

# Erik Petigura

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## CONTACT

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## EDUCATION

### **Ph.D. in Astrophysics, University of California, Berkeley**

Degree Date: May 2015

Thesis Title: *The Prevalence of Earth-size Planets Orbiting Sun-like Stars*

Thesis Advisor: Geoffrey Marcy

### **M.A. in Astrophysics, University of California, Berkeley**

Degree Date: December 2011

### **B.A. in Physics and Astrophysics, University of California, Berkeley**

Degree Date: May 2010

## APPOINTMENTS & EXPERIENCE

2019– Assistant Professor, University of California, Los Angeles  
2018–2019 Sagan Fellow, California Institute of Technology  
2015–2018 Hubble Fellow, California Institute of Technology  
2013–2015 Graduate Student Researcher, University of California, Berkeley  
2013–2014 Visiting Graduate Student, University of Hawaii, Mānoa  
2010–2013 NSF Graduate Research Fellow, University of California, Berkeley

## RESEARCH INTERESTS

Demographics of extrasolar planets; planet formation and evolution; radial velocities; transit timing variations; precision stellar astrophysics; high performance computing; signal processing; spectroscopy of exoplanet atmospheres; machine learning.

## HONORS AND AWARDS

2020 Outstanding Teaching Award, UCLA Physics & Astronomy Department  
2020 Sloan Fellowship  
2019 Scialog Fellow, Research Corporation for Science Advancement  
2015 Mary Elizabeth Uhl Prize, UC Berkeley Astronomy Department  
2014 Cozzarelli Prize, National Academy of Sciences [[Press Release](#)]  
2013 Block Award, Aspen Center for Physics  
2010 American Physical Society Apker Prize Finalist [[Announcement](#)]  
2010 Hertz Fellow Finalist  
2010 University Medal Finalist, UC Berkeley [[Press Release](#)]  
2010 Isidore Pomeranz Scholarship, UC Berkeley Physics Department  
2010 Dorothea Klumpke Roberts Prize, UC Berkeley Astronomy Department

## COLLOQUIA AND INVITED TALKS

<b>Date</b>	<b>Venue</b>
Mar 2020	Physics & Astronomy Colloquium, UCLA
Aug 2019	RESCEU Summer School, University of Tokyo
Apr 2019	Planetary Science Seminar, UC Santa Cruz
Nov 2018	Astronomy Colloquium, University of Arizona
Oct 2018	Astrophysics Colloquium, JPL
Aug 2018	Planetary Science Seminar, NASA Ames
Aug 2018	PRV Landscape Review, Caltech
Jun 2018	iREx Seminar U. Montreal
Mar 2018	Astronomy Colloquium, UCLA
Feb 2018	Astronomy Colloquium, University of Texas at Austin
Jan 2018	Astronomy Colloquium, Cornell Department
Jan 2018	Astronomy Colloquium, Caltech Department
Dec 2017	Exoplanets and Planet Formation, Shanghai
Oct 2017	Know Thy Star, Pasadena, California
Feb 2017	Physics Colloquium, University of California, Irvine
Oct 2016	Astronomy Colloquium, University of Texas, Austin
Sep 2016	Fellows at the Frontiers, Northwestern University
Mar 2016	Astronomy Colloquium, Tokyo University
Feb 2016	Planetary Science Division Seminar, Caltech
Oct 2015	iPLEX Seminar, UCLA
Oct 2015	Physics Colloquium, University of San Francisco
Jan 2015	Astronomy Tea Talk, Caltech
Jul 2014	Plenary Talk, Origins 2014, Nara, Japan
Jan 2014	Colloquium, University of Hawai'i Institute for Astronomy
Nov 2013	Kepler Science Conference, NASA Ames
Apr 2013	FLASH Talk, UC Santa Cruz Astronomy Department
Mar 2013	Yuk Lunch Seminar, Caltech
Sep 2012	Bay Area Exoplanet Science Meeting, SETI Institute, California

## OTHER TALKS

<b>Date</b>	<b>Venue</b>
Mar 2019	Kepler Science Conference, Glendale
Oct 2018	Planetary Science Seminar, Imperial College London
Sep 2018	ExoSoCal 2018, Caltech
Aug 2017	Keck Science Meeting, Santa Cruz, CA
Jun 2017	Kepler Science Conference, NASA Ames
May 2017	Caltech Astronomy Department Tea Talk
Mar 2017	Formation and Dynamical Evolution of Exoplanets, Aspen, Colorado
Sep 2016	Keck Science Meeting, Pasadena, CA
Nov 2015	Extreme Solar Systems III, Kona, Hawai'i
Oct 2015	K2 Science Meeting, Santa Barbara, California
Sep 2015	Keck Science Meeting, 2015
Jan 2015	AAS Meeting, Seattle, Washington
Sep 2014	Toward Other Earths: The Star-Planet Connection, Porto, Portugal
Feb 2013	Exoplanets in Multi-body Systems in the Kepler Era, Aspen, Colorado
Jan 2013	AAS Meeting, Long Beach, California
Jun 2012	AAS Meeting, Anchorage, Alaska
Sep 2011	Extreme Solar Systems II, Jackson Hole, Wyoming
May 2009	APS April Meeting, Denver, Colorado

## TEACHING EXPERIENCE

Date	Institution	Role
2022	UCLA	Practice of Scientific Presentations in Astronomy - ASTR 297
2021	UCLA	Instructor: Evolution of the Cosmos and Life - CLUSTER 70
2021	UCLA	Instructor: Astrophysics Laboratory - ASTR 180
2020	UCLA	Instructor: Evolution of the Cosmos and Life - CLUSTER 70
2020	UCLA	Instructor: Nature of the Universe - ASTR 3
2011	UC Berkeley	Graduate Student Instructor: The Planets
2011	UC Berkeley	Graduate Student Instructor: Optical/IR Lab

## STUDENT MENTORSHIP

### **Dakotah Tyler, UCLA Graduate Student (2020–present)**

Project: Observations of exoplanet exospheres and mass-loss.

