

Benjamin James (BJ) Fulton

NASA Exoplanet Science Institute / IPAC-Caltech
Research Scientist / NN-EXPLORE Project Scientist

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Research Interests

I strive to understand Earth's context in the galaxy through the detection, characterization, and demography of exoplanets. I push the radial velocity detection method to the limit through advanced analysis techniques, observational strategies, and hardware optimization.

Education

- 2017 - Doctor of Philosophy in Astronomy from the Institute for Astronomy at the University of Hawaii, Manoa
- 2014 - Master of Science in Astronomy from the Institute for Astronomy at the University of Hawaii, Manoa
- 2009 - Bachelor of Science in Physics with a Minor in Astronomy and Planetary Science from the University of California, Santa Barbara

Professional Appointments

Research Scientist / NN-EXPLORE Project Scientist	NASA Exoplanet Science Institute / Caltech / JPL	April 2018 – present
Texaco Postdoctoral Fellow	California Institute of Technology	August 2017 – April 2018
National Science Foundation Graduate Research Fellow	Institute for Astronomy, University of Hawaii	August 2014 – August 2017
Graduate Research Assistant	Institute for Astronomy, University of Hawaii	August 2012 – August 2014
Research Associate (Astronomy)	Las Cumbres Observatory	March 2009 - August 2012

Publication statistics

- **10 first author & major contributions in 8 second author refereed publications**
- 227 total refereed publications
- Contributions to 4 *Nature* publications
- 13,041 citations (2185 citations to first-author papers)
- h-index = 57

Research Experience

- Lead for the Keck Planet Finder (KPF) data reduction pipeline that will be an open-source toolkit to convert high-resolution optical spectra into extremely precise RVs for and other similar instruments
- Directed a study to analyze over 30 years of radial velocity data to determine the frequency of giant planets beyond 5 au ([Fulton et al. 2021](#)).
- Discovered a gap in the radius distribution of small planets found by *Kepler*. This has significant implications for our understanding of the formation and evolution of planets smaller than Neptune ([Fulton et al. 2017](#))
- Served as project scientist for the [NN-EXPLORE program](#), primarily overseeing the development of the pipeline and archive for the [NEID spectrograph](#)
- Developed an open source software package for the analysis of radial velocity time-series data written in object-oriented Python (radvel.readthedocs.io)
- Wrote software that allows the Automated Planet Finder (APF) telescope at Lick Observatory to operate autonomously. APF has been collecting high-precision radial velocities every night for the past 9 years.
- Development of the "Jump" target management database and web application used by the California Planet Search team, which honed my skills in Django, Javascript, CSS, Haml, and Docker (jump.caltech.edu)
- Developed a new technique to extract radial velocities from low signal-to-noise spectra which enabled the discovery of the Jupiter-size transiting exoplanet KELT-8b ([Fulton et al. 2015b](#))
- Published [Fulton et al. 2015a](#), and [Fulton et al. 2016](#) announcing the discovery of 5 new low-mass planets orbiting four nearby stars. These discoveries were made possible, in large part, by the APF facility.
- Published a paper ([Fulton et al. 2013](#)) for which I modeled the Rossiter-McLaughlin (R-M) effect to measure the stellar obliquity of HAT-P-17. I ported/adapted an existing Differential Evolution Markov Chain Monte Carlo code from IDL to Python, and wrote the model calculation code from scratch to take advantage of a new semi-analytical model of the R-M effect.
- Developed an automated planet detection algorithm to search for the signatures of planets in heterogeneous radial velocity datasets and characterize pipeline detection efficiency using injection-recovery tests ([Howard & Fulton 2016](#))

