ASHLEY CHONTOS

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|---------------------|---------------------|
| Honolulu, HI 96822 | 347-443-2505 |

EDUCATION

| Ph.D., Astronomy, University of Hawai'i at Mānoa | (expected June 2022) |
|--|----------------------|
| Thesis: Precise Stellar and Planet Properties in the Kepler, K2 & TESS Era | |
| Advisor: Daniel Huber | |
| M.Sc., Astronomy, University of Hawai'i at Mānoa | 2018 |
| B.Sc., Mathematics, Summa Cum Laude, SUNY Albany | 2016 |
| Focuses: Statistics, Applied Mathematics | |
| Minor: Computer Science | |
| B.Sc., Physics, Summa Cum Laude, SUNY Albany | 2016 |

PROFESSIONAL EMPLOYMENT

| NSF Graduate Research Fellow | 2018 – <i>present</i> |
|--|-----------------------|
| Research Assistant, University of Hawai'i at Mānoa | 2017 - 2018 |
| Research Assistant, NASA Goddard Space Flight Center | 2016 |
| Research Assistant, Stanford University | 2015 - 2016 |

RESEARCH INTERESTS

Asteroseismology, stellar evolution, exoplanet detection and characterization, photometric data analyses, spectroscopic radial velocity analyses, software development, computational astrophysics, post main-sequence planetary system dynamics and evolution, space telescopes, astronomical surveys.

SELECTED HONORS & AWARDS

| Friends of the IfA Outreach Award | 2019 |
|--|------|
| ARCS (Achievement Rewards for College Scientists) | 2019 |
| National Science Foundation Graduate Research Fellowship | 2018 |
| Outstanding Outreach Award | 2017 |
| John C. Mather Nobel Scholar | 2016 |

SELECTED TALKS

| University Of Chicago Exoplanet Journal Club (invited) | September 2021 |
|---|----------------|
| Carnegie EPL Astronomy Seminar (invited) | September 2021 |
| TESS Science Talk, MIT (invited) | September 2021 |
| Keck Science Meeting | September 2021 |
| TESS SciCon II | August 2021 |
| The Good Vibrations Seminar (invited) | February 2021 |
| TESS Science Team Meeting | October 2020 |
| Yale Exoplanets & Stars Seminar (invited) | September 2020 |
| Exoplanets III, Heidelberg, Germany | July 2020 |
| The 235th American Astronomical Society Meeting, Honolulu, HI | January 2020 |
| TASC5, MIT, Cambridge, USA | July 2019 |
| TESS SciCon I, MIT, Cambridge, USA | July 2019 |
| Kepler/K2 SciCon V, Glendale, CA | March 2019 |
| University of Hawai'i Astrobiology Seminar (invited) | September 2018 |
| TASC4, Aarhus, Denmark | July 2018 |
| Columbia University Astronomy Seminar (invited) | October 2017 |

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TEACHING, SERVICE & LEADERSHIP

| Mentor for high school students through HI STAR, Oahu, HI and Maui, HI | 2017 – present |
|--|------------------------|
| Astronomy Graduate Outreach Coordinator & Volunteer | 2016 - 2020 |
| Selected Events: | |
| · Punahou Speaker Series, Oahu, HI | 2018 – <i>present</i> |
| · Starlab, Oahu, HI | 2017 – <i>present</i> |
| · Boy Scouts of Hawai'i Astronomy Merit Badge, Oahu, HI | 2017, 2018, 2019 |
| · STEM Fest, Oahu, HI | 2017, 2018, 2019 |
| · Hawaiian Astronaut Lacy Veach Day, Oahu, HI | 2017, 2018, 2019 |
| · Astroday, Big Island, HI | 2016, 2017a/b, 2018a/b |
| Teaching Assistant, ASTR 110: Lab, University of Hawai'i at Mānoa | 2016 |
| Teaching Assistant, ASTR 110: Lecture, University of Hawai'i at Mānoa | 2016 |
| Teaching Assistant, ICSI 124X: Lecture, SUNY Albany | 2013, 2014 |

PRESS COVERAGE

Kepler's First Exoplanet Discovery [Chontos et al. 2019]: The discovery was announced during my talk at Kepler SciCon V, which included a coordinated press release between [NASA] and [UH]. Articles featuring the science result included [CNN], [Space.com], [University Today], [Science News], and many others. The story made the front page of the main [Hawaiian newspaper] as well as my [hometown newspaper]. I was also invited as a guest speaker to talk about the planet on live [Hawai'i public radio].