### **Isabel Angelo, UCLA Graduate Student (2019–present)**

Project: Understanding the extreme eccentricity of KOI-367

### **Judah Van Zandt, UCLA Graduate Student (2019–present)**

Project: RV survey of distant giant companions to TESS exoplanets

### **Mason MacDougall, UCLA Graduate Student (2018–present)**

Project: Exoplanet eccentricities

### **Grant Regen, Stanford Undergraduate (2018–2020)**

Project: Transmission spectroscopy of sub-Saturns

### **Aida Behmard, Caltech Graduate Student (2017–2019)**

Project: Spectroscopic characterization of cool stars.

### **Sarah Blunt, Caltech Postbaccalaureate Scholar (2017–2019)**

Project: Gaussian process noise modeling of RV timeseries.

### **Madison Brady, Caltech Undergraduate (2017–2018)**

Project: Mass and eccentricity measurements through radial velocities.

### **Samuel Yee, Caltech Undergraduate (2016–2018)**

Project: Created an open-source library of high resolution, high signal-to-noise spectra of touchstone stars and developed a classification algorithm called “SpecMatch-Empirical” (published in *ApJ*, [Project Website]).

### **Trevor David, Caltech Graduate Student (2015–2017)**

Projects: Served as a co-adviser with Lynne Hillenbrand on several projects to study planet formation around young stars. This includes the discovery of K2-33b, a Neptune-sized planet transiting a newborn star (published in *Nature*).

# SELECTED PUBLICATIONS (1ST-3RD AUTHOR)

Publications have received 3838 citations as of 2022-02-15 (NASA astrophysics data system)

1. Masuda, K., **Petigura, E. A.**, and Hall, O. J. 2022, “Inferring the rotation period distribution of stars from their projected rotation velocities and radii: Application to late-F/early-G Kepler stars”, *Monthly Notices of the Royal Astronomical Society*, 510, 5623. [\[ADS\]](#).
2. **Petigura, E. A.**, Rogers, J. G., Isaacson, H., and 10 colleagues 2022, “The California-Kepler Survey. X. The Radius Gap as a Function of Stellar Mass, Metallicity, and Age”, accepted for publication in *The Astronomical Journal*. [\[ADS\]](#).
3. MacDougall, M. G., **Petigura, E. A.**, Angelo, I., and 45 colleagues 2021, “The TESS-Keck Survey. VI. Two Eccentric Sub-Neptunes Orbiting HIP-97166”, *The Astronomical Journal*, 162, 265. [\[ADS\]](#).
4. Johnson, M. C., David, T. J., **Petigura, E. A.**, and 22 colleagues 2021, “An Aligned Orbit for the Young Planet V1298 Tau b” accepted for publication in *The Astronomical Journal*. [\[ADS\]](#).
5. Louden, E. M., Winn, J. N., **Petigura, E. A.**, and 5 colleagues 2021, “Hot Stars with Kepler Planets Have High Obliquities”, *The Astronomical Journal*, 161, 68. [\[ADS\]](#).
6. Petit, A. C., **Petigura, E. A.**, Davies, M. B., and 1 colleagues 2020, “Resonance in the K2-19 system is at odds with its high reported eccentricities”, *Monthly Notices of the Royal Astronomical Society*, 496, 3101. [\[ADS\]](#).
7. **Petigura, E. A.** 2020, “Two Views of the Radius Gap and the Role of Light Curve Fitting”, *The Astronomical Journal*, 160, 89. [\[ADS\]](#).
8. Millholland, S., **Petigura, E.**, and Batygin, K. 2020, “Tidal Inflation Reconciles Low-density Sub-Saturns with Core Accretion”, *The Astrophysical Journal*, 897, 7. [\[ADS\]](#).
9. Weiss, L. M. and **Petigura, E. A.** 2020, “The Kepler Peas in a Pod Pattern is Astrophysical”, *The Astrophysical Journal*, 893, L1. [\[ADS\]](#).
10. **Petigura, E. A.**, Livingston, J., Batygin, K., and 11 colleagues 2020, “K2-19b and c are in a 3:2 Commensurability but out of Resonance: A Challenge to Planet Assembly by Convergent Migration”, *The Astronomical Journal*, 159, 2. [\[ADS\]](#).
11. David, T. J., **Petigura, E. A.**, Luger, R., and 4 colleagues 2019, “Four Newborn Planets Transiting the Young Solar Analog V1298 Tau”, *The Astrophysical Journal*, 885, L12. [\[ADS\]](#).
12. Behrmard, A., **Petigura, E. A.**, and Howard, A. W. 2019, “Data-driven Spectroscopy of Cool Stars at High Spectral Resolution”, *The Astrophysical Journal*, 876, 68. [\[ADS\]](#).
13. Mills, S. M., Howard, A. W., **Petigura, E. A.**, and 3 colleagues 2019, “The California-Kepler Survey. VIII. Eccentricities of Kepler Planets and Tentative Evidence of a High-metallicity Preference for Small Eccentric Planets”, *The Astronomical Journal*, 157, 198. [\[ADS\]](#).
14. Livingston, J. H., Crossfield, I. J. M., **Petigura, E. A.**, and 13 colleagues 2018, “Sixty Validated Planets from K2 Campaigns 5-8”, *The Astronomical Journal*, 156, 277. [\[ADS\]](#).
15. Fulton, B. J. and **Petigura, E. A.** 2018, “The California-Kepler Survey. VII. Precise Planet Radii Leveraging Gaia DR2 Reveal the Stellar Mass Dependence of the Planet Radius Gap”, *The Astronomical Journal*, 156, 264. [\[ADS\]](#).
16. Brady, M. T., **Petigura, E. A.**, Knutson, H. A., and 6 colleagues 2018, “Kepler-1656b: A Dense Sub-Saturn with an Extreme Eccentricity”, *The Astronomical Journal*, 156, 147. [\[ADS\]](#).
17. **Petigura, E. A.**, Benneke, B., Batygin, K., and 8 colleagues 2018, “Dynamics and Formation of the Near-resonant K2-24 System: Insights from Transit-timing Variations and Radial Velocities”, *The Astronomical Journal*, 156, 89. [\[ADS\]](#).
18. Yee, S. W., **Petigura, E. A.**, Fulton, B. J., and 10 colleagues 2018, “HAT-P-11: Discovery of a Second Planet and a Clue to Understanding Exoplanet Obliquities”, *The Astronomical Journal*, 155, 255. [\[ADS\]](#).

