

Samuel K. Grunblatt

CONTACT INFORMATION	Department of Astrophysics, Office 18-5-06 American Museum of Natural History skgrunblatt.github.io	212-313-7911 sgrunblatt@amnh.org
EMPLOYMENT	American Museum of Natural History , New York, NY Kalbfleisch Fellow, Department of Astrophysics, 2019–2022 Flatiron Institute, Simons Foundation , New York, NY Visiting Scholar, Center for Computational Astrophysics, 2019–2022	
EDUCATION	University of Hawaii–Manoa , Honolulu, HI Ph.D., Astronomy, August 2019 Thesis: <i>Giant Planets Transiting Giant Stars</i> Advisor: Daniel Huber Columbia University , New York, NY B.A., Astrophysics, May 2013	
RECENT GRANTS, AWARDS AND TELESCOPE TIME	Planetary Archaeology:..., NASA-Keck Followup Program, 1.5n, \$23,175, PI 2021A/B Planetary Archaeology:..., <i>TESS</i> Space Telescope, \$70,000, PI May 2021 Constraining Orbits of Hot Jupiters Around Evolved Stars, <i>TESS</i> DDT, PI Feb 2021 Planetary Archaeology:..., <i>TESS</i> Space Telescope, \$50,000, PI Jun 2020 Measuring Long Rotation..., <i>TESS</i> Space Telescope, \$200,000, Co-I Jun 2020 RV Follow-up..., SALT/HRS, 1.5n, PI Nov 2019– Planetary Archaeology:..., <i>TESS</i> Space Telescope, \$50,000, Science PI Jun 2019 Measuring Long Rotation..., <i>TESS</i> Space Telescope, \$200,000, Co-I Jun 2019 A Search for Giants Orbiting Giants With K2, Keck I/HIRES, 7n, PI 2016–2019 A Search for Giants Orbiting Giants With K2, UH88/SNIFS, 21n, PI 2016–2019 Giants Orbiting Giants:..., <i>Kepler</i> Space Telescope, 10000+ targets, Co-I 2016–2019 A Search for Giants Orbiting Giants With K2, IRTF/SpeX, 9n, PI 2016–2018 Compositions and Architectures of Planets Orbiting..., Keck I/HIRES, 6n, Co-I 2018 Solving the Mystery of Hot Jupiter Inflation..., <i>K2</i> NASA Mission, Co-I Apr 2018 UH–Manoa Student Excellence in Research Award, Honolulu, HI Apr 2018 Measuring Precise Radii of Giants..., NASA Spitzer Space Telescope, 37.4h, PI 2017	
RECENT INVITED CONFERENCE TALKS AND SEMINARS	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 University of Tokyo Astronomy Department, Tokyo, Japan Mar 2018	
TEACHING AND MENTORING EXPERIENCE	Postgraduate Advisor to N. Saunders, PhD/MSc, UH–Manoa (NSF Graduate Fellow) Sep 2019– Co-Advisor to F. Pereira, PhD, U. Porto, Portugal Sep 2019–	

Undergraduate

Advisor to S. Gary, NSF REU, AMNH Jun 2020–
Advisor to S. Yoshida, ISEF/JSBS (now undergraduate at Harvard College) Jun 2017–

Curriculum Designer, Astronomy Lab for Undergraduates, UH–Manoa Fall 2015/6

PROFESSIONAL SERVICE

TESS Science Conference II Splinter Session Lead Organizer Aug 2021
Proposal Reviewer for the Czech Science Foundation 2020–
Referee for *Publications of the Astronomical Society of Japan* 2020–
Seminar Organizing Committee, American Museum of Natural History Fall 2019–
Referee for *The Astrophysical Journal* 2019–
Referee for *The Astrophysical Journal Letters* 2018–
Referee for *Astronomy & Astrophysics* 2016–
Time Allocation Committee, Institute for Astronomy 2017–2018
American Astronomical Society Member 2015–

REFERENCES

Daniel Huber
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Andrew Howard
Professor of Astronomy Phone: 626-395-8747
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California Institute of Technology

FIRST AUTHOR REFEREED JOURNAL PUBLICATIONS

1. **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*, *accepted*.
2. **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. [13 citations]
3. **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. [13 citations]
4. **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. [34 citations]
5. **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. [50 citations]
6. **Grunblatt, S.**, Howard, A., & Haywood, R. “Determining the Mass of Kepler-78b With Nonparametric Gaussian Process Estimation,” *ApJ*, 808, 127, 2015. [81 citations]

1. Saunders, N., **Grunblatt, S.**, Huber, D., Collins, K., Brahm, R. et al. “Uncovering a Treasure Trove of TESS Planets Around Faint Stars: A Non-inflated Hot Jupiter Orbiting a Massive Subgiant,” *AAS Journals*, *submitted*.
2. Stello, D., Saunders, N., **Grunblatt, S.**, Hon, M., Reyes, C., et al. “TESS asteroseismology of the Kepler red giants,” *MNRAS*, *submitted*.
3. 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*, *accepted*.
4. 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*, *accepted*.
5. 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. [8 citations]
6. 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. [1 citation]
7. 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. [4 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. 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. [44 citations]
10. 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. [25 citations]
11. 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. [22 citations]
12. 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. [15 citations]
13. 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. [21 citations]