

# JUSTIN H. ROBINSON – CURRICULUM VITAE

## CONTACT INFORMATION

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Department of Physics & Astronomy  
Georgia State University  
Atlanta, GA 30302

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Office: 1 Park Place, Office 431  
[Click Here for My Website](#)

## CURRENT POSITION

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**Lecturer** 2024-Present  
Georgia State University (GSU)

## EDUCATION

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**GSU** 2022  
Ph.D., Astronomy  
Advisor: Dr. Misty Bentz

**GSU** 2020  
M.S., Physics  
Advisor: Dr. Misty Bentz

**Saint Mary's College of California (SMC)** 2017  
B.S. in Physics with Astrophysics Concentration  
Advisors: Dr. Ronald Olowin, Dr. Brian Hill

## PREVIOUS EMPLOYMENT

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**Visiting Lecturer** 2023-2024  
GSU

**Tenure Track Assistant Professor** 2021-2023  
Troy University (TU)

**Graduate Research Assistant** 2017-2022  
GSU

**Astronomy Graduate Lab Coordinator** 2019-2021  
GSU

**Mathematics Tutorial Teacher** 2016-2017  
Taught pre-calculus and calculus tutorial classes at SMC

**Laboratory Assistant** 2015-2017  
Assisted in the astronomy lab course at SMC

## PROFESSIONAL AFFILIATIONS

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Fernbank Science Center 2025-Present  
Atlanta Astronomy Club 2025-Present  
Astronomy on Tap (AoT) 2024-Present  
Georgia Space Grant Consortium (GSGC) 2018-Present  
American Astronomical Society (AAS) Member 2017-Present  
Troy Astronomical Society (TAS) 2021-2023  
Arecibo Legacy Fast ALFA (ALFALFA) 2014-2017  
Arecibo Pisces-Perseus Supercluster Survey (APPSS) 2014-2017

## SKILLS

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Proficient in IDL, Python, L<sup>A</sup>T<sub>E</sub>X, IRAF, DS9, MacOS, Windows, Linux, Microsoft Office Suite  
iCollege instructor and proficiency certification  
Canvas instructor and proficiency certification  
Knowledgeable in MaximDL  
CARMEL: geometric and dynamical modeling software of reverberation mapping data.  
Galfit: galaxy surface brightness modeling software.  
BusyFit: analytical modeling of emission line profiles.  
Green Bank Telescope (GBT) GBTIDL: IDL suite for reduction and analysis of GBT spectral data.  
Remote observing, GBT  
Arecibo Radio Telescope IDL\_LBW: IDL suite for reduction and analysis of Arecibo spectral data.  
Remote observing, Arecibo Telescope

## LEADERSHIP POSITIONS

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On-Campus Observation Co-Director, GSU	2025-Present
GSU Affiliate Director, GSGC	2024-Present
AoT Atlanta Program Manager <a href="#">Click here for AoT Atlanta's website</a>	2024-Present
Georgia Outreach Team for Space (GOT Space) Faculty Lead, GSGC <a href="#">Click here for GOT Space's website</a>	2023-Present
Undergraduate Summer Research Program Mentor, GSU	2025
On-Campus Observation Director, GSU	2025
Three Taverns Astrophysics Lecture Series Director	2023-2024
Research Experience for Undergraduates (REU) Program Mentor, GSU	2024
Interim GSU Affiliate Director, GSGC	2023-2024
Research Committee Chair, Faculty Senate, TU	2023
Faculty Senate, TU	2022-2023
TAS President, TU	2022-2023
TAS Vice President, TU	2021-2022
Astronomy Graduate Lab Coordinator, GSU	2019-2021
AstroPAL (Peer Advising Leader), GSU	2019-2021
GOT Space Graduate Lead, GSGC	2018-2021
Graduate Student Liaison, AstroPAL & Physics Graduate Student Association, GSU	2018-2019
ALFALFA Undergraduate Research Leader, SMC	2017

## COURSES DEVELOPED AND TAUGHT

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Studio courses are taught in a flipped classroom structure with the lab component integrated into the lecture.