Academic Awards

- 2018 - Robert J. Trumpler award from the Astronomical Society of the Pacific for a PhD thesis considered particularly important to astronomy
- 2017 - Texaco prize postdoctoral fellowship at Caltech
- 2016 - ARCS Foundation Honolulu Scholar of the Year
- 2016 - Columbia ARCS Award in Astronomy
- 2015 - Student Excellence in Research Award at the University of Hawaii at Manoa
- 2014 - National Science Foundation Graduate Research Fellowship
- 2009 - Physics Research Honors award upon graduation from UC Santa Barbara

Student Mentoring

- **Spencer Hurt, Harvard Undergraduate (2019-2023)**
Spencer contributed greatly to the RadVel Python package by optimizing it for speed, documentation, and modularity to ease community contributions. He is now applying it to the Gl 411 system to perform a detailed characterization of the system of planets orbiting the 4th closest star to the sun ([Hurt et al. 2021](#))
- **Cayla Dedrick, Caltech Undergraduate (2018-2022)**
Cayla adapted and improved upon my algorithm for automated detection of planets in radial velocity data and used it to discover two planets straddling the habitable zone of a nearby star ([Dedrick et al. 2021](#))
- **Lee Rosenthal, Caltech PhD Candidate (2018-present)**
Lee expanded on the automated planet detection code developed by Cayla Dedrick and turned it into a publicly available open-source Python package. He used this to discover ~25 new planets in Keck/HIRES radial velocity data as part of a large program to measure the demographic properties of long-period gas giant planets. I'm currently serving as co-advisor with Andrew Howard. ([Rosenthal et al. 2021](#), [Fulton et al. 2021](#), and [code release](#))
- **Ilya Sherstyuk, Caltech Undergraduate (Summer 2019)**
Ilya developed an algorithm to analyze stellar activity indicators to distinguish between planets and stellar rotation signatures in radial velocity datasets

Teaching Experience

- 2020 - Designed and helped to build and instruct the hands-on activities for the online 2020 Sagan Summer Workshop
- 2015 - Designed curriculum and instructed "Introduction to Astronomy" summer course at the University of Hawaii at Manoa
- 2015 - Designed and lead a "Python for Astronomers" seminar at the University of Hawaii
- 2012-2015 - Lectured and advised students during the annual HiSTAR program for K-12 students in Hawaii

Invited Talks

- 2021 - Seminar speaker at Princeton (virtual)
- 2021 - Seminar speaker at MPIA in Heidelberg, Germany (virtual)
- 2021 - Invited speaker at the Sagan Summer Workshop in Pasadena, CA (virtual)
- 2020 - Colloquium speaker at University of Chicago in Illinois
- 2019 - Colloquium speaker at Stanford, CA
- 2019 - Review speaker for the Greater IPAC Science Symposium in Pasadena, CA
- 2018 - Colloquium speaker at Lowell Observatory in Flagstaff, Arizona
- 2018 - Center for Space and Habitability Colloquium speaker at Universität, Bern, Switzerland
- 2018 - Planetary Science / IPLEX seminar speaker at the University of California, Los Angeles
- 2017 - Panelist on occurrence rate panel at the ExoPAG16 meeting
- 2017 - FLASH seminar speaker at the University of California at Santa Cruz
- 2016 - Seminar speaker at the Center for Habitable Worlds at Penn State University
- 2013 - Public talk at a conference of The American Congress of Obstetricians and Gynecologists

