

EDUCATION

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- **University of Texas at Austin** 2021—  
*M.S. (expected 2023), Ph.D. (expected 2025) Mechanical Engineering, Acoustics* GPA:
- **University of Texas at Dallas** 2017 - 2021  
*B.S. Physics, Minor in Music, Collegium V Honors, Cum Laude* GPA: 3.883

HONORS

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- **McKinney Fellow** - Fellowship awarded by Applied Research Labs (ARL:UT) for support in acoustics-related research
- **Cockrell Fellow** - Fellowship awarded by the Cockrell School of Engineering at UT Austin in recognition of outstanding academic record
- **Eugene McDermott Scholar** - One of twenty-three undergraduates selected for UTD's flagship scholarship; traveled to Santa Fe, Austin, and Washington, D.C. for leadership training; studied classical guitar in Valencia, Spain

PHYSICS & ACOUSTICS EXPERIENCE

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- **UTD Physics Department** 2020  
*Teaching Assistant*
  - Taught the undergraduate lab component for Electromagnetism & Waves (PHYS 2126)
- **Advanced Research in Thermo Fluid Systems Lab** 2019  
*Undergraduate Research Assistant*
  - Measured fluid properties of milk to learn how fat globules affect milk's velocity-dependent viscosity
- **UTD Cosmology, Relativity, and Astrophysics Group** 2017 - 2018  
*Undergraduate Research Assistant*
  - Numerically treated the General Relativistic three-body problem of inspiraling binary black holes subject to a third perturbing black hole with hopes to explain underlying dynamics of LIGO measurements
  - Cataloged stellar photometry data from *Gaia* to help facilitate an exoplanet survey led by citizen-scientists
- **UTD Society of Physics Students** 2017 - 2021  
*Astronomy Committee Member*
  - Coordinated large-scale star parties at UTD for major astronomical events, including 2018 & 2019 total lunar eclipses, 2018 opposition of Mars, and 2020 pass of NEOWISE, collaborating with the Texas Astronomical Society

PRESENTATIONS & PROJECTS

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- **Acoustic Characterization of Echo Amphitheater**, presented at the GSP Seminar on March 26th, 2021
- **Stellar Spectroscopy**, end-of-semester project for PHYS 4373 Physical Measurements Lab
- **Quantum Electrodynamics**, term paper for PHYS 4352 Concepts of Modern Physics
- **Coriolis & Centrifugal Forces**, presented at the GSP Seminar on September 25th, 2020
- **Pappus's Theorem**, presentation for MATH 3321 Geometry, summer 2020
- **Musical Physics**, presented at the GSP Seminar on October 5th, 2018
- **Explaining the Solar Analema**, an end-of-semester paper for PHYS 3380 Astronomy, fall 2018

TECHNICAL SKILLS

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- **Languages:** Python, HTML, L<sup>A</sup>T<sub>E</sub>X, MATLAB, SQL
- **Technologies and Frameworks:** Anton Paar Rheometry & Density Interfaces, Meade and Celestron telescopes

AFFILIATIONS

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- **Texas Astronomical Society**, 2018 - present
- **American Physical Society**, Division of Astrophysics, Division of Gravitation, Texas Section, 2020 - present

## MUSIC EXPERIENCE

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### • Musician

*Upright & electric bass, piano & keyboards, acoustic guitar* 2016 - present

- Currently focusing on guitar performance, in the tradition of Charlie Christian, Wes Montgomery, Barney Kessel, George Benson, and Bireli Lagrene. Also studying Joe Pass, Charlie Byrd, Sylvain Luc, Tommy Emmanuel
- Studied with **Russell Jackson** (B.B. King), **Kelly Durbin** (Marchel Ivery), **Enric Madriguera** (Andrés Segovia), **James Wilder**, **Brian Mulholland** (Maynard Ferguson), and James Driscoll (Doc Severinsen)

### • Custom Chimes

*Acoustician* 2018 - present

- Handcraft and custom-tune wind chimes benefitting charity

### • Pocono Springs Camp

*Music Instructor* 2021

- Will teach guitar, bass, piano, and drums at 5-week summer camp in Pennsylvania

### • Helbing Jazz Initiative

*Coordinator* 2018 - 2019

- Coordinated jam sessions following monthly jazz masterclasses led by Stockton Helbing
- Promoted musical dialogue between community members through the language of jazz

## RECORDINGS & PROJECTS

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- No More Blues, 2021
- Guitar: My College Journey, 2021
- Orphan Girl, 2020
- Ode to Friends, 2020
- The Power of Small Things, 2020
- Blues in June, 2020
- Straight Eighths, 2019
- Light on the Mountain, 2019
- Strictly Tabblue, 2019
- Search for Answers, 2018
- White Rock Lake, 2018

## NOTABLE PERFORMANCES

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- Advanced Jazz Improvisation Masterclass with Todd Mosby, Eisemann Center, January 23rd, 2020
- C3 Big Band, The Free Man, album release party, January 6th, 2020
- Addis featuring Austin Zhang, Shebelle, January 4th, 2020
- The Chirag Gokani Trio, Jonsson Performance Hall, November 21st, 2019
- Greg Waits Jazz Refugees, The Balcony Club, October 3rd, 2019
- Stephen Houpt & Chirag Gokani, The Taos Inn, July 16th, 2019
- Strictly Tabblue, Poor David's Pub, album release party, May 17th, 2019
- Steve Miller, St. Mark's School of Texas, March 15th, 2015

## COMMUNITY ENGAGEMENT

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### • IntelliChoice

*Branch Manager & Instructor* 2018 - 2021

- Directed **IntelliChoice SAT Summer Camp** (2018-2020), valued at \$297,000/year, boosting students' SAT scores by factors of ~1.5 and significantly increasing college matriculation rates in the underprivileged community
- Led volunteer efforts at the Vietnamese Community Center, tutoring math weekly to underprivileged students

### • Richardson Public Library

*Volunteer* 2017 - 2019

- Co-taught technology classes for adults and creative writing classes for children
- Assisted circulation by pulling hold items for patrons