### **PHYS-1111K “Introductory Physics I”**

Undergraduate, algebra-based physics lab science course, GSU

### **PHYS-1111K “Introductory Physics I - Studio”**

Undergraduate, algebra-based physics lab science course, GSU

### **PHYS-1112K “Introductory Physics II - Studio” (in progress)**

Undergraduate, algebra-based physics lab science course, GSU

### **PHYS-2211K “Principles of Physics I”**

Undergraduate, calculus-based physics lab science course, GSU

### **PHYS-4870K “Honors Thesis I”**

Undergraduate senior research thesis physics course, GSU

**PHYS-4900K “Research Projects”**

Undergraduate independent research project physics course, GSU

**ASTR-1000K “Introduction to the Universe”**

Undergraduate science course, GSU

**ASTR-1010K “Astronomy of the Solar System”**

Undergraduate lab science course, GSU

**ASTR-1020K “Stellar and Galactic Astronomy”**

Undergraduate lab science course, GSU

**ASTR-3301 “Extragalactic Astronomy”**

Undergraduate astronomy & astrophysics course, TU

**SCI-1110 “Exploring the Solar System”**

Undergraduate lab science course, TU

**SCI-L110 “Exploring the Solar System Lab”**

Undergraduate science lab, TU

**SCI-1110 ONLINE “Exploring the Solar System”**

Online undergraduate lab science course, TU

**SCI-L110 ONLINE “Exploring the Solar System Lab”**

Online undergraduate science lab, TU

**SCI-2240 “Principles of Astronomy: Stars, Galaxies, and Cosmology”**

Undergraduate lab science course, TU

**SCI-L240 “Principles of Astronomy: Stars, Galaxies, and Cosmology Lab”**

Undergraduate science lab, TU

**SCI-2240 ONLINE “Principles of Astronomy: Stars, Galaxies, and Cosmology”**

Online undergraduate lab science course, TU

**SCI-L240 ONLINE “Principles of Astronomy: Stars, Galaxies, and Cosmology Lab”**

Online undergraduate science lab, TU

**SCI-L233 “Physical Science Laboratory”**

Undergraduate science lab, TU

**PREVIOUS TEACHING EXPERIENCE**

<b>Visiting Lecturer</b>	2023-2024
Instructor of record for undergraduate physics and astronomy lecture courses at GSU	
<b>Tenure Track Assistant Professor</b>	2021-2023
Instructor of record for undergraduate physics and astronomy lecture and lab courses at TU	
<b>Astronomy Lab Instructor</b>	2017-2020
Taught 1010 and 1020 labs for introductory astronomy courses at GSU	
<b>Mathematics Tutorial Teacher</b>	2016-2017
Taught pre-calculus & calculus tutorial classes at SMC	
<b>Mathematics Tutor</b>	2016-2017
Student tutor at SMC	
<b>Teaching Assistant, Astronomy</b>	2015-2017

## UNDERGRADUATE STUDENTS ADVISED (ACADEMIC)

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Bartol Barcot, BS in physics (CoMPAs Internship), GSU	2025
Nicole Eikmeier, BS in physics, astronomy & astrophysics minor, TU	2023
Elizabeth Alexander, BS in physics, astronomy & astrophysics minor, TU	2023
Veronica Lahue, BS in physics, astronomy & astrophysics minor, TU	2022-2023
Thomas Kay, BS in physics, astronomy & astrophysics minor, TU	2022-2023
Aster Hamaker, BS in physics, astronomy & astrophysics minor, TU	2022-2023
Mystic Wilkes, BS in physics, astronomy & astrophysics minor, TU	2022-2023
Austen Hensley, BS in physics, TU	2021

## UNDERGRADUATE STUDENTS ADVISED (RESEARCH)

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Willem Humphries, BS in physics, GSU	2025-Present
Nathan Borchers, BS in physics, astronomy concentration, GSU	2025-Present
Richelle Nunez, BA in music education, GSU	2025-Present
Meenakshi Raj, BS in physics (PHYS 4870K student), GSU	2025-Present
Veronica Lahue, BS in physics, astronomy & astrophysics minor, TU	2022-Present
Abraham Seck, BS in physics, astronomy concentration (TEAM-UP Scholarship), GSU	2025
Mahitha Ramachandran, BS in astronomy & astrophysics (REU Student), University of Pittsburgh	2024
Ishita Chintala, BS in physics (REU Student), GSU	2024
Naveen Ali, BS in aerospace engineering, Georgia Institute of Technology	2023-2024
Atul Gautam, BS in physics, GSU	2023-2024
Bradley Clemons, BS in physics (PHYS 4900K student), GSU	2023-2024
Thomas Gregoire, BS in physics (PHYS 4900K student), GSU	2023
Thomas Kay, BS in physics, astronomy & astrophysics minor, TU	2022-2024

