Benjamin James (BJ) Fulton

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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	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**
- 132 total refereed publications
- Contributions to 4 *Nature* publications
- 4538 citations
- h-index = 35

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 these planets (Fulton et al. 2017)
- Served as project scientist for the NN-EXPLORE program overseeing and consulting on the development of the facility pipeline and archive infrastructure for the NEID spectrograph
- Developed a highly extensible and open source software package for the analysis of radial velocity time-series data written in object-oriented Python (radvel.readthedocs.io)
- Significantly contributions to the development of the "Jump" target management and analysis database used by the California Planet Search team, which honed my skills in Django, Javascript, CSS, Haml, and Docker (jump.caltech.edu)
- Wrote software that allows the Automated Planet Finder (APF) telescope at Lick Observatory to be a fully operational and autonomous observatory. Thanks in large part to my automation and scheduling software, the telescope has been operating autonomously on a nightly basis collecting high-precision radial velocities for the last 7 years
- 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 two papers (Fulton et al. 2015a, Fulton et al. 2016) announcing the discovery of 5 new low-mass planets orbing 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 Keplerian signals in heterogeneous radial velocity datasets and characterize pipeline completeness using injection-recovery tests (Howard & Fulton 2016)

- Published a paper for which we searched for transit timing variations in the HAT-P-13 planetary system and refined the system parameters (Fulton et al. 2011). This required me to become familiar with exoplanet transit light curve modeling, and the theory of transit timing variations.
- Contributed to a paper that appeared in Nature (Howard et al. 2013) in which we made the first mass measurement of an Earth-size exoplanet.
- Contributed to a paper led by Peter Nugent constraining the explosion time of the nearby supernova in M101 that appeared in Nature (Nugent et al. 2011).
- Transformed the Byrne Observatory at Sedgwick reserve from an unused and forgotten facility, into a fully operational and robotic observatory.
- Wrote a pipeline to identify and model the effects of ellipsoidal variations, reflection and relativistic beaming in *Kepler* data
- Contributed observations for seven Minor Planet Circulars, and have been credited with the discovery of two new Mars-crossing asteroids.
- I was previously involved with a project to measure the orbital motion of astrometric binaries using lucky imaging and speckle interferometry.

Academic Awards

- 2018 - Robert J. Trumpler award 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

- **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. (paper 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
- **Cayla Dedrick, Caltech Undergraduate (2018-present)**
  Cayla developed an 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 (paper in prep.)

Teaching Experience

- 2015 - Designed curriculum and sole-instructor of "Introduction to Astronomy" summer course at the University of Hawaii at Manoa
- 2015 - Designed and lead a "Python Power Hour" seminar at the University of Hawaii which served as a crash course introduction to Python for astronomy
- 2012-2015 - Three-time research advisor at the HISTAR program for gifted K-12 students

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 Universitat, 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
- 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, Portuga
- 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 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)

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

- 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)
- 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)
- 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)
- 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 ~ 3.5 days Transiting the V ~ 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)
- 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 Reinflation 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 μm 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 ˜ 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 μm 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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