

ASHLEY CHONTOS

[ashleyin.space]

2680 Woodlawn Drive
Honolulu, HI 96822

achontos@hawaii.edu
347-443-2505

EDUCATION

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

PROFESSIONAL EMPLOYMENT

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 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 (<i>invited</i>)	September 2021
Carnegie EPL Astronomy Seminar (<i>invited</i>)	September 2021
TESS Science Talk, MIT (<i>invited</i>)	September 2021
Keck Science Meeting	September 2021
TESS SciCon II	August 2021
The Good Vibrations Seminar (<i>invited</i>)	February 2021
TESS Science Team Meeting	October 2020
Yale Exoplanets & Stars Seminar (<i>invited</i>)	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 (<i>invited</i>)	September 2018
TASC4, Aarhus, Denmark	July 2018
Columbia University Astronomy Seminar (<i>invited</i>)	October 2017

TEACHING, SERVICE & LEADERSHIP

<i>Mentor</i> for high school students through HI STAR, Oahu, HI and Maui, HI	2017 – <i>present</i>
<i>Astronomy Graduate Outreach Coordinator & Volunteer</i>	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
<i>Teaching Assistant</i> , ASTR 110: Lab, University of Hawai'i at Mānoa	2016
<i>Teaching Assistant</i> , ASTR 110: Lecture, University of Hawai'i at Mānoa	2016
<i>Teaching Assistant</i> , 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

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

SELECTED PEER-REVIEWED PUBLICATIONS

[NASA ADS] 36 total: 4 first author and 10 with significant contributions, h-index=12, total citations~359

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/2021tsc2.confE.189C/abstract>

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/abstract>

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/abstract>

Guerrero et al. [including **Chontos, A.**], “The TESS Objects of Interest Catalog from the TESS Prime Mission,” *ApJSS*, **254**, 39 (2021). Citations: 18

<https://ui.adsabs.harvard.edu/abs/2021ApJS..254...39G/abstract>

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/abstract>

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/abstract>

REFERENCES

Dr. Daniel Huber

Professor of Astronomy

University of Hawai’i at Mānoa

2680 Woodlawn Drive

Honolulu, HI 96822 USA

Phone: +1 (808) 956 – 8573

Email: huberd@hawaii.edu

Website: ifa.hawaii.edu/~dhuber

Dr. Andrew Howard

Professor of Astronomy

California Institute of Technology

1200 East California Boulevard

Pasadena, CA 91125 USA

Phone: +1 (626) 395 – 8747

Email: ahoward@caltech.edu

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

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: +1 (617) 253 – 6775

Email: seager@mit.edu

Website: saraseager.com

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: +1 (951) 827 – 6593

Email: skane@ucr.edu

Website: stephenkane.net