Conferences and Meetings

- 2023 - Contributed talk at Extreme Precision Radial Velocity Conference
 - 2020 - Contributed talk at the Exoplanets III virtual conference
 - 2020 - Served on the Science Advisory Committee for the online 2020 Sagan Summer Workshop
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- 2019 - Contributed talk at the Extreme Solar Systems conference in Reykjavik, Iceland
- 2019 - Contributed talk at the Extreme Precision Radial Velocity Conference in Grindelwald, Switzerland
- 2019 - Contributed talk at the Kepler and K2 Science Meeting in Pasadena, California
- 2019 - Attended the Telluric Hackathon in New York City, New York
- 2018 - Contributed talk at the Keck Science Meeting in Pasadena, California
- 2018 - Contributed talk at the ExSoCal 2018 conference in Pasadena, California
- 2018 - Contributed talk at the Exoplanets II conference in Cambridge, UK
- 2017 - Co-Chair of “observing strategy” session at the Extremely Precise Radial Velocities III conference at Penn State
- 2017 - Poster at the Extremely Precise Radial Velocities III conference at Penn State
- 2017 - Contributed talk at the Kepler & K2 SciCon IV
- 2017 - Contributed talk at the 2017 Aspen Winter Conference: Formation and Dynamical Evolution of Exoplanets
- 2016 - Poster at the Exoplanets I conference in Davos, Switzerland
- 2015 - Poster at the Extreme Solar Systems III conference in Waikaloa, HI
- 2015 - Poster at the Sagan Workshop in Pasadena, CA
- 2015 - Poster at the Extreme Precision Radial Velocity workshop in New Haven, CT
- 2014 - Poster at the Toward Other Earths II conference in Porto, Portugal
- 2014 - Poster at the Sagan Workshop in Pasadena, CA
- 2014 - Poster at the Exoplanetary Science conference in Quy Nhon, Vietnam
- 2013 - Poster at the Kepler Science Conference II in Mountain View, CA
- 2013 - Poster at the American Astronomical Society Winter Meeting in Long Beach, CA

Observing Experience

- ~100 full or partial nights using the HIRES instrument on the Keck I telescope located on Maunakea
- ~800 nights on the Automated Planet Finder Telescope at Lick Observatory (mostly robotic running on my software)
- Approximately 20 nights using the OPTIC imager on the University of Hawaii 2.2 m telescope located on Maunakea
- Approximately 7 nights on the Nickel 1.0 m at Lick Observatory
- Approximately 180 nights on the Sedgwick telescope of the Las Cumbres Observatory network (mostly robotic running on my software)

Proposals

- 2021 - ROSES EPRV – Astrophysical and Heliophysical Perspectives of the Sun as a Star – not selected

Hobbies and Interests

- Motorsports
 - 2020 - 3rd in the Porsche Owners Club Sim Racing Championship
 - 2018 - SCCA San Diego Match Tour STU class win
 - 2016 - 2018 - SCCA regional STU class champion
- Digital photography, including astrophotography (Astronomy Picture of the Day, 08/26/2011 <http://apod.nasa.gov/apod/ap110826.html>)

Publication List

First Author

- **Fulton, B.J.** et al. (2021); *California Legacy Survey. II. Occurrence of Giant Planets beyond the Ice Line*, ApJS, 255, 14, ([2021ApJS...255...14F](#))
- **Fulton, B.J.** et al. (2018); *The California Kepler Survey VII. Precise Planet Radii Leveraging Gaia DR2 Reveal the Stellar Mass Dependence of the Planet Radius Gap*, AJ, 156, 264, ([2018AJ....156..264F](#))
- **Fulton, B.J.** et al. (2018); *RadVel: The Radial Velocity Modeling Toolkit*, PASP, 130, 986, ([2018PASP..130d4504F](#))
- **Fulton, B.J.** et al. (2017); *The California-Kepler Survey. III. A Gap in the Radius Distribution of Small Planets*, AJ, 154, 109 ([2017AJ....154..109F](#))
- **Fulton, B.J.** et al. (2016); *Three Temperate Neptunes Orbiting Nearby Stars*, ApJ, 830, 46 ([2015ApJ...830...1F](#))
- **Fulton, B.J.** et al. (2015b); *KELT-8b: A Highly Inflated Transiting Hot Jupiter and a New Technique for Extracting High-precision Radial Velocities from Noisy Spectra*, ApJ, 810, 30 ([2015ApJ...810...30F](#))
- **Fulton, B.J.** et al. (2015a); *Three Planets Orbing HD 7924*, ApJ, 805, 175 ([2015ApJ...805..175F](#))

