

Curriculum Vitae
Brandon Pries, B.S.
Graduate Teaching Assistant, School of Physics, Georgia Institute of Technology
November 13, 2025

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Brandon Pries

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Education

Georgia Institute of Technology (Georgia Tech), Atlanta, GA

August 22, 2022 – Present

GPA 3.8/4.0; Major GPA 3.8/4.0

Doctor of Philosophy, Physics, College of Sciences

Expected Spring 2028

- Galaxies, cosmology, high-energy astrophysics
- Classical/quantum/statistical mechanics, electromagnetism, computational physics

Doctoral Minor in Higher Education

- Learner-centered teaching, metacognition, student motivation/engagement, active learning, backwards design, universal design for learning (UDL)

Dissertation Topic: *Formation and Evolution of Direct Collapse Black Holes as Supermassive Black Hole Seeds*

- Advisor: John H. Wise
- Thesis Committee: David Ballantyne, Tamara Bogdanović, Surabhi Sachdev

Michigan State University (MSU), East Lansing, MI

August 29, 2018 – May 7, 2022

GPA 3.965/4.0; Major GPA 4.0/4.0

Honors College

Bachelor of Science, Astrophysics, College of Natural Science (with High Honors)

May 7, 2022

- Exoplanets, telescopes, stars, galaxies
- Thermodynamics, classical/quantum/statistical mechanics, electromagnetism, computational physics

Minor in Mathematics

- Calculus, linear/abstract algebra, number theory, analysis, ordinary/partial differential equations

Minor in Computational Mathematics, Science, and Engineering (CMSE)

- Computational modeling, parallelization, high-performance computing (HPC), GPU acceleration, Python, C++, Bash, Linux, SLURM, Git/GitHub

Minor in Data Science

- Probability/statistics, hypothesis testing, sampling, model development/fitting/selection, R, SQL

Undergraduate Thesis: *Indirect Search for Dark Matter via Neutrinos from WIMP Annihilation with IceCube* (May 4, 2022)

- Advisors/Mentors: Tyce “Ty” DeYoung, Mehr U. Nisa

Professional Appointments

Graduate Teaching Assistant (GTA), Georgia Tech	August 2022 – May 2024; August 2025 – Present
Graduate Research Assistant (GRA), Georgia Tech	May 2024 – August 2025
Research Assistant, MSU	May 2022 – Present
Undergraduate Learning Assistant (ULA), MSU	January 2021 – May 2021; August 2021 – May 2022
Undergraduate Research Assistant, MSU	May 2019 – August 2019; May 2020 – May 2022
Professorial Assistant (PA), Honors College, MSU	August 2018 – May 2019; August 2019 – May 2020

Honors, Scholarships, and Awards

CIRTL Associate Certificate	March 10, 2025
• Center for the Integration of Research, Teaching, and Learning	
Center for Relativistic Astrophysics (CRA) Travel Award	November 2024
• \$1,000 award for travel to Joint Space Institute Workshop 2024	
Outstanding Online Head TA of the Year, Georgia Tech	April 17, 2024
• \$500 award	
Online Head TA of the Year, School of Physics, Georgia Tech	March 7, 2024
Thomas H. Osgood Award, Department of Physics and Astronomy, MSU	April 28, 2022
• Outstanding Undergraduate Senior	
Outstanding ULA Award, Department of Physics and Astronomy, MSU	April 22, 2021; April 28, 2022
• Upper-Level Physics/Astronomy Course	
Author list, IceCube Collaboration	October 8, 2020 – Present
Dean's List, MSU	Fall 2018 – Spring 2022
Honors College, MSU	Fall 2018 – Spring 2022
Professorial Assistantship (PA), MSU	Fall 2018 – Spring 2019; Fall 2019 – Spring 2020
• Undergraduate research scholarship, ~\$8,700	

Research Experience

Wise group, Georgia Tech	August 2023 – Present
• Direct Collapse Black Hole (DCBH) Classification	
Advisors/Mentors: John H. Wise (Faculty)	
1. Predicting formation of DCBHs in dark matter halos using support vector machines (SVMs)	
2. Optimizing SVM hyperparameters using grid-search algorithm	
3. Measuring importance of predictive features for classification of DCBH-hosting halos	
4. Inspecting halos misclassified by SVMs with different feature subsets	

