

Alyson D. Tran

adtran2847@utexas.edu

Austin, TX | www.linkedin.com/in/alyson-tran-a5165634a

EDUCATION

The University of Texas at Austin, Austin, TX

August 2024-May 2028

Bachelor of Science in Astronomy (Honors)

Bachelor of Science in Physics

EXPERIENCE

Dr. Danielle Berg, Austin, TX

June 2025 - Present

Undergraduate Research Assistant

- Developed continuum fits of CLASSY archive by implementing various dust attenuation and nonuniform dust screen models
- Completed Far-UV continuum fittings for various projects

CIERA REU at Northwestern

June 2026-August 2026

Freshman Research Initiative: White Dwarves Stream, Austin, TX

January 2025 - December 2025

Peer Mentor, Undergraduate Researcher

- Developed foundational skills in coding and astronomy research

PROJECTS

- **Analyzing FUV Spectra with Nonuniform Dust Screens:** Implemented various dust reddening and geometry models in python package FiCUS in order to enhance our understanding of stellar populations in the COS Legacy Archive Spectroscopic SurveY (CLASSY) archive.
- **Determining the Lineout Locations for Opacity Experiments at the NIF:** Developed an autocorrelation function with peers to determine where the uncertainty of NIF opacity measurements would be minimized.

LEADERSHIP & COMMUNITY INVOLVEMENT

Gender Matters in Physics (GMiP), Austin, TX

April 2025 - Present

Co-president, Treasurer

- Manage and raise funds for meetings and events
- Organized events and meetings to foster community for physics undergraduates
- Organizer and volunteer for STEM Girl Day event

Austin STEM Buddies, Austin, TX

January 2025 - Present

Member

- Volunteer at local elementary schools to provide experiments and education in STEM

Texas Infinities, Austin, TX

Member

February 2025 - Present

- Volunteer for local charities such as Austin Creative Reuse and Scare for a Cure

Physics Peer Mentor, Austin, TX

October 2025 - Present

Mentor

- Mentored two first-year physics students to navigate university resources

SKILLS

Technical/Computer Skills: Intermediate in Python (AstroPy, NumPy, SciPy), FITS File handling, LaTeX

Languages: English (*Fluent*),

HONORS AND AWARDS

- CNS Dean's Scholars Program, UT Astronomy Department SURF Program