evolution of Giant Planets" ESPF Seminar, STScI, Johns Hopkins Universit "A Catalog of Uniform Exoplanet Parameters," CIPS Seminar, University of California, "Sputtering Effects on K2" Kepler/K2 Guest Observer Office, NASA Ames, Moffett Contributed Talks "Evidence for Efficient Tidal Realignment of Hot Jupiters" TASC7 / KASC14, Hono "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 | Berkeley, CA Apr 2019 t Field, CA Oct 2017 blulu HI July 2023 |
| "Orbital Evolution of Giant Planets" ESPF Seminar, STScI, Johns Hopkins Universit "A Catalog of Uniform Exoplanet Parameters," CIPS Seminar, University of California, "Sputtering Effects on K2" Kepler/K2 Guest Observer Office, NASA Ames, Moffett Contributed Talks "Evidence for Efficient Tidal Realignment of Hot Jupiters" TASC7 / KASC14, Hono "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 | Berkeley, CA Apr 2019 t Field, CA Oct 2017 blulu HI July 2023 Jan 2023 WA Jan 2023 Dec 2021 June 2021 |
| "Orbital Evolution of Giant Planets" ESPF Seminar, STScI, Johns Hopkins Universit "A Catalog of Uniform Exoplanet Parameters," CIPS Seminar, University of California, "Sputtering Effects on K2" Kepler/K2 Guest Observer Office, NASA Ames, Moffett Contributed Talks "Evidence for Efficient Tidal Realignment of Hot Jupiters" TASC7 / KASC14, Hono "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, "Tracing Hot Jupiter Evolution," Dissertation Proposal, University of Hawai "Refining Weakened Magnetic Braking with Hierarchical Modeling," University of Hawai "TOI-2184b: A Non-inflated Hot Jupiter" TESS Science Team Meeting #25, Virtual | Berkeley, CA Apr 2019 t Field, CA Oct 2017 blulu HI July 2023 |
| "Orbital Evolution of Giant Planets" ESPF Seminar, STScI, Johns Hopkins Universit "A Catalog of Uniform Exoplanet Parameters," CIPS Seminar, University of California, "Sputtering Effects on K2" Kepler/K2 Guest Observer Office, NASA Ames, Moffett Contributed Talks "Evidence for Efficient Tidal Realignment of Hot Jupiters" TASC7 / KASC14, Hono "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 "Refining Weakened Magnetic Braking with Hierarchical Modeling," University of Hawai "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 | Berkeley, CA Apr 2019 t Field, CA Oct 2017 Slulu HI July 2023 Jan 2023 WA Jan 2023 Dec 2021 June 2021 Mar 2021 f Hawai'i Sept 2020 |
| "Orbital Evolution of Giant Planets" ESPF Seminar, STScI, Johns Hopkins Universit "A Catalog of Uniform Exoplanet Parameters," CIPS Seminar, University of California, "Sputtering Effects on K2" Kepler/K2 Guest Observer Office, NASA Ames, Moffett Contributed Talks "Evidence for Efficient Tidal Realignment of Hot Jupiters" TASC7 / KASC14, Hono "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, "Tracing Hot Jupiter Evolution," Dissertation Proposal, University of Hawai'i "Refining Weakened Magnetic Braking with Hierarchical Modeling," University of Hawai "TOI-2184b: A Non-inflated Hot Jupiter" TESS Science Team Meeting #25, Virtual | Berkeley, CA Apr 2019 Ct Field, CA Oct 2017 Slulu HI July 2023 Jan 2023 WA Jan 2023 Dec 2021 June 2021 Mar 2021 f Hawai'i Sept 2020 |
