CURRICULUM VITAE – LINDSEY WISER

LINDSEY S. WISER

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lindseywiser
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EDUCATION

Arizona State University — *Expected Summer 2026*
Ph.D. Astrophysics

Johns Hopkins University — *Graduated May 2020*
B.S. Engineering Mechanics & Earth and Planetary Science — *with Honors*

SCIENCE

2020 – Present **Arizona State University, School of Earth and Space Exploration**
Graduate Research Assistant
- Exoplanet atmosphere characterization with Dr. Michael Line.
- Space governance with Dr. Timiebi Aganaba.

2023 – Present **NASA Pandora SmallSat Mission**
Student Shadow to Deputy PI, Dr. Jessie Dotson
- Developing a telescope commissioning plan, and assorted tasks.

2023 **NASA/JPL Astro Mission Design School**
Exoplanet Objective Lead, Telecommunications Chair
- Formulated a probe-class UV mission proposal with a team of 18 early career researchers and support from JPL mission experts.

2020 **NASA HQ, Astrophysics Division**
Summer Intern
- Reviewed the Astrophysics Research and Analysis Program for how well it engages students from diverse backgrounds.

2018 – 2020 **Space Telescope Science Institute (STScI)**
Mechanical Engineering Capstone Project
- Designed a mirror for optics research on the LUVOIR telescope concept to study precision for Earth-like exoplanet observations.

Exoplanet Research Intern with the STARGATE collaboration
- Studied JWST's capabilities to characterize exoplanet atmospheres, focusing on the NIRISS instrument.

2019 **Smithsonian National Air and Space Museum**
Planetary Science Research Intern *as a Brooke Owens Fellow*
- Mapped pit chains on the surface of Enceladus

OTHER: LEADERSHIP, MENTORSHIP, & SPACE POLICY

2020 – Present **Space Generation Advisory Council – Law, Policy, & Advocacy**
- Lead, US Task Force, Advocacy and Policy Platform
- Space Generation Fusion Forum Organizing Team

2019 – Present **Brooke Owens Fellowship** – Alumni Mentor, 2019 Fellow

2020 – Present **Skype A Scientist** – Science Speaker

2020 – 2022 **Harassment Prevention and Bystander Workshop at ASU** – Facilitator

2020 **Aerospace Industries Association** – Space Policy Intern

2018 – 2020 **JHU Students for the Exploration and Development of Space** – President

2016 – 2020 **AIAA Design, Build, Fly @ JHU** – President & Technical Advisor

2018 – 2020 **Destination Imagination** – Engineering Mentor, middle school team

2018 – 2019 **Johns Hopkins University** – Mechanical Engineering Teaching Assistant

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AWARDS

2023	**SGAC Space Generation Leadership Award & Grant (SGLA)**
2022	**NSF GRFP Honorable Mention**
2021	**NASA/International Space Education Board Student Delegate**
2021	**ASU Summer Exploration Graduate Fellowship Research Award**
2020	**JHU Robert George Gerstmyer Award**
2019	**JHU Mechanical Engineering Special Achievement Award**
2018	**JHU Pi Tau Sigma**

PUBLICATIONS

science

Submitted	**Wiser, L.,** Line, M., Welbanks, L., et al., *Lessons from Hubble and Spitzer: 1D Self-Consistent Model Grids for 19 Hot Jupiter Emission Spectra*, ApJ.
2023	Bell, T.,… **Wiser, L.,** *Methane Throughout the Atmosphere of the Warm Exoplanet WASP-80b*, Nature.
2023	Coulombe L.-P., … **Wiser, L.**, et al., *A broadband thermal emission spectrum of the ultra-hot Jupiter WASP-18b*, Nature.
2023	Martin, E.S., …, **Wiser, L.**, et al., *Measurements of regolith thicknesses on Enceladus: Uncovering the record of plum activity,* Icarus.
2022	Mansfield, M., **Wiser, L.,** et al., *Confirmation of Water Absorption in the Thermal Emission Spectrum of Hot Jupiter WASP-77Ab with HST/WFC3,* AJ.
2022	Glidic, K., Schlawin, E., **Wiser, L.,** et al., *Atmospheric Characterization of Hot Jupiter CoRoT-1 b Using the Wide Field Camera 3 on the Hubble Space Telescope,* AJ.
2021	Mansfield, M., …, **Wiser, L.,** et al. *A unique hot Jupiter spectral sequence with evidence for compositional diversity*. Nature Astro.

policy

Ongoing	SGAC Space Law & Policy Blog (link), and SGAC US Task Force (link)
2023	**Wiser, L., et al.,** *An Overview of Space Policy Perspectives from the Young Space Generation,* (IAC23,E3,2,8,x77227).
2022	**Wiser, L.**, Aganaba, T., *An evolving space governance system: Balancing interests in five policy debates,* Acta Astronautica & IAC 2021.
2022	**Wiser, L.,** Bromley, M., Walker, S., *Tracing the Evolving Science and Media Impact of Space Missions* (IAC-22,A7,1,7,x69117)
2022	SGAC Space Law & Policy, Human Rights Subteam, *Earth Observation Data, Climate Change, and Human Rights*, Jus Ad Astra.
2021	Nasr, M., **Wiser, L.,** et al. *Planetary Protection and Martian ISRU* (GLEX-21 10.2.6x62312)

SELECT PRESENTATIONS & WORKSHOPS

2023 (expected)	SGAC Space Generation Congress – *SGLA Speech*
2023	Oxford Visit
2021 – 2023	Space Generation Fusion Forum – *Organizing Team, Policy Subject Expert*
2020 – 2023	International Astronautical Congress (IAC)
2022, 2023	OWL at UC Santa Cruz
2022	Exoplanets IV
2022	CHAMPs Early Career Highlight Seminar
2019 – 2022	AAS Winter Meeting
2021	Emerging Researchers in Exoplanet Science (ERES)
2021	STScI, Spring Symposium