19. Fulton, B. J., **Petigura, E. A.**, Blunt, S., and 1 colleagues 2018, “RadVel: The Radial Velocity Modeling Toolkit”, *Publications of the Astronomical Society of the Pacific*, 130, 044504. [ADS].
20. **Petigura, E. A.**, Marcy, G. W., Winn, J. N., and 7 colleagues 2018, “The California-Kepler Survey. IV. Metal-rich Stars Host a Greater Diversity of Planets”, *The Astronomical Journal*, 155, 89. [ADS].
21. **Petigura, E. A.**, Crossfield, I. J. M., Isaacson, H., and 10 colleagues 2018, “Planet Candidates from K2 Campaigns 5-8 and Follow-up Optical Spectroscopy”, *The Astronomical Journal*, 155, 21. [ADS].
22. Weiss, L. M., Marcy, G. W., **Petigura, E. A.**, and 10 colleagues 2018, “The California-Kepler Survey. V. Peas in a Pod: Planets in a Kepler Multi-planet System Are Similar in Size and Regularly Spaced”, *The Astronomical Journal*, 155, 48. [ADS].
23. Winn, J. N., **Petigura, E. A.**, Morton, T. D., and 8 colleagues 2017, “Constraints on the Obliquities of Kepler Planet-hosting Stars”, *The Astronomical Journal*, 154, 270. [ADS].
24. **Petigura, E. A.**, Howard, A. W., Marcy, G. W., and 12 colleagues 2017, “The California-Kepler Survey. I. High-resolution Spectroscopy of 1305 Stars Hosting Kepler Transiting Planets”, *The Astronomical Journal*, 154, 107. [ADS].
25. Johnson, J. A., **Petigura, E. A.**, Fulton, B. J., and 11 colleagues 2017, “The California-Kepler Survey. II. Precise Physical Properties of 2025 Kepler Planets and Their Host Stars”, *The Astronomical Journal*, 154, 108. [ADS].
26. Fulton, B. J., **Petigura, E. A.**, Howard, A. W., and 10 colleagues 2017, “The California-Kepler Survey. III. A Gap in the Radius Distribution of Small Planets”, *The Astronomical Journal*, 154, 109. [ADS].
27. Sinukoff, E., Howard, A. W., **Petigura, E. A.**, and 20 colleagues 2017, “K2-66b and K2-106b: Two Extremely Hot Sub-Neptune-size Planets with High Densities”, *The Astronomical Journal*, 153, 271. [ADS].
28. **Petigura, E. A.**, Sinukoff, E., Lopez, E. D., and 12 colleagues 2017, “Four Sub-Saturns with Dissimilar Densities: Windows into Planetary Cores and Envelopes”, *The Astronomical Journal*, 153, 142. [ADS].
29. David, T. J., **Petigura, E. A.**, Hillenbrand, L. A., and 14 colleagues 2017, “A Transient Transit Signature Associated with the Young Star RIK-210”, *The Astrophysical Journal*, 835, 168. [ADS].
30. Sinukoff, E., Howard, A. W., **Petigura, E. A.**, and 19 colleagues 2017, “Mass Constraints of the WASP-47 Planetary System from Radial Velocities”, *The Astronomical Journal*, 153, 70. [ADS].
31. Yee, S. W., **Petigura, E. A.**, and von Braun, K. 2017, “Precision Stellar Characterization of FGKM Stars using an Empirical Spectral Library”, *The Astrophysical Journal*, 836, 77. [ADS].
32. Benneke, B., Werner, M., **Petigura, E.**, and 13 colleagues 2017, “Spitzer Observations Confirm and Rescue the Habitable-zone Super-Earth K2-18b for Future Characterization”, *The Astrophysical Journal*, 834, 187. [ADS].
33. Crossfield, I. J. M., Ciardi, D. R., **Petigura, E. A.**, and 41 colleagues 2016, “197 Candidates and 104 Validated Planets in K2’s First Five Fields”, *The Astrophysical Journal Supplement Series*, 226, 7. [ADS].
34. Sinukoff, E., Howard, A. W., **Petigura, E. A.**, and 14 colleagues 2016, “Eleven Multiplanet Systems from K2 Campaigns 1 and 2 and the Masses of Two Hot Super-Earths”, *The Astrophysical Journal*, 827, 78. [ADS].
35. David, T. J., Hillenbrand, L. A., **Petigura, E. A.**, and 10 colleagues 2016, “A Neptune-sized transiting planet closely orbiting a 5-10-million-year-old star”, *Nature*, 534, 658. [ADS].
36. Schlieder, J. E., Crossfield, I. J. M., **Petigura, E. A.**, and 21 colleagues 2016, “Two Small Temperate Planets Transiting Nearby M Dwarfs in K2 Campaigns 0 and 1”, *The Astrophysical Journal*, 818, 87. [ADS].
37. **Petigura, E. A.**, Howard, A. W., Lopez, E. D., and 11 colleagues 2016, “Two Transiting Low Density Sub-Saturns from K2”, *The Astrophysical Journal*, 818, 36. [ADS].

