

## Samuel K. Grunblatt

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EMPLOYMENT	<b>Johns Hopkins University</b> , Baltimore, MD Assistant Research Scientist, Department of Physics and Astronomy, 2022– <b>American Museum of Natural History/Flatiron Institute</b> , New York, NY Kalbfleisch Fellow, Department of Astrophysics, 2019–2022 Guest Researcher, Center for Computational Astrophysics, 2019–2023	
EDUCATION	<b>University of Hawaii–Manoa</b> , Honolulu, HI Ph.D., Astronomy, August 2019 M.S., Astronomy, Dec 2015 <b>Columbia University</b> , New York, NY B.A., Astrophysics, May 2013	
RECENT GRANTS, AWARDS AND TELESCOPE TIME	TESS’s Ear on the Metal-Poor Milky Way, <b>\$70,000, Co-I</b> May 2022 Planetary Archaeology:..., NASA-Keck I/HIRES, <b>5n, \$55,662, PI</b> 2021A– Planetary Archaeology:..., <i>TESS</i> Space Telescope, <b>\$70,000, PI</b> May 2021 Constraining Orbits of Hot Jupiters Around Evolved Stars, TESS DDT, <b>PI</b> Feb 2021 Planetary Archaeology:..., <i>TESS</i> Space Telescope, <b>\$50,000, PI</b> Jun 2020 Measuring Long Rotation..., <i>TESS</i> Space Telescope, <b>\$200,000, Co-I</b> Jun 2020 RV Follow-up..., SALT/HRS, <b>2n, PI</b> Nov 2019– Planetary Archaeology:..., <i>TESS</i> Space Telescope, <b>\$50,000, Science PI</b> Jun 2019 Measuring Long Rotation..., <i>TESS</i> Space Telescope, <b>\$200,000, Co-I</b> Jun 2019 A Search for Giants Orbiting Giants With K2, Keck I/HIRES, <b>7n, PI</b> 2016–2019 A Search for Giants Orbiting Giants With K2, UH88/SNIFS, <b>21n, PI</b> 2016–2019 Giants Orbiting Giants:..., <i>Kepler</i> Space Telescope, <b>10000+ targets, Co-I</b> 2016–2019 A Search for Giants Orbiting Giants With K2, IRTF/SpeX, <b>9n, PI</b> 2016–2018 UH–Manoa Student Excellence in Research Award, Honolulu, HI Apr 2018 Measuring Precise Radii of Giants..., NASA Spitzer Space Telescope, <b>37.4h, PI</b> 2017	
PUBLICATION SUMMARY	23 publications in peer-reviewed journals (7 1st-author, 2 2nd-author) 263 first-author citations, 483 total citations, h-index=12, 1st-author h-index=6 My full bibliography is available on <a href="#">NASA ADS</a> .	
RECENT INVITED CONFERENCE TALKS AND SEMINARS	Dept. of Physics & Astronomy Seminar, Johns Hopkins University Oct 2022 Exoplanets Seminar, The Ohio State University May 2022 Astronomy Seminar, Carnegie Earth and Planets Laboratory Nov 2021 Tea Talk Seminar, Caltech Dept. of Astronomy Oct 2021 Monday Science Seminar, U. Wisconsin Dept. of Astronomy Nov 2020 AMNH Astrophysics Dept. Seminar, New York, NY Oct 2019 NYU CCPP Seminar, New York, NY Sep 2019 Harvard-Smithsonian CfA Stars & Planets Seminar, Cambridge, MA Nov 2018 Yale Astronomy Postdoctoral Fellows Seminar, New Haven, CT Nov 2018 Pennsylvania State University CEHW Seminar, State College, PA Nov 2018	