- **Fulton, B.J.** et al. (2014); *A Search for Planetary Eclipses of White Dwarfs in the Pan-STARRS1 Medium-deep Fields*, ApJ, 796, 114 ([2014ApJ...796..114F](#))
- **Fulton, B.J.** et al. (2013); *The Stellar Obliquity and the Long-period planet in the HAT-P-17 Exoplanetary System*, ApJ, 772, 80 ([2013ApJ...772...80F](#))
- **Fulton, B.J.** et al (2011); *Long-term Transit Timing Monitoring and Refined Light Curve Parameters of HAT-P-13b*, 2011, AJ, 142, 84 ([2011AJ....142...84F](#))

Major Contributions

- Hurt, S, **Fulton, B.J.**, et al. (2022); *Confirmation of the Long-period Planet Orbiting Gliese 411 and the Detection of a New Planet Candidate*, AJ, 163, 218H ([2022AJ....163..218H](#)) – Mentored lead author and directed study from the onset
- Rosenthal, L, **Fulton, B.J.**, et al. (2021); *The California Legacy Survey. I. A Catalog of 178 Planets from Precision Radial Velocity Monitoring of 719 Nearby Stars over Three Decades*, ApJS, 255, 8R ([2021ApJS..255....8R](#)) – Mentored lead author and directed study from the onset
- Dedrick, C, **Fulton, B. J.**, et al. (2021); *Two Planets Straddling the Habitable Zone of the Nearby K Dwarf Gl 414A*, AJ, 161, 86D ([2021AJ....161...86D](#)) – Mentored lead author throughout the study
- Dalba, P., **Fulton, B. J.**, et al. (2020); *Multiple Explanations for the Single Transit of KIC 5951458 Based on Radial Velocity Measurements Extracted with a Novel Matched-Template Technique*, AJ, 160, 149D ([2020AJ....160..149D](#)) – Developed the matched template technique for extracting radial velocities
- Howard, A. W., and **Fulton, B. J.** (2016); *Limits on Planetary Companions from Doppler Surveys of Nearby Stars*, PASP, 128, 969, ([2016PASP..128k4401H](#)) - Performed all analysis, produced all plots, and wrote most of the methods section
- Street, R. A., **Fulton, B. J.** et al (2015); *Extended Baseline Photometry of Rapidly Changing Weather Patterns on the Brown Dwarf Binary Luhman-16*, ApJ, 812, 161, ([2015ApJ...812..161S](#)) – Extracted the photometry in an initial reduction (the photometry was eventually superseded in the referee process)
- Knutson, H., **Fulton, B. J.** et al (2014); *Friends of Hot Jupiters. I. A Radial Velocity Search for Massive, Long-period Companions to Close-in Gas Giant Planets*, ApJ, 785, 126, ([2014ApJ...785..126K](#)) – Performed all radial velocity analysis, and wrote some of the methods section
- Sinukoff, E.; **Fulton, B. J.**; Scuderi, L.; Gaidos, E. (2013); *Below One Earth The Detection, Formation, and Properties of Subterrestrial Worlds*, Space Science Reviews, 10.1007 (<http://dx.doi.org/10.1007/s11214-013-0019-1>) – Performed analysis and wrote text for one of the major sections of the paper involving Kepler photometry

High Impact Journals

- Benneke et al. (2019); *A sub-Neptune exoplanet with a low-metallicity methane-depleted atmosphere and Mie-scattering clouds*, Nature Astronomy, Volume 3, Issue 813B ([2019NatAs...3..813B](#))
- Gaudi et al. (2017); *A giant planet undergoing extreme-ultraviolet irradiation by its hot massive-star host*, Nature, Volume 546, Issue 7659 ([2017Natur.546..514G](#))
- Howard et al. (2013); *A rocky composition for an Earth-sized exoplanet*, Nature, Volume 503, Issue 7476 ([2013Natur.503..381H](#))
- Nugent et al. (2011); *Supernova SN 2011fe from an exploding carbon-oxygen white dwarf star*, Nature, Volume 480, Issue 7377 ([2011Natur.480..344N](#))