## AWARDS AND HONORS

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AAS Harlow Shapley Visiting Lectures Program Alternate	2026
Nominee, Ingalls Award for Excellence in Classroom Teaching, TU	2023

## RESEARCH INTERESTS

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HI 21 cm emission line diagnostics; active galactic nucleus host galaxies; extragalactic distance determinations; galaxy baryonic/dynamical/dark matter mass determinations; relationships between galaxies and supermassive black holes; supermassive black hole mass measurements via reverberation mapping.

## PEER-REVIEWED PUBLICATIONS

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“Investigating the Narrow Line Region Dynamics in Nearby Active Galaxies”  
Beena Meena, 9 co-authors including Justin H. Robinson et al. 2023, ApJ, 943, 98  
[Click here for the abstract](#)

“Tully-Fisher Distances and Dynamical Mass Constraints for 24 Host Galaxies of Reverberation-Mapped AGN”  
Justin H. Robinson, 8 co-authors et al. 2021, ApJ, 912, 160  
[Click here for the abstract](#)

“HI Spectroscopy of Reverberation-Mapped Active Galactic Nuclei”  
Justin H. Robinson, 4 co-authors et al. 2019, ApJ, 880, 68  
[Click here for the abstract](#)

## UNDERGRADUATE CONFERENCE PUBLICATIONS

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“Dynamical Modeling of the Broad Line Region of NGC 4151”  
Mahitha Ramachandran, Justin H. Robinson 2025, ASPC, 540, 9  
[Click here for the abstract](#)

## ACCEPTED PROPOSALS

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### “HI Spectroscopy of Active Galaxies with Direct Black Hole Mass Measurements”

GBT Project ID: GBT18B-258

Hours allocated: 208.25

## GRANTS

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### “AsTropaLooza: The Astronomy of ATL Showcase”

Amount Allocated: \$30,000

Funding Source: NASA, GSGC

PI: Justin Robinson

2025

### “The Georgia Outreach Team for Space”

2024, 2025

Cumulative Amount Allocated: \$15,000

Funding Source: NASA, GSGC

PI: Sebastien Lepine, Co-PI: Justin Robinson (2024)

PI: Justin Robinson (2025)

### “Georgia State University - GSGC Fellowship”

2023, 2024, 2025

Cumulative Amount Allocated: \$30,000

Funding Source: NASA, GSGC

PI: Sebastien Lepine, Co-PI: Justin Robinson (2024)

PI: Justin Robinson (2025)

### “Georgia State University - GSGC Visiting Observer Program”

2023, 2024, 2025

Cumulative Amount Allocated: \$13,000

Funding Source: NASA, GSGC

PI: Sebastien Lepine, Co-PI: Justin Robinson (2024)

PI: Justin Robinson (2025)

**Total: \$88,000**

## OBSERVING EXPERIENCE

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100m GBT: Green Bank Observatory, Green Bank WV

305m Arecibo Telescope: Arecibo Observatory, Arecibo PR

3.5m A.R.C. Telescope: Apache Point Observatory, Sunspot NM

0.5m A.R.C.S.A.T. Telescope: Apache Point Observatory, Sunspot NM

20m Green Bank Telescope: Green Bank Observatory, Green Bank WV

0.60m Miller Telescope: Hard Labor Creek Observatory, Rutledge GA

0.4m Meade Schmidt-Cassegrain Telescope: Geissberger Observatory, Moraga CA

## CONFERENCE TALKS AND POSTERS

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### 247th AAS Meeting, Poster Number 443.08

2026

“On the Tully-Fisher Relation for Active Galaxies – I: Evidence of Larger Scatter”