Li group, Georgia Tech	December 2022 – May 2023
• Black Hole Binary (BHB) Evolution <i>Advisors/Mentors: Gongjie Li (Faculty)</i> 1. Simulated evolution of black hole binary systems around active galactic nuclei (AGNs)	
IceCube Collaboration, MSU	September 2018 – Present
• <u>Neutrinos from Dark Matter Annihilation</u> <i>Advisors/Mentors: Tyce “Ty” DeYoung (Faculty), Mehr U. Nisa (Postdoc → Faculty)</i> 1. Processing 7 years of IceCube data to use with neutrino spectra from dark matter annihilation 2. Generating custom probability distribution functions (PDFs) to calculate IceCube sensitivities to annihilation spectra 3. Tracking progress with analysis Wikipedia page and analysis GitHub repository	
• Recurrent Neural Network (RNN) Event Reconstruction <i>Advisors/Mentors: Tyce “Ty” DeYoung (Faculty), Claudio Kopper (Faculty), Brian Clark (Postdoc)</i> 1. Reconstructed neutrino events using RNNs for orders-of-magnitude increase in reconstruction speed 2. Gathered and processed approximately 2 million neutrino events as data for use in RNN research 3. Tracked progress with analysis GitHub repository	
• Convolutional Neural Network (CNN) Event Reconstruction <i>Advisors/Mentors: Tyce “Ty” DeYoung (Faculty), Claudio Kopper (Faculty), Jessie Micallef (Graduate Student)</i> 1. Optimized structure of CNNs using grid-search algorithm 2. Explored effects of 5 different loss functions on CNN regression problems for event reconstruction 3. Investigated methods for multivariate regression with CNNs	

Research Supervision and Mentorship

Ishita Chintala, undergraduate student, Georgia Tech	Fall 2025 – Present
• Statistical analysis of misclassifications of non-DCBH-hosting halos in an SVM • Merger trees and growth histories of DCBH-hosting halos and misclassified non-DCBH-hosting halos	
Elizabeth Mone, undergraduate student, Georgia Tech	Spring 2024 – Spring 2025
• Statistical analysis of DCBH-hosting halos • Feature importance for classification of DCBH-hosting halos • Decision trees for classification of DCBH-hosting halos	

Publications

Published Journal Articles

1. E. Mone, **B. Pries**, J. H. Wise, & S. Ferrans. “Beyond the Goldilocks Zone: Identifying Critical Features in Massive Black Hole Formation.” *ApJ* **982** 39, March 20, 2025 (*published online* March 17, 2025). [[ApJ](#), [arXiv](#), [ADS](#)]

Manuscripts Under Review

1. **B. Pries** & J. H. Wise. “Identification of Candidate Halos Hosting Massive Black Hole Seeds in the *Renaissance* Simulations with Support Vector Machines.” *Submitted to ApJ*, November 11, 2025. [[arXiv](#), [ADS](#)]

Manuscripts in Preparation

1. R. Abbasi et al. (IceCube Collaboration, incl. **B. Pries**). “Limits on GeV-scale WIMP Annihilation in Dwarf Spheroidals with IceCube DeepCore.” *In prep.*

Dissertations and Theses

1. **B. Pries**. “Indirect Search for Dark Matter via Neutrinos from WIMP Annihilation with IceCube.” *MSU Department of Physics and Astronomy (undergraduate thesis)*, May 4, 2022.

Presentations

Invited Seminar/Colloquia/Journal Club Presentations

1. **B. Pries** & N. Willey. “Recurrent Neural Networks as a Tool for IceCube-Upgrade Reconstructions.” *Student Machine Learning Initiative, Brown University (virtual)*, October 5, 2021.

Contributed Conference Presentations

7. **B. Pries**. “Identifying Direct Collapse Black Hole Sites in Cosmological Simulations.” *The Formation and Early Evolution of Supermassive Black Holes, Baltimore, MD*, November 20, 2024.
6. **B. Pries**. “Sensitivities to WIMP Annihilation Cross Sections with IceCube DeepCore.” *American Physical Society (APS) April Meeting, Sacramento, CA (virtual)*, April 5, 2024.
5. **B. Pries**. “Sensitivities to Low-Mass WIMP Annihilation Cross Sections with IceCube Neutrinos.” *American Physical Society (APS) April Meeting, Minneapolis, MN (virtual)*, April 24, 2023.
4. **B. Pries**. “Trials Improvements for Low-Mass WIMP Annihilation Search.” *Spring 2023 IceCube Collaboration Meeting, Aachen, Germany (virtual)*, March 14, 2023.
3. **B. Pries**. “IceCube-Upgrade Reconstructions using Recurrent Neural Networks.” *2021 APS Division of Particles and Fields (APS DPF) Meeting, Florida State University (virtual)*, July 14, 2021.
2. **B. Pries**. “Update on IceCube-Upgrade Reconstructions.” *Spring 2021 IceCube Collaboration Meeting, Aachen, Germany (virtual)*, March 18, 2021.