Other Publications

- Sgro et al. (2024). *Confirmation and Characterization of the Eccentric, Warm Jupiter TIC 393818343 b with a Network of Citizen Scientists*, AJ, 168, 26S. ([2024AJ....168...26S](#))
- Polanski et al. (2024). *The TESS-Keck Survey. XX. 15 New TESS Planets and a Uniform RV Analysis of All Survey Targets*ApJS, 272, 32P. ([2024ApJS..272...32P](#))
- Lange et al. (2024). *The TESS-Keck Survey. VII. A Superdense Sub-Neptune Orbiting TOI-1824*, AJ, 167, 282L. ([2024AJ....167..282L](#))
- Gan et al. (2024). *Relative Occurrence Rate between Hot and Cold Jupiters as an Indicator to Probe Planet Migration*, ApJ, 967, 74G. ([2024ApJ...967...74G](#))
- Hord et al. (2024). *Identification of the Top TESS Objects of Interest for Atmospheric Characterization of Transiting Exoplanets with JWST*, AJ, 167, 233H. ([2024AJ....167..233H](#))
- Peluso et al. (2024). *Confirming the Warm and Dense Sub-Saturn TIC 139270665 b with the Automated Planet Finder and Unistellar Citizen Science Network*, AJ, 167, 170P. ([2024AJ....167..170P](#))
- Rubenzahl et al. (2024). *The TESS-Keck Survey. XII. A Dense 1.8 R \oplus Ultra-short-period Planet Possibly Clinging to a High-mean-molecular-weight Atmosphere after the First Gigayear*, AJ, 167, 153R. ([2024AJ....167..153R](#))
- Hill et al. (2024). *The TESS-Keck Survey. XIX. A Warm Transiting Sub-Saturn-mass Planet and a Nontransiting Saturn-mass Planet Orbiting a Solar Analog*, AJ, 167, 151H. ([2024AJ....167..151H](#))
- Rowan et al. (2024). *A hidden population of massive white dwarfs: two spotted K + WD binaries*. MNRAS, 529, 587R. ([2024MNRAS.529..587R](#))
- Dalba et al. (2024). *Giant Outer Transiting Exoplanet Mass (GOT 'EM) Survey. IV. Long-term Doppler Spectroscopy for 11 Stars Thought to Host Cool Giant Exoplanets*. ApJS, 271, 16D. ([2024ApJS..271...16D](#))

