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APPOINTMENTS

51 Pegasi b Postdoctoral Fellow, UC Berkeley Astronomy Department Postdoctoral Scholar, Caltech	2018 - present summer 2018
EDUCATION	
PhD in Astrophysics, California Institute of Technology	May 2018
Advisor: Prof. Heather Knutson	
Thesis: Lurking in the Shadows: Wide-Separation Gas Giants as Tracers of	
Planet Formation	
MS in Astrophysics, California Institute of Technology	June 2014
BA cum laude with High Honors in Astrophysics, Harvard University	June 2012
Undergraduate Thesis Advisor: Prof. David Latham	

Thesis: Characterizing Qatar-2b: A Hot Jupiter Orbiting a K Dwarf

Research Interests

Exploring the formation, evolution, and architectures of planetary systems
Characterizing exoplanet atmospheres using high-resolution spectroscopy
High-contrast AO imaging of exoplanets and brown dwarfs
Constraining the frequencies of gas giants in systems hosting different populations of terrestrial and ice giant planets
Bridging the gap between radial velocity and direct imaging survey sensitivities to planets using radial velocity trends

AWARDS AND HONORS

51 Pegasi b Postdoctoral Fellowship	2018
NASA Hubble Fellowship Program Sagan Fellowship (declined)	2018
David and Barbara Groce Grant to attend the Exoplanets I meeting in Davos	2016
Switzerland, California Institute of Technology	
AAS 2015 International Travel Grant	2015
National Science Foundation Graduate Research Fellowship Honorable Mention	2014, 2013
Chambliss Astronomy Achievement Student Award Honorable Mention, AAS	2014
Moffet Fellowship, California Institute of Technology	2012 - 2013
Origins of Life Research Grant, Harvard University	2011 - 2012
Leo Goldberg Prize for outstanding undergraduate thesis work, Harvard University	2011
U.S. Patent Application published	2008

PUBLICATIONS (6 first author, 13 total)

Bryan, M. L., Knutson, H. A., Fulton, BJ et al 2018, An Excess of Jupiter Analogs in Super-Earth Systems, AJ, 157, 2

Bryan, M. L., Benneke, B., Knutson, H. A. et al 2018, Constraints on the Spin Evolution of Young Planetary Mass Companions, Nature Astronomy, 2, 138-144.

Bryan, M. L., Bowler, B. P., Knutson, H. A. et al. 2016, Searching for Scatterers: High-Contrast Imaging of Young Stars Hosting Wide-Separation Planetary-Mass Companions, ApJ, 827, 100

Bryan, M. L., Knutson, H. A., Howard, A. W. et al. 2016, *Statistics of Long Period Gas Giant Planets in Known Planetary Systems*, ApJ, 821, 89

Bryan, M. L., Alsubai, K. A., Latham, D. W. et al. 2012, *Qatar-2: A K Dwarf Orbited by a Transiting Hot Jupiter and a More Massive Companion in an Outer Orbit*, ApJ, 750, 84.

Bryan, M. L., Chapman, G., Hall, D. N. B. et al., 2012, Investigation of linear-mode photon-counting HgCdTe APDs for astronomical observations, SPIE Proceedings, 8453, 84532F

Meshkat, T., Mawet, D., Bryan, M. L. et al 2017, A Direct Imaging Survey of Spitzer Detected Debris Disks: Occurrence of Giant Planets in Dusty Systems, ApJ, 154, 245.

Bowler, B., Kraus, A., Bryan, M. L. et al 2017, The Young Substellar Companion ROXs 12 B: Near-Infrared Spectrum, System Architecture, and Spin-Orbit Misalignment, AJ, 154, 165.

Ngo, H., Knutson, H. A., **Bryan, M. L.** et al 2017, No Difference in Orbital Parameters of RV-detected Giant Planets between 0.1 and 5 au in Single versus Multi-stellar Systems, AJ, 153, 242

Becker, J. C., Vanderburg, A., Adams, F. C. & 2 coauthors including **Bryan**, M. L. 2017, *Exterior Companions to Hot Jupiters Oribiting Cool Stars Are Coplanar*, AJ, 154, 230.