RECENT CONTRIBUTED TALKS AND SEMINARS	TASC 6/KASC 13 Meeting, KU Leuven	Jul 2022
	Exoplanets IV, Henderson, NV	May 2022
	AAS Division of Dynamical Astronomy Meeting, New York, NY	Apr 2022
	Keck Science Meeting, La Jolla, CA	Sep 2021
	TESS Science Conference II	Aug 2021
	Haiku, Cool Stars 20.5	Mar 2021
	Open Engagement A, Habitable Worlds Conference, AAS/NexSci	Feb 2021
	Exoplanet Demographics Conference, NExSci, IPAC/Caltech	Nov 2020
SELECTED PRESS	“This Fiery Jupiter-Sized World...,” <a href="https://www.inverse.com">inverse.com</a>	Jan 2022
	“When Giant Planes Orbit Evolved Stars,” <a href="#">AAS Nova</a>	Jul 2018
	“How Old Stars Make Hot Jupiter Exoplanets So Huge,” <a href="#">IB Times</a>	Nov 2017
	“Puffed-up exoplanets inflate with heat from their stars alone,” <a href="#">New Scientist</a>	Sep 2016
	“New Step Toward Finding Earth 2.0,” <a href="#">EOS</a>	Jan 2016
TEACHING AND MENTORING EXPERIENCE	<b>Postgraduate</b>	
	Advisor to N. Saunders, PhD/MSc, UH–Manoa (NSF Graduate Fellow)	Sep 2019–
	Co-Advisor to F. Pereira, PhD, U. Porto, Portugal	Sep 2019–Dec 2021
	<b>Undergraduate</b>	
	Advisor to S. Gary, NSF REU, AMNH (now graduate student at OSU)	Jun 2020–
	Advisor to S. Yoshida, ISEF/JSJS (now undergraduate at Harvard)	Jun 2017–
PROFESSIONAL SERVICE AND OUTREACH	Mid-Hudson Amateur Astronomers Talk	Oct 2021
	TESS Science Conference II Splinter Session Lead Organizer	Aug 2021
	Proposal Reviewer for the Czech Science Foundation	2020–
	Seminar Organizing Committee, American Museum of Natural History	Fall 2019–
	Lead Co-Organizer, CCA Stars and Exoplanets Meeting	Fall 2019–
	Referee for <i>A&amp;A</i> , <i>AJ</i> , <i>ApJ</i> , <i>ApJL</i> , <i>ApJS</i> , <i>PASJ</i> , <i>MNRAS</i>	2016–
	Time Allocation Committee, Institute for Astronomy	2017–2018
	American Astronomical Society Member	2015–
REFERENCES	Daniel Huber	
	Associate Professor	Phone: 808-956-8573
	Institute for Astronomy	E-mail: <a href="mailto:huberd@hawaii.edu">huberd@hawaii.edu</a>
	University of Hawaii–Manoa	
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	California Institute of Technology	

1. Pereira, F., **Grunblatt, S.**, Psaridi, A., et al. “Giants Transiting Giants V: Two hot Jupiter systems around evolved stars in the southern ecliptic hemisphere,” *MNRAS*, *in prep.*.
2. **Grunblatt, S.**, Saunders, N., Huber D., et al. “Giants Transiting Giants IV: The hottest evolved Neptune,” *AAS Journals*, *to be submitted*.
3. **Grunblatt, S.**, Saunders, N., Chontos, A., Hattori, S., Veras, D., et al. “Giants Transiting Giants III: An eccentric warm Jupiter supports a period-eccentricity relation for giant planets transiting evolved stars,” *AAS Journals*, *submitted*.
4. † Yoshida, S., **Grunblatt, S.**, & Price-Whelan, A. “Determining the Detectability of Planets Transiting Stars of Extragalactic Origin,” *AJ*, 164, 119, 2022.
5. **Grunblatt, S.**, Saunders, N., Sun, M., Chontos, A., Soares-Furtado, M., et al. “TESS Giants Transiting Giants II: The hottest Jupiters orbiting evolved stars,” *AJ*, 163, 120, 2022. [4 citations]
6. † Saunders, N., **Grunblatt, S.**, Huber, D., Collins, K., Brahm, R. et al. “TESS Giants Transiting Giants I: A Non-inflated Hot Jupiter Orbiting a Massive Subgiant,” *AJ*, 163, 53, 2022. [4 citations]
7. **Grunblatt, S.**, Zinn, J., Price-Whelan, A., Angus, R., Saunders, N., et al. “Age-Dating Red Giant Stars Associated with Galactic Disk and Halo Substructures,” *ApJ*, 916, 88, 2021. [9 citations]
8. † Yoshida, S., **Grunblatt, S.**, Hermes, J., Armstrong, J., Coughlin, J. et al. “Eclipsing Binary and White Dwarf Features Associated with K2 Target EPIC251248385,” *RNAAS*, 3, 174, 2019.
9. **Grunblatt, S.**, Huber, D., Gaidos, E., Hon, M., Zinn, J., et al. “Giant planet occurrence within 0.2 AU of low-luminosity red giant branch stars with K2,” *AJ*, 158, 227, 2019. [21 citations]
10. **Grunblatt, S.**, Huber, D., Gaidos, E., Lopez, E., Barclay, T., et al. “Do close-in giant planets orbiting evolved stars prefer eccentric orbits?,” *ApJL*, 861, L5, 2018. [19 citations]
11. **Grunblatt, S.**, Huber, D., Gaidos, E., Lopez, E., Howard, A., et al. “Seeing double with K2: Testing re-inflation with two remarkably similar planets around red giant branch stars,” *AJ*, 154, 254, 2017. [48 citations]
12. **Grunblatt, S.**, Huber, D., Gaidos, E., Lopez, E., Fulton, B., et al. “K2-97b: A (Re-?)Inflated Planet Orbiting a Red Giant Star,” *AJ*, 152, 185, 2016. [57 citations]
13. **Grunblatt, S.**, Howard, A., & Haywood, R. “Determining the Mass of Kepler-78b With Nonparametric Gaussian Process Estimation,” *ApJ*, 808, 127, 2015. [105 citations]

