

EDUCATION

- **University of Texas at Dallas** Class of 2021
B.S. Physics, Minor in Music GPA: 3.848
- **St. Mark's School of Texas** Class of 2017
Planetarium & Observatory Assistant, 2016-2017 GPA: 4.14

PHYSICS & ASTRONOMY

- **University of Texas at Dallas: Physics Department** Richardson
Teaching Assistant January 2020 - Present
 - Set up and led the undergraduate lab component for Electromagnetism & Waves (PHYS 2126)
 - Taught a ground-up curriculum that develops DC and elementary AC circuitry from first principles
 - One of three undergraduate students to hold a Teaching Assistantship in the Department
- **Advanced Research in Thermo Fluid Systems Lab** Dallas
Research Assistant February - August 2019
 - Measured and catalogued fluid properties of hundreds of samples bovine and human milk
 - Developed models to describe how fat globules affect the velocity-dependent viscosity of various milks
 - Gained skill at operating rheometers, density meters, and creamatocrits, as well as exposure to SQL
- **UTD Cosmology, Relativity, and Astrophysics Group** Richardson
Research Assistant June 2017 - December 2018
 - Numerically treated the General Relativistic effective three-body problem of inspiraling binary black holes subject to a third perturbing black hole with hopes to explain underlying dynamics of LIGO measurements
 - Catalogued stellar photometry data from Gaia to help facilitate an exoplanet survey led by citizen-scientists
- **Society of Physics Students** Richardson
Astronomy Committee September 2017 - present
 - Coordinated large-scale star parties at UTD for major astronomical events, including 2018 & 2019 total lunar eclipses, 2018 opposition of Mars, and 2020 transit of Mercury, collaborating with the Texas Astronomical Society
 - Co-led telescope training sessions, exposing community members to a variety of amateur telescopes

PROGRAMMING SKILLS

- **Languages:** Python, MATLAB, L^AT_EX, HTML
- **Technologies and Frameworks:** Anton Paar Rheometry & Density Interfaces

MUSIC

- **Bassist** for DFW-area professional bands, including Addis, C3 Big Band, and Stephen Houpt & Strictly Tablue
- **Coordinator** of Helbing Jazz Initiative Jam Sessions: 2019
- **Featured on** *Light on the Mountain*, *Straight Eighths*, *Strictly Tablue*, *Search for Answers*, and *White Rock Lake*

HONORS

- **Eugene McDermott Scholar** - Class of 2017
- **Collegium V Honors Student** - 2017-2021 - Honors Capstone: Jazz Fusion

VOLUNTEERING

- **IntelliChoice** Garland
Branch Manager & Head Instructor January 2018 - Present
 - Lead volunteer efforts at the Vietnamese Community Center; tutor math weekly to underprivileged students
 - Directed IntelliChoice SAT Summer Camp 2018-2020
- **Charles W. Eisemann Center** Richardson
Outreach Consultant 2019-2020
- **Richardson Public Library** Richardson
Circulation and Technology Volunteer 2017-2018