Mawet, D., Hirsch, L., Lee, E. J. & 27 coauthors including **Bryan**, M. L. 2018, Deep Exploration of epsilon Eridani with Keck Ms-band vortex coronagraphy and radial velocities: mass and orbital parameters of the giant exoplanet, arXiv:1810.03794

Piskorz, D., Benneke, B., Crockett, N.R., & 10 coauthors including **Bryan**, M. L., 2016, Evidence for the Direct Detection of the Thermal Spectrum of the Non-Transiting Hot Gas Giant HD 88133 b, ApJ, 832, 131

Ngo, H., Knutson, H. A., Hinkley, S., & 11 coauthors including **Bryan**, M. L., 2016, Friends of Hot Jupiters IV Stellar Companions Beyond 50 AU Might Facilitate Giant Planet Formation, but Most are Unlikely to Cause Kozai-Lidov Migration, ApJ, 827, 8

Observing Time Awarded

Keck 10m Telescopes (NIRSPEC/NIRC2)

17.5 nights

INVITED SEMINARS/COLLOQUIA

UChicago Special Seminar, Chicago, IL, February 26 2019
UCB CIPS Seminar, Berkeley, CA, October 3 2018
UCSC FLASH Seminar, Santa Cruz, CA, September 29 2017
UCB CIPS Seminar, Berkeley, CA, September 27 2017
University of Arizona Origins Seminar, Tucson, AZ, September 18 2017
UCLA iPLEX Lunch Seminar, LA, CA, May 12 2017
IPAC Lunch Seminar, Pasadena, CA, March 15 2017
JPL Astrophysics Luncheon Seminar, Pasadena, CA, March 6 2017
Cal State LA Physics Colloquium, LA, CA, September 1 2016
BU Astronomy Lunch Seminar, Boston, MA, April 26 2016

CONFERENCE TALKS

233rd AAS Meeting, Seattle, WA, January 7 2019
Bay Area Exoplanet Meeting, NASA Ames, CA, September 7 2018
51 Pegasi b Summit, Sausalito, CA, August 15 2018
Combining high-resolution spectroscopy and high-contrast imaging for exoplanet characterization (invited speaker), Pasadena, CA, June 18 2018
231st AAS Meeting, dissertation talk, National Harbor, MD, January 9 2018
Keck Science Meeting, Santa Cruz, CA, September 14 2017
Inner Solar Systems (invited speaker), 230th AAS Meeting, Austin, TX, June 7 2017
229th AAS Meeting, Grapevine, TX, January 6 2017
ExSoCal, Pasadena, CA, September 22 2016

Exoplanets I, Davos, Switzerland, July 8 2016 Extreme Solar Systems III, Waikoloa, Hawaii, November 30 2015 From Super-Earths to Brown Dwarfs: Who's Who, Paris, France, July 2 2015

STUDENT MENTORING

Wenhao Xuan (Caltech SURF program,	, Pomona College undergraduate)	2018-present
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TEACHING, OUTREACH, AND SERVICE

AAS Chambliss Judge	2019
Guest lecture for C249: Planetary Astrophysics at UC Berkeley	2018
Referee for A&A, ApJ	2018-present
UCB Climate Advisor	2018-present
Mentor, Caltech Women Mentoring Women Program	2012 - 2018
Junior/Full Member, AAS	2012 - present
SpacePod Interview	April 16, 2017
Harvard University Alumni Interviewer	2016-2017, 2018-present
SOC member for ExSoCal 2016	2016
Teaching Assistant, AY 123: Structure and Evolution of Stars	Fall 2013
AY 126: Interstellar and Intergalactic Medium	Winter 2014
AY 21: Galaxies and Cosmology	Spring 2014