

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, Goleta, CA	March 2009 - August 2012

Publication statistics

- **9 first author & major contributions in 4 second author refereed publications**
- 136 total refereed publications
- Contributions to 4 *Nature* publications
- 5012 citations (577 citations to first-author papers)
- h-index = 36

Research Experience

- 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 7 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, HamI, 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.
- Worked extensively with collaborators at the Space Telescope Science Institute on a project to revolutionize the way that radial velocities are calculated from gas absorption cell spectroscopy
- 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

- **Cayla Dedrick, Caltech Undergraduate (2018-present)**
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., in prep.)
- **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., Fulton et al., and code release in prep.)
- **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

- 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

- 2019 - Colloquium speaker at Stanford, 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

- 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
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- 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)

Hobbies and Interests

- Auto racing
 - 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. (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 Orbiting 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](#))

Significant Contributions

- 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

- Rodriguez et al. (2019); *KELT-24b: A 5 M_J Planet on a Well-aligned Orbit around the Young V=8.3 F-star HD 93148*, AJ, 158, 181 ([2019AJ....158..197R](#))
- Blunt et al. (2019); *Radial Velocity Discovery of an Eccentric Jovian World Orbiting at 18 au*, AJ, 158, 181 ([2019AJ....158..181B](#))
- Crossfield et al. (2019); *A Super-Earth and Sub-Neptune Transiting the Late-type M Dwarf LP 791-18*, ApJL, 883, L16 ([2019ApJ...883L..16C](#))
- Zhou et al. (2019); *Two New HATNet Hot Jupiters around A Stars and the First Glimpse at the Occurrence Rate of Hot Jupiters from TESS*, AJ, 158, 141Z ([2019AJ....158..141Z](#))
- Gaidos et al. (2019); *Planetesimals around stars with TESS (PAST) – I. Transient dimming of a binary solar analogue at the end of the planet accretion era*, MNRAS, 488, 4465 ([2019MNRAS.488.4465G](#))
- Hey et al. (2019); *Six new rapidly oscillating Ap stars in the Kepler long-cadence data using super-Nyquist asteroseismology*, MNRAS, 488, 18H ([2019MNRAS.488..18H](#))
- Vanderburg et al. (2019); *TESS Spots a Compact System of Super-Earths around the Naked-eye Star HR858*, ApJ, 881L, 19V ([2019AJ....158...79D](#))
- David et al. (2019); *A Warm Jupiter-sized Planet Transiting the Pre-main-sequence Star V1298 Tau*, AJ, 158, 79D ([2019AJ....158...79D](#))