1. Tayar, J., Moyano, F., Soares-Furtado, M., Escorza, A., Joyce, M., et al. including **Grunblatt, S.** “Spinning up the Surface: Evidence for Planetary Engulfment or Unexpected Angular Momentum Transport?” *AAS Journals*, *accepted*.
2. Stello, D., Saunders, N., **Grunblatt, S.**, Hon, M., Reyes, C., et al. “TESS asteroseismology of the Kepler red giants,” *MNRAS*, 476, 536, 2022. [13 citations]
3. Gaidos, E., Hirano, T., Kraus, A.L., Kuzuhara, M., Zhang, Z., et al. including **Grunblatt, S.** “Zodiacal Exoplanets in Time (ZEIT) XII: A Directly-Imaged Planetary-Mass Companion to a Young Taurus M Dwarf Star,” *MNRAS*, 3069, 2819, 2021.
4. Murphy, J., Kosiarek, M., Batalha, N., Gonzales, E., Isaacson, H., including **Grunblatt, S.** “Another super-dense sub-Neptune in K2-182 b and refined mass measurements for K2-199 b and c,” *AJ*, 162, 294, 2021.
5. Polanski, A., Crossfield, I., Burt, J., Nowak, G., Lopez-Morales, M., including **Grunblatt, S.** “Wolf 503 b: Characterization of a Sub-Neptune Orbiting a Metal-Poor K Dwarf,” *AJ*, 162, 238, 2021.
6. Zhang, J., Weiss, L., Huber, D., Blunt, S., Chontos, A., et al. including **Grunblatt, S.** “A Long-Period Giant Planet Causes Inner Planets to be Misaligned with the Host Star in Kepler-129 System,” *AJ*, 162, 89, 2021. [6 citations]
7. David, T., Contardo, G., Sandoval, A., Angus, R., Lu, Y., et al. including **Grunblatt, S.** “Evolution of the Exoplanet Size Distribution: Forming Super-Earths Over Billions of Years,” *AJ*, 161, 265, 2021. [24 citations]
8. Kosiarek, M., Berardo, D., Crossfield, I., Laguna, C., Akana Murphy, J., et al. including **Grunblatt, S.** “Physical Parameters of the Multi-Planet Systems HD 106315 and GJ 9827,” *AJ*, 161, 47, 2021. [3 citations]
9. Lu, Y., Angus, R., Agueros, M., Blancato, K., Ness, M., et al. including **Grunblatt, S.** “Astraea: Predicting Long Rotation Periods with 27 Day Light Curves,” *AJ*, 160, 168, 2020. [9 citations]
10. Huber, D., Chaplin, W. J., Chontos, A., Kjeldsen, H., Christensen-Dalsgaard, J., et al. including **Grunblatt, S.** “A hot Saturn orbiting an oscillating late subgiant discovered by TESS,” *AJ*, 157, 245, 2019. [61 citations]
11. White, T. R., Huber, D., Mann, A. W., Casagrande, L., **Grunblatt, S. K.**, et al. “Interferometric diameters of five evolved intermediate-mass planet-hosting stars measured with PAVO at the CHARA Array,” *MNRAS*, 447, 4, 2018. [37 citations]
12. North, T., Campante, T., Miglio, A., Davies, G., **Grunblatt, S.**, et al. “Weighing in on the masses of retired A stars with asteroseismology. Kepler and K2 observations of exoplanet hosts,” *MNRAS*, 472, 1866, 2017. [24 citations]
13. Fulton, J., Howard, A., Weiss, L., Sinukoff, E., Petigura, E., et al. including **Grunblatt, S.** “Three Temperate Neptunes Orbiting Nearby Stars,” *ApJ*, 830, 46, 2016. [20 citations]
14. Younes, G., Kouveliotou, C., van der Horst, A.J., Baring, M. G., Granot, J. et al. including **Grunblatt, S.** “Time resolved spectroscopy of SGR J1550-5418 bursts detected with Fermi/GBM,” *ApJ*, 785, 52, 2014. [23 citations]