38. **Petigura, E. A.**, Schlieder, J. E., Crossfield, I. J. M., and 11 colleagues 2015, “Two Transiting Earth-size Planets Near Resonance Orbiting a Nearby Cool Star”, *The Astrophysical Journal*, 811, 102. [\[ADS\]](#).
39. Crossfield, I. J. M., **Petigura, E.**, Schlieder, J. E., and 24 colleagues 2015, “A Nearby M Star with Three Transiting Super-Earths Discovered by K2”, *The Astrophysical Journal*, 804, 10. [\[ADS\]](#).
40. **Petigura, E. A.** 2015, “Prevalence of Earth-size Planets Orbiting Sun-like Stars”, *Ph.D. Thesis*, [\[ADS\]](#).
41. Marcy, G. W., Weiss, L. M., **Petigura, E. A.**, and 3 colleagues 2014, “Occurrence and core-envelope structure of 1-4× Earth-size planets around Sun-like stars”, *Proceedings of the National Academy of Science*, 111, 12655. [\[ADS\]](#).
42. **Petigura, E. A.**, Howard, A. W., and Marcy, G. W. 2013, “Prevalence of Earth-size planets orbiting Sun-like stars”, *Proceedings of the National Academy of Science*, 110, 19273. [\[ADS\]](#).
43. **Petigura, E. A.**, Marcy, G. W., and Howard, A. W. 2013, “A Plateau in the Planet Population below Twice the Size of Earth”, *The Astrophysical Journal*, 770, 69. [\[ADS\]](#).
44. **Petigura, E. A.** and Marcy, G. W. 2012, “Identification and Removal of Noise Modes in Kepler Photometry”, *Publications of the Astronomical Society of the Pacific*, 124, 1073. [\[ADS\]](#).
45. **Petigura, E. A.** and Marcy, G. W. 2011, “Carbon and Oxygen in Nearby Stars: Keys to Protoplanetary Disk Chemistry”, *The Astrophysical Journal*, 735, 41. [\[ADS\]](#).

## OTHER PUBLICATIONS

Publications have received 2856 citations as of 2022-02-15 (NASA astrophysics data system)

42. Dalba, P. A., Kane, S. R., Dragomir, D., and 72 colleagues 2022, “The TESS-Keck Survey. VIII. Confirmation of a Transiting Giant Planet on an Eccentric 261 Day Orbit with the Automated Planet Finder Telescope”, *The Astronomical Journal*, 163, 61. [\[ADS\]](#).
43. Giacalone, S., Dressing, C. D., Hedges, C., and 108 colleagues 2022, “Validation of 13 Hot and Potentially Terrestrial TESS Planets”, *The Astronomical Journal*, 163, 99. [\[ADS\]](#).
44. Lubin, J., Van Zandt, J., Holcomb, R., and 33 colleagues 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”, *The Astronomical Journal*, 163, 101. [\[ADS\]](#).
45. Zink, J. K., Hardegree-Ullman, K. K., Christiansen, J. L., and 6 colleagues 2021, “Scaling K2. IV. A Uniform Planet Sample for Campaigns 1-8 and 10-18”, *The Astronomical Journal*, 162, 259. [\[ADS\]](#).
46. Akana Murphy, J. M., Kosiarek, M. R., Batalha, N. M., and 10 colleagues 2021, “Another Superdense Sub-Neptune in K2-182 b and Refined Mass Measurements for K2-199 b and c”, *The Astronomical Journal*, 162, 294. [\[ADS\]](#).
47. Polanski, A. S., Crossfield, I. J. M., Burt, J. A., and 35 colleagues 2021, “Wolf 503 b: Characterization of a Sub-Neptune Orbiting a Metal-poor K Dwarf”, *The Astronomical Journal*, 162, 238. [\[ADS\]](#).
48. Scarsdale, N., Murphy, J. M. A., Batalha, N. M., and 55 colleagues 2021, “TESS-Keck Survey. V. Twin Sub-Neptunes Transiting the Nearby G Star HD 63935”, *The Astronomical Journal*, 162, 215. [\[ADS\]](#).
49. Dalba, P. A., Kane, S. R., Li, Z., and 13 colleagues 2021, “Giant Outer Transiting Exoplanet Mass (GOT-EM) Survey. II. Discovery of a Failed Hot Jupiter on a 2.7 Yr, Highly Eccentric Orbit”, *The Astronomical Journal*, 162, 154. [\[ADS\]](#).
50. Osborn, A., Armstrong, D. J., Cale, B., and 125 colleagues 2021, “TOI-431/HIP 26013: a super-Earth and a sub-Neptune transiting a bright, early K dwarf, with a third RV planet”, *Monthly Notices of the Royal Astronomical Society*, 507, 2782. [\[ADS\]](#).



