Erik Petigura

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

2024–	Associate Professor, University of California, Los Angeles
2019–2024	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; transits; astrometry; 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

Date	**Venue**
May 2026	Astronomy Department Colloquium, University of Kyoto, Japan
May 2026	OUTAP Colloquium, University of Osaka, Japan
May 2026	Earth and Space Sciences Seminar, University of Osaka, Japan
Apr 2026	NAOJ Science Colloquium, Tokyo, Japan
Apr 2026	ISAS Space Science Colloquium, JAXA, Tokyo, Japan
Aug 2025	Invited Speaker, CIERA Fellows at 15, Northwestern University
Jun 2024	Plenary Talk at Exoplanets V, Leiden, Netherlands
Jan 2024	Geological and Planetary Sciences Division Seminar, Caltech
Nov 2023	Astronomy Colloquium, UC Berkeley
Nov 2023	Physics & Astronomy Colloquium, UCLA
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

Date	Venue
Apr 2026	Planetary Science Seminar, NAOJ, Tokyo, Japan
Apr 2026	Seminar, Institute of Astronomy, University of Toyko
May 2025	Astro Society, UCLA
Mar 2025	EDM I : Exoplanet Dynamics & Modeling, Caltech
Apr 2023	Extreme Precision Radial Velocities V, Santa Barbara California
Feb 2022	Exocoffee, MPIA [remote]
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
2025	UCLA	Instructor: Planets and Exoplanets - ASTR 143
2024	UCLA	Instructor: Radiative Processes - ASTR 271
2024	UCLA	Instructor: Evolution of the Cosmos and Life - CLUSTER 70
2024	UCLA	Instructor: Planets and Exoplanets - ASTR 143
2023	UCLA	Instructor: Radiative Processes - ASTR 271
2023	UCLA	Instructor: Evolution of the Cosmos and Life - CLUSTER 70
2022	UCLA	Instructor: Evolution of the Cosmos and Life - CLUSTER 70
2022	UCLA	Instructor: 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

Mentorship

Paige Entrican, UCLA Undergraduate and Postbac (2023–present)
Project: Characterizing the eccentricities of small planets from the *Kepler* mission. Key finding: "Planets larger than Neptune have elevated eccentricities" by Gilbert, Petigura, and Entrican (2025, *PNAS*).

Jack Lubin, UCLA postdoc (2023–present)
Projects: Lubin is serving as the Project Scientist of the KPF Community Cadence initiative; studies of spin-orbit alignment between small, close-in planets and their host stars.

Luke Handley, UCLA Undergraduate (2022–2023)
Project: Automated scheduling of Keck Planet Finder observations.

Gregory Gilbert, UCLA Postdoc (2021–2025)
Project: Characterizing the eccentricities of small planets from the *Kepler* mission. Key finding: "Planets larger than Neptune have elevated eccentricities" by Gilbert, Petigura, and Entrican (2025, *PNAS*).

Dakotah Tyler, UCLA Graduate Student (2020–2025)
Served as Tyler's thesis advisor. Tyler completed his thesis titled "Observational Investigations of Mass-Loss for Close-In Exoplanets" in 2025. Tyler's discovery of a long and time-variable tail trailing WASP-69b was featured in the *New York Times*, among other places.

Isabel Angelo, UCLA Graduate Student (2019–2025)
Served as Angelo's primary thesis advisor alongside Smadar Naoz (UCLA) and Megan Bedell (Flatiron). Angelo completed her thesis titled "Planets and their Hidden Companions" in 2025.

Jon Zink, UCLA Graduate Student and Postdoc (2019–2021)
Project: Detection, characterization, and demographic analysis of exoplanets from K2 photometry. Co-advised with Jessie Christiansen (IPAC) and Brad Hansen (UCLA). A key result was the detection of 366 new extrasolar planets (published in AJ, press release through UCLA, coverage in Newsweek and other sources).

Judah Van Zandt, UCLA Graduate Student (2019–2025)
Served as Van Zandt's thesis advisor. Van Zandt completed his thesis titled "The Prevalence of Distant Giant Planets in the Presence of Close-In Small Planets" in 2025.

Mason MacDougall, UCLA Graduate Student (2018–2023)
Served as MacDougall's thesis advisor. MacDougall completed his thesis titled "The Orbital Eccentricities of Small Planets" in 2023.

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)
Projects: 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]). Also, the discovery, characterization, and dynamical analysis of HAT-P-11c.

