

Erik Petigura

Contact	1200 E. California Blvd, MC 150-21 California Institute of Technology Pasadena, CA 91125	<i>Email:</i> petigura@caltech.edu <i>Mobile:</i> (650) 804-1379
Education	University of California, Berkeley Ph.D. in Astrophysics Thesis Title: <i>The Prevalence of Earth-size Planets Orbiting Sun-like Stars</i> Thesis Advisor: Geoffrey Marcy	May 2015
	University of California, Berkeley M.A. in Astrophysics	Dec 2011
	University of California, Berkeley B.A. in Physics and Astrophysics	May 2010
Academic Employment	Hubble Fellow, California Institute of Technology Visiting Graduate Student, Institute for Astronomy Graduate Student Researcher, UC Berkeley NSF Graduate Research Fellow, UC Berkeley	2015– 2013–2014 2013–2015 2010–2013
Research Interests	Demographics of extrasolar planets; planet formation and evolution; detailed characterization of exoplanets by radial velocities and transit timing variations; spectroscopy of exoplanet atmospheres; precision stellar astrophysics; high performance computing; signal processing; and machine learning.	
Awards & Honors	Mary Elizabeth Uhl Prize, UC Berkeley Astronomy Department 2013 Cozzarelli Prize, National Academy of Sciences [Press Release] Block Award, Aspen Center for Physics American Physical Society Apker Prize Finalist Hertz Fellow Finalist University Medal Finalist, UC Berkeley Isidore Pomeranz Scholarship, UC Berkeley Physics Department Dorothea Klumpke Roberts Prize, UC Berkeley Astronomy Department	May 2015 Apr 2014 Feb 2013 Sep 2010 Feb 2010 May 2010 May 2010 May 2010
Teaching Experience	Astro-ph discussion leader and organizer – Caltech Graduate Student Instructor: The Planets – UC Berkeley Guest Lecturer: The Planets – UC Berkeley Graduate Student Instructor: Optical/IR Lab – UC Berkeley	Fall 2015– Spring 2011 Apr 2011 Fall 2011
Mentorship	Trevor David, Caltech Graduate Student Serving 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 <i>Nature</i>).	2015–
	Samuel Yee, Caltech Undergraduate Advising Samuel on a project to create an open-source library of high resolution, high signal-to-noise spectra of touchstone stars spanning the HR diagram and the development of an automated classification algorithm [Project Website].	2016–

Invited Talks	Colloquium, University of Texas, Austin	Oct 2016
	Fellows at the Frontiers, Northwestern University	Sep 2016
	Colloquium, Astronomy Department Tokyo University	Mar 2016
	GPS Division Seminar, Caltech	Feb 2016
	iPLEX Seminar, UCLA	Oct 2015
	Physics Department Colloquium, University of San Francisco	Oct 2015
	Caltech Astronomy Department Tea Talk	Jan 2015
	Plenary Talk, Origins 2014, Nara, Japan	Jul 2014
	Astronomy Department Colloquium, University of Hawai'i	Jan 2014
	Second Kepler Science Conference, NASA Ames	Nov 2013
	FLASH Talk, UC Santa Cruz	Apr 2013
	Yuk Lunch Seminar, CalTech	Mar 2013
	Bay Area Exoplanet Science Meeting, SETI Institute, California	Sep 2012

Contributed Talks	Keck Science Meeting, 2016	Sep 2016
	Extreme Solar Systems III, Kona, Hawai'i	Nov 2015
	K2 Science Meeting, Santa Barbara, California	Oct 2015
	Keck Science Meeting, 2015	Sep 2015
	AAS Meeting, Seattle, Washington	Jan 2015
	Toward Other Earths: The Star-Planet Connection, Porto, Portugal	Sep 2014
	Exoplanets in Multi-body Systems in the Kepler Era, Aspen, Colorado	Feb 2013
	AAS Meeting, Long Beach, California	Jan 2013
	AAS Meeting, Anchorage, Alaska	Jun 2012
	Extreme Solar Systems II, Jackson Hole, Wyoming	Sep 2011
	APS April Meeting, Denver, Colorado	May 2009

Grants & Proposals	- NASA, K2 Guest Observer - Cycle 3 (2016) "The K2 M Dwarf Program: Fields 8 and 10" (\$100,000, Co-I, PI: Ian Crossfield)
	- NASA, K2 Guest Observer - Cycle 2 (2016) "The K2 M Dwarf Program: Fields 6 and 7" (\$100,000, Co-I, PI: Ian Crossfield)
	- NASA ADAP Grant (2015) "Discovery and Characterization of Small Planets from the K2 Mission" (Co-I, PI: Andrew Howard)
	- Spitzer/HST Proposal (2015) "Orbit and Atmospheric Composition of EPIC-2037b" (PI, Spitzer: 29 hours, HST: 9 orbits)
	- Keck Proposal (2016A) "Internal Structure of Sub-Saturn Planets" (PI, 4 nights)
	- Automated Planet Finder Proposal (2015, PI, 9 nights)
	- Computing time at NERSC (2015, PI, 100000 hours)
	- Computing time at NERSC (2014, PI, 200000 hours)
	- Computing time at NERSC (2013, PI, 30000 hours)
	- K2 targets for campaigns 2 and 3 (2013, PI)