| "Orbital Evolution of Giant Planets" ESPF Seminar, STScI, Johns Hopkins University "A Catalog of Uniform Exoplanet Parameters," CIPS Seminar, University of California, "Sputtering Effects on K2" Kepler/K2 Guest Observer Office, NASA Ames, Moffett Contributed Talks "Evidence for Efficient Tidal Realignment of Hot Jupiters" TASC7 / KASC14, Hono "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, "Tracing Hot Jupiter Evolution," Dissertation Proposal, University of Hawai "Refining Weakened Magnetic Braking with Hierarchical Modeling," University of Hawai "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 "Revealing the Mysteries of Exoplanets Around Evolved Stars with TESS," AAS 235, H "Analysis of Simulated Kepler/K2 Exoplanet Transit Parameters" AAS 233, Seattle, WA | Berkeley, CA Apr 2019 Ct Field, CA Oct 2017 Sulu HI July 2023 Jan 2023 WA Jan 2023 Dec 2021 June 2021 Mar 2021 f Hawai'i Sept 2020 Jan 2019 |
| "Orbital Evolution of Giant Planets" ESPF Seminar, STScI, Johns Hopkins University "A Catalog of Uniform Exoplanet Parameters," CIPS Seminar, University of California, "Sputtering Effects on K2" Kepler/K2 Guest Observer Office, NASA Ames, Moffett Contributed Talks "Evidence for Efficient Tidal Realignment of Hot Jupiters" TASC7 / KASC14, Hono "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, "Tracing Hot Jupiter Evolution," Dissertation Proposal, University of Hawai'i "Refining Weakened Magnetic Braking with Hierarchical Modeling," University of Hawai "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 "Revealing the Mysteries of Exoplanets Around Evolved Stars with TESS," AAS 235, H | Berkeley, CA Apr 2019 Ct Field, CA Oct 2017 Sulu HI July 2023 Jan 2023 WA Jan 2023 Dec 2021 June 2021 Mar 2021 f Hawai'i Sept 2020 Jan 2019 |
| "Orbital Evolution of Giant Planets" ESPF Seminar, STScI, Johns Hopkins University "A Catalog of Uniform Exoplanet Parameters," CIPS Seminar, University of California, "Sputtering Effects on K2" Kepler/K2 Guest Observer Office, NASA Ames, Moffett Contributed Talks "Evidence for Efficient Tidal Realignment of Hot Jupiters" TASC7 / KASC14, Hono "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, "Tracing Hot Jupiter Evolution," Dissertation Proposal, University of Hawai "Refining Weakened Magnetic Braking with Hierarchical Modeling," University of Hawai "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 "Revealing the Mysteries of Exoplanets Around Evolved Stars with TESS," AAS 235, H "Analysis of Simulated Kepler/K2 Exoplanet Transit Parameters" AAS 233, Seattle, WA | Berkeley, CA Apr 2019 t Field, CA Oct 2017 July 2023 Jan 2023 WA Jan 2023 Dec 2021 June 2021 Mar 2021 f Hawai'i onolulu, HI July 2023 Jan 2020 Mar 2021 Jan 2020 Jan 2019 CA May 2018 |
| "Orbital Evolution of Giant Planets" ESPF Seminar, STScI, Johns Hopkins University "A Catalog of Uniform Exoplanet Parameters," CIPS Seminar, University of California, "Sputtering Effects on K2" Kepler/K2 Guest Observer Office, NASA Ames, Moffett Contributed Talks "Evidence for Efficient Tidal Realignment of Hot Jupiters" TASC7 / KASC14, Hono "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, "Tracing Hot Jupiter Evolution," Dissertation Proposal, University of Hawai "Refining Weakened Magnetic Braking with Hierarchical Modeling," University of Hawai "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 "Revealing the Mysteries of Exoplanets Around Evolved Stars with TESS," AAS 235, H "Analysis of Simulated Kepler/K2 Exoplanet Transit Parameters" AAS 233, Seattle, WA "Simulated CCD Photometry," Kepler/K2 Science Office, NASA Ames, Moffett Field, | Berkeley, CA Apr 2019 t Field, CA Oct 2017 July 2023 Jan 2023 WA Jan 2023 Dec 2021 June 2021 Mar 2021 f Hawai'i onolulu, HI July 2023 Jan 2020 Mar 2021 Jan 2019 CA May 2018 May 2018 |