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- Householder et al. (2024). *Investigating the Atmospheric Mass Loss of the Kepler-105 Planets Straddling the Radius Gap*. AJ, 167, 84H. ([2024AJ....167...84H](#))
 - Beard et al. (2024). *The TESS-Keck Survey. XVII. Precise Mass Measurements in a Young, High-multiplicity Transiting Planet System Using Radial Velocities and Transit Timing Variations*. AJ, 167, 70B. ([2024AJ....167...70B](#))
 - Weiss et al. (2024). *The Kepler Giant Planet Search. I. A Decade of Kepler Planet-host Radial Velocities from W. M. Keck Observatory*. ApJS, 270, 8W. ([2024ApJS..270....8W](#))
 - Rosenthal et al. (2024). *The California Legacy Survey. IV. Lonely, Poor, and Eccentric: A Comparison between Solitary and Neighborly Gas Giants*. ApJS, 270, 1R. ([2024ApJS..270....1R](#))
 - Isaacson et al. (2024). *The California-Kepler Survey. XI. A Survey of Chromospheric Activity through the Lens of Precise Stellar Properties*. ApJ, 961, 85I. ([2024ApJ...961...85I](#))
 - Rubenzahl et al. (2023). *Staring at the Sun with the Keck Planet Finder: An Autonomous Solar Calibrator for High Signal-to-noise Sun-as-a-star Spectra*. PASP, 135, 5002R. ([2023PASP..135i5002R](#))
 - Mann et al. (2023). *Giant Outer Transiting Exoplanet Mass (GOT 'EM) Survey. III. Recovery and Confirmation of a Temperate, Mildly Eccentric, Single-transit Jupiter Orbiting TOI-2010*. AJ, 166, 239M. ([2023AJ....166..239M](#))
 - Akana Murphy et al. (2023). *The TESS-Keck Survey. XVI. Mass Measurements for 12 Planets in Eight Systems*. AJ, 166, 153A. ([2023AJ....166..153A](#))
 - De Beurs et al. (2023). *Revisiting Orbital Evolution in HAT-P-2 b and Confirmation of HAT-P-2 c*. AJ, 166, 136D. ([2023AJ....166..136D](#))
 - Dai et al. (2023). *A Mini-Neptune Orbiting the Metal-poor K Dwarf BD+29 2654*. AJ, 166, 49D. ([2023AJ....166...49D](#))
 - MacDougall et al. (2023). *The TESS-Keck Survey. XV. Precise Properties of 108 TESS Planets and Their Host Stars*. AJ, 166, 33M. ([2023AJ....166...33M](#))
 - Lalotis et al. (2023). *Doppler Constraints on Planetary Companions to Nearby Sun-like Stars: An Archival Radial Velocity Survey of Southern Targets for Proposed NASA Direct Imaging Missions*. AJ, 165, 176. ([2022AJ....165..176L](#))
 - Greenbaum et al. (2023). *First Observations of the Brown Dwarf HD 19467 B with JWST*. ApJ, 945, 126. ([2023ApJ...945..126G](#))
 - Ruffio et al. (2023). *Detecting Exomoons from Radial Velocity Measurements of Self-luminous Planets: Application to Observations of HR 7672 B and Future Prospects*. AJ, 165, 113. ([2023AJ....165..113R](#))
 - Brinkman et al. (2023). *TOI-561 b: A Low-density Ultra-short-period "Rocky" Planet around a Metal-poor Star*. AJ, 165, 88. ([2023AJ....165...88B](#))
 - Van Zandt et al. (2023). *TESS-Keck Survey. XIV. Two Giant Exoplanets from the Distant Giants Survey*. AJ, 165, 60. ([2023AJ....165...60V](#))
 - Dai et al. (2023). *TOI-1136 is a Young, Coplanar, Aligned Planetary System in a Pristine Resonant Chain*. AJ, 165, 33. ([2023AJ....165...33D](#))
 - El Mufti et al. (2023). *TOI 560: Two Transiting Planets Orbiting a K Dwarf Validated with iSHELL, PFS, and HIRES RVs*. AJ, 165, 10 ([2023AJ....165...10E](#))
 - Lovell et al. (2022). *High-resolution ALMA and HST imaging of κ CrB: a broad debris disc around a post-main-sequence star with low-mass companions*. MNRAS, 517, 2546L ([2022MNRAS.517.2546L](#))
