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TRENT B. THOMAS

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Department of Earth and Space Sciences, University of Washington
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EDUCATION

2020- **Dual-title Ph.D.**, Earth and Space Sciences, Astrobiology, University of Washington, Seattle
2020 **B.S.**, Astrophysics, University of California, Los Angeles

PROFESSIONAL APPOINTMENTS

2020- **Research Assistant**, University of Washington, Seattle
Advisor: Professor David Catling

2018- **Research Intern**, Jet Propulsion Laboratory, NASA
Advisor: Dr. Renyu Hu

GRANTS AND FELLOWSHIPS

2020 National Science Foundation Graduate Research Fellowship

AWARDS AND HONORS

2022 Career Development Award, Lunar and Planetary Institute (LPI)
2020 Dean's Prize for Excellence in Undergraduate Research, UCLA
2020 Phi Beta Kappa Honor Society
2019 Early Career Collaboration Award, NASA Astrobiology Institute
2019 Rudnick-Abelmann Scholarship, UCLA Department of Physics and Astronomy

PUBLICATIONS

Renyu Hu and **Trent B. Thomas** (2022), *A Nitrogen-Rich Atmosphere on Ancient Mars Consistent with Isotopic Evolution Models*, Nature Geoscience, DOI: https://doi.org/10.1038/s41561-021-00886-y

Trent B. Thomas, Renyu Hu, and Daniel Y. Lo, *Joint Models for the Evolutionary History of Carbon, Nitrogen, and Argon in the Martian Atmosphere*. [**in preparation**]

Trent B. Thomas and David C. Catling, *A Self-Consistent Model for Generating Marinoan Cap Carbonates and Constraining Neoproterozoic Climate*. [**in preparation**]

CONFERENCE ACTIVITY

Trent B. Thomas (2022), *A Self-Consistent Model for Generating Marinoan Cap Carbonates and Constraining Neoproterozoic Climate*, AbSciCon, Atlanta, GA. [**Oral Presentation**]

Trent B. Thomas (2022), *A Self-Consistent Model for Generating Marinoan Cap Carbonates and Constraining Neoproterozoic Climate*, UW ESS Research Gala, Seattle, WA. [**Oral Presentation**]

Trent B. Thomas (2022), *Joint Models for the Evolutionary History of Carbon, Nitrogen, and Argon in the Martian Atmosphere*, LPSC 53rd Meeting, The Woodlands, TX. [**Oral Presentation**]

Trent B. Thomas (2020), *A Nitrogen-Rich Atmosphere on Ancient Mars Indicated by Isotopic Evolution,*

AGU Fall Meeting, virtual. [**Oral Presentation**]

Trent B. Thomas (2020), *A Nitrogen-Rich Atmosphere on Ancient Mars Indicated by Isotopic Evolution*, DPS 52nd Meeting, virtual. [**Oral Presentation**]

Trent B. Thomas (2020), *A Nitrogen-Rich Atmosphere on Ancient Mars Indicated by Isotopic Evolution*, UCLA Undergraduate Research Week, virtual. [**Oral Presentation**]

Trent B. Thomas (2019), *Evolutionary History of the Isotopic Composition of Nitrogen in the Martian Atmosphere*, 9th International Conference on Mars, Pasadena, CA. [**Poster Presentation**]

INVITED TALKS

2022	Jet Propulsion Laboratory, High Performance Computing User Group Meeting
2022	NASA Goddard Institute for Space Science, ROCKE-3D GCM Journal Club
2020	California Institute of Technology, Mars Atmosphere Journal Club

ADDITIONAL TRAINING

2022	Planetary Exploration Mission Design Workshop, UW Astrobiology, virtual.
2021	VPLanet Developers Workshop, University of Washington, virtual.
2021	ROCKE-3D GCM Tutorial, NASA GISS, virtual.
2020	Quantitative Habitability Workshop, NExSS, virtual.
2019	Exoclimes Simulation Platform Summer School, University of Bern, Switzerland.

OUTREACH

2022	Guest speaker, Delran School System K-12 STEM Family Engagement Night
2021-	Social media manager, UW Astrobiology
2021	Organizer/Moderator/Panelist, UW Astrobiology Public Science Panel Series
2019-20	Volunteer guide, UCLA Planetarium
2019	Volunteer scientist, K-12 outreach event: Exploring Your Universe, UCLA

SERVICE

2022	Departmental awards committee graduate representative, UW Earth and Space Sciences
2021-22	Graduate-nominated colloquium speaker committee, UW Earth and Space Sciences
2021-22	Computing committee graduate representative, UW Earth and Space Sciences