Brittany E. Miles

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Education

2022	PhD, Astronomy & Astrophysics, University of California, Santa Cruz
2018	M.S, Astronomy & Astrophysics, University of California, Santa Cruz
2016	B.S., Physics, Geophysics and Planetary Physics Minor, UCLA

Fellowships

2022 - current	51 Pegasi b Fellow, Steward Observatory
2022 - current	Presidential Postdoctoral Fellow, University of Arizona
2022	Presidential Postdoctoral Fellow, University of California, Irvine
2017-2021	NSF Graduate Research Fellowship
2016 – 2017, 2022	Eugene Cota-Robles Graduate Fellowship
2016	UCSC Regents Graduate Fellowship
2016	Other Worlds Laboratory Graduate Fellowship
2015, 2016	Initiative for Maximizing Student Development Scholar
2015	CARE Fellow
2014	CARE Scholar
2011 – 2015	UCLA Black Alumni Winston C. Doby Legacy Scholar

Awards and Honors

- 2020 Barbara Walker Best Paper Award
- 2019 Excellence in Mentoring Award (UCSC Astronomy)
- 2018 UCSC Astronomy Department Whitford Prize
- 2018 Osterbrock Mini-Grant: Supporting Underrepresented Womxn-Identified Students on Their Path to Graduate School, \$3900

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

First Author Publications

Miles, B.E., Hinz, P. M., Skemer, A. J., Martin, E.C., Stelter, R.D. (2021) "Testing a 10 micron HgCdTe Detector for Ground-Based Exoplanet Science", SPIE Proceedings Volume 11823

Miles, B. E., Skemer, A. J. I., Morley, C. V., Marley, M. S., Fortney, J.J., Allers, K.N., Faherty, J. K., Geballe, T. R., Visscher, C., Schneider, A. C., Lupu, R., Freedman, R. S., Bjoraker, G. L. (2020) "Observations of Disequilibrium CO Chemistry in the Coldest Brown Dwarfs" AJ, 160, 63

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

- Dec 2021 Atmospheric Mixing in Cool Exoplanet Analogs Astronomy and Space Science Seminar University of Kansas
- Sept 2021 Atmospheric Mixing in Cool Exoplanet Analogs Stars and Exoplanets Seminar University of Hawaii
- Aug 2021 Testing a 10 micron HgCdTe Detector for Ground-Based Exoplanet Science SPIE Optics and Photonics
 San Diego Convention Center
- April 2021 Choosing a Dewar for Mid-IR Detector Testing Graduate Student Postdoc Seminar UC Berkeley
- April 2021 Testing a 13µm cutoff HgCdTe Detector for Ground Based Astronomy Lunch Seminar UC Berkeley
- April 2021 Atmospheric Mixing in Cool Exoplanet Analogs Astronomy Seminar University of Connecticut
- Dec 2020 Atmospheric Mixing in Cool Exoplanet Analogs Exoplanet Talk Seminar The Ohio State University
- Dec 2020 Atmospheric Mixing in Cool Exoplanet Analogs Planetary Science Seminar UC Berkeley and UCLA
- Dec 2020 Atmospheric Mixing in Cool Exoplanet Analogs
 Planetary Science Seminar
 California Institute of Technology
- Oct 2020 Testing a 13µm cutoff HgCdTe Detector for Ground Based Astronomy Network of Young Researchers in Instrumentation for Astronomy

Aug 2020	Atmospheric Mixing in Cool Exoplanet Analogs Star, Planets, and Formation Summer Speaker Series University of Michigan
Aug 2020	Atmospheric Mixing in Cool Exoplanet Analogs Exoplanet Journal Club, JPL
Jun 2020	M-band Observations of the Coldest Brown Dwarfs ExoPAG 22
Feb 2020	Disequilibrium CO Chemistry in the Coldest Brown Dwarfs Exo Update, UT Austin
Oct 2019	Non-Equilibrium CO Chemistry in the Coldest Brown Dwarfs BDEXOCON
Sept 2019	Non-Equilibrium CO Chemistry in the Coldest Brown Dwarfs Bay Area Exoplanet Science Meeting
Sept 2018	Methane in Analogs of Young Directly Imaged Exoplanets Keck Science Meeting
Mar 2017	HAZMAT II: UV Variability of M Dwarfs in the GALEX Archive Bay Area Exoplanet Science Meeting

Teaching Experience

Spring 2020 TA - ASTR 3 Introductory Astronomy: Planetary Systems
Spring 2019 TA - ASTR 9 Introduction to Research in Physics and Astrophysics

Observing Experience

Keck Observatory: NIRSPEC (4 nights), NIRES (2 nights)
Gemini Observatory: GNIRS, 2018B (PI, 2 hours), 2016B and 2017A (50 queue mode hours)