

# Emily Whittaker

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## Education

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University of California, Los Angeles (UCLA) Expected Jun. 2026  
PhD: Planetary Science

University of Maryland, College Park (UMD) May 2021  
BS: Physics, Astronomy

## Experience

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Graduate Student Researcher Sep. 2021–present  
Jean-Luc Margot; UCLA

Research Assistant Aug. 2020–May 2021  
Eliza Kempton, Matej Malik; UMD

Summer Intern June–Aug. 2020  
George Helou, Frank Masci; Caltech GROWTH SURF

Research Assistant Aug. 2019–May 2020  
Drake Deming; UMD

Summer Intern June–Aug. 2019  
Patrick Taylor, Ed Rivera-Valentín; Lunar and Planetary Institute

Research Assistant Jul.–Aug. 2018  
Suvi Gezari; UMD

## Awards and Honors

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John N. Truex Research Award Sep. 2023  
Earth, Planetary, and Space Sciences, UCLA

Cota-Robles Fellowship 2021–2022, 2024–2025  
UCLA

Departmental Scholarship 2021–2022  
Earth, Planetary, and Space Sciences, UCLA

High Honors in Astronomy May 2021  
UMD

Honors College Citation: Design Cultures and Creativity May 2019  
UMD

## Select Works

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Ih, J., Kempton, E. M. R., **Whittaker, E. A.**, and Lessard, M. (2023). Constraining the Thickness of TRAPPIST-1 b's Atmosphere from Its JWST Secondary Eclipse Observation at 15  $\mu\text{m}$ . *ApJL*, 952 (1), L4.

**Whittaker, E. A.**, Margot, J. L., Lam, A. L. H., and Myhrvold, N. (2023). Thermal Models of Asteroids with Two-band Combinations of Wide-field Infrared Survey Explorer Cryogenic Data. *PSJ*, 4 (4), 64.

Lam, A. L. H., Margot, J. L., **Whittaker, E. A.**, and Myhrvold, N. (2023). Determination of 1929 Asteroid Rotation Periods from WISE Data. *PSJ*, 4 (4) 61.

**Whittaker, E. A.**, Margot, J. L., Lam, A. L. H., and Myhrvold, N. (2022). Analysis of Two-Band WISE Observations of Asteroids. *DPS Abstract (Talk)*, 54 (8), 504.07.

**Whittaker, E. A.**, Malik, M., Ih, J., Kempton, E. M. R., Mansfield, M., Bean, J. L., Kite, E. S., Koll, D. D. B., Cronin, T. W., and Hu, R (2022). The Detectability of Rocky Planet Surface and Atmosphere Composition with JWST: The Case of LHS 3844b. *AJ*, 164 (6), 258.

Kriedberg, L., Hu, H., Kite, E. S., Koll, D., Malik, M., Morley, C., Schaefer, L., and **Whittaker, E** (2021). A Search for Signatures of Volcanism and Geodynamics on the Hot Rocky Exoplanet LHS 3844b. *JWST Accepted Proposal, Cycle 1*, 1846.

**Whittaker, E.**, Taylor, P. A., and Rivera-Valentín, E. G (2020). Uncertainty Assessment of Near-Earth Asteroid Size Measurements from Radar Images. *LPSC Abstract (Talk scheduled)*, 51, 1446.

## Teaching and Outreach

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Interview, <i>Nature</i>	Feb. 2024
Teaching Assistant, Astrobiology (EPS SCI 3), UCLA	Sep.–Dec. 2022, 2023
Exploring Your Universe Volunteer, UCLA	Nov. 2022, 2023
Interview, <i>New Scientist</i>	Jul. 2022
Summer Literacy Program Science Volunteer, Boone United Methodist Church	Jul. 2021
WMUC Radio Show Co-host: <i>Radio Astronomy</i> , UMD	2018–2021