1. **B. Pries.** “Recurrent Neural Networks for IceCube-Upgrade Reconstruction.” *Fall 2020 IceCube Collaboration Meeting, Madison, WI (virtual)*, September 14, 2020.

Contributed Conference Posters

4. **B. Pries.** “Using Neutrinos to Search for WIMPs in Dwarf Galaxies.” *University Undergraduate Research and Arts Forum (UURAF), MSU*, April 8, 2022.
3. **B. Pries.** “Searching for Dark Matter in Dwarf Galaxies Through Neutrino Production.” *Mid-Michigan Symposium for Undergraduate Research Experiences (Mid-SURE), MSU (virtual)*, July 28, 2021.
2. **B. Pries.** “Recurrent Neural Networks for IceCube-Upgrade Reconstructions.” *UURAF, MSU (virtual)*, April 15, 2021.
1. **B. Pries.** “Applications of Recurrent Neural Networks to the IceCube-Upgrade.” *Mid-SURE, MSU (virtual)*, August 10, 2020.

Contributed Seminar/Colloquia/Journal Club Presentations

2. **B. Pries.** “Limits on WIMP Annihilation Cross Sections with IceCube Neutrinos.” *Cosmic Coffee, Georgia Tech Center for Relativistic Astrophysics (CRA)*, October 11, 2023.
1. **B. Pries.** “IceCube Search for Low-Mass WIMP Annihilation in Dwarf Galaxies.” *Astronomy Seminar, MSU Department of Physics and Astronomy*, April 20, 2022.

Teaching Experience

Graduate Teaching Assistant (GTA), Georgia Tech

Fall 2022 – Spring 2023; Fall 2025

PHYS 2021 – Solar System, Dr. Paul Sell (25 students)

Fall 2025

- Grading in-class worksheets, projects, and extra credit assignments
- Proctoring 2 midterm exams and final exam
- Holding office hours twice a week to assist students with coursework by answering questions and working through problems
- Assisting in in-class instruction by answering questions and guiding problem solving
- Teaching two class periods to fulfill Tech to Teaching certification requirements
- Grading 2 midterm exams for *PHYS 2211 – Principles of Physics I, Dr. Emily Alicea-Muñoz* (1235 students)

PHYS 2211 – Intro Physics I, Dr. Edwin “Ed” Greco (57 students)

Spring 2023

UTAs: Jiaying “Isobel” Deng, Amberlyn “Amber” Diehl

- Responsible for 2 lab sections with a focus on matter, interactions, and simulations
- Led lab instruction by answering questions and guiding problem solving
- Proctored and graded 3 midterm exams
- Attended weekly meetings with Head GTA to discuss lab and exam content

PHYS 2211 – Intro Physics I, Dr. Emily Alicea-Muñoz (53 students)

