# KIMBERLY PARAGAS

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California Institute of Technology, M/C 150-21, Pasadena, CA 91125, USA

#### RESEARCH INTERESTS

- The formation and evolution of close-in exoplanets.
- Characterizing the atmospheres and surfaces of hot, rocky exoplanets with JWST.
- Impact of stellar activity on radial velocity measurements.

#### **EDUCATION**

# California Institute of Technology, Pasadena, CA

2021 - Present

Doctor of Philosophy in Planetary Science. Advisor: H. Knutson

Wesleyan University, Middletown, CT

2018 - 2021

Bachelor of Arts in Astronomy & Physics

Thesis: The Atmospheric Escape of Gas Giant Exoplanets (High Honors). Advisor: S. Redfield

### RESEARCH APPOINTMENTS

Graduate Researcher, Caltech

2021 - Present

Undergraduate Researcher, Wesleyan University

2020-2021

Summer Undergraduate Research Fellow (SURF), Caltech

2020

#### **PUBLICATIONS**

- 1. **K. Paragas**, H. A. Knutson, R. Hu, et al. "A Framework for Simultaneously Retrieving Atmosphere and Surface Properties of Hot, Rocky Exoplanets" (in preparation)
- 2. S.Vissapragada et al. (including K. Paragas) 2022, "The Upper Edge of the Neptune Desert Is Stable Against Photoevaporation," AJ, in press
- 3. **K. Paragas**, S. Vissapragada, H. A. Knutson, et al. 2021, "Metastable Helium Reveals an Extended Atmosphere for the Gas Giant HAT-P-18b," *ApJL*, 909, L10

## **PRESENTATIONS**

#### Posters:

- K. Paragas, H. A. Knutson, R. Hu, et al., "A Framework for Simultaneously Retrieving Atmosphere and Surface Properties of Hot, Rocky Exoplanets" ExoClimes, Exeter, UK 2023
- K. Paragas, H. A. Knutson, R. Hu, et al., "A Framework for Simultaneously Retrieving Atmosphere and Surface Properties of Hot, Rocky Exoplanets" STScI Spring Symposium: Planetary Systems and the Origins of Life in the Era of JWST, Baltimore, MD 2023
- K. Paragas, S. Vissapragada, H. A. Knutson, et al., "Metastable Helium Reveals an Extended Atmosphere for the Gas Giant HAT-P-18b" 237th Meeting of the American Astronomical Society (AAS), Virtually Anywhere 2021
- K. Paragas, S. Vissapragada, H. A. Knutson, et al., "Detection of Metastable Helium Reveals Ongoing Mass Loss for the Hot Jupiter HAT-P-18b" Keck Northeast Astronomy Consortium (KNAC), Fall Symposium, Williamstown, MA 2020
- K. Paragas, S. Vissapragada, H. A. Knutson, et al., "Detection of Metastable Helium Reveals Ongoing Mass Loss for the Hot Jupiter HAT-P-18b" Caltech SURF Seminar Day, Pasadena, CA 2020

# AWARDS AND HONORS

STScI Spring Symposium Workshop for ECRs Selected Participant		2023
National Science Foundation Graduate Research Fellowship Program (NSFGRFP) 20 Honorable Mention		
NASA Connecticut Space Grant Consortium Undergraduate Research Grant	2020 -	2021
FUTURE of Physics, California Institute of Technology Nominated Participant		2020
TEACHING EXPERIENCE		
Caltech Planetary Sciences, Pasadena, CA Teaching Assistant (Introduction to Earth and Planetary Sciences: Planetary Sciences)	Spring	2023
Wesleyan Physics Department, Middletown, CT Teaching Assistant (General Physics Laboratory II)	Spring	202
Wesleyan Astronomy Department, Middletown, CT Teaching Assistant (The Planets)	Spring	202
Wesleyan Physics Department, Middletown, CT Course Assistant (General Physics II - Electricity & Magnetism)	Spring	2020
Wesleyan Math Department, Middletown, CT Course Assistant (Elements of Calculus)	Fall	201
OUTREACH		
Rise Program for Middle and High School Students $Math\ tutor$	2022 -	2023
Letters to a Pre-Scientist STEM pen pal	2022 -	2023
Wesleyan Astronomy & Space Club Vice President	2020 -	202
YouthHack Connecticut Project Lead	2020 -	202
Wesleyan Astronomy Outreach Kids' Night Volunteer, Space Night Volunteer	2018 -	202
WORK EXPERIENCE		
Wesleyan Admissions Office, Middletown, CT $Tour\ Guide$	2020 -	2023
Wesleyan Physics Department, Middletown, CT Demonstrations Assistant	2019 -	2020
Wesleyan Astronomy Department, Middletown, CT 24" Perkin Telescope Operator	2019 -	2020