**Justin Robinson**, Mitchell Revalski, Misty C. Bentz, D. Michael Crenshaw, Helene M. Courtois, Veronica Lahue, Julia Falcone, Rachael L. Merritt, Ishita Chintala, Thomas Kay, Mira Menon, Naveen Ali, Bradley Clemons, Atul Gautam, Thomas Gregoire

### 245th AAS Meeting, Poster Number 252.05

2025

“Dynamical Modeling of the Broad Line Region of NGC 4151”

Mahitha Ramachandran, **Justin Robinson**

### 242nd AAS Meeting, Poster Number 341.23

2023

“On the Tully-Fisher Relation for AGN Host Galaxies”

**J. Robinson**, M. Revalski, T. Kay, V. Lahue, M. Menon

<b>240th AAS Meeting, Talk Number 335.04D</b>	2022
“Distances & Black Hole Masses of Nearby Seyferts”	
<b>J. Robinson</b> , M. Bentz	
<b>237th AAS Meeting, Talk Number 209.01</b>	2021
“Dynamical Masses for the Host Galaxies of Reverberation-Mapped AGN”	
<b>J. Robinson</b> , M. Bentz	
<b>236th AAS Meeting, Talk Number 225.03</b>	2020
“Fundamental Properties of Active Galaxies: Distances and Masses of Nearby Seyferts,”	
<b>J. Robinson</b> , M. Bentz	
Recording available, <a href="#">click here</a>	
<b>7th Perimeter Astronomy Conference</b>	2019
“Connecting AGN Host Galaxies to the Cosmic Distance Ladder”	
<b>Georgia Regional Astronomers Meeting</b>	2018
“HI Spectroscopy of Reverberation-Mapped Active Galactic Nuclei”	
Recording available, <a href="#">click here</a>	
<b>6th Perimeter Astronomy Conference</b>	2018
“HI Spectroscopy of Reverberation-Mapped Active Galactic Nuclei”	
Recording available, <a href="#">click here</a>	
<b>5th Perimeter Astronomy Conference</b>	2017
“The Radio View of Galaxies in the Nearby Universe”	

## INVITED TALKS AND COLLOQUIA

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<b>Charlie Elliott Astronomy Club</b>	2025
“Refining and Extending the Cosmic Distance Laddder”	
<b>GSU Physics and Astronomy Colloquium</b>	2025
“On the Tully-Fisher Relation for Active Galaxies”	
<b>‘Cosmic Conversations’ at the Fernbank Science Center Planetarium</b>	2025
“Refining and Extending the Cosmic Distance Ladder”	
<b>Vanderbilt University <math>\Phi\Delta\Theta</math> Tennessee Alpha Chapter 60th Anniversary Keynote</b>	2025
“The Hubble Tension: Measuring the Universe’s Elusive Expansion Rate”	
Recording available, <a href="#">click here</a>	
<b>Space Telescope Science Institute Galaxies and AGNs Journal Club Guest Presenter</b>	2024
“On the Tully-Fisher Relation for AGN Host Galaxies”	
<b>Bradley Observatory at Agnes Scott College Open House</b>	2023
“Building the Real Images of Supermassive Black Holes”	
<b>Charlie Elliott Astronomy Club</b>	2022
“Probing Nearby Active Galaxies: Distances, Masses, Dark Matter, and Black Holes”	
<b>University of Alabama at Birmingham Physics Colloquium</b>	2022
“Probing Nearby Active Galaxies: Distances, Masses, Dark Matter, and Black Holes”	
<b>Charlie Elliott Astronomy Club Invited Talk</b>	2022
“Probing Nearby Active Galaxies: Distances, Masses, Dark Matter, and Black Holes”	
<b>Von Braun Astronomical Society</b>	2022
“Probing Nearby Active Galaxies: Distances, Masses, Dark Matter, and Black Holes”	

<b>Space Telescope Science Institute Galaxies and AGNs Journal Club Guest Presenter</b>	2021
“Distances and Masses for 24 Host Galaxies of Reverberation-Mapped AGN”	
<b>United States Naval Observatory Journal Club Guest Presenter</b>	2021
“Tully-Fisher Distances and Dynamical Mass Constraints for 24 Host Galaxies of Reverberation-Mapped AGN”	
<b>Bradley Observatory at Agnes Scott College Open House</b>	2021
“Probing Nearby Active Galaxies: Distance, Masses, Dark Matter, and Black Holes”	
Recording available, <a href="#">click here</a>	