Fall 2022

UTAs: Khushi Patel, William “Will” Wood

Head Teaching Assistant (Head TA), Georgia Tech	Summer 2023 – Spring 2024
<i>PHYS 2211 – Intro Physics I, Dr. Emily Alicea-Muñoz</i> (1273 students)	Spring 2024
24 Graduate Teaching Assistants (GTAs), 31 Undergraduate Teaching Assistants (UTAs)	
<ul style="list-style-type: none">• Answered student questions in online forum and via email• Held office hours once a week to assist students with coursework by answering questions and working through problems• Wrote answer keys to exams• Communicated with instructors regarding exam content and formatting to revise exam drafts• Assisted GTAs in proctoring and grading exams• Proctored and graded final exam• Met with Course Coordinator once a week to prepare for weekly meeting with TAs• Led weekly meetings with other GTAs and UTAs to discuss lab and exam content• Assisted in homework debugging	
<i>PHYS 2211 – Intro Physics I, Dr. Emily Alicea-Muñoz</i> (1137 students)	Fall 2023
22 GTAs, 32 UTAs	
<i>PHYS 2211 – Intro Physics I, Dr. Andrew “Andy” Scherbakov</i> (378 students)	Summer 2023
18 GTAs	
<ul style="list-style-type: none">• Answered student questions in online forum and via email• Held office hours once a week to assist students with coursework by answering questions and working through problems• Wrote answer keys to exams• Communicated with instructor regarding exam content and formatting to revise exam drafts• Created exam rubrics• Proctored 3 midterm exams and final exam for students with accommodations• Assisted GTAs in proctoring and grading exams• Met with instructor once a week to prepare for weekly meeting with GTAs• Led weekly meetings with other GTAs to discuss lab and exam content	
Undergraduate Learning Assistant (ULA), MSU	Spring 2021; Fall 2021 – Spring 2022
<i>AST 208 – Planets and Telescopes, Dr. Joseph “Joey” Rodriguez</i> (39 students)	Spring 2022
<ul style="list-style-type: none">• Graded homework assignments and provided constructive criticism• Held office hours once a week to assist students with coursework by answering questions and working through problems• Assisted in astronomy lab instruction by answering questions and guiding problem solving	
<i>AST 207 – The Science of Astronomy, Dr. Gerard “Mark” Voit</i> (66 students)	Fall 2021
<ul style="list-style-type: none">• Graded in-class assignments and provided constructive criticism• Held office hours once a week to assist students with coursework by answering questions and working through problems• Assisted in in-class instruction by answering questions and guiding problem solving• Proctored and graded 3 midterm exams and proctored final exam	
<i>AST 208 – Planets and Telescopes, Dr. Joseph “Joey” Rodriguez</i> (30 students)	Spring 2021

Outreach, Service, and Involvement

Published Astrobites

18. **B. Pries** (ed. W. Golay). “Stellar Feedback Regulating Massive Black Hole Growth.” *Astrobites*, November 5, 2025. [[Astrobites](#)]
17. **B. Pries** (ed. K. Lee). “Does Feedback Support Massive Black Hole Growth in Dwarf Galaxies?” *Astrobites*, October 3, 2025. [[Astrobites](#)]
16. S. Grayson, **B. Pries**, W. Smith, A. Uppal, & M. Vincent (ed. M. Ferrari & R. White). “Guide to CVs.” *Astrobites*, September 23, 2025. [[Astrobites](#)]
15. **B. Pries** (ed. K. Gary). “Eating Up the Competition: Super-Competitive Accretion in Early Star Clusters.” *Astrobites*, August 1, 2025. [[Astrobites](#)]
14. **B. Pries** (ed. C. King). “On the Straight and Narrow: How Black Hole Seeds Agree with Scaling Relations.” *Astrobites*, July 16, 2025. [[Astrobites](#)]
13. **B. Pries** (ed. S. Grayson). “Growth Spurt: Super-Eddington Accretion Leading to Overly Massive Black Holes?” *Astrobites*, July 10, 2025. [[Astrobites](#)]
12. **B. Pries** (ed. S. Roch). “Do X-Rays Help or Hurt Black Hole Formation?” *Astrobites*, May 14, 2025. [[Astrobites](#)]
11. S. Grayson, C. Meldorf, **B. Pries**, & W. Smith. “Guide to Λ CDM.” *Astrobites*, January 6, 2025. [[Astrobites](#)]
10. **B. Pries** (ed. A. Whitford). “Over the Limit: Accretion and Feedback of Early Black Holes.” *Astrobites*, December 25, 2024. [[Astrobites](#)]
9. **B. Pries** (ed. W. Golay). “Big Black Holes in Little Galaxies.” *Astrobites*, November 8, 2024. [[Astrobites](#)]
8. **B. Pries** (ed. A. Anderson). “Heavy Metal: Actinides from Compact Object Mergers.” *Astrobites*, November 2, 2024. [[Astrobites](#)]
7. **B. Pries** (ed. C. Slaughter). “Weight Gain: Growing Little Black Holes in the Early Universe.” *Astrobites*, September 24, 2024. [[Astrobites](#)]
6. **B. Pries** (ed. A. Sinha). “New Species of Dwarf Galaxy in the Galaxy Cluster Ecosystem?” *Astrobites*, September 10, 2024. [[Astrobites](#)]
5. **B. Pries** (ed. S. Grayson). “A Universal Accounting Problem: Tension in Reionization Estimates.” *Astrobites*, August 17, 2024. [[Astrobites](#)]
4. **B. Pries** (ed. V. Bonidie). “Blowout: AGNs Quenching Star Formation in Dwarf Galaxies.” *Astrobites*, June 6, 2024. [[Astrobites](#)]
3. Astrobites Collaboration (incl. **B. Pries**, ed. M. Vincent). “2024 Album of the Year: A Total Eclipse of the Sun.” *Astrobites*, April 11, 2024. [[Astrobites](#)]
2. **B. Pries** (ed. A. Masegian). “Ultra-Faint Dwarf Galaxies: Not as Small as We Thought?” *Astrobites*, April 1, 2024. [[Astrobites](#)]
1. **B. Pries** (ed. E. Clarke & N. Korhonen Cuestas). “Detecting Ghostly Neutrinos that Skim Earth’s Crust.” *Astrobites*, February 8, 2024. [[Astrobites](#)]