| "Orbital Evolution of Giant Planets" ESPF Seminar, STScI, Johns Hopkins Universit "A Catalog of Uniform Exoplanet Parameters," CIPS Seminar, University of California, "Sputtering Effects on K2" Kepler/K2 Guest Observer Office, NASA Ames, Moffett Contributed Talks "Evidence for Efficient Tidal Realignment of Hot Jupiters" TASC7 / KASC14, Hono "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 "TOI-2184b: A Non-inflated Hot Jupiter" TESS Science Team Meeting #25, Virtual "Revealing the Mysteries of Exoplanets Around Evolved Stars with TESS," University o "Revealing the Mysteries of Exoplanets Around Evolved Stars with TESS," AAS 235, H "Analysis of Simulated Kepler/K2 Exoplanet Transit Parameters" AAS 233, Seattle, WA "Simulated CCD Photometry," Kepler/K2 Science Office, NASA Ames, Moffett Field, "Searching for Exoplanets" UW Undergraduate Research Symposium, Seattle, WA | Berkeley, CA Apr 2019 Ct Field, CA Oct 2017 Solulu HI July 2023 Jan 2023 WA Jan 2023 Dec 2021 Mar 2021 Mar 2021 f Hawai'i onolulu, HI Jan 2020 Jan 2019 CA May 2018 May 2018 An DC Jan 2018 |
| "Orbital Evolution of Giant Planets" ESPF Seminar, STScI, Johns Hopkins Universit "A Catalog of Uniform Exoplanet Parameters," CIPS Seminar, University of California, "Sputtering Effects on K2" Kepler/K2 Guest Observer Office, NASA Ames, Moffett Contributed Talks "Evidence for Efficient Tidal Realignment of Hot Jupiters" TASC7 / KASC14, Hono "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 "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 "Revealing the Mysteries of Exoplanets Around Evolved Stars with TESS," AAS 235, H "Analysis of Simulated Kepler/K2 Exoplanet Transit Parameters" AAS 233, Seattle, WA "Simulated CCD Photometry," Kepler/K2 Science Office, NASA Ames, Moffett Field, "Searching for Exoplanets" UW Undergraduate Research Symposium, Seattle, WA "De-trending K2 Exoplanet Targets for High Spacecraft Motion," AAS 231, Washingtor "K2 Pixel Sensitivity Variations," UW Undergraduate Research Symposium, Seattle, WA Outreach Talks | Berkeley, CA t Field, CA Oct 2017 July 2023 Jan 2023 Dec 2021 Mar 2021 Mar 2021 Sept 2020 Och Jan 2019 CA May 2018 May 2018 May 2018 May 2017 |
| "Orbital Evolution of Giant Planets" ESPF Seminar, STScI, Johns Hopkins Universit "A Catalog of Uniform Exoplanet Parameters," CIPS Seminar, University of California, "Sputtering Effects on K2" Kepler/K2 Guest Observer Office, NASA Ames, Moffett Contributed Talks "Evidence for Efficient Tidal Realignment of Hot Jupiters" TASC7 / KASC14, Hono "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 "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 "Revealing the Mysteries of Exoplanets Around Evolved Stars with TESS," AAS 235, H "Analysis of Simulated Kepler/K2 Exoplanet Transit Parameters" AAS 233, Seattle, WA "Simulated CCD Photometry," Kepler/K2 Science Office, NASA Ames, Moffett Field, "Searching for Exoplanets" UW Undergraduate Research Symposium, Seattle, WA "De-trending K2 Exoplanet Targets for High Spacecraft Motion," AAS 231, Washingtor "K2 Pixel Sensitivity Variations," UW Undergraduate Research Symposium, Seattle, WA Outreach Talks "Exploring Strange New Worlds," HI STAR, UH Maui College, Kahului, HI | Berkeley, CA Berkeley, CA Field, CA Oct 2017 Oululu HI July 2023 Jan 2023 Dec 2021 Mar 2021 Mar 2021 f Hawai'i Onolulu, HI A June 2020 Jan 2019 CA May 2018 May 2018 May 2017 June 2023 |
