Katie Teixeira

CURRICULUM VITAE

CONTACT INFORMATION

The University of Texas at Austin
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EDUCATION

Ph.D. in Astronomy, *Expected August 2027*
The University of Texas at Austin

M.A. in Astronomy, *August 2021-December 2023*
The University of Texas at Austin

B.S. in Astrophysics and Biology, *August 2017-May 2021*
University of Florida

EXPERIENCE

Graduate Research Assistant (Brendan Bowler), *August 2023-Present*
The University of Texas at Austin

Graduate Research Assistant (Caroline Morley), *August 2021-August 2023*
The University of Texas at Austin

Teaching Assistant, The University of Texas at Austin *Spring 2022 and 2024*

Undergraduate Research Assistant (Sarah Ballard)**,** *May 2020-August 2021*
University of Florida

Undergraduate Research Assistant *August 2019-December 2020*
(Space Plants Lab), University of Florida

Math Instructor *April 2019-December 2020*
Mathnasium, Gainesville, Florida

AWARDS

NASA FINESST Grant Award *June 2024*
NASA HQ, Science Mission Directorate

David L. Lambert Graduate Fellowship Endowment, *December 2023*
University of Texas at Austin, Department of Astronomy

Student Research Award in Planetary Habitability, *December 2021*
University of Texas at Austin Center for
Planetary Systems Habitability

Senior Thesis Award, *May 2021*
University of Florida, Department of Astronomy

University of Florida CLAS Scholars Program Award, *March 2020*
University of Florida, College of Liberal Arts and Sciences

PUBLICATIONS

"The Carbon-deficient Evolution of TRAPPIST-1c"
Teixeira, K. T., Morley, C. V., Foley, B. J., Unterborn, C. T., 2024, ApJ, 960, 44

"Constraints on Evolutionary Timescales for M Dwarf Planets from Dynamical Stability Arguments"
Teixeira, K. T., and Ballard, S. A., 2023, ApJ, 953, 50

CONTRIBUTED TALKS AND PRESENTATIONS

TRAPPIST-1c likely formed with less carbon than Earth or Venus, 55th Annual Meeting of the Division for Planetary Sciences, San Antonio, TX, October 5, 2023

Modeling the Evolution of TRAPPIST-1c's Atmosphere Through Outgassing and Escape, 2023 Space Telescope Science Institute Spring Symposium, Baltimore, MD, May 19, 2023

Evolution of the Atmosphere of TRAPPIST-1c Through Outgassing and Escape (Second Year Research Talk), Stars, Planets, And ISM Seminar, University of Texas at Austin, Austin, TX, April 26, 2023

Evolutionary Timescales on M Dwarf Planets from Dynamical Stability Arguments, 238th American Astronomical Society Meeting, Virtual, June 7, 2021

TELESCOPE TIME AWARDED

PI, Habitable Zone Planet Finder, Hobby-Eberly Telescope: *Clearing the Habitable Zones of Sun-like Stars to Image Earth Analogs*, 18 hours (2024-T1)

Co-I, (Brendan Bowler, PI), Habitable Zone Planet Finder, Hobby-Eberly Telescope: *Clearing the Habitable Zones of Sun-like Stars to Image Earth Analogs*, 17.7 hours (2023-T3)

SERVICE, MENTORING AND OUTREACH

Graduate Mentor, Graduate/Undergraduate Mentorship in Astronomy Program, University of Texas at Austin — *August 2023-Present*

Graduate Lunch Officer, University of Texas at Austin — *August 2023-May 2024*

Girl Day Volunteer, University of Texas at Austin — *February 2022-Present*

TECHNICAL SKILLS

Proficient in Python3, Familiar with MATLAB

Familiar with High-End/High-Performance Computing (Texas Advanced Computing Center)