Ashley Chontos

Institute for Astronomy	achontos@hawaii.edu
2680 Woodlawn Drive	347-443-2505
Honolulu, HI 96822	ashleyin.space
EDUCATION	
Ph.D., Astronomy, University of Hawai'i at Mānoa Thesis: Precise Stellar and Planet Properties in the Kepler, K2 & Advisor: Daniel Huber	$(expected\ June\ 2022) \ TESS\ Era$
M.Sc., Astronomy, University of Hawai'i at Mānoa	2018
B.Sc., Mathematics, Summa Cum Laude, SUNY Albany Focuses: Statistics, Applied Mathematics	2016
Minor: Computer Science	2016
B.Sc., Physics, Summa Cum Laude, SUNY Albany PROFESSIONAL EMPLOYMENT	2010
NSF Graduate Research Fellow	2018-present
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 characteroscopy, precise radial velocities, software development, computation sequence planetary system dynamics and evolution, space telescope	ional astrophysics, post mair
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September 2018
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2016

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], [Universe 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

Teaching Assistant, ASTR 110: Lecture, University of Hawai'i

Teaching Assistant, ICSI 124X: Lecture, SUNY Albany

PI, 16 nights over 4 semesters using HIRES on Keck I 10m Telescope	2019-present
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-present
Observer, 5 nights on Gemini South/GPI through the GPI Exoplanet Survey	2015

PEER-REVIEWED PUBLICATIONS

Total publications: 41, with 4 as first author and 12 with significant contributions.

Total citations: 485, h-index=14 (updated January 17, 2022).

Bibliography: [NASA ADS] [ORCID]

First Author Publications:

Chontos, A., Sayeed, M. and Huber, D., "pySYD: Automated Measurements of Global Asteroseismic Parameters," *JOSS*, in review. [NASA ADS]

Chontos, A., et al., "The TESS-Keck Survey: Science Goals and Target Selection," in review (with favorable referee report). [NASA ADS]

2016

2013, 2014

- Chontos, A., Huber, D., Kjeldsen, H., et al., "TESS Asteroseismology of α Mensae: Benchmark Ages for a G7 Dwarf and its M-dwarf Companion," ApJ, 922, 229 (2021). [NASA ADS]
- Chontos, A., Huber, D., Latham, D., et al., "The Curious Case of KOI 4: Confirming Kepler's First Exoplanet Detection," AJ, 157, 192 (2019). [NASA ADS]

Significant Co-Author Publications:

- Grunblatt, S., Saunders, N., Sun, M., Chontos, A., et al., "TESS Giants Transiting Giants II: The hottest Jupiters orbiting evolved stars," in review. [NASA ADS]
- Rosenthal, L. J., et al. [including **Chontos**, **A.**,], "The California Legacy Survey. III. On The Shoulders of (Some) Giants: The Relationship between Inner Small Planets and Outer Massive Planets," in press. [NASA ADS]
- 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 π Men c," in press. [NASA ADS]
- 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). [NASA ADS]
- Guerrero et al. [including **Chontos**, **A.**,], "The TESS Objects of Interest Catalog from the TESS Prime Mission," *ApJSS*, **254**, 39 (2021). [NASA ADS]
- 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). [NASA ADS]
- 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). [NASA ADS]
- Lund, M., Knudstrup, E., Silva Aguierre, V., Basu, S., **Chontos, A.,** et al., "Asteroseismology of Multiplanet System K2-93," AJ, **158**, 248 (2019). [NASA ADS]
- 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). [NASA ADS]
- Huber, D., Chaplin, W., Chontos, A., et al., "A Hot Saturn Orbiting an Oscillating Late Subgiant Discovered by TESS," AJ, 157, 245 (2019). [NASA ADS]
- Grunblatt, S., et al. [including **Chontos**, **A.**,], "Do Close-in Giant Planets Orbiting Evolved Stars Prefer Eccentric Orbits?" *ApJL*, **861**, L5 (2018). [NASA ADS]
- 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). [NASA ADS]

Other Co-Author Publications:

- Dalba, P., et al. [including **Chontos**, **A.**,], "The TESS-Keck Survey. VIII. Confirmation of a Transiting Giant Planet on an Eccentric 261 day Orbit with the Automated Planet Finder Telescope," in review. [NASA ADS]
- Mohammed, E., et al. [including **Chontos**, **A.**,], "TOI 560: Two Transiting Planets Orbiting a K Dwarf Validated with iSHELL, PFS and HIRES RVs," in review. [NASA ADS]
- Heidari, N., et al. [including **Chontos**, **A.**,], "HD207897 b: A Dense Sub-Neptune Transiting a Nearby and Bright K-type Star," in review. [NASA ADS]

