

# AIDA BEHMARD

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## RESEARCH INTERESTS

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Chemistry of star and planet formation; origins of life; exoplanet demographics; planet formation and evolution; radial velocities; precision stellar astrophysics, machine learning

## EDUCATION

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California Institute of Technology, Pasadena, CA Ph.D. Planetary Science	September 2017 - June 2022
Yale University, New Haven, CT B.S. Physics	August 2011 - May 2015

## HONORS AND AWARDS

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National Science Foundation Graduate Research Fellowship	2018-2021
Keck Institute for Space Studies Affiliate	2019
Princeton Dept. of Astrophysical Sciences Post-Baccalaureate Fellowship	2015
Harvard Origins Summer Undergraduate Research Prize	2015
Science, Technology, and Research Scholars (STARS II) Fellowship	2014
George J. Schulz Fellowship for the Physical Sciences	2013
Yale College Dean's Undergraduate Research Fellowship	2012

## PUBLICATIONS

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**A. Behmard**, E. Petigura, A. Howard (2019), “Data-Driven Spectroscopy of Cool Stars at High Spectral Resolution”, *The Astrophysical Journal*, 876, 68

**A. Behmard**, D. Graninger, E. Fayolle, J. Bergner, K. Öberg (2019), “Desorption Kinetics and Binding Energies of Small Hydrocarbons”, *The Astrophysical Journal*, 875, 73

F. Dai et al. [including **A. Behmard**] (2020), “The TESS-Keck Survey III: An aligned orbit for TOI-1726 c”, *in prep.*

R. Cloutier et al. [including **A. Behmard**] (2020), “TOI-1235 b: a keystone super-Earth for testing radius valley emergence models around early M dwarfs”, *in review*

P. Dalba et al. [including **A. Behmard**] (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, 5

E. Gaidos et al. [including **A. Behmard**] (2019), “Planetesimals Around Stars with *TESS* (PAST): I. Transient Dimming of a Binary Solar Analog at the End of the Planet Accretion Era”, *MNRAS*, 488, 4465

M.C.Y. Lau, R. Harris, Y. Oh, M. Joo Yi, **A. Behmard**, T.C. Onstott (2018), “Taxonomic and functional compositions impacted by the quality of metatranscriptomic assemblies”, *FEMS Microbiology Ecology*, 9, 1235

## TALKS (\* = INVITED)

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Dix Planetary Science Seminar, Pasadena, CA, June 2019  
*Drawing Correlations Between Star and Hosted Planet Properties with the California-Kepler Survey*

Extreme Precision Radial Velocity (EPRV) IV, Grindelwald, Switzerland, March 2019  
*Data-Driven Spectroscopy of Cool Stars at High Spectral Resolution*

Carnegie Observatories Tea Talk\*, Pasadena, CA, December 2018  
*Data-Driven Spectroscopy of Cool Stars at High Spectral Resolution*

Keck Science Meeting, Pasadena, CA, September 2018  
*Data-Driven Spectroscopy of Cool Stars at High Spectral Resolution*

ExSoCal, Pasadena, CA, September 2018  
*Data-Driven Spectroscopy of Cool Stars at High Spectral Resolution*

Harvard Origins of Life Summer Research Symposium, Cambridge, MA, August 2015  
*Desorption Kinetics and Binding Energies of Small Hydrocarbons*

Nat'l Optical Astronomy Observatory REU Summer Symposium, Tucson, AZ, August 2013  
*RESOLVE'd AGN: Refining Nearby Active Galactic Nuclei Classification Techniques*

## OBSERVING TIME AWARDED

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A. Goulding et al. [including **A. Behmard**]. High spatial resolution imaging of AGN-driven super-bubbles in two low-redshift quasars. *Hubble Space Telescope*. 2016. 12 months, ID 14730.

## TEACHING

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Teaching Assistant, Ay/Ge 117: Bayesian Statistics and Data Analysis Winter 2020  
Teaching Assistant, Ay/Ge 133: Formation and Evolution of Planetary Systems Spring 2019

## PROFESSIONAL SERVICE

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Caltech Stars and Planets Astro-ph Co-Organizer October 2019 - present  
Referee for *ApJ* September 2019 - present

## OUTREACH AND INSTITUTE-LEVEL SERVICE

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Caltech Title IX Council Member May 2019 - present  
Caltech WAVE Program Mentor and Council Member June 2019 - present  
Caltech Women in GPS (WinGS) Planetary Science Rep. May 2019 - present  
Caltech Graduate Student Council (GSC) Diversity Chair May 2018 - present  
Volunteer Science Teacher, Cleveland Elementary, Pasadena, CA December 2017 - present  
Caltech Women Mentoring Women (WMW) Program, Mentor November 2017 - present  
Yale Alumni Interviewer February 2017 - present  
Princeton Prison Teaching Initiative, Tutor November 2015 - May 2017  
Princeton Open Labs, Founder and Director November 2015 - May 2017  
Yale Women in Physics, member September 2011 - May 2015  
Volunteer Teacher at Yale Splash March 2014 - May 2015  
Tutor at New Haven Reads May 2012 - May 2015  
Undergraduate Women in Science at Yale, Treasurer September 2012 - 2014