 - Pearson et al. (2022). *Utilizing a Global Network of Telescopes to Update the Ephemeris for the Highly Eccentric Planet HD 80606 b and to Ensure the Efficient Scheduling of JWST*. AJ, 164, 178P ([2022AJ....164..178P](#))
 - Kreidberg et al. (2022). *Tentative Evidence for Water Vapor in the Atmosphere of the Neptune-sized Exoplanet HD 106315c*. AJ, 164, 124K ([2022AJ....164..124K](#))
 - Rosenthal et al. (2022). *The California Legacy Survey. III. On the Shoulders of (Some) Giants: The Relationship between Inner Small Planets and Outer Massive Planets*. ApJS, 262, 1R ([2022ApJS..262....1R](#))
 - MacDougall et al. (2022). *The TESS-Keck Survey. XIII. An Eccentric Hot Neptune with a Similar-mass Outer Companion around TOI-1272*. AJ, 164, 97M ([2022AJ....164...97M](#))
 - Chontos et al. (2022). *The TESS-Keck Survey: Science Goals and Target Selection*. AJ, 163, 297C ([2022AJ....163..297C](#))
 - Turtelboom et al. (2022). *The TESS-Keck Survey. XI. Mass Measurements for Four Transiting Sub-Neptunes Orbiting K Dwarf TOI-1246*. AJ, 163, 293T ([2022AJ....163..293T](#))
 - Christiansen et al. (2022). *Scaling K2. V. Statistical Validation of 60 New Exoplanets From K2 Campaigns 2-18*. AJ, 163, 244C ([2022AJ....163..244C](#))
 - Chen et al. (2022). *Best Practices for Data Publication in the Astronomical Literature*. ApJS, 260, 5C ([2022ApJS..260....5C](#))
 - Petigura et al. (2022). *The California-Kepler Survey. X. The Radius Gap as a Function of Stellar Mass, Metallicity, and Age*. AJ, 163, 179P ([2022AJ....163..179P](#))
 - Winters et al. (2022). *A Second Planet Transiting LTT 1445A and a Determination of the Masses of Both Worlds*. AJ, 163, 168W ([2022AJ....163..168W](#))
 - Yayaati et al. (2022). *Kepler-167e as a Probe of the Formation Histories of Cold Giants with Inner Super-Earths*. ApJ, 926, 62C ([2022ApJ...926...62C](#))
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- Lubin et al. (2022); *TESS-Keck Survey. IX. Masses of Three Sub-Neptunes Orbiting HD 191939 and the Discovery of a Warm Jovian plus a Distant Substellar Companion*, AJ, 163, 101L ([\(2022AJ....163..101L\)](#))
 - Dalba et al. (2022); *The TESS-Keck Survey. VIII. Confirmation of a Transiting Giant Planet on an Eccentric 261 Day Orbit with the Automated Planet Finder Telescope*, AJ, 163, 61D ([\(2022AJ....163..61D\)](#))
 - Heidari et al. (2022); *HD 207897 b: A dense sub-Neptune transiting a nearby and bright K-type star*, A&A, 658A, 176H ([\(2022A&A...658A.176H\)](#))
 - Cale et al. (2021); *Diving Beneath the Sea of Stellar Activity: Chromatic Radial Velocities of the Young AU Mic Planetary System*, AJ, 162, 295C ([\(2021AJ....162..295C\)](#))
 - Akana Murphy et al. (2021); *Another Superdense Sub-Neptune in K2-182 b and Refined Mass Measurements for K2-199 b and c*, AJ, 162, 294A ([\(2021AJ....162..294A\)](#))
 - MacDougall et al. (2021); *The TESS-Keck Survey. VI. Two Eccentric Sub-Neptunes Orbiting HIP-97166*, AJ, 162, 265M ([\(2021AJ....162..265M\)](#))
 - Polanski et al. (2021); *Wolf 503 b: Characterization of a Sub-Neptune Orbiting a Metal-poor K Dwarf*, AJ, 162, 238P ([\(2021AJ....162..238P\)](#))
 - Sankar et al. (2021); *V488 Per Revisited: No Strong Mid-infrared Emission Features and No Evidence for Stellar/substellar Companions*, ApJ, 922, 75S ([\(2021ApJ...922...75S\)](#))