- Johns et al. (2019); *KELT-23Ab: A Hot Jupiter Transiting a Near-solar Twin Close to the TESS and JWST Continuous Viewing Zones*, AJ, 158, 78J ([2019AJ....158...78J](#))
- Yahalomi et al. (2019); *The Mass of the White Dwarf Companion in the Self-lensing Binary KOI-3278: Einstein versus Newton*, ApJ, 880, 33Y ([2019ApJ...880...33Y](#))
- Hirsch et al. (2019); *Discovery of a White Dwarf Companion to HD 159062*, ApJ, 878, 50H ([2019ApJ...878...50H](#))
- Huber et al. (2019); *A Hot Saturn Orbiting an Oscillating Late Subgiant Discovered by TESS*, AJ, 157, 245H ([2019AJ....157..245H](#))
- Mills et al. (2019); *The California-Kepler Survey. VIII. Eccentricities of Kepler Planets and Tentative Evidence of a High-metallicity Preference for Small Eccentric Planets*, AJ, 157, 198M ([2019AJ....157..198M](#))
- Berardo et al. (2019); *Revisiting the HIP 41378 System with K2 and Spitzer*, AJ, 157, 185B ([2019AJ....157..185B](#))
- Dragomir et al. (2019); *TESS Delivers Its First Earth-sized Planet and a Warm Sub-Neptune*, AJ, 875, 7D ([2019ApJ...875L...7D](#))
- Mills et al. (2019); *Long-period Giant Companions to Three Compact, Multiplanet Systems*, AJ, 157, 145M ([2019AJ....157..145M](#))
- Kosiarek et al. (2019); *K2-291b: A Rocky Super-Earth in a 2.2 day Orbit*, AJ, 157, 116K ([2019AJ....157..116K](#))
- Livingston et al. (2019); *Spitzer Transit Follow-up of Planet Candidates from the K2 Mission*, AJ, 157, 102L ([2019AJ....157..102L](#))
- Kosiarek et al. (2019); *Bright Opportunities for Atmospheric Characterization of Small Planets: Masses and Radii of K2-3b, c, and d and GJ3470 b from Radial Velocity Measurements and Spitzer Transits*, AJ, 157, 97K ([2019AJ....157...97K](#))
- Bryan et al. (2019); *An Excess of Jupiter Analogs in Super-Earth Systems*, AJ, 157, 52B ([2019AJ....157...52B](#))
- Wang et al. (2019); *HD 202772A: A Transiting Hot Jupiter around a Bright, Midly Evolved Star in a Visual Binary Discovered by TESS*, AJ, 157, 51W ([2019AJ....157...51W](#))
- Labadie-Bartz et al. (2019); *KELT-22Ab: A Massive, Short-Period Hot Jupiter Transiting a Near-solar Twin*, ApJS, 240, 13L ([2019ApJS..240...13L](#))
- Mawet et al. (2019); *Deep Exploration of Eps Eridani with Keck Ms-band Vortex Coronagraphy and Radial Velocities: Mass and Orbital Parameters of the Giant Exoplanet*, AJ, 157, 33M ([2019AJ....157...33M](#))
- David et al. (2018); *Discover of a Transiting Adolescent Sub-Neptune Exoplanet with K2*, AJ, 156, 302D ([2018AJ....156..302D](#))
- Livingston et al. (2018); *Sixty Validated Planets from K2 Campaigns 5–8*, AJ, 156, 277L ([2018AJ....156..277L](#))
- Weiss et al. (2018); *The California-Kepler Survey. VI. Kepler Multis and Singles Have Similar Planet and Stellar Properties Indicating a Common Origin*, AJ, 156, 254W ([2018AJ....156..254W](#))
- Crossfield et al. (2018); *A TESS Dress Rehearsal: Planetary Candidates and Variables from K2 Campaign 17*, ApJS, 239, 5C ([2018ApJS..239...5C](#))

