

Natalie Myers

Resumé

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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