

JUSTIN H. ROBINSON – CURRICULUM VITAE

CONTACT INFORMATION

Department of Physics & Astronomy
Georgia State University
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[Click Here for My Website](#)

CURRENT POSITION

Lecturer Georgia State University (GSU)	2024-Present
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EDUCATION

GSU Ph.D., Astronomy Advisor: Dr. Misty Bentz	2022
GSU M.S., Physics Advisor: Dr. Misty Bentz	2020
Saint Mary's College of California (SMC) B.S. in Physics with Astrophysics Concentration Advisors: Dr. Ronald Olowin, Dr. Brian Hill	2017

PREVIOUS EMPLOYMENT

Visiting Lecturer GSU	2023-2024
Tenure Track Assistant Professor Troy University (TU)	2021-2023
Graduate Research Assistant GSU	2017-2022
Astronomy Graduate Lab Coordinator GSU	2019-2021
Mathematics Tutorial Teacher Taught pre-calculus and calculus tutorial classes at SMC	2016-2017
Laboratory Assistant Assisted in the astronomy lab course at SMC	2015-2017

PROFESSIONAL AFFILIATIONS

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

Proficient in IDL, Python, L^AT_EX, IRAF, DS9, MacOS, Windows, Linux, Microsoft Office Suite
iCollege instructor and proficiency certification
Canvas instructor and proficiency certification
Knowledgeable in MaximDL
CAMEL: 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

On-Campus Observation Co-Director, GSU	2025-Present
GSU Affiliate Director, GSGC	2024-Present
AoT Atlanta Program Manager	2024-Present
Click here for AoT Atlanta's website	
Georgia Outreach Team for Space (GOT Space) Faculty Lead, GSGC	2023-Present
Click here for GOT Space's website	
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

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

Visiting Lecturer

2023-2024

Instructor of record for undergraduate physics and astronomy lecture courses at GSU

Tenure Track Assistant Professor

2021-2023

Instructor of record for undergraduate physics and astronomy lecture and lab courses at TU

Astronomy Lab Instructor

2017-2020

Taught 1010 and 1020 labs for introductory astronomy courses at GSU

Mathematics Tutorial Teacher

2016-2017

Taught pre-calculus & calculus tutorial classes at SMC

Mathematics Tutor

2016-2017

Student tutor at SMC

Teaching Assistant, Astronomy

2015-2017

UNDERGRADUATE STUDENTS ADVISED (ACADEMIC)

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)

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

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

RESEARCH INTERESTS

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

- “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

- “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

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

GBT Project ID: GBT18B-258

Hours allocated: 208.25

GRANTS

“AsTropaLooza: The Astronomy of ATL Showcase”

2025

Amount Allocated: \$30,000

Funding Source: NASA, GSGC

PI: Justin Robinson

“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

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

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

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

INVITED TALKS AND COLLOQUIA

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

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

WORKSHOPS

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

ASTRONOMY SERVICE

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

UNIVERSITY SERVICE

GSGC Affiliate Director, GSU Serve as director of communication, resources, programs, collaborations, proposals, and grant management between GSU and the GSGC	2024-Present
Physics & Astronomy Undergraduate Advisor, TU	2021-2023
Faculty Senate, TU	2022-2023
COMMITTEES	
Chair, Research Committee	2023
Executive Committee	2023
Athletic Advisory Committee	2022-2023
Academic Affairs Committee	2022-2023
IMPACT Faculty Representative, TU Representative of Chemistry & Physics Department for new student orientation session	2022
Commencement Faculty Representative, TU	2022
Trojan Day Faculty Representative, TU Representative of Chemistry & Physics Department for prospective students	2021, 2022

COLLEGE SERVICE

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

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.

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

PUBLIC OUTREACH

PROGRAMS

‘Cosmic Conversations’ at the Fernbank Science Center Planetarium Curate and manage featured GSU speakers for new public science talk series hosted in the Jim Cherry Memorial Planetarium.	2025-Present
AoT Atlanta Program Manager 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	2024-Present
GOT Space Faculty Lead 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	2023-Present
AsTropaLooza: The Astronomy of ATL Showcase 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	2025
Three Taverns Astrophysics Lecture Series Director Curate, manage, and host GSU graduate student and faculty talks for monthly series at Three Taverns Brewery and Three Taverns Imaginarium	2023-2024
TAS President Curation, manage, and host invited speakers; director of observing sessions	2022-2023
GOT Space Graduate Lead GOT Space Program lead ambassador in association with the GSGC Number of events managed as Graduate Lead: 18	2018-2021

GSGC-SPONSORED EVENTS/MATERIAL

NASA National Space Grant 30th Anniversary Event on Capitol Hill 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	2020
Scientific Consultant for “Race Through Space: Galaxy Edition” App Selected galaxies, provided physical information, and calculated distance scales for Science	2020

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