

# Brittany E. Miles

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## Education

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- **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

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**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

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**Miles, B. E.**, Skemer, A. J., Barman T. S., Allers, K. N., Stone, J. M. (2018) "Methane in Analogs of Young, Directly Imaged Exoplanets", *ApJ*, 869, 18

**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

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"Methane in Analogs of Young Directly Imaged Exoplanets"  
Keck Science Meeting, September 2018

"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

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**Keck Observatory:** NIRSPEC (4 nights), NIRES (2 nights)

**Gemini Observatory:** GNIRS, 2018B (PI, 2 hours), 2016B and 2017A (50 queue mode hours),

## Computer Skills

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

## Honors & Awards

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UCSC Astronomy Department Whitford Prize, 2018

Osterbrock Mini-Grant: "Supporting Underrepresented Womxn-Identified Students on Their Path to Graduate School"

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

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**Junior Czar Czar**

*October 2017 - September 2018*

First and second year grad student representative.

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

*January 2017 - June 2018*

**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**

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

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