

**LINDSEY S. WISER**  
lindsey.wiser@asu.edu  
lindsey.wiser@spacegeneration.org

 lindseywiser  
 LindsLikesSpace  
 0000-0002-3295-1279

**EDUCATION**

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**Arizona State University** *Expected 2026*  
Ph.D. Astrophysics  
**Johns Hopkins University** *Graduated May 2020*  
B.S. Engineering Mechanics & Earth and Planetary Science *with Honors*

**SCIENCE**

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2020 – Present **Arizona State University - School of Earth and Space Exploration**  
Graduate Research Assistant

- Exoplanet atmosphere modeling and characterization, advised by Dr. Michael Line (primary PhD research)
- Additional projects in space policy/law and mission design

2023 – Present **Pandora SmallSat, NASA Pioneers Mission**  
Student Shadow to the Science Leadership Team

- Developing a commissioning plan and learning about the design and management of space missions
- Spearheading comms and outreach initiatives

2023 **NASA/JPL Astrophysics Mission Design School**  
Exoplanet Objective Lead, Telecommunications Chair

- Collaborated with 18 researchers and mentors to formulate a probe-class UV telescope mission

2020 **NASA HQ Science Mission Directorate**  
Summer Intern, Astrophysics Division

- Longitudinal review the Astrophysics Research and Analysis Program (APRA) for timelines and student engagement

2019 – 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

2018 – 2019 Exoplanet Research Intern with the STARGATE collaboration

- Studied JWST’s capabilities to characterize exoplanet atmospheres, focusing on the NIRISS instrument pre-launch

2019 **Smithsonian National Air and Space Museum**  
Planetary Science Research Intern *as a Brooke Owens Fellow*

- Mapped pit chains on the surface of Enceladus

## SPACE POLICY, LEADERSHIP & VOLUNTEERING

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- Space Generation Advisory Council (SGAC)**
- 2021 – Present    Lead, NCAC Task Force, Advocacy and Policy Platform (SGAPP)
- Providing a platform for the young space to discuss space policy and law. Leading a team that advocates on behalf of SGAC in the NCAC region (North America, Central America, and the Caribbean). The NCAC Task Force was previously the US Task Force, through 2023.
- 2023 – Present    National Point of Contact, United States
- Serving as a resource to SGAC members in the United States. Fostering the US community and representing US members in the SGAC network
- 2022 – 2023      Space Generation Fusion Forum, Organizing Team and Working Group Subject Matter Expert
- Planned science speakers for an annual three-day young professional's conference in Colorado Springs, CO
  - Served as a space policy expert for working groups
- 2020 – 2022      Space Law & Policy Project Group
- Worked with an international team to research, write, and advocate for national and international space policy
- 2020                **Aerospace Industries Association**  
Space Policy Intern
- Wrote background material related to space and aviation policy, among other tasks
- 2018 – 2020      **Students for the Exploration and Development of Space (SEDS)**  
Johns Hopkins Chapter President & Space Policy Team Lead
- Facilitated student engagement with the space sector through speakers and project teams: policy, space engineering, citizen science, and telescope club
- 2016 – 2020      **AIAA Design, Build, Fly**  
Johns Hopkins Chapter President, Technical Advisor
- Led a team designing remote controlled planes for the AIAA intercollegiate and international competition

## TEACHING, OUTREACH, & MENTORSHIP

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- 2020 – Present    **Brooke Owens Fellowship**  
Alumni Mentor, 2019 Fellow
- 2020 – Present    **Skype A Scientist**  
Scientist, meeting with kids to talk about space exploration.
- 2018 – 2020      **Destination Imagination**  
Mentor, engineering team of elementary school girls.
- 2018 – 2019      **Johns Hopkins University**  
Teaching Assistant, intro mechanical engineering lab (2 semesters) and lecture (1 semester).

**AWARDS & HONORS**

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- 2023 **SGAC Space Generation Leadership Award & Grant (SGLA)** – Awarded to exceptional volunteers and leaderships with SGAC to fund travel to the International Astronautical Congress.
  - 2022 **National Science Foundation Graduate Research Fellowship Program (NSF GRFP), Honorable Mention**
  - 2021 **NASA / International Space Education Board Student Delegate** – Grant awarded to attend the International Astronautical Congress in Dubai (switched to virtual).
  - 2020 **Summer Exploration Graduate Fellowship Research Award** – Awarded for promising scientific research progress.
  - 2019 **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**

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**Science**

- Submitted **Wiser, L.**, Line, M., Mansfield, M., et al., *Self-Consistent Constraints on a Population of Hot Jupiter Emission Spectra*
- 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 (submitted).
- 2023 Martin, E.S., ..., **Wiser, L.**, et al., *Measurements of regolith thicknesses on Enceladus: Uncovering the record of plum activity*, Icarus.
- 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.
- 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.
- 2021 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*. Nat Astron (2021).

**Policy**

- 2022 **Wiser, L.**, Aganaba, T., *An evolving space governance system: Balancing interests in five policy debates*, Acta Astronautica.
- 2022 **Wiser, L.**, Bromley, M., Walker, S., *Tracing the Evolving Science and Media Impact of Space Missions* (IAC-22,A7,1,7,x69117)

- 2021 Nasr, M., **Wiser, L.**, et al. *Planetary Protection and Martian ISRU*  
(GLEX-21-10.2.6x62312)
- 2022 SGAC Space Law & Policy, Human Rights Subteam, *Earth Observation  
Data, Climate Change, and Human Rights*, Jus Ad Astra, January 2022
- Ongoing SGAC NCAC Task Force ([link](#)), SGAC Space Law & Policy Blog ([link](#))

**Select Abstracts**

- 2021 Wiser, L., Benford, D., *A Longitudinal Study of NASA's APRA  
Suborbital Program*, AAS Meeting Abstracts
- 2019 Wiser, L., Batalha, N., et al., *Optimizing JWST NIRISS SOSS Order 2  
Precision for the Detection of K and Na*, AAS Meeting Abstracts.

**SELECT PRESENTATIONS & WORKSHOPS**

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- 2024 American Astronomical Society (AAS) Congressional Visit Days
- 2021 – 2023 Space Generation Fusion Forum – *Organizing Team, Policy Subject  
Matter Expert, Delegate*
- 2022 OWL at UC Santa Cruz
- 2020 – 2022 International Astronautical Congress (IAC)
- 2022 Exoplanets IV
- 2022 CHAMPs Early Career Highlight Seminar
- 2021 Emerging Researchers in Exoplanet Science (ERES)
- 2021 STScI, Spring Symposium
- 2019 – 2022 AAS, Winter Meeting
- 2020 NASA HQ Intern Symposium
- 2020 AIAA Young Professionals Conference
- 2019 STScI, Space Astronomy Summer Program Symposium
- 2019 Citizens for Space Exploration – *student volunteer meeting with  
congressional offices*
- 2019 Future Space Leaders
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