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 7171 citations as of 2026-03-06 (NASA astrophysics data system)

1. Angelo, I., **Petigura, E.**, and Bedell, M. 2026, "Seeking Spectroscopic Binaries with Data-driven Models", *The Astrophysical Journal*, 997, 238. [ADS].
2. Gilbert, G. J., Van Zandt, J., **Petigura, E. A.**, and 3 colleagues 2026, "Orbital Eccentricities Suggest a Gradual Transition from Giant Planets to Brown Dwarfs", *The Astronomical Journal*, 171, 67. [ADS].
3. Lubin, J., **Petigura, E. A.**, Mišić, V. V., and 2 colleagues 2026, "AstroQ: Automated Scheduling of Cadenced Astronomical Observations", *The Astronomical Journal*, 171, 85. [ADS].
4. Entrican, P. M., **Petigura, E. A.**, Petit, A. C., and 2 colleagues 2026, "A Decade of Transit-timing Measurements Confirm Resonance in the K2-19 System", *The Astronomical Journal*, 171, 46. [ADS].
5. Livingston, J. H., **Petigura, E. A.**, David, T. J., and 39 colleagues 2026, "A young progenitor for the most common planetary systems in the Galaxy", *Nature*, 649, 310. [ADS].
6. Van Zandt, J., **Petigura, E. A.**, Lubin, J., and 35 colleagues 2025, "The TESS-Keck Survey. XXIV. Outer Giants May Be More Prevalent in the Presence of Inner Small Planets", *The Astronomical Journal*, 169, 235. [ADS].
7. Gilbert, G. J., **Petigura, E. A.**, and Entrican, P. M. 2025, "Planets larger than Neptune have elevated eccentricities", *Proceedings of the National Academy of Science*, 122, e2405295122. [ADS].
8. Tyler, D., **Petigura, E. A.**, Rogers, J., and 5 colleagues 2025, "Revised Masses for Low-density Planets Orbiting the Disordered M-dwarf System TOI-1266", *The Astronomical Journal*, 169, 109. [ADS].
9. Van Zandt, J. and **Petigura, E. A.** 2024, "No Evidence for a Metallicity-dependent Enhancement of Distant Giant Companions to Close-in Small Planets in the California Legacy Survey", *The Astronomical Journal*, 168, 268. [ADS].
10. Lubin, J., **Petigura, E. A.**, Van Zandt, J., and 25 colleagues 2024, "The HD 191939 Exoplanet System is Well Aligned and Flat", *The Astronomical Journal*, 168, 196. [ADS].
11. Angelo, I., Bedell, M., **Petigura, E.**, and 1 colleagues 2024, "A Data-driven Spectral Model of Main-sequence Stars in Gaia DR3", *The Astrophysical Journal*, 974, 43. [ADS].
12. Van Zandt, J. and **Petigura, E. A.** 2024, "ethraid: A Simple Method for Characterizing Long-period Companions Using Doppler, Astrometric, and Imaging Constraints", *The Astronomical Journal*, 167, 250. [ADS].
13. Handley, L. B., **Petigura, E. A.**, Mišić, V. V., and 2 colleagues 2024, "Automated Scheduling of Doppler Exoplanet Observations at Keck Observatory", *The Astronomical Journal*, 167, 122. [ADS].
14. Tyler, D., **Petigura, E. A.**, Oklopčić, A., and 1 colleagues 2024, "WASP-69b's Escaping Envelope Is Confined to a Tail Extending at Least 7 R_p", *The Astrophysical Journal*, 960, 123. [ADS].
15. Handley, L. B., **Petigura, E. A.**, and Mišić, V. V. 2024, "Solving the Traveling Telescope Problem with Mixed-integer Linear Programming", *The Astronomical Journal*, 167, 33. [ADS].
16. MacDougall, M. G., Gilbert, G. J., and **Petigura, E. A.** 2023, "Accurate and Efficient Photoeccentric Transit Modeling", *The Astronomical Journal*, 166, 61. [ADS].
17. Weiss, L. M., Millholland, S. C., **Petigura, E. A.**, and 4 colleagues 2023, "Architectures of Compact Multi-Planet Systems: Diversity and Uniformity", *Protostars and Planets VII*, 534, 863. [ADS].
18. MacDougall, M. G., **Petigura, E. A.**, Gilbert, G. J., and 38 colleagues 2023, "The TESS-Keck Survey. XV. Precise Properties of 108 TESS Planets and Their Host Stars", *The Astronomical Journal*, 166, 33. [ADS].
19. Van Zandt, J., **Petigura, E. A.**, MacDougall, M., and 42 colleagues 2023, "TESS-Keck Survey. XIV. Two Giant Exoplanets from the Distant Giants Survey", *The Astronomical Journal*, 165, 60. [ADS].