| "Orbital Evolution of Giant Planets" ESPF Seminar, STScI, Johns Hopkins Universit "A Catalog of Uniform Exoplanet Parameters," CIPS Seminar, University of California, "Sputtering Effects on K2" Kepler/K2 Guest Observer Office, NASA Ames, Moffett Contributed Talks "Evidence for Efficient Tidal Realignment of Hot Jupiters" TASC7 / KASC14, Hono "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, W "Tracing Hot Jupiter Evolution," Dissertation Proposal, University of Hawai "Refining Weakened Magnetic Braking with Hierarchical Modeling," University of Hawai "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 "Revealing the Mysteries of Exoplanets Around Evolved Stars with TESS," AAS 235, H "Analysis of Simulated Kepler/K2 Exoplanet Transit Parameters" AAS 233, Seattle, WA "Simulated CCD Photometry," Kepler/K2 Science Office, NASA Ames, Moffett Field, "Searching for Exoplanets" UW Undergraduate Research Symposium, Seattle, WA "De-trending K2 Exoplanet Targets for High Spacecraft Motion," AAS 231, Washingtor "K2 Pixel Sensitivity Variations," UW Undergraduate Research Symposium, Seattle, WA 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 | Berkeley, CA Apr 2019 Ct Field, CA Sululu HI July 2023 Jan 2023 Dec 2021 June 2021 Mar 2021 Sept 2020 Onolulu, HI June 2021 Jan 2019 CA May 2018 May 2018 May 2017 June 2023 May 2019 June 2023 May 2019 |
| "Orbital Evolution of Giant Planets" ESPF Seminar, STScI, Johns Hopkins Universit "A Catalog of Uniform Exoplanet Parameters," CIPS Seminar, University of California, "Sputtering Effects on K2" Kepler/K2 Guest Observer Office, NASA Ames, Moffett Contributed Talks "Evidence for Efficient Tidal Realignment of Hot Jupiters" TASC7 / KASC14, Hono "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 "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 "Revealing the Mysteries of Exoplanets Around Evolved Stars with TESS," AAS 235, H "Analysis of Simulated Kepler/K2 Exoplanet Transit Parameters" AAS 233, Seattle, WA "Simulated CCD Photometry," Kepler/K2 Science Office, NASA Ames, Moffett Field, "Searching for Exoplanets" UW Undergraduate Research Symposium, Seattle, WA "De-trending K2 Exoplanet Targets for High Spacecraft Motion," AAS 231, Washington "K2 Pixel Sensitivity Variations," UW Undergraduate Research Symposium, Seattle, WA Outreach Talks "Exploring Strange New Worlds," HI STAR, UH Maui College, Kahului, HI | Berkeley, CA Apr 2019 t Field, CA Oct 2017 July 2023 Jan 2023 WA Jan 2023 Dec 2021 June 2021 Mar 2021 f Hawai'i onolulu, HI June 2020 Jan 2019 CA May 2018 May 2018 May 2017 June 2023 May 2017 June 2023 May 2017 |
| "Orbital Evolution of Giant Planets" ESPF Seminar, STScI, Johns Hopkins Universit "A Catalog of Uniform Exoplanet Parameters," CIPS Seminar, University of California, "Sputtering Effects on K2" Kepler/K2 Guest Observer Office, NASA Ames, Moffett Contributed Talks "Evidence for Efficient Tidal Realignment of Hot Jupiters" TASC7 / KASC14, Hone "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, W "Tracing Hot Jupiter Evolution," Dissertation Proposal, University of Hawai'i "Refining Weakened Magnetic Braking with Hierarchical Modeling," University of Hawa "TOI-2184b: A Non-inflated Hot Jupiter" TESS Science Team Meeting #25, Virtual "Revealing the Mysteries of Exoplanets Around Evolved Stars with TESS," University o "Revealing the Mysteries of Exoplanets Around Evolved Stars with TESS," AAS 235, H "Analysis of Simulated Kepler/K2 Exoplanet Transit Parameters" AAS 233, Seattle, WA "Simulated CCD Photometry," Kepler/K2 