AWARDED TELESCOPE TIME & OBSERVING EXPERIENCE

| PI, 16 nights over 4 semesters using HIRES on Keck I 10m Telescope | 2019 – <i>present</i> |
|---|-----------------------|
| Exoplanets Orbiting Subgiants: Benchmark Systems with TESS | _ |
| Co-Is: Daniel Huber, Andrew Howard, Howard Isaacson, Lauren Weiss | |
| Co-I, 4 nights in 2019B using HIRES on Keck I 10m Telescope | 2018 |
| The TESS-Keck Survey of Exoplanets Orbiting Asteroseismic Host Stars | |
| PI: Daniel Huber, Co-Is: Andrew Howard, Howard Isaacson, Lauren Weiss | |
| Co-I, 0.5 night in 2019B using HIRES on Keck I 10m Telescope | 2018 |
| Spin-Orbit Alignment in Kepler's First Exoplanet System | |
| PI: Daniel Huber, Co-I: Teruyuki Hirano | |
| Observer, 60 nights on Keck/HIRES through the California Planet Search | 2018 – <i>present</i> |
| Observer, 5 nights on Gemini South/GPI through the GPI Exoplanet Survey | 2015 |

PEER-REVIEWED PUBLICATIONS

Total publications: 37, with 4 as first author and 10 with significant contributions.

Total citations: 384, h-index:13, as of Nov 3 2021.

Bibliography: [NASA ADS] [ORCID]

First Author Publications:

Chontos, A., Sayeed, M. and Huber, D., "pySYD: Automated Measurements of Global Asteroseismic Parameters," *JOSS, in review*. Citations: 2

https://ui.adsabs.harvard.edu/abs/2021arXiv210800582C

Chontos, A., et al., "The TESS-Keck Survey: Science Goals and Target Selection," *AJ, in review* [with favorable referee report]. Citations: 2

https://ui.adsabs.harvard.edu/abs/2021arXiv210606156C

Chontos, A., et al., "TESS Asteroseismology of α Mensae: Benchmark Ages for a G7 Dwarf and its M-dwarf Companion," *ApJ*, *in press*. Citations: 4

https://ui.adsabs.harvard.edu/abs/2020arXiv201210797C

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Chontos, A., et al., "The Curious Case of KOI 4: Confirming Kepler's First Exoplanet Detection," *AJ*, **157**, 192 (2019). Citations: 15

https://ui.adsabs.harvard.edu/abs/2019AJ....157..192C

Significant Contributions:

