Dr. 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

1. **Miles, B.E.**, and the High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST Collaboration (2023) "The JWST Early Release Science Program for Direct Observations of Exoplanetary Systems II: A 1 to 20 Micron Spectrum of the Planetary-Mass Companion VHS 1256-1257 b" ApJL, 946, L6

2. **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

3. **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

4. **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

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

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

Link for First and N-th author publications

Talks

Jun 2023	Invited Review, Exoclimes VI, University of Exeter
Jun 2023	Exoplanets and Habitability Seminar, ETH Zürich
May 2023	AMNH Astro Seminar, American Museum of Natural History
May 2023	Invited Speaker, Planetary Systems and the Origins of Life in the Era of JWST, STSci
Apr 2023	Steward Observatory Colloquium, University of Arizona
Apr 2023	Carnegie Colloquium Series, Carnegie Observatories
Feb 2023	Origins Seminar, University of Arizona
Jan 2023	241st AAS Meeting
Dec 2022	First Science Results from JWST Conference, STSci
Dec 2021	Astronomy and Space Science Seminar, University of Kansas
Sep 2021	Stars and Exoplanets Seminar, University of Hawaii
Aug 2021	SPIE Optics and Photonics
Apr 2021	Graduate Student Postdoc Seminar, UC Berkeley
Apr 2021	Astronomy Lunch Seminar, UC Berkeley
Apr 2021	Astronomy Seminar, University of Connecticut
Dec 2020	Exoplanet Talk Seminar, The Ohio State University
Dec 2020	Planetary Science Seminar, UC Berkeley and UCLA
Dec 2020	Planetary Science Seminar, California Institute of Technology
Oct 2020	Network of Young Researchers in Instrumentation for Astronomy
Aug 2020	Star, Planets, and Formation Summer Speaker Series, University of Michigan
Aug 2020	Exoplanet Journal Club, JPL
Jun 2020	ExoPAG 22
Feb 2020	Exo-Update, UT Austin
Oct 2019	BDEXOCON
Sep 2019	Bay Area Exoplanet Science Meeting
Sep 2018	Keck Science Meeting
Mar 2017	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 and Programs

Large Binocular Telescope: LBTI/NOMIC (PI, 4 nights) technical time 2023B
JWST: NIRSpec (PI, 12 hours) Cycle 2
JWST: NIRSpec (Co-PI, 13.7 hours) Cycle 1
Keck Observatory: NIRSPEC (4 nights), NIRES (2 nights)
Gemini Observatory: GNIRS, 2018B (PI, 2 hours), 2016B and 2017A (50 queue mode hours)