

Natalie Myers

Resumé

Email: n.myers@tcu.edu • **Phone:** (608) 512-5904 • **Website:** nrmyers.github.io

I'm seeking an opportunity to utilize the data science and computational skills I have gained from my PhD and learn how to successfully apply them in a company environment.

Relevant Experience:

Research Assistant • TCU • Advisor: Dr. Peter Frinchaboy 2021–2025

Wrote numerous accepted proposals to collect stellar spectra on world renowned telescopes

Including: Keck II 10m, Magellan Baade 6.5m, and Harlan J. Smith 2.7m telescopes

Observed 32 nights total on the above telescopes

Reduced and analyzed data with standard stellar synthesis software (IRAF & BACCHUS)

Utilized Python and SQL to build and analyze a homogeneous dataset of stellar parameters

Published the largest catalog of open clusters with homogeneous chemistry at that time

Teaching Assistant • TCU 2020–2021

Communicated complex astronomy & physics topics to students of varying backgrounds.

Managed a classroom and facilitated a learning environment.

Physics Tutor • UST 2019–2020

Helped students understand math and physics topics for up to Calculus III and Modern Physics

Young Scholars Research Grant • UST • Advisor: Dr. Mike Wood Summer 2019

Tested, calibrated, and operated a LHIRES III spectrometer on an 8in telescope

Analyzed data collected of Arcturus in MATLAB to derive the stars' temperature

Wrote a comprehensive manual for future students utilizing the instrument

Observatory Crew • UST 2018–2020

Facilitated observational labs for students.

Gave tours for community outreach events of up to 100 people.

Awards and Fellowships:

2024 AAS International Travel Grant (\$998)

2024 Sigma Xi Grant in Aid of Research (\$2,765)

2024 Graduate Travel Grant, TCU (\$400, \$800)

2023 AAS 241 Chambliss Award for exemplary research in astronomy

2020–2021 Ida Green Fellowship, TCU (\$56,010)

2019–2020 MN Space Grant Consortium Award for Significant Contributions to Research (\$500)

2019 Young Scholars Research Grant, Advisor: M. Wood

Education:

— — Ph.D. Physics – Astrophysics Track, Texas Christian Univ. (TCU), TX (exp. 2025)

Dec 2022 M.S. Physics – Astrophysics Track, Texas Christian Univ. (TCU), TX.

May 2020 B.S. Physics, Univ. of St. Thomas (UST), MN (Minor: Math)

Summary of Skills

Python • Data Science • MATLAB • Microsoft Office • Science Communication