51. Zhang, J., Weiss, L. M., Huber, D., and 10 colleagues 2021, “Long-period Jovian Tilts the Orbits of Two sub-Neptunes Relative to Stellar Spin Axis in Kepler-129”, *The Astronomical Journal*, 162, 89. [\[ADS\]](#).
52. Dai, F., Howard, A. W., Batalha, N. M., and 48 colleagues 2021, “TKS X: Confirmation of TOI-1444b and a Comparative Analysis of the Ultra-short-period Planets with Hot Neptunes”, *The Astronomical Journal*, 162, 62. [\[ADS\]](#).
53. Rosenthal, L. J., Fulton, B. J., Hirsch, L. A., and 20 colleagues 2021, “The California Legacy Survey. I. A Catalog of 178 Planets from Precision Radial Velocity Monitoring of 719 Nearby Stars over Three Decades”, *The Astrophysical Journal Supplement Series*, 255, 8. [\[ADS\]](#).
54. Fulton, B. J., Rosenthal, L. J., Hirsch, L. A., and 20 colleagues 2021, “California Legacy Survey. II. Occurrence of Giant Planets beyond the Ice Line”, *The Astrophysical Journal Supplement Series*, 255, 14. [\[ADS\]](#).
55. David, T. J., Contardo, G., Sandoval, A., and 8 colleagues 2021, “Evolution of the Exoplanet Size Distribution: Forming Large Super-Earths Over Billions of Years”, *The Astronomical Journal*, 161, 265. [\[ADS\]](#).
56. Hirsch, L. A., Rosenthal, L., Fulton, B. J., and 10 colleagues 2021, “Understanding the Impacts of Stellar Companions on Planet Formation and Evolution: A Survey of Stellar and Planetary Companions within 25 pc”, *The Astronomical Journal*, 161, 134. [\[ADS\]](#).
57. Rubenzahl, R. A., Dai, F., Howard, A. W., and 21 colleagues 2021, “The TESS-Keck Survey. IV. A Retrograde, Polar Orbit for the Ultra-low-density, Hot Super-Neptune WASP-107b”, *The Astronomical Journal*, 161, 119. [\[ADS\]](#).
58. Piaulet, C., Benneke, B., Rubenzahl, R. A., and 21 colleagues 2021, “WASP-107b’s Density Is Even Lower: A Case Study for the Physics of Planetary Gas Envelope Accretion and Orbital Migration”, *The Astronomical Journal*, 161, 70. [\[ADS\]](#).
59. Dedrick, C. M., Fulton, B. J., Knutson, H. A., and 14 colleagues 2021, “Two Planets Straddling the Habitable Zone of the Nearby K Dwarf Gl 414A”, *The Astronomical Journal*, 161, 86. [\[ADS\]](#).
60. Weiss, L. M., Dai, F., Huber, D., and 61 colleagues 2021, “The TESS-Keck Survey. II. An Ultra-short-period Rocky Planet and Its Siblings Transiting the Galactic Thick-disk Star TOI-561”, *The Astronomical Journal*, 161, 56. [\[ADS\]](#).
61. Kosiarek, M. R., Berardo, D. A., Crossfield, I. J. M., and 42 colleagues 2021, “Physical Parameters of the Multiplanet Systems HD 106315 and GJ 9827”, *The Astronomical Journal*, 161, 47. [\[ADS\]](#).
62. Mikal-Evans, T., Crossfield, I. J. M., Benneke, B., and 26 colleagues 2021, “Transmission Spectroscopy for the Warm Sub-Neptune HD 3167c: Evidence for Molecular Absorption and a Possible High-metallicity Atmosphere”, *The Astronomical Journal*, 161, 18. [\[ADS\]](#).
63. Dai, F., Roy, A., Fulton, B., and 43 colleagues 2020, “The TESS-Keck Survey. III. A Stellar Obliquity Measurement of TOI-1726 c”, *The Astronomical Journal*, 160, 193. [\[ADS\]](#).
64. Carleo, I., Gandolfi, D., Barragán, O., and 110 colleagues 2020, “The Multiplanet System TOI-421”, *The Astronomical Journal*, 160, 114. [\[ADS\]](#).
65. Zink, J. K., Hardegree-Ullman, K. K., Christiansen, J. L., and 5 colleagues 2020, “Scaling K2. III. Comparable Planet Occurrence in the FGK Samples of Campaign 5 and Kepler”, *The Astronomical Journal*, 160, 94. [\[ADS\]](#).
66. Dai, F., Winn, J. N., Schlaufman, K., and 5 colleagues 2020, “California-Kepler Survey. IX. Revisiting the Minimum-mass Extrasolar Nebula with Precise Stellar Parameters”, *The Astronomical Journal*, 159, 247. [\[ADS\]](#).
67. Guo, X., Crossfield, I. J. M., Dragomir, D., and 23 colleagues 2020, “Updated Parameters and a New Transmission Spectrum of HD 97658b”, *The Astronomical Journal*, 159, 239. [\[ADS\]](#).