- Saunders, N., et al. [including **Chontos**, **A.**,], "TESS Giants Transiting Giants I: A Non-inflated Hot Jupiter Orbiting a Massive Subgiant," in review. [NASA ADS]
- 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. [NASA ADS]
- MacDougall, M., et al. [including **Chontos**, **A.**,], "The TESS-Keck Survey. VI. Two Eccentric Sub-Neptunes Orbiting HIP-97166," AJ, in press. [NASA ADS]
- 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. [NASA ADS]
- Mathur, S., et al. [including **Chontos**, **A.**,], "Detections of solar-like oscillations in dwarfs and subgiants with Kepler DR25 short-cadence data," $A \mathcal{B} A$, **657**, A31 (2022). [NASA ADS]
- Polanski, A. S., et al. [including **Chontos**, **A.**,], "Wolf 503 b: Characterization of a Sub-Neptune Orbiting a Metal-Poor K Dwarf," AJ, **162**, 238 (2021). [NASA ADS]
- 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). [NASA ADS]
- Llop-Sayson, J., et al. [including **Chontos**, **A.**,], "Constraining the Orbit and Mass of ϵ Eridani b with Radial Velocities, Hipparcos IAD-Gaia DR2 Astrometry, and Multi-epoch Vortex Coronagraphy Upper Limits," AJ, **162**, 181 (2021). [NASA ADS]
- Zhang, J., Weiss., L. M., Huber., D., Blunt, S., **Chontos, A.,** et al., "Long-period Jovian Tilts the Orbits of Two sub-Neptunes Relative to Stellar Spin Axis in Kepler-129," *AJ*, **162**, 89 (2021). [NASA ADS]
- 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). [NASA ADS]
- 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). [NASA ADS]
- 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). [NASA ADS]
- Kosiarek, M. R., et al. [including **Chontos**, **A.**,], "Physical Parameters of the Multiplanet Systems HD 106315 and GJ 9827," AJ, **161**, 47 (2021). [NASA ADS]
- 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**, A127 (2020). [NASA ADS]
- Dai, F., et al. [including **Chontos**, **A.**,], "The TESS-Keck Survey. III. A Stellar Obliquity Measurement of TOI-1726 c," AJ, 160, 193 (2020). [NASA ADS]
- 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**, A49 (2020). [NASA ADS]
- Carleo, I., et al. [including **Chontos**, **A.**,], "The Multiplanet System TOI-421," AJ, **160**, 114 (2020). [NASA ADS]
- 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). [NASA ADS]
- 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). [NASA ADS]

- Guo, X., et al. [including **Chontos**, **A.**,], "Updated Parameters and a New Transmission Spectrum of HD 97658b," AJ, **159**, 239 (2020). [NASA ADS]
- Pope, B. J. S., et al. [including **Chontos**, **A.**,], "The Kepler Smear Campaign: Light Curves for 102 Very Bright Stars," *ApJSS*, **244**, 18 (2019). [NASA ADS]
- 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). [NASA ADS]

REFERENCES

Dr. Daniel Huber

Professor of Astronomy University of Hawai'i at Mānoa 2680 Woodlawn Drive Honolulu, HI 96822 USA Phone: 808-956-8573

Email: huberd@hawaii.edu

Website: [ifa.hawaii.edu/~dhuber]

Dr. Sara Seager

Class of 1941 Professor of Planetary Science Professor of Aeronautics and Astronautics

Professor of Physics

Massachusetts Institute of Technology 54-1718 77 Massachusetts Avenue Cambridge, MA 02139 USA

Phone: 617-253-6775 Email: seager@mit.edu Website: [saraseager.com]

Dr. Andrew Howard

Professor of Astronomy California Institute of Technology 1200 East California Boulevard Pasadena, CA 91125 USA

Phone: 626-395-8747

Email: ahoward@caltech.edu

Website: [sites.astro.caltech.edu/~howard]

Dr. Stephen Kane

Director of the Planetary Research Laboratory

Professor of Planetary Astrophysics Professor of Physics and Astronomy University of California, Riverside

900 University Avenue Riverside, CA 92521 USA Phone: 951-827-6593

Email: skane@ucr.edu Website: [stephenkane.net]