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- Peterson et al. (2018); *A 2 R_{\oplus} Planet Orbiting the Bright Nearby K Dwarf Wolf 503*, AJ, 156, 188P ([2018AJ....156..188P](#))
 - Van Eylen et al. (2018); *An asteroseismic view of the radius valley: stripped cores, not born rocky*, MNRAS, 479, 4786V ([2018MNRAS.479.4786V](#))
 - Brady et al. (2018); *Kepler-1656b: A Dense Sub-Saturn with an Extreme Eccentricity*, AJ, 156, 147B ([2018AJ....156..147B](#))
 - Liang et al. (2018); *Two Warm, Low-density Sub-Jovian Planets Orbiting Bright Stars in K2 Campaigns 13 and 14*, AJ, 156, 127 ([2018AJ....156..127Y](#))
 - Petigura et al. (2018); *Dynamics and Formation of the Near-resonant K2-24 System: Insights from Transit-timing Variations and Radial Velocities*, AJ, 156, 89 ([2018AJ....156..89P](#))
 - Dressing et al. (2018); *Characterizing K2 Candidate Planetary Systems Orbiting Low-mass Stars. III. A High Mass and Low Envelope Fraction for the Warm Neptune K2-55b*, AJ, 156, 70 ([2018AJ....156..70D](#))
 - Liang et al. (2018); *Planetary Candidates from K2 Campaign 16*, AJ, 156, 22 ([2018AJ....156..22Y](#))
 - Yee et al. (2018); *HAT-P-11: Discovery of a Second Planet and a Clue to Understanding Exoplanet Obliquities*, AJ, 155, 255 ([2018AJ....155..255Y](#))
 - Curtis et al. (2018); *K2-231 b: A Sub-Neptune Exoplanet Transiting a Solar Twin in Ruprecht 147*, AJ, 155, 173C ([2018AJ....155..173C](#))
 - Bowler et al. (2018); *Orbit and Dynamical Mass of the Late-T Dwarf GL 758 B*, AJ, 155, 159B ([2018AJ....155..159B](#))
 - Hartman et al. (2018); *HAT-TR-318-007: A Double-lined M Dwarf Binary with Total Secondary Eclipses Discovered by HATNet and Observed by K2*, AJ, 155, 114H ([2018AJ....155..114H](#))
 - Johnson et al. (2018); *KELT-21b: A Hot Jupiter Transiting the Rapidly Rotating Metal-poor Late-A Primary of a Likely Hierarchical Triple System*, AJ, 155, 100J ([2018AJ....155..100J](#))
 - Petigura et al. (2018); *The California-Kepler Survey. IV. Metal-rich Stars Host a Greater Diversity of Planets*, AJ, 155, 89P ([2018AJ....155..89P](#))
 - Henning et al. (2018); *HATS-50b through HATS-53b: Four Transiting Hot Jupiters Orbiting G-type Stars Discovered by the HATSouth Survey*, AJ, 155, 79H ([2018AJ....155..79H](#))
 - Weiss et al. (2018); *The California-Kepler Survey. V. Peas in a Pod: Planets in a Kepler Multi-planet System Are Similar in Size and Regularly Spaced*, AJ, 155, 48W ([2018AJ....155..48W](#))
 - Petigura et al. (2018); *Planet Candidates from K2 Campaigns 5–8 and Follow-up Optical Spectroscopy*, AJ, 155, 21P ([2018AJ....155..21P](#))
 - Ciardi et al. (2018); *K2-136: A Binary System in the Hyades Cluster Hosting a Neptune-sized Planet*, AJ, 155, 10C ([2018AJ....155..10C](#))
 - Grunblatt et al. (2017); *Seeing Double with K2: Testing Re-inflation with Two Remarkably Similar Planets around Red Giant Branch Stars*, AJ, 154, 254 ([2017AJ....154..254G](#))
 - Dressing et al. (2017); *Characterizing K2 Candidate Planetary Systems Orbiting Low-mass Stars. II. Planetary Systems Observed During Campaigns 1–7*, AJ, 154, 207 ([2017AJ....154..207D](#))
 - Lund et al. (2017); *KELT-20b: A Giant Planet with a Period of $P \sim 3.5$ days Transiting the $V \sim 7.6$ Early A Star HD 185603*, AJ, 154, 194 ([2017AJ....154..194L](#))
