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 / 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**
- 132 total refereed publications
- Contributions to 4 *Nature* publications
- 4538 citations (519 citations to first-author papers)
- 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 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, 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 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 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

- 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 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)
- Bayliss, D. et al. (2015); *HATS-8b: A Low-density Transiting Super-Neptune*, AJ, 150, 49 (2015AJ....150...49B)
- Bieryla, A. et al. (2015); *KELT-7b: A Hot Jupiter Transiting a Bright V = 8.54 Rapidly Rotating F-star*, AJ, 150, 12 (2015AJ....150...12B)
- Demming, D. et al. (2015); *Spitzer Secondary Eclipses of the Dense, Modestly-irradiated, Giant Exoplanet HAT-P-20b Using Pixel-level Decorrelation*, ApJ, 805, 132 (2015ApJ...805..132D)
- Ruprecht, J. D. et al. (2015); *29 November 2011 stellar occultation by 2060 Chiron: Symmetric jet-like features*, Icarus, 252, 271 (2015Icar..252..271R)
- Crossfield, I. J. M. et al. (2015); *A Nearby M Star with Three Transiting Super-Earths Discovered by K2*, ApJ, 804, 10 (2015ApJ...804...10C)
- Graham, M. L. et al. (2015); *Time-Varying Potassium in High-Resolution Spectra of the Type Ia Supernova 2014j*, ApJ, 801, 136 (2015ApJ...801..136G)

- Zhao, Ming et al. (2014); *Characterization of the Atmosphere of the Hot Jupiter HAT-P-32Ab and the M-dwarf Companion HAT-P-32B*, ApJ, 796, 115 (2014ApJ...796..115Z)
- Wong, Ian et al. (2014); *Constraints on the Atmospheric Circulation and Variability of the Eccentric Hot Jupiter XO-3b*, ApJ, 794, 134 (2014ApJ...794..134W)
- Biddle, Lauren I. et al. (2014); *Warm ice giant GJ 3470b - II. Revised planetary and stellar parameters from optical to near-infrared transit photometry*, MNRAS, 443, 1810 (2014MNRAS.443.1810B)
- Hartman, J. D. et al. (2014); *HAT-P-44b, HAT-P-45b, and HAT-P-46b: Three Transiting Hot Jupiters in Possible Multi-planet Systems*, ApJ, 791, 89 (2014AJ....147..128H)
- Gaidos, E. et al. (2014); *Trawling for transits in a sea of noise: a search for exoplanets by analysis of WASP optical light curves and follow-up (SEAWOLF)*, MNRAS, 437, 3133 (2014MNRAS.437.3133G)
- Bryan, Marta L. et al. (2014); *Erratum: "Qatar-2: A K Dwarf Orbited by a Transiting Hot Jupiter and a More Massive Companion in an Outer Orbit"*, ApJ, 782, 121, (2014ApJ...782..121B)
- Collins, Karen A. et al. (2014); *KELT-6b: A P ~ 7.9 Day Hot Saturn Transiting a Metal-poor Star with a Long-period Companion*, AJ, 147, 39 (2014AJ....147...39C)
- Brown, T. M. et al. (2013); *Las Cumbres Observatory Global Telescope Network*, PASP, 125, 931 (2013PASP..125.1031B)
- Hartman, J. D. et al. (2013); *HAT-P-44b, HAT-P-45b, and HAT-P-46b: Three Transiting Hot Jupiters in Possible Multi-Planet Systems*, arXiv1308.2937 (2013arXiv1308.2937H, submitted to AJ)
- Collins, K. A. et al. (2013); *KELT-6b: A P~7.9 d Hot Saturn Transiting a Metal-Poor Star with a Long-Period Companion*, arXiv1308.2296 (2013arXiv1308.2296C, submitted to AJ)
- Quintana, E. V. et al. (2013); *Confirmation of Hot Jupiter Kepler-41b via Phase Curve Analysis*, arXiv1303.0858 (2013arXiv1303.0858Q, Accepted to ApJ)
- Steinfadt, J. D. et al. (2012); *A Search for Pulsations in Helium White Dwarfs*, 2012 PASP, 124, 911 (2012PASP..124....1S)
- Boisse, I. et al. (2012); *HAT-P-42b and HAT-P-43b. Two Inflated Transiting Hot Jupiters from the HATNet Survey*, A&A 558, A86 (2013A&A...558A..86B)
- Siverd, R., et al. (2012); *KELT-1b: A Strongly Irradiated, Highly Inflated, Short Period, 27 Jupiter-mass Companion Transiting a Mid-F Star*, ApJ, 761, 123 (2012ApJ...761..123S)
- Barclay, T. et al. (2012); *Photometrically Derived Masses and Radii of the Planet and Star in the TrES-2 System*, ApJ, 761, 53 (2012ApJ...761...53B)
- Maguire, K. et al. (2012); *Hubble Space Telescope studies of low-redshift Type Ia supernovae: evolution with redshift and ultraviolet spectral trends*, MNRAS, 426, 2359 (2012MNRAS.426.2359M)
- Pepper, J. et al. (2012); *KELT-3b: A Hot Jupiter Transiting a V=9.8 Late-F Star*, ApJ, 773, 64, (2013ApJ...773...64P)
- Hartman, J.D., et al. (2012); *HAT-P-39b-HAT-P-41b: Three Highly Inflated Transiting Hot Jupiters*, AJ, 144, 139 (2012AJ....144..139H)
- Law, N. et al. (2012); *Three New Eclipsing White-dwarf-M-dwarf Binaries Discovered in a Search for Transiting Planets around M-dwarfs*, ApJL, 757, 133 (2012ApJ...757..133L)
- Beatty, T. et al. (2012); *KELT-2Ab: A Hot Jupiter Transiting the Bright (V = 8.77) Primary Star of a Binary System*, ApJ, 756, 39 (2012ApJ...756L..39B)
- van Eyken, J. et al. 2012; *The PTF Orion Project: A Possible Planet Transiting a T-Tauri Star*, ApJ, 755, 42 (2012ApJ...755...42V)
- Bryan, M. et al. (2011); *Qatar-2: A K Dwarf Orbited by a Transiting Hot Jupiter and a More Massive Companion in an Outer Orbit*, ApJ, 750, 84 (2012ApJ...750...84B)
- Arcavi, I. et al. (2011); *SN 2011dh: Discovery of a Type IIb Supernova from a Compact Progenitor in the Nearby Galaxy M51*, ApJL, 742, L18 (2011ApJ...742L..18A)
- Levitan, D. et al. (2011); *PTF1 J071912.13+485834.0: An Outbursting AM CVn System Discovered by a Synoptic Survey*, ApJ, 739, 68 (2011ApJ...739...68L)

Shporer, A. et al. (2010); *Ground-based Multisite Observations of Two Transits of HD 80606b*, ApJ, 722, 880 (2010ApJ...722..880S)