- Huber, D., White, T., Metcalfe, T., **Chontos, A.**, et al., "A 20-Second Cadence View of Solar-Type Stars and Their Planets with TESS: Asteroseismology of Solar Analogs and a Re-characterization of pi Men c," *in review* [with favorable referee report]. Citations: 1 https://ui.adsabs.harvard.edu/abs/2021arXiv210809109H
- Rosenthal, L. J., et al. [including **Chontos, A.,**], "The California Legacy Survey. I. A Catalog of 178 Planets from Precision Radial Velocity Monitoring of 719 Nearby Stars over Three Decades," *ApJSS*, **225**, 8 (2021). Citations: 16 https://ui.adsabs.harvard.edu/abs/2021ApJS..255....8R
- Guerrero et al. [including **Chontos**, **A.,**], "The TESS Objects of Interest Catalog from the TESS Prime Mission," *ApJSS*, **254**, 39 (2021). Citations: 26 https://ui.adsabs.harvard.edu/abs/2021ApJS..254...39G
- Addison, B. C., et al. [including **Chontos, A.,**], "TOI-257b (HD 19916b): a warm sub-saturn orbiting an evolved F-type star," *MNRAS*, **502**, 3704-3722 (2021). Citations: 17 https://ui.adsabs.harvard.edu/abs/2021MNRAS.502.3704A
- Rubenzahl, R., Dai, F., Howard, A. W., **Chontos, A.,** et al., "The TESS-Keck Survey. IV. A Retrograde, Polar Orbit for the Ultra-low-density, Hot Super-Neptune WASP-107b," *AJ*, **161**, 119 (2021). Citations: 13 https://ui.adsabs.harvard.edu/abs/2021AJ....161..119R
- Lund, M., Knudstrup, E., Silva Aguierre, V., Basu, S., **Chontos, A.,** et al., "Asteroseismology of Multiplanet System K2-93," *AJ*, **158**, 248 (2019). Citations: 6 https://ui.adsabs.harvard.edu/abs/2019AJ....158..248L
- Crossfield, I. J. M., et al. [including **Chontos, A.,**], "A Super-Earth and Sub-Neptune Transiting the Late-type M Dwarf LP 791-18," *ApJL*, **883**, L16 (2019). Citations: 24 https://ui.adsabs.harvard.edu/abs/2019ApJ...883L..16C
- Huber, D., Chaplin, W., **Chontos, A.,** et al., "A Hot Saturn Orbiting an Oscillating Late Subgiant Discovered by TESS," *AJ*, **157**, 245 (2019). Citations: 55 https://ui.adsabs.harvard.edu/abs/2019AJ....157...245H
- Grunblatt, S., et al. [including **Chontos**, **A.**,], "Do Close-in Giant Planets Orbiting Evolved Stars Prefer Eccentric Orbits?" *ApJL*, **861**, L5 (2018). Citations: 16 https://ui.adsabs.harvard.edu/abs/2018ApJ...861L...5G
- De Rosa, R. J., et al. [including **Chontos, A.,**], "Astrometric Confirmation and Preliminary Orbital Parameters of the Young Exoplanet 51 Eridani b with the Gemini Planet Imager," *ApJL*, **814**, L3 (2015). Citations: 44 https://ui.adsabs.harvard.edu/abs/2015ApJ...814L...3D

Other Publications:

- Heidari, N., et al. [including **Chontos**, **A.**,], "HD207897 b: A Dense Sub-Neptune Transiting a Nearby and Bright K-type Star," *in review*. https://ui.adsabs.harvard.edu/abs/2021arXiv211008597H
- Saunders, N., et al. [including **Chontos, A.,**], "TESS Giants Transiting Giants I: A Non-inflated Hot Jupiter Orbiting a Massive Subgiant," *in review*. https://ui.adsabs.harvard.edu/abs/2021arXiv210802294S
- Winters, J. G., et al. [including **Chontos**, **A.**,], "A Second Planet Transiting LTT-1445A and a Determination of the Masses of Both Worlds," *in review*. Citations: 2 https://ui.adsabs.harvard.edu/abs/2021arXiv210714737W