 - Shporer et al. (2017); *K2-114b and K2-115b: Two Transiting Warm Jupiters*, AJ, 154, 188 ([2017AJ....154..188S](#))
 - Shporer et al. (2017); *Three Statistically Validated K2 Transiting Warm Jupiter Exoplanets Confirmed as Low-mass Stars*, ApJ, 847, 18 ([2017ApJ...847L..18S](#))
 - Christiansen et al. (2017); *Three's Company: An Additional Non-transiting Super-Earth in the Bright HD 3167 System, and Masses for All Three*, AJ, 154, 122 ([2017AJ....154..122C](#))
 - Johnson et al. (2017); *The California-Kepler Survey. II. Precise Physical Properties of 2025 Kepler Planets and Their Host Stars*, AJ, 154, 108 ([2017AJ....154..108J](#))
 - Petigura et al. (2017); *The California-Kepler Survey. I. High-resolution Spectroscopy of 1305 Stars Hosting Kepler Transiting Planets*, AJ, 154, 107 ([2017AJ....154..107P](#))
 - Sinukoff, E., et al. (2017); *K2-66b and K2-106b: Two Extremely Hot Sub-Neptune-size Planets with High Densities*, AJ, 153, 271 ([2017AJ....153..271S](#))
 - Weiss, L., et al. (2017); *New Insights on Planet Formation in WASP-47 from a Simultaneous Analysis of Radial Velocities and Transit Timing Variations*, AJ, 153, 265 ([2017AJ....153..265W](#))
 - McLeod, K., et al. (2017); *KELT-18b: Puffy Planet, Hot Host, Probably Perturbed*, AJ, 153, 263 ([2017AJ....153..263M](#))
 - Crossfield, I., et al. (2017); *Two Small Transiting Planets and a Possible Third Body Orbiting HD 106315*, AJ, 153, 255 ([2017AJ....153..255C](#))
 - Rappaport, S., et al. (2017); *EPIC 220204960: A Quadruple Star System Containing Two Strongly Interacting Eclipsing Binaries*, MNRAS, 467, 2 ([2017MNRAS.467.2160R](#))
 - Zheng, W., et al. (2017); *Discovery and Follow-up Observations of the Young Type Ia Supernova 2016coj*, ApJ, 841, 64Z ([2017ApJ...841...64Z](#))
 - Pepper, J., et al. (2017); *KELT-11b: A Highly Inflated Sub-Saturn Exoplanet Transiting the $V = 8$ Subgiant HD 93396*, AJ, 153, 215 ([2017AJ....153..215P](#))
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- Zhou, G., et al. (2017); *HAT-P-67b: An Extremely Low Density Saturn Transiting an F-subgiant Confirmed via Doppler Tomography*, AJ, 153, 211 ([2017AJ....153..211Z](#))
 - Stevens, D., et al. (2017); *KELT-12b: A P~5 day, Highly Inflated Hot Jupiter Transiting a Mildly Evolved Hot Star*, AJ, 153, 178 ([2017AJ....153..178S](#))
 - Petigura, E., et al. (2017); *Four Sub-Saturns with Dissimilar Densities: Windows into Planetary Cores and Envelopes*, AJ, 153, 142 ([2017AJ....153..142P](#))
 - Oberst, T., et al. (2017); *KELT-16b: A Highly Irradiated, Ultra-short Period Hot Jupiter Nearing Tidal Disruption*, AJ, 153, 97 ([2017AJ....153..97O](#))
 - De Wit, J., et al. (2017); *Planet-induced Stellar Pulsations in HAT-P-2's Eccentric System*, ApJ, 836, 17 ([2017ApJ...836L..17D](#))
 - David, T., et al. (2017); *A Transient Transit Signature Associated with the Young Star RIK-210*, ApJ, 835, 168 ([2017ApJ...835..168D](#))
 - Sinukoff, E., et al. (2017); *Mass Constraints of the WASP-47 Planetary System from Radial Velocities*, AJ, 153, 70 ([2017AJ....153...70S](#))
 - Rappaport, S., et al. (2017); *EPIC 220204960: A Quadruple Star System Containing Two Strongly Interacting Eclipsing Binaries*, MNRAS ([2017MNRAS.tmp..145R](#))