68. Dalba, P. A., Gupta, A. F., Rodriguez, J. E., and 63 colleagues 2020, “The TESS-Keck Survey. I. A Warm Sub-Saturn-mass Planet and a Caution about Stray Light in TESS Cameras”, *The Astronomical Journal*, 159, 241. [ADS].
69. Weiss, L. M., Fabrycky, D. C., Agol, E., and 7 colleagues 2020, “The Discovery of the Long-Period, Eccentric Planet Kepler-88 d and System Characterization with Radial Velocities and Photodynamical Analysis”, *The Astronomical Journal*, 159, 242. [ADS].
70. Zink, J. K., Hardegree-Ullman, K. K., Christiansen, J. L., and 5 colleagues 2020, “Scaling K2. II. Assembly of a Fully Automated C5 Planet Candidate Catalog Using EDI-Vetter”, *The Astronomical Journal*, 159, 154. [ADS].
71. Batygin, K., Adams, F. C., Batygin, Y. K., and 1 colleagues 2020, “Dynamics of Planetary Systems within Star Clusters: Aspects of the Solar System’s Early Evolution”, *The Astronomical Journal*, 159, 101. [ADS].
72. Blunt, S., Endl, M., Weiss, L. M., and 25 colleagues 2019, “Radial Velocity Discovery of an Eccentric Jovian World Orbiting at 18 au”, *The Astronomical Journal*, 158, 181. [ADS].
73. Crossfield, I. J. M., Waalkes, W., Newton, E. R., and 57 colleagues 2019, “A Super-Earth and Sub-Neptune Transiting the Late-type M Dwarf LP 791-18”, *The Astrophysical Journal*, 883, L16. [ADS].
74. David, T. J., Cody, A. M., Hedges, C. L., and 14 colleagues 2019, “A Warm Jupiter-sized Planet Transiting the Pre-main-sequence Star V1298 Tau”, *The Astronomical Journal*, 158, 79. [ADS].
75. Yahalom, D. A., Shvartzvald, Y., Agol, E., and 10 colleagues 2019, “The Mass of the White Dwarf Companion in the Self-lensing Binary KOI-3278: Einstein versus Newton”, *The Astrophysical Journal*, 880, 33. [ADS].
76. Berardo, D., Crossfield, I. J. M., Werner, M., and 12 colleagues 2019, “Revisiting the HIP 41378 System with K2 and Spitzer”, *The Astronomical Journal*, 157, 185. [ADS].
77. Mills, S. M., Howard, A. W., Weiss, L. M., and 7 colleagues 2019, “Long-period Giant Companions to Three Compact, Multiplanet Systems”, *The Astronomical Journal*, 157, 145. [ADS].
78. Livingston, J. H., Crossfield, I. J. M., Werner, M. W., and 21 colleagues 2019, “Spitzer Transit Follow-up of Planet Candidates from the K2 Mission”, *The Astronomical Journal*, 157, 102. [ADS].
79. Kosiarek, M. R., Blunt, S., López-Morales, M., and 43 colleagues 2019, “K2-291b: A Rocky Super-Earth in a 2.2 day Orbit”, *The Astronomical Journal*, 157, 116. [ADS].
80. Kosiarek, M. R., Crossfield, I. J. M., Hardegree-Ullman, K. K., and 36 colleagues 2019, “Bright Opportunities for Atmospheric Characterization of Small Planets: Masses and Radii of K2-3 b, c, and d and GJ3470 b from Radial Velocity Measurements and Spitzer Transits”, *The Astronomical Journal*, 157, 97. [ADS].
81. Wang, S., Jones, M., Shporer, A., and 58 colleagues 2019, “HD 202772A b: A Transiting Hot Jupiter around a Bright, Mildly Evolved Star in a Visual Binary Discovered by TESS”, *The Astronomical Journal*, 157, 51. [ADS].
82. Feinstein, A. D., Schlieder, J. E., Livingston, J. H., and 23 colleagues 2019, “K2-288Bb: A Small Temperate Planet in a Low-mass Binary System Discovered by Citizen Scientists”, *The Astronomical Journal*, 157, 40. [ADS].
83. Mawet, D., Hirsch, L., Lee, E. J., and 27 colleagues 2019, “Deep Exploration of  $\epsilon$  Eridani with Keck Ms-band Vortex Coronagraphy and Radial Velocities: Mass and Orbital Parameters of the Giant Exoplanet”, *The Astronomical Journal*, 157, 33. [ADS].
84. Weiss, L. M., Isaacson, H. T., Marcy, G. W., and 8 colleagues 2018, “The California-Kepler Survey. VI. Kepler Multis and Singles Have Similar Planet and Stellar Properties Indicating a Common Origin”, *The Astronomical Journal*, 156, 254. [ADS].
85. David, T. J., Mamajek, E. E., Vanderburg, A., and 19 colleagues 2018, “Discovery of a Transiting Adolescent Sub-Neptune Exoplanet with K2”, *The Astronomical Journal*, 156, 302. [ADS].