20. MacDougall, M. G., **Petigura, E. A.**, Fetherolf, T., and 58 colleagues 2022, "The TESS-Keck Survey. XIII. An Eccentric Hot Neptune with a Similar-mass Outer Companion around TOI-1272", *The Astronomical Journal*, 164, 97. [ADS].
21. Gilbert, G. J., MacDougall, M. G., and **Petigura, E. A.** 2022, "Implicit Biases in Transit Models Using Stellar Pseudo Density", *The Astronomical Journal*, 164, 92. [ADS].
22. Johnson, M. C., David, T. J., **Petigura, E. A.**, and 22 colleagues 2022, "An Aligned Orbit for the Young Planet V1298 Tau b", *The Astronomical Journal*, 163, 247. [ADS].
23. Angelo, I., Naoz, S., **Petigura, E.**, and 4 colleagues 2022, "Kepler-1656b's Extreme Eccentricity: Signature of a Gentle Giant", *The Astronomical Journal*, 163, 227. [ADS].
24. **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", *The Astronomical Journal*, 163, 179. [ADS].
25. 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].
26. 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].
27. 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].
28. **Petigura, E. A.** 2020, "Two Views of the Radius Gap and the Role of Light Curve Fitting", *The Astronomical Journal*, 160, 89. [ADS].
29. 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].
30. Millholland, S., **Petigura, E.**, and Batygin, K. 2020, "Tidal Inflation Reconciles Low-density Sub-Saturns with Core Accretion", *The Astrophysical Journal*, 897, 7. [ADS].
31. Weiss, L. M. and **Petigura, E. A.** 2020, "The Kepler Peas in a Pod Pattern is Astrophysical", *The Astrophysical Journal*, 893, L1. [ADS].
32. **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].
33. 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].
34. 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].
35. Behmard, 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].
36. 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].
37. 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].
38. 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].
39. **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].

40. 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].

41. 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].

42. **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].

43. **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].

44. 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].

45. 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].

46. 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].

47. **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].

48. 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].

49. 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].

50. **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].

51. 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].

52. 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].

53. 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].

54. 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].

55. 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].

56. 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].

57. 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].

58. 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].

59. **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].
60. **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].
61. 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].
62. **Petigura, E. A.** 2015, "Prevalence of Earth-size Planets Orbiting Sun-like Stars", *Ph.D. Thesis*,. [ADS].
63. 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].
64. **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].
65. **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].
66. **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].
67. **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 6508 citations as of 2026-03-06 (NASA astrophysics data system)

68. Wang, M.-T., Dai, F., Liu, H.-G., and 24 colleagues 2026, "TOI-4495: A Pair of Aligned, Near-resonant Sub-Neptunes That Likely Experienced Overstable Migration", *The Astronomical Journal*, 171, 135. [ADS].
69. Giacalone, S., Howard, A. W., Gilbert, G. J., and 3 colleagues 2026, "The Transition from Giant Planets to Brown Dwarfs Beyond 1 au from the Stellar Metallicity Distribution", *The Astronomical Journal*, 171, 75. [ADS].
70. Zhang, E. Y., Teng, H.-Y., Dai, F., and 22 colleagues 2025, "TOI-880 is an Aligned, Coplanar, Multi-planet System", *The Astronomical Journal*, 170, 175. [ADS].
71. Barat, S., Désert, J.-M., Mukherjee, S., and 19 colleagues 2025, "A Metal-poor Atmosphere with a Hot Interior for a Young Sub-Neptune Progenitor: JWST/NIRSpec Transmission Spectrum of V1298 Tau b", *The Astronomical Journal*, 170, 165. [ADS].
72. Brinkman, C. L., Weiss, L. M., Huber, D., and 55 colleagues 2025, "The Compositions of Rocky Planets in Close-in Orbits Tend to Be Earth-like", *The Astronomical Journal*, 170, 109. [ADS].
73. Teng, H.-Y., Dai, F., Howard, A. W., and 24 colleagues 2025, "Stellar Obliquity of the Ultra-short-period Planet System HD 93963", *The Astronomical Journal*, 170, 51. [ADS].
74. Giacalone, S., Howard, A. W., Rubenzahl, R. A., and 21 colleagues 2025, "A Hot Jupiter with a Retrograde Orbit Around A Sun-like Star and a Toy Model of Hot Jupiters in Wide Binary Star Systems", *Publications of the Astronomical Society of the Pacific*, 137, 074401. [ADS].
75. Howard, A. W., Sinukoff, E., Blunt, S., and 50 colleagues 2025, "Planet Masses, Radii, and Orbits from NASA's K2 Mission", *The Astrophysical Journal Supplement Series*, 278, 52. [ADS].
76. Lee, R. A., Dai, F., Howard, A. W., and 71 colleagues 2025, "TOI-6324 b: An Earth-mass Ultra-short-period Planet Transiting a Nearby M Dwarf", *The Astrophysical Journal*, 983, L36. [ADS].

77. Xuan, Z., Naoz, S., Li, A. K. Y., and 6 colleagues 2025, "Extracting astrophysical information of highly eccentric binaries in the millihertz gravitational wave band", *Physical Review D*, 111, 043018. [ADS].

78. Zhang, J., Huber, D., Weiss, L. M., and 32 colleagues 2024, "A Testbed for Tidal Migration: The 3D Architecture of an Eccentric Hot Jupiter HD 118203 b Accompanied by a Possibly Aligned Outer Giant Planet", *The Astronomical Journal*, 168, 295. [ADS].

79. Dai, F., Goldberg, M., Batygin, K., and 11 colleagues 2024, "The Prevalence of Resonance Among Young, Close-in Planets", *The Astronomical Journal*, 168, 239. [ADS].

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