Science Office, NASA Ames, Moffett Field, "Searching for Exoplanets" UW Undergraduate Research Symposium, Seattle, WA "De-trending K2 Exoplanet Targets for High Spacecraft Motion," AAS 231, Washingtor "K2 Pixel Sensitivity Variations," UW Undergraduate Research Symposium, Seattle, WA 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, "The Search for Habitable Worlds," Astrobiology Mini Talks, Museum of Flight, Seattle, | Berkeley, CA Apr 2019 t Field, CA Oct 2017 July 2023 Jan 2023 WA Jan 2023 Dec 2021 June 2021 Mar 2021 f Hawai'i onolulu, HI June 2020 Jan 2019 CA May 2018 May 2018 May 2017 June 2023 May 2017 June 2023 May 2019 Apr 2018 |
| "Orbital Evolution of Giant Planets" ESPF Seminar, STScI, Johns Hopkins Universit "A Catalog of Uniform Exoplanet Parameters," CIPS Seminar, University of California, "Sputtering Effects on K2" Kepler/K2 Guest Observer Office, NASA Ames, Moffett Contributed Talks "Evidence for Efficient Tidal Realignment of Hot Jupiters" TASC7 / KASC14, Hono "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 "TOI-2184b: A Non-inflated Hot Jupiter" TESS Science Team Meeting #25, Virtual "Revealing the Mysteries of Exoplanets Around Evolved Stars with TESS," University o "Revealing the Mysteries of Exoplanets Around Evolved Stars with TESS," AAS 235, H "Analysis of Simulated Kepler/K2 Exoplanet Transit Parameters" AAS 233, Seattle, WA "Simulated CCD Photometry," Kepler/K2 Science Office, NASA Ames, Moffett Field, "Searching for Exoplanets" UW Undergraduate Research Symposium, Seattle, WA "De-trending K2 Exoplanet Targets for High Spacecraft Motion," AAS 231, Washingtor "K2 Pixel Sensitivity Variations," UW Undergraduate Research Symposium, Seattle, WA 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, "The Search for Habitable Worlds," Astrobiology Mini Talks, Museum of Flight, Seattle, | Berkeley, CA t Field, CA Apr 2019 Oct 2017 July 2023 Jan 2023 WA Jan 2023 Dec 2021 June 2021 Mar 2021 f Hawai'i onolulu, HI June 2020 Jan 2019 CA May 2018 May 2018 May 2017 June 2023 May 2017 June 2023 May 2019 Apr 2018 WA Apr 2018 |
| "Orbital Evolution of Giant Planets" ESPF Seminar, STScI, Johns Hopkins Universit "A Catalog of Uniform Exoplanet Parameters," CIPS Seminar, University of California, "Sputtering Effects on K2" Kepler/K2 Guest Observer Office, NASA Ames, Moffett Contributed Talks "Evidence for Efficient Tidal Realignment of Hot Jupiters" TASC7 / KASC14, Hono "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, W "Tracing Hot Jupiter Evolution," Dissertation Proposal, University of Hawai'i "Refining Weakened Magnetic Braking with Hierarchical Modeling," University of Hawa "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 "Revealing the Mysteries of Exoplanet Transit Parameters" AAS 233, Seattle, WA "Simulated CCD Photometry," Kepler/K2 Exoplanet Transit Parameters" AAS 233, Seattle, WA "Simulated CCD Photometry," Kepler/K2 Science Office, NASA Ames, Moffett Field, "Searching for Exoplanets" UW Undergraduate Research Symposium, Seattle, WA "De-trending K2 Exoplanet Targets for High Spacecraft Motion," AAS 231, Washingtor "K2 Pixel Sensitivity Variations," UW Undergraduate Research Symposium, Seattle, WA 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, POSTERS "Stellar Cruise Control: Weakened Magnetic Braking" TASC7 / KASC14, Honolulu, I | Berkeley, CA t Field, CA Apr 2019 Oct 2017 July 2023 Jan 2023 Dec 2021 June 2021 Mar 2021 Mar 2020 GA Dec 2020 Jan 2019 CA May 2018 May 2018 May 2017 June 2023 May 2017 June 2023 May 2017 June 2023 May 2018 Apr 2018 Apr 2018 May 2018 July 2023 May 2019 Apr 2018 May 2018 July 2023 |
