CURRICULUM VITAE - LINDSEY WISER

LINDSEY S. WISER
lindsey.wiser@asu.edu
lindseywiser
LindsLikesSpace

EDUCATION

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

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

RESEARCH EXPERIENCE

Aug 2020 – Present
Arizona State University - School of Earth and Space Exploration
Graduate Research Assistant
- Working with Dr. Michael Line on exoplanet atmosphere modeling and characterization (Primary PhD research)
- Working with Dr. Sara Walker to define and introduce standards of evidence in astrobiology

June 2020 – Aug 2020
NASA HQ Science Mission Directorate – Astrophysics Division
Summer Intern
- Reviewed and produced a report on the suborbital component of the Astrophysics Research and Analysis Program

Space Telescope Science Institute (STScI)

May 2019 – May 2020
Mechanical Engineer – Mechanical Engineering Capstone Project
- Designed a mirror for optics research on the LUVOIR concept to study necessary precision for Earth-like exoplanet observations

Jun 2018 – Apr 2019
Exoplanet Research Intern with the STARGATE collaboration
- Studied JWST's capabilities to characterize exoplanet atmospheres, focusing on the NIRISS instrument

May 2019 – Aug 2019
Smithsonian National Air and Space Museum
Planetary Science Research Intern as a Brooke Owens Fellow
- Mapped surface features on Enceladus.

LEADERSHIP & SPACE POLICY

Oct 2020 – Present
Harassment Prevention and Bystander Workshop at ASU
Lead Facilitator for Inclusion Workshops
- Moderating discussions between workshop participants

Aug 2020 – Present
Space Generation Advisory Council – Space Law & Policy Group
(observer to UN COPUOS)
U.S. Legislative Affairs Lead, Co-Lead for Space Resources / Planetary Protection, Lead for the Newsletter and Blog
- Leading and participating on an international team researching and writing about national and international space law and policy.

May 2019, July 2020
Citizens for Space Exploration
Student Volunteer
- Met with U.S. Congressional offices to discuss the importance of space

Feb 2020 – May 2020 **Aerospace Industries Association**
Space Policy Intern
- Assisted with policy research, Capitol Hill visits, and more

Sep 2018 – May 2020 **JHU Students for the Exploration and Development of Space (SEDS)**
President & Space Policy Team Lead, Before: Vice President
- Led university student engagement with the space industry
- Assisted in the formation of project groups: Space Policy, CubeSat Development, Citizen Science, and Telescope Club

Sep 2016 – May 2020 **Design, Build, Fly**
Technical Advisor, Before: President
- Led a team designing remote controlled planes for the AIAA intercollegiate and international competition

TEACHING, OUTREACH, & MENTORSHIP

Feb 2020 – Present **Brooke Owens Fellowship**
Alumni Mentor
- Mentoring undergraduate women and gender minorities in aerospace

May 2020 – Present **Skype A Scientist**
Scientist
- Meeting with kids to talk about space and STEM engagement

Oct 2018 – May 2020 **Destination Imagination**
Mentor
- Mentored a team of elementary school girls in engineering design competitions. The team won 2019 regionals and 2nd in Maryland.

Sep 2018 – Dec 2019 **Johns Hopkins University**
Teaching Assistant
- Taught an intro mechanical engineering lab (2 semesters), and assisted with the lecture course (1 semester)

AWARDS & HONORS

2021 **Summer Exploration Graduate Fellowship Research Award** – Awarded for promising scientific research progress

2020 **Robert George Gerstmyer Award –** Awarded for outstanding undergraduate achievement in engineering

2019 **Brooke Owens Fellowship Program –** Awarded to women and gender minorities with outstanding potential in space and aviation

2019 **Mechanical Engineering Special Achievement Award –** Awarded for outstanding leadership through engineering clubs and societies

2018 **Pi Tau Sigma –** Mechanical engineering honors society membership

PUBLICATIONS

Science

In Prep **Wiser, L.,** Line, M., Mansfield, M., et al., *Self-Consistent Constraints on a Population of Hot Jupiters*

Submitted	Mansfield, M., Line, M., Bean, J., Fortney, J., Parmentier, V., **Wiser**, **L.**, et al., *A unique hot Jupiter spectral sequence with evidence for compositional diversity*
In Prep	Glidic, K., Schlawin, E., **Wiser, L.,** et al., *CoRoT-1b Charge Trap Corrected Tranmission and Emission Spectra*
In Prep	Martin, E.S., Whitten, J.L., **Wiser, L.**, et al., *Estimating regolith thickness on Enceladus using pit chains*

Policy

Published	Nasr, M., **Wiser, L.,** et al. *Planetary Protection and Martian ISRU* (Accepted to GLEX 2021)
In Prep	Wiser, L. Aganaba-Jeanty, T., *Conceptualizing an Evolving Space Governance System* (IAC-21,E3,2,3,x63455)
Ongoing	SGAC Space Law & Policy Blog (link)

PRESENTATIONS & POSTERS

May 2021	Emerging Researchers in Exoplanet Science, *Self-consistent atmospheric constraints for a population of hot Jupiters*
Apr 2021	Space Telescope Science Institute, Spring Symposium, *Self-consistent constraints on elemental abundances and heat redistributions for a population of hot Jupiters*
Jan 2021	American Astronomical Society, Meeting #237, *Self-consistent constraints on elemental abundances and heat redistributions for a population of hot Jupiters*
Jan 2021	American Astronomical Society, Meeting #237, *A longitudinal study of NASA's APRA Suborbital Program*
Aug 2020	NASA HQ Intern Symposium, *A Review of the APRA Suborbital Program*
May 2020	Johns Hopkins Engineering Design Day, *STScI space telescope model*
Sep 2020	AIAA Young Professionals Conference, *Space telescope model: lab scale, piezo-actuated, segmented, primary mirror to conduct optical testing for the LUVOIR mission concept*
Jan 2019	American Astronomical Society, Meeting #233, *Optimizing JWST NIRISS SOSS Order 2 precision for the detection of K and Na*
Aug 2018	Space Telescope Science Institute, Space Astronomy Summer Program Symposium, *Illustrating the JWST NIRISS scientific revolution*