 - Scarsdale et al. (2021); *TESS-Keck Survey. V. Twin Sub-Neptunes Transiting the Nearby G Star HD 63935*, AJ, 162, 211H ([\(2021AJ....162..215S\)](#))
 - Hill, Michelle et al. (2021); *Asteroseismology of iota Draconis and Discovery of an Additional Long-period Companion*, AJ, 162, 211H ([\(2021AJ....162..211H\)](#))
 - Llop-Sayson, Jorge et al. (2021); *Constraining the Orbit and Mass of epsilon Eridani b with Radial Velocities, Hipparcos IAD-Gaia DR2 Astrometry, and Multiepoch Vortex Coronagraphy Upper Limits*, AJ, 162, 181L ([\(2021AJ....162..181L\)](#))
 - Osborn, Ares et al. (2021); *TOI-431/HIP 26013: a super-Earth and a sub-Neptune transiting a bright, early K dwarf, with a third RV planet*, MNRAS, 507, 507 ([\(2021MNRAS.507.2782O\)](#))
 - Dalba, Paul et al. (2021); *Giant Outer Transiting Exoplanet Mass (GOT 'EM) Survey. II. Discovery of a Failed Hot Jupiter on a 2.7 Yr, Highly Eccentric Orbit*, AJ, 162, 154D ([\(2021AJ....162..154D\)](#))
 - Zhang, Jingwen et al. (2021); *TKS X: Long-period Jovian Tilts the Orbits of Two sub-Neptunes Relative to Stellar Spin Axis in Kepler-129*, AJ, 162, 89Z ([\(2021AJ....162...89Z\)](#))
 - Dai et al. (2021); *TKS X: Confirmation of TOI-1444b and a Comparative Analysis of the Ultra-short-period Planets with Hot Neptunes*, AJ, 162, 62D ([\(2021AJ....162...62D\)](#))
 - David et al. (2021); *Evolution of the Exoplanet Size Distribution: Forming Large Super-Earths Over Billions of Years*, AJ, 161, 265D ([\(2021AJ....161..265D\)](#))
 - Hirsch et al. (2021); *Understanding the Impacts of Stellar Companions on Planet Formation and Evolution: A Survey of Stellar and Planetary Companions within 25 pc*, AJ, 161, 134H ([\(2021AJ....161..134H\)](#))
 - Rubenzhal et al. (2021); *The TESS-Keck Survey. IV. A Retrograde, Polar Orbit for the Ultra-low-density, Hot Super-Neptune WASP-107b*, AJ, 161, 119R ([\(2021AJ....161..119R\)](#))
 - Daylan et al. (2021); *TESS Discovery of a Super-Earth and Three Sub-Neptunes Hosted by the Bright, Sun-like Star HD 108236*, AJ, 161, 85D ([\(2021AJ....161...70P\)](#))
 - Piaulet et al. (2021); *WASP-107b's Density Is Even Lower: A Case Study for the Physics of Planetary Gas Envelope Accretion and Orbital Migration*, AJ, 161, 70P ([\(2021AJ....161...70P\)](#))
 - Lindor et al. (2021); *HAT-P-68b: A Transiting Hot Jupiter around a K5 Dwarf Star*, AJ, 161, 64L ([\(2021AJ....161...64L\)](#))
 - Weiss et al. (2021); *The TESS-Keck Survey. II. An Ultra-short-period Rocky Planet and Its Siblings Transiting the Galactic Thick-disk Star TOI-561*, AJ, 161, 56W ([\(2021AJ....161...56W\)](#))
 - Kosiarek et al. (2021); *Physical Parameters of the Multiplanet Systems HD 106315 and GJ 9827*, AJ, 161, 47K ([\(2021AJ....161...47K\)](#))
 - Dreizler et al. (2020); *The CARMENES search for exoplanets around M dwarfs. LP 714-47 b (TOI 442.01): populating the Neptune desert*, A&A, 644, 127D ([\(2020A&A...644A.127D\)](#))
 - Brahm et al. (2020); *TOI-481 b and TOI-892 b: Two Long-period Hot Jupiters from the Transiting Exoplanet Survey Satellite*, AJ, 160, 235B ([\(2020AJ....160..235B\)](#))
 - Dai et al. (2020); *The TESS-Keck Survey. III. A Stellar Obliquity Measurement of TOI-1726 c*, AJ, 160, 193 ([\(2020AJ....160..193D\)](#))
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