86. Crossfield, I. J. M., Guerrero, N., David, T., and 40 colleagues 2018, “A TESS Dress Rehearsal: Planetary Candidates and Variables from K2 Campaign 17”, *The Astrophysical Journal Supplement Series*, 239, 5. [\[ADS\]](#).
87. Peterson, M. S., Benneke, B., David, T. J., and 21 colleagues 2018, “A  $2 R_{\oplus}$  Planet Orbiting the Bright Nearby K Dwarf Wolf 503”, *The Astronomical Journal*, 156, 188. [\[ADS\]](#).
88. Van Eylen, V., Agentoft, C., Lundkvist, M. S., and 5 colleagues 2018, “An asteroseismic view of the radius valley: stripped cores, not born rocky”, *Monthly Notices of the Royal Astronomical Society*, 479, 4786. [\[ADS\]](#).
89. Yu, L., Rodriguez, J. E., Eastman, J. D., and 25 colleagues 2018, “Two Warm, Low-density Sub-Jovian Planets Orbiting Bright Stars in K2 Campaigns 13 and 14”, *The Astronomical Journal*, 156, 127. [\[ADS\]](#).
90. Dressing, C. D., Sinukoff, E., Fulton, B. J., and 23 colleagues 2018, “Characterizing K2 Candidate Planetary Systems Orbiting Low-mass Stars. III. A High Mass and Low Envelope Fraction for the Warm Neptune K2-55b”, *The Astronomical Journal*, 156, 70. [\[ADS\]](#).
91. Furlan, E., Ciardi, D. R., Cochran, W. D., and 22 colleagues 2018, “The Kepler Follow-up Observation Program. II. Stellar Parameters from Medium- and High-resolution Spectroscopy”, *The Astrophysical Journal*, 861, 149. [\[ADS\]](#).
92. Yu, L., Crossfield, I. J. M., Schlieder, J. E., and 20 colleagues 2018, “Planetary Candidates from K2 Campaign 16”, *The Astronomical Journal*, 156, 22. [\[ADS\]](#).
93. David, T. J., Crossfield, I. J. M., Benneke, B., and 14 colleagues 2018, “Three Small Planets Transiting the Bright Young Field Star K2-233”, *The Astronomical Journal*, 155, 222. [\[ADS\]](#).
94. Bowler, B. P., Dupuy, T. J., Endl, M., and 11 colleagues 2018, “Orbit and Dynamical Mass of the Late-T Dwarf GL 758 B”, *The Astronomical Journal*, 155, 159. [\[ADS\]](#).
95. Beichman, C. A., Giles, H. A. C., Akeson, R., and 12 colleagues 2018, “Validation and Initial Characterization of the Long-period Planet Kepler-1654 b”, *The Astronomical Journal*, 155, 158. [\[ADS\]](#).
96. Mayo, A. W., Vanderburg, A., Latham, D. W., and 25 colleagues 2018, “275 Candidates and 149 Validated Planets Orbiting Bright Stars in K2 Campaigns 0-10”, *The Astronomical Journal*, 155, 136. [\[ADS\]](#).
97. Smith, A. M. S., Cabrera, J., Csizmadia, S., and 34 colleagues 2018, “K2-137 b: an Earth-sized planet in a 4.3-h orbit around an M-dwarf”, *Monthly Notices of the Royal Astronomical Society*, 474, 5523. [\[ADS\]](#).
98. Christiansen, J. L., Crossfield, I. J. M., Barentsen, G., and 24 colleagues 2018, “The K2-138 System: A Near-resonant Chain of Five Sub-Neptune Planets Discovered by Citizen Scientists”, *The Astronomical Journal*, 155, 57. [\[ADS\]](#).
99. Saylor, D., Lepine, S., Crossfield, I., and 1 colleagues 2018, “Light-curve Modulation of Low-mass Stars in K2. I. Identification of 481 Fast Rotators in the Solar Neighborhood”, *The Astronomical Journal*, 155, 23. [\[ADS\]](#).
100. Ciardi, D. R., Crossfield, I. J. M., Feinstein, A. D., and 14 colleagues 2018, “K2-136: A Binary System in the Hyades Cluster Hosting a Neptune-sized Planet”, *The Astronomical Journal*, 155, 10. [\[ADS\]](#).
101. Grunblatt, S. K., Huber, D., Gaidos, E., and 15 colleagues 2017, “Seeing Double with K2: Testing Re-inflation with Two Remarkably Similar Planets around Red Giant Branch Stars”, *The Astronomical Journal*, 154, 254. [\[ADS\]](#).
102. Torres, G., Kane, S. R., Rowe, J. F., and 16 colleagues 2017, “Validation of Small Kepler Transiting Planet Candidates in or near the Habitable Zone”, *The Astronomical Journal*, 154, 264. [\[ADS\]](#).
103. Dressing, C. D., Vanderburg, A., Schlieder, J. E., and 14 colleagues 2017, “Characterizing K2 Candidate Planetary Systems Orbiting Low-mass Stars. II. Planetary Systems Observed During Campaigns 1-7”, *The Astronomical Journal*, 154, 207. [\[ADS\]](#).

