

MARTA L. BRYAN

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EDUCATION

PhD in Astrophysics, California Institute of Technology expected May 2018
Advisor: Prof. Heather Knutson
B.A. 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*

AWARDS AND HONORS

51 Pegasi b Fellowship 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 (5 first author, 11 total)

Bryan, M. L., Benneke, B., Knutson, H. A. et al 2017, *Constraints on the Spin Evolution of Young Planetary Mass Companions*, Nature Astronomy, DOI:10.1038/s41550-017-0325-8.

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 Orbiting 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 Orbiting Cool Stars Are Coplanar*, AJ, 154, 230.

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

14.5 nights

INVITED SEMINARS/COLLOQUIA

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

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

TEACHING, OUTREACH, AND SERVICE

Caltech Astronomy Public Lecture	April 20, 2018
Mentor, Caltech Women Mentoring Women Program	2012 - present
Junior Member, AAS	2012 - present
SpacePod Interview	April 16, 2017
Harvard University Alumni Interviewer	2016-2017
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