Undergraduate Research Assistant   Dec 2019 - May 2021
Professor Christy Tremonti &. Dr. Adam Schaefer, University of Wisconsin-Madison

- Analyzed spatially resolved spectroscopic data for a sample of $\sim 8,000$ galaxies from MaNGA Product Launch 9 (MPL-9), part of the Sloan Digital Sky Survey (SDSS), to locate density-bounded HII regions in star-forming galaxies.
- Performed dust attenuation corrections, sample size reduction, and analyzed gas-phase metallicities within target galaxies.
- Experience with Python data analysis and visualization, galaxy observations

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PRESENTATIONS

Poster Presentation, Extreme Solar Systems V, New Zealand   March 2024
Poster: *The non-negligible activity of "inactive" M dwarfs measured by TESS and implications for JWST Observations*

Talk, Graduate Student Symposium, University of Florida   October 2023
Oral presentation: *Stellar flares in the TESS light curves of planet-hosting M-dwarfs*

Invited Talk, Monday Science Seminar, UW-Madison   January 2022
Oral presentation: *Classifying the Light Curve Morphology of Dipper Stars*

TECHNICAL SKILLS

- Extensive experience with Python, Jupyter Notebooks, Mathematica, and LaTeX.
- Optical Photometry (`Lightkurve`), Exoplanet transit modeling,
- Experienced in MATLAB, GitHub, AutoCAD (Computer-aided design software), Blender (3-D modeling software), and Xcode.

TEACHING AND OUTREACH

Graduate Teaching Assistant   Aug 2022 - May 2023
University of Florida

Astronomy and Astrophysics I (AST 3018): TA for 90 students in each semester of the 22/23 school year. I lead a telescope observing project, answered student questions inside and outside of lectures, graded all homework assignments, held weekly office hours and guest lectured.

Public observing nights volunteer   Aug 2022 - present
University of Florida

Volunteer at the University of Florida Astronomy Department's public observing nights at the campus teaching observatory (CTO).

Physics Club Member   2018-2021
University of Wisconsin - Madison