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- Polanski, A. S., et al. [including **Chontos**, **A.**,], "Wolf 503 b: Characterization of a Sub-Neptune Orbiting a Metal-Poor K Dwarf," *in review*. https://ui.adsabs.harvard.edu/abs/2021arXiv210708092P
- MacDougall, M., et al. [including **Chontos, A.,**], "The TESS-Keck Survey. VI. Two Eccentric Sub-Neptunes Orbiting HIP-97166," *The Astronomical Journal, in press*. https://ui.adsabs.harvard.edu/abs/2021arXiv211005628M
- Mathur, S., et al. [including **Chontos**, **A.**,], "Detections of solar-like oscillations in dwarfs and subgiants with Kepler DR25 short-cadence data," *A&A*, *in press*. https://ui.adsabs.harvard.edu/abs/2021arXiv210914058M
- Lubin, J., et al. [including **Chontos, A.,**], "TESS-Keck Survey IX: Masses of Three Sub-Neptunes Orbiting HD 191939 and the Discovery of a Warm Jovian Plus a Distant Sub-Stellar Companion," *AJ, in press*. https://ui.adsabs.harvard.edu/abs/2021arXiv210802208L
- Scarsdale, N., et al. [including **Chontos**, **A.**,], "The TESS-Keck Survey. V. Twin Sub-Neptunes Transiting the Nearby G Star HD 63935," *AJ*, **162**, 215 (2021). https://ui.adsabs.harvard.edu/abs/2021arXiv210802294S
- Zhang, J., et al. [including **Chontos**, **A.**,], "Long-period Jovian Tilts the Orbits of Two sub-Neptunes Relative to Stellar Spin Axis in Kepler-129," *AJ*, **162**, 89 (2021). Citations: 3 https://ui.adsabs.harvard.edu/abs/2021AJ....162...89Z
- Llop-Sayson, J., et al. [including **Chontos, A.,**], "Constraining the Orbit and Mass of eps Eridani b with Radial Velocities, Hipparcos IAD-Gaia DR2 Astrometry, and Multi-epoch Vortex Coronagraphy Upper Limits," *AJ*, **162**, 181 (2021). Citations: 1 https://ui.adsabs.harvard.edu/abs/2021arXiv210802305L
- Dai, F., et al. [including **Chontos, A.,**], "TKS X: Confirmation of TOI-1444b and a Comparative Analysis of the Ultra-short-period Planets with Hot Neptunes," *AJ*, **162**, 62 (2021). Citations: 3 https://ui.adsabs.harvard.edu/abs/2021AJ....162...62D
- Fulton, B. J., et al. [including **Chontos, A.,**], "The California Legacy Survey. II. Occurrence of Giant Planets beyond the Ice Line," *ApJSS*, **255**, 14 (2021). Citations: 12 https://ui.adsabs.harvard.edu/abs/2021ApJS..255...14F
- Weiss, L. M., et al. [including **Chontos, A.,**], "The TESS-Keck Survey. II. An Ultra-short-period Rocky Planet and its Siblings Transiting the Galactic Thick-disk Star TOI-561," *AJ*, **161**, 56 (2021). Citations: 9
 - https://ui.adsabs.harvard.edu/abs/2021AJ....161...56W
- Kosiarek, M. R., et al. [including **Chontos, A.,**], "Physical Parameters of the Multiplanet Systems HD 106315 and GJ 9827," *AJ*, **161**, 47 (2021). Citations: 2 https://ui.adsabs.harvard.edu/abs/2021AJ....161...47K
- Dreizler, S., et al. [including **Chontos, A.,**], "The CARMENES search for exoplanets around M dwarfs. LP 714-47 b (TOI 442.01): populating the Neptune desert," *A&A*, **644**, 127 (2020). Citations: 7 https://ui.adsabs.harvard.edu/abs/2020A%26A...644A.127D
- Dai, F., et al. [including **Chontos, A.,**], "The TESS-Keck Survey. III. A Stellar Obliquity Measurement of TOI-1726 c," *AJ*, **160**, 193 (2020). Citations: 9 https://ui.adsabs.harvard.edu/abs/2020AJ....160..193D
- Demory, B. O., et al. [including **Chontos, A.,**], "A Super-Earth and a Sub-Neptune Orbiting the Bright, Quiet M3 Dwarf TOI-1266," *A&A*, **642**, 49 (2020). Citations: 19 https://ui.adsabs.harvard.edu/abs/2020A%26A...642A..49D
- Carleo, I., et al. [including **Chontos, A.,**], "The Multiplanet System TOI-421," *AJ*, **160**, 114 (2020). Citations: 10 https://ui.adsabs.harvard.edu/abs/2020AJ....160..114C
- Cloutier, R., et al. [including **Chontos, A.,**], "TOI-1235 b: A Keystone Super-Earth for Testing Radius Valley Emergence Models around Early M Dwarfs," *AJ*, **160**, 22 (2020). Citations: 14

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Dalba, P., et al. [including **Chontos, A.,**], "The TESS-Keck Survey. I. A Warm Sub-Saturn-mass Planet and a Caution about Stray Light in TESS Cameras," *AJ*, **159**, 241 (2020). Citations: 15 https://ui.adsabs.harvard.edu/abs/2020AJ....159...241D

Guo, X., et al. [including **Chontos, A.,**], "Updated Parameters and a New Transmission Spectrum of HD 97658b," *AJ*, **159**, 239 (2020). Citations: 24 https://ui.adsabs.harvard.edu/abs/2020AJ....159..239G

Pope, B. J. S., et al. [including **Chontos, A.,**], "The Kepler Smear Campaign: Light Curves for 102 Very Bright Stars," *ApJSS*, **244**, 18 (2019). Citations: 4 https://ui.adsabs.harvard.edu/abs/2019ApJS..244...18P

Becker, J. C., et al. [including **Chontos, A.,**], "A Discrete Set of Possible Transit Ephemerides for Two Long-period Gas Giants Orbiting HIP 41378," *AJ*, **157**, 19 (2019). Citations: 10 https://ui.adsabs.harvard.edu/abs/2019AJ....157...19B

REFERENCES

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