

SEARRA FOOTE

www.linkedin.com/in/searrafoote

sfoote@arizona.edu

EDUCATION

The University of Arizona

PhD in Planetary Sciences

August 2022-Present

Arizona State University

Bachelor of Science in Earth and Space Exploration (Astrobiology and Biogeosciences)

May 2022

Minor in Biological Sciences

3.92/4.0 GPA

New American University President's Award

Fall 2018-Spring 2022

Dean's List

Fall 2018-Spring 2022

Sun City Elk's Most Valuable Student Scholarship

Fall 2018

Work Experience

Student Success Coach, Student Success Center at ASU Tempe

August 2021-May 2022

Mentor and Social Facilitator, The Sundial Program at ASU Tempe

May 2019-May 2021

- Serve as a mentor for incoming freshman in the Sundial Early Start Program through organizing networking and social activities to help the students acclimate to college
- Mentored student on an astrobiology and exoplanets research project by providing training and research skill development

Student Leader, The Physics Department at ASU Tempe

January 2021-May 2021

- Assist facilitating class for the Sundial Mentorship Course
- Lead workshops on mentoring and plan team-building social activities

Network Fellow, The Access Network for Sundial at ASU Tempe

February 2020-February 2021

- Represent The Sundial Program, which is a part of the nationwide Access Network, and communicate with the other sites to share ideas and develop the program
- Foster diversity, equity, inclusion, and accessibility in STEM through completion of projects

Research Experience

Research, ELIFE at ASU

August 2019-May 2022

- Practice interdisciplinarity through collaboration with a research group in different areas and learn how to effectively communicate information to a group
- Develop original research project ideas and analyze data using Python to compare biosignatures to solve broad questions in the astrobiology field

Research Shadowing, Astrophysics at ASU

January 2019-April 2019

- Understand the relevance and importance of conducting research by discussing research skills, common methods, and finding opportunities
- Thrive in a mentor-mentee relationship by applying new knowledge to a project and asking questions to improve scientific thinking skills

Research, Sundial Early Start Program at ASU

July-August 2018

- Discover the impact of hands-on field work through a trip to Meteor Crater and Lowell Observatory to understand how to record observations and interpretations
- Collaborate on a culminating project on habitable zones around stars to practice public speaking in a symposium setting

Publications

False positives and the challenge of testing the alien hypothesis

July 2022

<https://arxiv.org/abs/2207.00634>

Technosignatures as a Priority in Planetary Science

March 2021

<https://doi.org/10.3847/25c2cfcb.93bdf43>

<i>Achieving the Equitable Classroom Environment: Recommendations for SESE Faculty to Increase Student Retention</i> https://sese.asu.edu/sites/default/files/2021-02/All_White_Papers2.pdf	February 2021
<i>Envisioning an Ideal Departmental Community</i> https://accessnetwork.org/2021/02/10/envisioning-an-ideal-departmental-community/	February 2021

Conferences and Outreach

Poster Presenter , Emerging Researchers in Exoplanet Science “The Search for Life” https://doi.org/10.5281/zenodo.4758546	May 2021
Poster Presenter , School of Earth and Space Exploration Research Symposium at ASU “The Search for Life” https://sese-research-symposium-2021.virtualpostersession.org/	March 2021
Oral Presenter , School of Earth and Space Exploration Colloquium at ASU “ <i>Achieving the Equitable Classroom Environment: Recommendations for SESE Faculty to Increase Student Retention</i> ” https://youtu.be/WBP67zPsPbU	February 2021
Oral Presenter , Conference for Undergraduate Women in Physics “ <i>Interdisciplinarity in the Search for Life</i> ” https://meetings.aps.org/Meeting/CUWIP21/Session/U15.8	January 2021
Poster Presenter , AZ AstroBio Symposium “ <i>Innovation and Complex Life</i> ” https://www.essoar.org/doi/10.1002/essoar.10503853.1	October 2020
Poster Presenter , NASA TechnoClimes Workshop “ <i>Innovation and Complex Life</i> ” https://www.essoar.org/doi/10.1002/essoar.10503853.1	August 2020
Oral Presenter , Sundial “No Jargon” Conference at ASU “ <i>Astrobiology</i> ”	April 2019, April 2020
Volunteer , Night of the Open Door at ASU	September 2018, October 2019
Volunteer , Open Door at ASU	February 2019
Chair , Contemporary Women in the Physical Sciences at ASU	October 2018

Clubs and Organizations

Member , Women in Science and Engineering (WISE) at ASU Polytechnic	August 2020-May 2022
Member , Students for the Exploration and Development of Space (SEDS) at ASU Tempe	August 2018-May 2022

Community Involvement

Volunteer , Arizona Broadway Theatre Peoria, Arizona	December 2017-March 2020
Volunteer , Sierra Verde Elementary School Annual STEAM Night Glendale, Arizona	April 2016-April 2019

SKILLS

- Mentorship experience
- Proficient in Python
- Proficient in JMARS
- Proficient in Mathematica