

Brittany E. Miles

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Education

- **University of California, Santa Cruz** **Santa Cruz, CA**
PhD, Astronomy & Astrophysics *September 2016 - present*
- **University of California, Los Angeles** **Los Angeles, CA**
B.S., Physics and Geophysics and Planetary Physics Minor *September 2011 - June 2016*
with Department Honors

Research Experience

Department of Astronomy & Astrophysics, UC Santa Cruz
Graduate Research Assistant *July 2016–present*
Advisor: Andy Skemer

Department of Physics & Astronomy, UCLA
Undergraduate Research Assistant *March 2014–June 2016*
Advisor: Michael P. Fitzgerald

Lowell Observatory
REU Student *June 2015 - August 2015*
Advisor: Evgenya L. Shkolnik

NASA Goddard Space Flight Center
Summer Student *June 2014 - September 2014*
Advisor: Aki Roberge

Department of Earth, Planetary, and Space Sciences, UCLA
Undergraduate Research Assistant *August 2013 - April 2014*
Advisor: Jean-Luc Margot

Department of Earth, Planetary, and Space Sciences, UCLA
Undergraduate Research Assistant *June 2012 - December 2012*
Advisor: Aradhna K. Tripathi

Papers

Miles, B. E., Skemer, A. J., Barman T. S., Allers, K. N., Stone, J. M. “Methane in Analogs of Young, Directly Imaged Exoplanets”, submitted

Miles, B. E., & Shkolnik, E. L. (2017). “HAZMAT II: Ultraviolet Variability of Low-Mass Stars in the GALEX Archive”, *AJ*, 154, 67

Miles, B. E., Roberge, A., & Welsh, B. (2016). “UV Spectroscopy of Star-Grazing Comets Within the 49 Ceti Debris Disk.”, *ApJ*, 824, 126

Talks

“HAZMAT II: UV Variability of M Dwarfs in the GALEX Archive”

Bay Area Exoplanet Science Meeting, March 2017

“Measuring the Ultraviolet Variability of M Dwarfs with GALEX”

LA Basin Earth and Planetary Sciences Student Research Symposium, April 2016

“Measuring the Ultraviolet Variability of M Dwarfs with GALEX”

227th American Astronomical Society Meeting, January 2016

“HST STIS Data of the 49 Ceti Debris Disk”

National Capitol Area Disks Meeting 5, Carnegie Department of Terrestrial Magnetism, July 2014

Observing Experience

Keck Observatory: NIRSPEC, 4 nights

Gemini Observatory: GNIRS, semester 2016B, 2017A. 50 queue mode hours.

Computer Skills

Languages & Software: Python, MATLAB, LabVIEW, Mathematica, Excel.

Honors & Awards

NSF Graduate Research Fellowship

Eugene Cota-Robles Graduate Fellowship

The Other Worlds Laboratory Graduate Fellowship, 2016

UCSC Regents Graduate Fellowship, 2016

National Association of University Women Graduate Fellowship, 2016, 2017

Initiative for Maximizing Student Development Scholar (September 2015 - June 2016)

CARE Fellow (January 2015 - June 2015)

CARE Scholar (September 2014)

LA Basin Earth and Planetary Sciences Student Research Symposium, 2nd Place Poster

Dean's Honor List (Winter 2015, Spring 2015, Winter 2016)

UCLA Black Alumni Winston C. Doby Legacy Scholar

Extracurricular Activities

Junior Czar Czar

October 2017 - September 2018

Matriculating, Influencing, Networking and Triumphant (M.I.N.T.) Program

January 2017 - present

Afrikan Student Union at UCLA

September 2011–June 2016

UCLA Physical Sciences Diversity Committee

May 2015–June 2016

Undergraduate Astronomical Society

September 2011–June 2016

Education and Empowerment through the Earth Sciences

June 2012 - December 2012

Other Experience

How to Thrive in the Sciences at UCLA and Beyond - Invited Speaker and Moderator

[Change from Within](#) by Aylin Woodward and Sarah McQuate - Interview