## WORKSHOPS

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<b>Teach Fest</b>	2025
Featured roundtable panelist for GSU’s Department of Physics and Astronomy hosted by the Center for Excellence in Teaching, Learning, and Online Education (CETLOE)	
<b>Learning Science Through the Lens of Astronomy</b>	2021
Hosted professional development workshop for Georgia STEM teachers; interactive K-12 STEM presentations of astronomy-themed topics	
Recording available, <a href="#">click here</a>	
<b>Single Dish Training Workshop</b>	2018
Observational training and data analysis tools for the 100 meter GBT	
<b>Undergraduate ALFALFA Workshop</b>	2016
Study of galaxy detections from radio spectrum, acquisition of detection characteristics and behavior from radio emission at the Green Bank Observatory	

## ASTRONOMY SERVICE

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<b>Subject-matter expert reviewer in a NASA peer review</b>	2023, 2025
<b>Referee for <i>The Astrophysical Journal (ApJ)</i></b>	2022-Present
Scientific referee on 2 research manuscripts	

## UNIVERSITY SERVICE

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<b>GSGC Affiliate Director, GSU</b>	2024-Present
Serve as director of communication, resources, programs, collaborations, proposals, and grant management between GSU and the GSGC	
<b>Physics &amp; Astronomy Undergraduate Advisor, TU</b>	2021-2023
<b>Faculty Senate, TU</b>	2022-2023

## COMMITTEES

Chair, Research Committee	2023
Executive Committee	2023
Athletic Advisory Committee	2022-2023
Academic Affairs Committee	2022-2023

<b>IMPACT Faculty Representative, TU</b>	2022
Representative of Chemistry & Physics Department for new student orientation session	

<b>Commencement Faculty Representative, TU</b>	2022

<b>Trojan Day Faculty Representative, TU</b>	2021, 2022
Representative of Chemistry & Physics Department for prospective students	

## COLLEGE SERVICE

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### **Astronomy & Astrophysics Colloquium Director, TU**

2022-2023

Curate and manage invited speakers for the astronomy & astrophysics colloquium series for the College of Arts and Sciences at TU

### HOSTED SPEAKERS

#### **Dr. Mitchell Revalski**

“How Galaxies are Shaped by Supermassive Black Hole Winds”

2022

#### **Dr. Michelle Wooten**

“Light Pollution at Home in the South: How it Affects Us and What We Can Do”

2022

#### **Dr. Eliot Vrijmoet**

“One Big Picture of M Dwarf Binary Star Orbits”

2023

## DEPARTMENT SERVICE

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### **On-Campus Observation Co-Director, GSU**

2025-Present

Organize and facilitate on-campus observing sessions for students of the Department of Physics and Astronomy

### **ASTR 1000K Committee, GSU**

2024-Present

Construction of and adherence to consistent pedagogy between instructors and advocacy for cost-effective textbook options for ASTR 1000K

### **HyperPhysics Committee, GSU**

2023-Present

Management and updating of [HyperPhysics](#)

### **Department Academic Program Review Outreach Contributions, GSU**

2025

Contributed majority of material, text, and figures for the “Contributions to Cities and the Community” and “Globalizing the University” sections of the 2025 Self-Study Report for Academic Program Review for the Department of Physics and Astronomy at GSU

### **On-Campus Observation Director, GSU**

2025

### **Undergraduate Research Committee, GSU**

2023-2025

Selection of accepted REU applicants, management of REU program

### **Departmental Evaluations Committee, GSU**

2023-2025

Curate and update student learning outcomes and end-of-semester evaluations for ASTR1010K and ASTR1020K courses

### **Physics Faculty Search Committee, TU**

2023

Oversee recruitment, interviewing, and hiring of physics faculty member

### **New Astronomy Course Development, TU**

2022-2023

“Extragalactic Astronomy”

2022-2023

“Stellar Evolution”

2023

“Astronomy Capstone”

2022-2023

### **Student Recruitment to Physics Major, TU**

2022-2023

Students recruited: 7

### **Astronomy & Astrophysics Minor Development, TU**

2022-2023

Develop requirements and material included in new Astronomy & Astrophysics minor

### **GSU Publicity & Outreach Committee Member**

2020-2022

Reporting of outreach events and student groups in the GSU official newsletter.