Astrobite Editing

17. A. Gupta (ed. **B. Pries**). “How to Hide a Black Hole in a Hot Dog.” *Astrobites*, October 23, 2025. [[Astrobites](#)]
16. J. Thwaites & S. Stevenson (ed. **B. Pries** & A. Whitford). “Part 3: Extended Physics Analyses with the DESI DR2 BAO.” *Astrobites*, October 6, 2025. [[Astrobites](#)]
15. S. Stevenson & A. Whitford (ed. **B. Pries** & J. Thwaites). “Part 2: Data Analysis with the DESI DR2 BAO.” *Astrobites*, October 6, 2025. [[Astrobites](#)]
14. S. Stevenson & S. Kulkarni (ed. J. Thwaites & **B. Pries**). “Part 1: Key Results from the DESI DR2.” *Astrobites*, October 6, 2025. [[Astrobites](#)]
13. V. Bonidie (ed. **B. Pries**). “Strange New Plasma.” *Astrobites*, August 23, 2025. [[Astrobites](#)]
12. I. Oaks (ed. **B. Pries**). “Guest: What are Partial Tidal Disruption Events, and How Do We Find Them?” *Astrobites*, August 4, 2025. [[Astrobites](#)]
11. V. Cáceres (ed. **B. Pries**). “Uncovering the Precession of GW190521: How the Last Cycle Cracked the Case.” *Astrobites*, June 21, 2025. [[Astrobites](#)]
10. S. Deng (ed. **B. Pries**). “Guest: Wolf-Rayet Stars & Compact Object Collisions: A Stellar Recipe for Gravitational Waves?” *Astrobites*, May 8, 2025. [[Astrobites](#)]
9. J. Lubin (ed. **B. Pries**). “What Role Does Planet Orbital Eccentricity Play On Planet Habitability?” *Astrobites*, March 24, 2025. [[Astrobites](#)]
8. N. Sharei (ed. **B. Pries**). “Echoes of the First Light: A Mysterious Metal-Poor Galaxy at Cosmic Dawn.” *Astrobites*, March 10, 2025. [[Astrobites](#)]
7. F. Natsheh (ed. **B. Pries**). “UR: Something from Nothing: Analyzing JWST Pixel Data.” *Astrobites*, December 14, 2024. [[Astrobites](#)]
6. C. von Raesfeld (ed. **B. Pries**). “Book Review: Research is Ceremony.” *Astrobites*, November 29, 2024. [[Astrobites](#)]
5. C. Meldorf (ed. **B. Pries**). “Live Fast, Die Young, Bad Gals Do It Well.” *Astrobites*, October 23, 2024. [[Astrobites](#)]
4. S. Panjkov (ed. **B. Pries**). “Are Giant Stars Stealing Lithium from Their Neighbours?” *Astrobites*, October 17, 2024. [[Astrobites](#)]
3. N. Korhonen Cuestas (ed. **B. Pries**). “Under (Ram) Pressure! Stripping Galaxies Of Their Gas.” *Astrobites*, August 6, 2024. [[Astrobites](#)]
2. L. Rowland (ed. **B. Pries**). “The photocopied “sunburst” from the early Universe.” *Astrobites*, April 17, 2024. [[Astrobites](#)]
1. C. Slaughter (ed. **B. Pries** & K. Rockliffe). “Small but Mighty: Disk Chemistry in an M-Dwarf System.” *Astrobites*, February 19, 2024. [[Astrobites](#)]

Outreach Presentations

5. **B. Pries.** “Admitted Students Open House.” *School of Physics, Georgia Tech*, March 14, 2025.
4. **B. Pries.** “PhD Pathways Event.” *Explore Living Learning Community, Georgia Tech*, January 23, 2025.
3. **B. Pries.** “Constraining WIMP Annihilation Rates via Neutrinos.” *Astronomy Club, MSU (virtual)*, March 20, 2023.
2. **B. Pries.** “Detecting Neutrinos from WIMPs.” *Society of Physics Students (SPS), MSU*, October 21, 2021.
1. **B. Pries.** “Recurrent Neural Networks for Low-Energy Neutrino Interaction Reconstruction.” *SPS, MSU (virtual)*, October 8, 2020.

