

# AUSTIN T. WARE

Graduate Research Assistant  
School of Earth and Space Exploration (SESE)  
Arizona State University  
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U.S. Citizen  
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## EDUCATION

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**Arizona State University**, Tempe, AZ, USA

PhD. in Astrophysics

GPA: 3.86

Advanced to PhD Candidate in December 2020

*Expected Degree Date: Summer 2025*

**The Pennsylvania State University**, University Park, PA, USA

BS in Astronomy & Astrophysics

Overall GPA: 3.90

*Degree Date: May 2018*

## AWARDS

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**School of Earth & Space Exploration** - *Vivian Forde Graduate Fellowship* Summer 2023

Merit-based award that provides summer salary and research expenses.

**School of Earth & Space Exploration** - *Summer Exploration Graduate Fellowship* Summer 2021

Proposal-based award that provides summer salary and research expenses.

**Eberly College of Science** - *Undergraduate Research Funding* 2016 - 2018

Received funding twice: once during 2016 Fall semester proposal period and once during 2017 Fall semester proposal period.

## RESEARCH EXPERIENCE

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**Arizona State University, SESE** 2018 - present

Graduate Research Assistant with Prof. Patrick Young

Using stellar evolution models coupled with habitable zone models to probabilistically determine the long-term habitability potential of exoplanets.

Graduate Research Assistant with Prof. Michael Line

Using the chemical kinetics code VULCAN to explore the photochemical effects of the stellar UV flux as a function of wavelength on the composition of a range of gas giant exoplanet atmospheres.

**The Pennsylvania State University, Dept. of Astronomy & Astrophysics** 2016 - 2018

Research Scholar, 7 hours per week (semester), 40 hours per week (summer), Prof. Eric B. Ford's research group with Dr. Angie K. Wolfgang.

Searched for stellar companions to a sample of Kepler's single Sub-Neptune exoplanet systems using high-resolution images from the Lick Observatory's Shane 3-meter telescope.

## PUBLICATIONS

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"Continuous Habitable Zones: Using Bayesian Methods to Prioritize Characterization of Potentially Habitable Worlds", Ware, Austin; Young, Patrick; Truitt, Amanda; Spacek, Alexander, 2022 ApJ 929, 143W

## RECENT TALKS & PRESENTATIONS

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### TALKS:

**2021 SESE Internal Symposium**, "*Pairing a GCM and Bayesian Framework to Predict Habitable Zone Evolution*", Arizona State University, Summer 2021.

**2021 AZ AstroBio Symposium**, "*Pairing a GCM and Bayesian Framework to Predict Habitable Zone Evolution*", Arizona State University, Fall 2021.

**2022 Astrobiology Science Conference**, "*Pairing a GCM and Bayesian Framework to Predict Habitable Zone Evolution*", Atlanta, Spring 2022.

### POSTER PRESENTATIONS:

**2021 SESE Research Symposium**, "*Continuous Habitable Zones: Using Bayesian Methods to Prioritize Characterization of Potentially Habitable Worlds*", Arizona State University, Spring 2021.

**2021 Winter AAS Conference**, "*Continuous Habitable Zones: Using Bayesian Methods to Prioritize Characterization of Potentially Habitable Worlds*", Arizona State University, January 11, 2021.

**2020 Arizona AstroBio Symposium**, "*Continuous Habitable Zones: Using Bayesian Methods to Prioritize Characterization of Potentially Habitable Worlds*", Arizona State University, Fall 2020.

## OUTREACH AND BROADER IMPACTS

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### **Earth and Space Open House** - Telescope Manager

*Fall 2022 - present*

ESE Open House is a biannual event led by graduate students to showcase the research going on in the School of Earth and Space Exploration at ASU. I manage the setup and operation of telescopes used for public viewing during the event.

### **Sundial Mentoring** - Volunteer

*Fall 2018*

I mentored freshman School of Earth and Space Exploration students interested in similar research to my own. Once a week we would come together in class and discuss everything from dealing with stress in college to astrophysics related questions.

### **Towards a More Inclusive Astronomy Discussion Group** - Member

*2016 - 2018*

Engage in bimonthly discussions on diversity-related topics for interested people in the department and anyone else interested, focusing on the intersectional experiences of people who identify with marginalized groups.

### **AstroFest and AstroNight** - Volunteer

*2015 - 2018*

A 3 day event during the summer and 1 day event during the fall where families are engaged in astronomy and physics related activities, during which I helped run various activities.

## SOCIETY MEMBERSHIPS

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- American Astronomical Society (AAS), Graduate Member, 2017 - present

## REFERENCES

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- Prof. Patrick Young, Arizona State University, SESE, 520-241-7080 (office); patrick.young.1@asu.edu
- Prof. Michael Line, Arizona State University, SESE, michael.line@asu.edu