 - Bayliss, D., et al. (2017); *EPIC 201702477b: A Transiting Brown Dwarf from K2 in a 41 day Orbit*, AJ, 153, 15 ([2017AJ....153..15B](#))
 - Samuel, K., et al. (2016); *K2-97b: A (Re-?)Inflated Planet Orbiting a Red Giant Star*, AJ, 152, 185 ([2016AJ....152..185G](#))
 - Hartman, J., et al. (2016); *HAT-P-65b and HAT-P-66b: Two Transiting Inflated Hot Jupiters and Observational Evidence for the Re-inflation of Close-in Giant Planets*, AJ, 152, 182 ([2016AJ....152..182H](#))
 - Zhou, G., et al. (2016); *KELT-17b: A Hot-Jupiter Transiting an A-star in a Misaligned Orbit Detected with Doppler Tomography*, AJ, 152, 136 ([2016AJ....152..136Z](#))
 - Crossfield, I. J., et al. (2016); *197 Candidates and 104 Validated Planets in K2's First Five Fields*, ApJS, 226, 7 ([2016ApJS..226....7C](#))
 - Sinukoff, E. et al. (2016); *Eleven Multiplanet Systems from K2 Campaigns 1 and 2 and the Masses of Two Hot Super-Earths*, ApJ, 827, 78 ([2016ApJ...827...78S](#))
 - Ciceri, S. et al. (2016); *HATS-15b and HATS-16b: Two Massive Planets Transiting Old G Dwarf Stars*, PASP, 128, 4401 ([2016PASP..128g4401C](#))
 - Wong, I. et al. (2016); *3.6 and 4.5 μ m Spitzer Phase Curves of the Highly Irradiated Hot Jupiters WASP-19b and HAT-P-7b*, ApJ, 823, 122 ([2016ApJ...823..122W](#))
 - Bryan, M. L. et al. (2016); *Statistics of Long Period Gas Giant Planets in Known Planetary Systems*, ApJ, 821, 89 ([2016ApJ...821...89B](#))
 - Buhler, P. B. et al. (2016); *Dynamical Constraints on the Core Mass of Hot Jupiter HAT-P-13b*, ApJ, 821, 26 ([2016ApJ...821...26B](#))
 - Weiss, L. et al. (2016); *Revised Masses and Densities of the Planets around Kepler-10*, ApJ, 819, 83 ([2016ApJ...819...83W](#))
 - Kirk, B. et al. (2016); *Kepler Eclipsing Binary Stars. VII. The Catalog of Eclipsing Binaries Found in the Entire Kepler Data Set*, AJ, 151, 68 ([2016AJ....151...68K](#))
 - Schlieder, J. E. et al. (2016); *Two Small Temperate Planets Transiting Nearby M Dwarfs in K2 Campaigns 0 and 1*, ApJ, 818, 87 ([2016ApJ...818...87S](#))
 - Petigura, E. A. et al. (2016); *Two Transiting Low Density Sub-Saturns from K2*, ApJ, 818, 36 ([2016ApJ...818...36P](#))
 - Eastman, J. D. et al. (2016); *KELT-4Ab: An Inflated Hot Jupiter Transiting the Bright ($V \sim 10$) Component of a Hierarchical Triple*, AJ, 151, 45 ([2016AJ....151...45E](#))
 - Hartman, J. D. et al. (2015); *HAT-P-50b, HAT-P-51b, HAT-P-52b, and HAT-P-53b: Three Transiting Hot Jupiters and a Transiting Hot Saturn From the HATNet Survey*, AJ, 150, 168 ([2015AJ....150..168H](#))
 - Zhou, G. et al. (2015); *A High Obliquity Orbit for the Hot-Jupiter HATS-14b Transiting a 5400K Star*, ApJ, 814, 16 ([2015ApJ...814L..16Z](#))
 - Bakos, G. A. et al. (2015); *HATS-7b: A Hot Super Neptune Transiting a Quiet K Dwarf Star*, ApJ, 813, 111 ([2015ApJ...813..111B](#))
 - Wong, I. et al. (2015); *3.6 and 4.5 μ m Phase Curves of the Highly Irradiated Eccentric Hot Jupiter WASP-14b*, ApJ, 811, 122 ([2015ApJ...811..122W](#))
 - Kammer, J. A. et al. (2015); *Spitzer Secondary Eclipse Observations of Five Cool Gas Giant Planets and Empirical Trends in Cool Planet Emission Spectra*, ApJ, 810, 118 ([2015ApJ...810..118K](#))
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