Media Appearances

1. Quoted in “Astronomers really like the South Pole, but why?” by B. Lewis. *Popular Science*, September 5, 2024. [[PopSci](#)]

Community Service and Involvement

Moderator/Question Judge, Georgia High School Region Science Bowl	February 1, 2025
• Read questions for 4 matches • Managed buzzer system for 2 matches	
Moderator, Georgia High School Regional Science Bowl	February 3, 2024
• Read questions for 8 matches	
Writer, Astrobites	January 5, 2024 – Present
• Summarizing astronomy research papers into bite-sized articles for undergraduate audiences • Writing 9 articles per year • Editing/reviewing 9 articles per year	

University Service and Involvement

Georgia Tech

Mentor, Graduate Association of Physicists (GAP) Mentorship Program <i>Mentees: Sena Ghobadi, Anne Marie Zambon</i>	Summer 2025 – Present
• Meeting with 2 incoming/first-year Physics Ph.D. students • Providing advice related to classes, graduate research, finding an advisor, teaching assistantships, and life as a graduate student	
Panelist, Admitted Students Open House, School of Physics	March 14, 2025
Speaker, Ph.D. Pathways, Explore Living Learning Community	January 23, 2025
Invited panelist, Celebrating Distance Teaching and Learning Symposium	October 29, 2024
Member, GAP	Fall 2022 – Present
• Panelist, Graduate School Applications panel	October 12, 2022; October 30, 2024

MSU

Mentor, Stellar Mentorship Program, Department of Physics and Astronomy <i>Mentees: Owen James, Aditya "Kal" Kalakuntla</i>	Fall 2021 – Spring 2022
• Met with 2 astronomy underclassmen mentees at least once monthly	
• Provided advice related to classes, undergraduate research, degree pathways, and navigating the astrophysics major	
Mentee, Stellar Mentorship Program, Department of Physics and Astronomy <i>Mentor: Jack Schulte (Graduate Student)</i>	Fall 2021 – Spring 2022
• Met with astronomy graduate student mentor at least once monthly	
• Discussed senior year experiences, graduate school, and graduate school applications	
Vice President, Astronomy Club	Fall 2021 – Spring 2022
• Contacted astronomy faculty as potential speakers for club meetings	
• Collaborated with MSU Observatory Interim Director (Dr. Rodriguez) to plan Astronomy Club tour of the observatory facilities for approximately 20 students	
• Coordinated with President on running biweekly meetings with approximately 20 attendees	
• Helped plan and run semiannual Fall/Spring BBQ with approximately 60 attendees (joint with SPS)	
Member, Astronomy Club	Fall 2018 – Spring 2022
Member, SPS	Fall 2018 – Spring 2022
• Panelist, Graduate School Applications panel	March 23, 2022

Professional Societies and Affiliations

Astrobites Collaboration	January 5, 2024 – Present
• Scheduling Committee	October 23, 2025 – Present
• Editorial Committee	August 22, 2024 – Present
• Education Committee	August 22, 2024 – Present
Society for Collegiate Leadership and Advancement (SCLA)	December 19, 2023 – Present
Center for Teaching and Learning (CTL), Georgia Tech	January 31, 2023 – Present
• Tech to Teaching Program	January 31, 2023 – Present
Center for Relativistic Astrophysics (CRA), Georgia Tech	August 22, 2022 – Present
American Astronomical Society (AAS)	April 1, 2022 – Present
National Society of Leadership and Success (NSLS)	October 29, 2021 – Present
• Foundations of Leadership Certificate 2	April 18, 2022
• Foundations of Leadership Certificate 1	December 9, 2021
American Physical Society (APS)	May 10, 2021 – Present
Sigma Pi Sigma ($\Sigma\Pi\Sigma$) National Honor Society	April 15, 2021 – Present
Golden Key National Honor Society	November 4, 2019 – Present
Phi Sigma Theta ($\Phi\Sigma\Theta$) National Honor Society	February 18, 2019 – Present
National Society of Collegiate Scholars (NSCS)	February 10, 2019 – Present
IceCube Collaboration	August 29, 2018 – Present
Physics and Astronomy Department, MSU	August 29, 2018 – Present

Languages

- English – C2/native proficiency
- Spanish – B2/professional working proficiency
- German – A1/elementary proficiency