<b>Online Instruction Material Development, GSU</b>	2020
Built online curriculum for 1010 and 1020 introductory astronomy labs	
<b>Workshop Development for Graduate Students Through AstroPAL, GSU</b>	2019-2021
Developed material for 1st and 2nd year graduate students (qualifying exam preparation, coding, scientific writing, etc.)	

## PUBLIC OUTREACH

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### PROGRAMS

<b>‘Cosmic Conversations’ at the Fernbank Science Center Planetarium</b>	2025-Present
Curate and manage featured GSU speakers for new public science talk series hosted in the Jim Cherry Memorial Planetarium.	

<b>AoT Atlanta Program Manager</b>	2024-Present
Curate and manage talks/serve as host for the Atlanta chapter of AoT	

[Click here for AoT Atlanta’s website and featured speaker list](#)

As of December 2025:

Total events: 33

Featured speakers: 23 graduate students, 15 faculty/research scientists

Featured institutions: GSU, GA Tech, Emory, Vanderbilt, Smith College

<b>GOT Space Faculty Lead</b>	2023-Present
GOT Space Program faculty lead in association with the GSGC	

[Click here for GOT Space’s website and Impact Map](#)

As of July 2025:

Number of Unique Schools Visited: 44

Congressional Districts: 7

Total number of impacted K-12 students: ~11,000

<b>AsTropaLooza: The Astronomy of ATL Showcase</b>	2025
4-day K-12 STEM outreach event, competitive grant funding awarded by GSGC/NASA	

[Click here for AsTropaLooza’s website and Impact Map](#)

Number of Unique Participating Schools: 15

Congressional Districts: 3

Total number of RSVPs/number of K-12 RSVPs: 301/127

<b>Three Taverns Astrophysics Lecture Series Director</b>	2023-2024
Curate, manage, and host GSU graduate student and faculty talks for monthly series at Three Taverns Brewery and Three Taverns Imaginarium	

<b>TAS President</b>	2022-2023
Curation, manage, and host invited speakers; director of observing sessions	

<b>GOT Space Graduate Lead</b>	2018-2021
GOT Space Program lead ambassador in association with the GSGC	

Number of events managed as Graduate Lead: 18

### GSGC-SPONSORED EVENTS/MATERIAL

<b>NASA National Space Grant 30th Anniversary Event on Capitol Hill</b>	2020
1 of 3 representatives of Georgia outreach and GSGC; ran virtual and augmented reality demonstrations; met with 2 Georgia representatives to discuss impact and future funding	

<b>Scientific Consultant for “Race Through Space: Galaxy Edition” App</b>	2020
Selected galaxies, provided physical information, and calculated distance scales for Science	

ATL and Atlanta Science Festival's app  
[Click here for the app homepage](#)

**Virtual GOT Space Public Talk** 2020  
Hosted virtual talk and Q&A: "Building M87's Supermassive Black Hole Image"  
Recording available, [click here](#)

**Atlanta Race Through Space 5K** 2019  
Ran GSGC sponsor tent

## CONFERENCES/WORKSHOPS

**STEMapalooza Conference** 2021  
Presented GOT Space presentations and demonstrations to Georgia STEM teachers; ran virtual and augmented reality demonstrations

**10th Georgia NASA STEM Conference** 2020  
Presented professional development workshop to Georgia STEM teachers

**STEM Undergraduate Ambassador Training Co-Facilitator** 2019  
1 of 2 graduate lead facilitators for training of 18 undergraduate GOT Space ambassadors

**Hard Labor Creek Observatory Volunteer** 2023-Present  
Operate telescopes & answer public questions during open houses

**SMC Physics Outreach Program Member** 2015-2017  
Research presentations at Saint Mary's High School, Stockton CA and Athenian High School, Danville CA

**SMC Physics & Engineering Program Recruitment** 2015-2017  
Represented the physics department on preview days for prospective students

*Updated January 2026*