JUSTIN H. ROBINSON – CURRICULUM VITAE

CONTACT INFORMATION

Department of Physics & Astronomy Georgia State University Atlanta, GA 30302	Email: jrobinson138@gsu.edu Office: 1 Park Place, Office 431 Website: astro.gsu.edu/~jrob	
CURRENT POSITION		
Lecturer Georgia State University (GSU)		2024-Present
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 Concentrati 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 class	ses at SMC	2016-2017
Laboratory Assistant Assisted in the astronomy lab course at SMC		2015-2017
PROFESSIONAL AFFILIATIONS		
Astronomy on Tap (AoT) Georgia Space Grant Consortium (GSGC) American Astronomical Society (AAS) Membratory Astronomical Society (TAS) Arecibo Legacy Fast ALFA (ALFALFA) Arecibo Pisces-Perseus Supercluster Survey (A		2024-Present 2018-Present 2017-Present 2021-2023 2014-2017 2014-2017

SKILLS

Proficient in IDL, Python, LATEX, IRAF, DS9, MacOS, Windows, Linux, Microsoft Office Suite

iCollege instructor and proficiency certification

Canvas instructor and proficiency certification

Knowledgeable in MaximDL

CARAMEL: 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

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	
Three Taverns Astrophysics Lecture Series Director	2023-2024
GSU Research Experience for Undergraduates (REU) Program Mentor	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

PHYS-1111K "Introductory Physics I"

Undergraduate, algebra-based physics lab science course, GSU

PHYS-2211K "Principles of Physics I"

Undergraduate, calculus-based physics lab science 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 upper-division 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

GSU Substitute Lecturer - Graduate Taught 3 lectures and contributed curricula to ASTR-8400K "Extragalactic Astronomy" and ASTR-8200K "Galactic Structure" graduate courses	2024
GSU Substitute Lecturer - Undergraduate Taught 7 undergraduate astronomy lectures	2019
Astronomy Lab Instructor Taught 1010 and 1020 labs for introductory astronomy courses at GSU	2017-2020
Mathematics Tutorial Teacher Taught pre-calculus & calculus tutorial classes at SMC	2016-2017
Mathematics Tutor Student tutor at SMC	2016-2017
SMC Substitute Lecturer Taught 2 astronomy lectures as a substitute instructor	2016-2017
Teaching Assistant, Astronomy	2015-2017
Mathematics Private Tutor	2013-2015
UNDERGRADUATE STUDENTS ADVISED (ACADEMIC)	
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)

Abraham Seck, BS in physics, astronomy concentration (TEAM-UP Scholarship), GSU	2025
Meenakshi Raj, BS in physics (Honors Thesis), 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 (PHYS4900K student), GSU	2023 - 2024
Thomas Gregoire, BS in physics (PHYS4900K student), GSU	2023
Veronica Lahue, BS in physics, astronomy & astrophysics minor, TU	2022 - 2024
Thomas Kay, BS in physics, astronomy & astrophysics minor, TU	2022-2024

AWARDS AND HONORS

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, D. Michael Crenshaw, Henrique R. Schmitt, Mitchell Revalski, Zo Chapman, Travis C. Fischer, Steven B. Kraemer, Justin H. Robinson, Julia Falcone, Garrett E. Polack 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**, Misty C. Bentz, Hélène M. Courtois, Megan C. Johnson, D. M. Crenshaw, Beena Meena, Garrett E. Polack, Michele L. Silverstein, Dading Chen 2021, ApJ, 912, 160

Click here for the abstract

"HI Spectroscopy of Reverberation-Mapped Active Galactic Nuclei", **Justin H. Robinson**, Misty C. Bentz, Megan C. Johnson, Hélène M. Courtois, Benjamin Ou-Yang 2019, ApJ, 880, 68

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

"Georgia State University - GSGC Fellowship" (x2)

Amount Allocated: \$10,000

"Georgia State University - GSGC Visiting Observer Program" (x2)

Amount Allocated: \$4,000

"The Georgia Outreach Team for Space"

Amount Allocated: \$10,000

Total: \$38,000

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	
245th AAS Meeting, Poster Number 252.05 "Dynamical Modeling of the Broad Line Region of NGC 4151" Mahitha Ramachandran, Justin Robinson	2025
 242nd AAS Meeting, Poster Number 341.23 "On the Tully-Fisher Relation for AGN Host Galaxies" J. Robinson, M. Revalski, T. Kay, V. Lahue, M. Menon 	2023
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	
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

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	
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 meter GBT	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 Referee for $The\ Astrophysical\ Journal\ (ApJ)$	2023, 2025 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 Faculty Senate, TU	2021-2023 2022-2023
COMMITTEES	
Chair, Research Committee Executive Committee Athletic Advisory Committee Academic Affairs Committee	2023 2023 2022-2023 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	
TEAM-UP Together Scholarship Program Research Mentor, GSU Mentor of research project for 1 undergraduate physics major recipient of the TEAM-UP scholarship	2025
PHYS 4970K Research Mentor, GSU Mentor of honors thesis research project for 1 undergraduate physics major	2025
ASTR 1000K Committee, GSU Production and adherence to consistent pedagogy between instructors and advocation for cost-effective textbook options for ASTR 1000K	2024-Present
HyperPhysics Committee, GSU Management and updating of HyperPhysics	2023-Present
Undergraduate Research Committee, GSU Selection of accepted REU applicants, management of REU program	2023-Present
Departmental Evaluations Committee, GSU Curate and update student learning outcomes and end-of-semester evaluations for ASTR1010K and ASTR1020K courses	2023-Present
PHYS 4900K Research Project Mentor, GSU Mentor of research projects for 2 undergraduate physics majors	2023
Physics Faculty Search Committee, TU Oversee recruitment, interviewing, and hiring of physics faculty member	2023
New Astronomy Course Development, TU "Extragalactic Astronomy" "Stellar Evolution" "Astronomy Capstone"	2022-2023 2022-2023 2023 2022-2023
Student Recruitment to Physics Major, TU Students recruited: 7	2022-2023
Astronomy & Astrophysics Minor Development, TU Develop requirements and material included in new Astronomy & Astrophysics minor	2022-2023
Online Instruction Material Development, GSU Built online curriculum for 1010 and 1020 introductory astronomy labs	2020

Workshop Development for Graduate Students Through AstroPAL, GSU

2019-2021

Developed material for 1st and 2nd year graduate students (qualifying exam preparation, coding, scientific writing, etc.)