104. Christiansen, J. L., Vanderburg, A., Burt, J., and 55 colleagues 2017, “Three’s Company: An Additional Non-transiting Super-Earth in the Bright HD 3167 System, and Masses for All Three Planets”, *The Astronomical Journal*, 154, 122. [\[ADS\]](#).
105. Winn, J. N., Sanchis-Ojeda, R., Rogers, L., and 7 colleagues 2017, “Absence of a Metallicity Effect for Ultra-short-period Planets”, *The Astronomical Journal*, 154, 60. [\[ADS\]](#).
106. Crossfield, I. J. M., Ciardi, D. R., Isaacson, H., and 21 colleagues 2017, “Two Small Transiting Planets and a Possible Third Body Orbiting HD 106315”, *The Astronomical Journal*, 153, 255. [\[ADS\]](#).
107. Weiss, L. M., Deck, K. M., Sinukoff, E., and 10 colleagues 2017, “New Insights on Planet Formation in WASP-47 from a Simultaneous Analysis of Radial Velocities and Transit Timing Variations”, *The Astronomical Journal*, 153, 265. [\[ADS\]](#).
108. Rappaport, S., Vanderburg, A., Borkovits, T., and 15 colleagues 2017, “EPIC 220204960: A Quadruple Star System Containing Two Strongly Interacting Eclipsing Binaries”, *Monthly Notices of the Royal Astronomical Society*, 467, 2160. [\[ADS\]](#).
109. Martinez, A. O., Crossfield, I. J. M., Schlieder, J. E., and 12 colleagues 2017, “Stellar and Planetary Parameters for K2’s Late-type Dwarf Systems from C1 to C5”, *The Astrophysical Journal*, 837, 72. [\[ADS\]](#).
110. Bayliss, D., Hojjatpanah, S., Santerne, A., and 34 colleagues 2017, “EPIC 201702477b: A Transiting Brown Dwarf from K2 in a 41 day Orbit”, *The Astronomical Journal*, 153, 15. [\[ADS\]](#).
111. Grunblatt, S. K., Huber, D., Gaidos, E. J., and 11 colleagues 2016, “K2-97b: A (Re-?)Inflated Planet Orbiting a Red Giant Star”, *The Astronomical Journal*, 152, 185. [\[ADS\]](#).
112. Obermeier, C., Henning, T., Schlieder, J. E., and 21 colleagues 2016, “K2 Discovers a Busy Bee: An Unusual Transiting Neptune Found in the Beehive Cluster”, *The Astronomical Journal*, 152, 223. [\[ADS\]](#).
113. Fulton, B. J., Howard, A. W., Weiss, L. M., and 17 colleagues 2016, “Three Temperate Neptunes Orbiting Nearby Stars”, *The Astrophysical Journal*, 830, 46. [\[ADS\]](#).
114. Beichman, C., Livingston, J., Werner, M., and 14 colleagues 2016, “Spitzer Observations of Exoplanets Discovered with the Kepler K2 Mission”, *The Astrophysical Journal*, 822, 39. [\[ADS\]](#).
115. Mills, S. M., Fabrycky, D. C., Migaszewski, C., and 3 colleagues 2016, “A resonant chain of four transiting, sub-Neptune planets”, *Nature*, 533, 509. [\[ADS\]](#).
116. Morton, T. D., Bryson, S. T., Coughlin, J. L., and 5 colleagues 2016, “False Positive Probabilities for all Kepler Objects of Interest: 1284 Newly Validated Planets and 428 Likely False Positives”, *The Astrophysical Journal*, 822, 86. [\[ADS\]](#).
117. Kipping, D. M., Torres, G., Henze, C., and 8 colleagues 2016, “A Transiting Jupiter Analog”, *The Astrophysical Journal*, 820, 112. [\[ADS\]](#).
118. Sanchis-Ojeda, R., Winn, J. N., Dai, F., and 9 colleagues 2015, “A Low Stellar Obliquity for WASP-47, a Compact Multiplanet System with a Hot Jupiter and an Ultra-short Period Planet”, *The Astrophysical Journal*, 812, L11. [\[ADS\]](#).
119. Jenkins, J. M., Twicken, J. D., Batalha, N. M., and 26 colleagues 2015, “Discovery and Validation of Kepler-452b: A 1.6  $R_E$  Super Earth Exoplanet in the Habitable Zone of a G2 Star”, *The Astronomical Journal*, 150, 56. [\[ADS\]](#).
120. Torres, G., Kipping, D. M., Fressin, F., and 23 colleagues 2015, “Validation of 12 Small Kepler Transiting Planets in the Habitable Zone”, *The Astrophysical Journal*, 800, 99. [\[ADS\]](#).
121. Marcy, G. W., Isaacson, H., Howard, A. W., and 100 colleagues 2014, “Masses, Radii, and Orbits of Small Kepler Planets: The Transition from Gaseous to Rocky Planets”, *The Astrophysical Journal Supplement Series*, 210, 20. [\[ADS\]](#).
122. Lyapin, A., Schreiber, H. J., Viti, M., and 29 colleagues 2011, “Results from a prototype chicane-based energy spectrometer for a Linear Collider”, *Journal of Instrumentation*, 6, 2002. [\[ADS\]](#).

123. Aubert, B., Karyotakis, Y., Lees, J. P., and 491 colleagues 2009, “Search for Dimuon Decays of a Light Scalar Boson in Radiative Transitions  $\Upsilon \rightarrow \gamma A^0$ ”, *Physical Review Letters*, 103, 081803. [\[ADS\]](#).