| "Orbital Evolution of Giant Planets" ESPF Seminar, STScI, Johns Hopkins Universit "A Catalog of Uniform Exoplanet Parameters," CIPS Seminar, University of California, "Sputtering Effects on K2" Kepler/K2 Guest Observer Office, NASA Ames, Moffett Contributed Talks "Evidence for Efficient Tidal Realignment of Hot Jupiters" TASC7 / KASC14, Honor "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 "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 "Revealing the Mysteries of Exoplanets Around Evolved Stars with TESS," AAS 235, Hamalysis of Simulated Kepler/K2 Exoplanet Transit Parameters" AAS 233, Seattle, WA "Simulated CCD Photometry," Kepler/K2 Science Office, NASA Ames, Moffett Field, "Searching for Exoplanets" UW Undergraduate Research Symposium, Seattle, WA "De-trending K2 Exoplanet Targets for High Spacecraft Motion," AAS 231, Washington "K2 Pixel Sensitivity Variations," UW Undergraduate Research Symposium, Seattle, WA "Dettending K2 Exoplanet Targets for High Spacecraft Motion," AAS 231, Washington "K2 Pixel Sensitivity Variations," UW Undergraduate Research Symposium, Seattle, WA "Undergraduate Research Symposium, Seattle, WA "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, Posters "Stellar Cruise Control: Weakened Magnetic Braking" TASC7 / KASC14, Honolulu, I "Spin-Orbit (Re?) Alignment of Giant Planets," Late-Stage and Post-MS Systems Works | Berkeley, CA t Field, CA Apr 2019 Oct 2017 July 2023 Jan 2023 Dec 2021 June 2021 Mar 2021 Mar 2020 Jan 2019 CA May 2018 Apr 2018 May 2017 June 2023 May 2017 June 2023 May 2017 June 2023 May 2018 Apr 2018 June 2023 May 2019 Apr 2018 HI HI HOP, Aspen, CO Mar 2023 |
| "Orbital Evolution of Giant Planets" ESPF Seminar, STScI, Johns Hopkins Universit "A Catalog of Uniform Exoplanet Parameters," CIPS Seminar, University of California, "Sputtering Effects on K2" Kepler/K2 Guest Observer Office, NASA Ames, Moffett Contributed Talks "Evidence for Efficient Tidal Realignment of Hot Jupiters" TASC7 / KASC14, Hono "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, W "Tracing Hot Jupiter Evolution," Dissertation Proposal, University of Hawai'i "Refining Weakened Magnetic Braking with Hierarchical Modeling," University of Hawa "TOI-2184b: A Non-inflated Hot Jupiter" TESS Science Team Meeting #25, Virtual "Revealing the Mysteries of Exoplanets Around Evolved Stars with TESS," University o "Revealing the Mysteries of Exoplanets Around Evolved Stars with TESS," AAS 235, H "Analysis of Simulated Kepler/K2 Exoplanet Transit Parameters" AAS 233, Seattle, WA "Simulated CCD Photometry," Kepler/K2 Science Office, NASA Ames, Moffett Field, "Searching for Exoplanets" UW Undergraduate Research Symposium, Seattle, WA "De-trending K2 Exoplanet Targets for High Spacecraft Motion," AAS 231, Washingtor "K2 Pixel Sensitivity Variations," UW Undergraduate Research Symposium, Seattle, WA 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, POSTERS "Stellar Cruise Control: Weakened Magnetic Braking" TASC7 / KASC14, Honolulu, I | Berkeley, CA t Field, CA Apr 2019 Oct 2017 Sulu HI July 2023 Jan 2023 Dec 2021 June 2021 Mar 2021 Mar 2020 Jan 2019 CA May 2018 May 2018 May 2018 May 2017 June 2023 May 2017 June 2023 May 2019 Apr 2018 HI HOP, Aspen, CO 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 | Jan 2019 |