PUBLIC OUTREACH

AoT Atlanta Program Manager

2024-Present

Curate and manage talks for the Atlanta chapter of AoT Click here for AoT Atlanta's website

FEATURED SPEAKERS

Faculty/Research Scientists	Graduate Students
Dr. Justin Robinson (GSU)	Mary Geer Dethero (GSU)
Dr. Viacheslav Sadykov (GSU)	Dr. Katherine Shephard (GSU)
Dr. Sebastien Lepine (GSU)	Zach Way (GSU)
Dr. Russel White (GSU)	Julia Falcone (GSU)
Dr. Jeremy Jones (GSU)	Emma Galligan (GSU)
Dr. Merida Batiste (Emory)	Maura Shea (GSU)
	Andrew Couperus (GSU)
	Colin Kane (GSU)
	Jacob Tutterow (GSU)
	KhaDeem Coumarbatch (GSU)

Three Taverns Astrophysics Lecture Series Director

2023-2024

Curate and manage GSU graduate student and faculty talks for monthly series at Three Taverns Brewery and Three Taverns Imaginarium

GOT Space Faculty Lead

2023-Present

2024

2022

GOT Space Program faculty lead in association with the GSGC Click here for GOT Space's website

EVENTS

GOT Space Presentations

Booker T. Washington High School

Von Braun Astronomical Society Invited Talk

Drew Charter School	2023
A. L. Burress Elementary	2023
Usher-Collier Elementary	2023
Hard Labor Creek Observatory Volunteer	2023-Present
Charlie Elliott Astronomy Club Invited Talk	2022

TAS President Curation and preparation of club presentations and invited speakers; director of observing sessions	2022-2023
STEMapalooza Conference Presented GOT Space presentations and demonstrations to Georgia STEM teachers; ran virtual and augmented reality demonstrations	2021
10th Georgia NASA STEM Conference Presented professional development workshop to Georgia STEM teachers	2020
Scientific Consultant for "Race Through Space: Galaxy Edition" App Selected galaxies, provided physical information, and calculated distance scales for Science ATL and Atlanta Science Festival's app Click here for the app homepage	2020
GSU Publicity & Outreach Committee Member Reporting of outreach events and student groups in the GSU official newsletter.	2020-2022
GOT Space Graduate Lead GOT Space Program lead ambassador in association with the GSGC	2018-2021
EVENTS	
GOT Space Virtual Presentations	
Frederick Douglass High School	2021
Trip Elementary School	2021
Northside Elementary School	2021
Wolf Creek Elementary School	2020
Stone Mountain Middle School	2020
Flat Shoals Elementary School	2020
Jean Childs Young Middle School	2020
Maynard Holbrook Jackson High School	2020
GOT Space Presentations	
Maynard Holbrook Jackson High School	2020
Maynard Holbrook Jackson High School	2019
Lanier High School	2019
Maynard Holbrook Jackson High School	2019
Alpharetta High School	2018
Cristo Rey Jesuit High School	2018
Virtual GOT Space Public Talk Hosted virtual talk and Q&A: "Building M87's Supermassive Black Hole Image" Recording available, click here	2020
Atlanta Science Festival "Imagining the Future" Event Presented for 4 classes at Jean Childs Young Middle School	2020

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
Trip Elementary School STEM Night Organized science demonstrations and telescope observations, answered questions for several hundred students	2020
Carver Early College Science & Engineering Fair Organized 3 GOT Space ambassadors and I's participation as science fair judges	2019
STEM Undergraduate Ambassador Training Co-Facilitator 1 of 2 graduate lead facilitators for training of 18 undergraduate GOT Space ambassadors	2019
Atlanta Race Through Space 5K Ran GSGC sponsor tent	2019
Trip Elementary School STEM Night Ran science demonstrations and answered questions for several hundred students	2019
Hard Labor Creek Observatory Volunteer Operate telescopes & answer public questions during open houses	2018-2022
SMC Physics Outreach Program Member Research presentations at Saint Mary's High School, Stockton CA and Athenian High School, Danville CA	2015-2017
SMC Physics & Engineering Program Recruitment Represented the physics department on preview days for prospective students	2015-2017

REFERENCES

Professor Govind Menon, Ph.D.

Chair, Department of Chemistry and Physics, TU gmenon@troy.edu

Professor Misty Bentz, Ph.D.

Department of Physics and Astronomy, GSU bentz@gsu.edu

Lori Skillings

Program Manager, GSGC lskillings@gatech.edu

Professor D. Michael Crenshaw, Ph.D.

Department of Physics and Astronomy, GSU dcrenshaw@gsu.edu

Professor Hélène M. Courtois, Ph.D.

Department of Physics, University of Lyon h.courtois@ipnl.in2p3.fr

Megan Johnson, Ph.D.

Chief, Radio Reference Frame Division, United States Naval Observatory megan.c.johnson15.civ@mail.mil

 $Updated \ 1/22/2025$