

JUSTIN H. ROBINSON – CURRICULUM VITAE

CONTACT INFORMATION

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

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CURRENT POSITION

Lecturer 2024-Present
Georgia State University (GSU)

EDUCATION

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

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

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 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	
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

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

PHYS-4870K “Honors Thesis I (in progress)”
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

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

2023-2024

Tenure Track Assistant Professor

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

2021-2023

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)

Richelle Nunez, BA in music education, GSU 2025
Abraham Seck, BS in physics, astronomy concentration (TEAM-UP Scholarship), GSU 2025
Meenakshi Raj, BS in physics (PHYS 4870K student), 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
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](#)

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
Amount Allocated: \$10,000	
Funding Source: NASA, GSGC	
PI: Sebastien Lepine, Co-PI: Justin Robinson	
“Georgia State University - GSGC Fellowship” (x2)	2023, 2024
Amount Allocated: \$10,000	
Funding Source: NASA, GSGC	
PI: Sebastien Lepine, Co-PI: Justin Robinson	
“Georgia State University - GSGC Visiting Observer Program” (x2)	2023, 2024
Amount Allocated: \$4,000	
Funding Source: NASA, GSGC	
PI: Sebastien Lepine, Co-PI: Justin Robinson	
<u>Total: \$68,000</u>	

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	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	2022
“Distances & Black Hole Masses of Nearby Seyferts” J. Robinson , M. Bentz	
237th AAS Meeting, Talk Number 209.01	2021
“Dynamical Masses for the Host Galaxies of Reverberation-Mapped AGN” J. Robinson , M. Bentz	
236th AAS Meeting, Talk Number 225.03	2020
“Fundamental Properties of Active Galaxies: Distances and Masses of Nearby Seyferts,” J. Robinson , M. Bentz Recording available, click here	
7th Perimeter Astronomy Conference	2019
“Connecting AGN Host Galaxies to the Cosmic Distance Ladder”	

Georgia Regional Astronomers Meeting	2018
“HI Spectroscopy of Reverberation-Mapped Active Galactic Nuclei”	
Recording available, click here	
6th Perimeter Astronomy Conference	2018
“HI Spectroscopy of Reverberation-Mapped Active Galactic Nuclei”	
Recording available, click here	
5th Perimeter Astronomy Conference	2017
“The Radio View of Galaxies in the Nearby Universe”	

INVITED TALKS AND COLLOQUIA

Space Telescope Science Institute Galaxies and AGNs Journal Club Guest Presenter	2024
“On the Tully-Fisher Relation for AGN Host Galaxies”	
Bradley Observatory at Agnes Scott College Open House	2023
“Building the Real Images of Supermassive Black Holes”	
Charlie Elliott Astronomy Club	2022
“Probing Nearby Active Galaxies: Distances, Masses, Dark Matter, and Black Holes”	
University of Alabama at Birmingham Physics Colloquium	2022
“Probing Nearby Active Galaxies: Distances, Masses, Dark Matter, and Black Holes”	
Von Braun Astronomical Society	2022
“Probing Nearby Active Galaxies: Distances, Masses, Dark Matter, and Black Holes”	
Space Telescope Science Institute Galaxies and AGNs Journal Club Guest Presenter	2021
“Distances and Masses for 24 Host Galaxies of Reverberation-Mapped AGN”	
United States Naval Observatory Journal Club Guest Presenter	2021
“Tully-Fisher Distances and Dynamical Mass Constraints for 24 Host Galaxies of Reverberation-Mapped AGN”	
Bradley Observatory at Agnes Scott College Open House	2021
“Probing Nearby Active Galaxies: Distance, Masses, Dark Matter, and Black Holes”	
Recording available, click here	

WORKSHOPS

Learning Science Through the Lens of Astronomy	2021
Hosted professional development workshop for Georgia STEM teachers; interactive K-12 STEM presentations of astronomy-themed topics	
Recording available, click here	
Single Dish Training Workshop	2018
Observational training and data analysis tools for the 100 meterGBT	
Undergraduate ALFALFA Workshop	2016
Study of galaxy detections from radio spectrum, acquisition of detection characteristics and behavior from radio emission at the Green Bank Observatory	

ASTRONOMY SERVICE

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

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 Curate and manage invited speakers for the astronomy & astrophysics colloquium series for the College of Arts and Sciences at TU	2022-2023
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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 Director, GSU Organize and facilitate on-campus observing sessions for students of the Department of Physics and Astronomy	2025-Present
ASTR 1000K Committee, GSU Construction of and adherence to consistent pedagogy between instructors and advocacy 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

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	
Online Instruction Material Development, GSU	2020
Built online curriculum for 1010 and 1020 introductory astronomy labs	
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

Dr. Justin Robinson (GSU)
 Dr. Viacheslav Sadykov (GSU)
 Dr. Sebastien Lepine (GSU)
 Dr. Russel White (GSU)
 Dr. Jeremy Jones (GSU)
 Dr. Merida Batiste (Emory)
 Dr. Michael Peterson (GA Tech)
 Dr. Douglas Hope (GA Tech)
 Dr. Sebastien Henry (GA Tech)
 Dr. Todd Henry (GSU)

Graduate Students

Mary Geer Dethero (GSU)
 Dr. Katherine Shephard (GSU)
 Zach Way (GSU)
 Julia Falcone (GSU)
 Emma Galligan (GSU)
 Maura Shea (GSU)
 Andrew Couperus (GSU)
 Colin Kane (GSU)
 Jacob Tutterow (GSU)
 KhaDeem Coumarbatch (GSU)
 Shobhit Ranjan (GA Tech)
 Karin Roley (GA Tech)
 Jordan Mckaig (GA Tech)

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
 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	2025
Booker T. Washington High School	2024
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

Von Braun Astronomical Society Invited Talk 2022

TAS President 2022-2023

Curation and preparation of club presentations and invited speakers; director of observing sessions

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

Scientific Consultant for “Race Through Space: Galaxy Edition” App 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](#)

GSU Publicity & Outreach Committee Member 2020-2022

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

GOT Space Graduate Lead 2018-2021

GOT Space Program lead ambassador in association with the GSGC

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	2020
Hosted virtual talk and Q&A: “Building M87’s Supermassive Black Hole Image” Recording available, click here	
Atlanta Science Festival “Imagining the Future” Event	2020
Presented for 4 classes at Jean Childs Young Middle School	
NASA National Space Grant 30th Anniversary Event on Capitol Hill	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	
Trip Elementary School STEM Night	2020
Organized science demonstrations and telescope observations, answered questions for several hundred students	
Carver Early College Science & Engineering Fair	2019
Organized 3 GOT Space ambassadors and I’s participation as science fair judges	
STEM Undergraduate Ambassador Training Co-Facilitator	2019
1 of 2 graduate lead facilitators for training of 18 undergraduate GOT Space ambassadors	
Atlanta Race Through Space 5K	2019
Ran GSGC sponsor tent	
Trip Elementary School STEM Night	2019
Ran science demonstrations and answered questions for several hundred students	
Hard Labor Creek Observatory Volunteer	2018-2022
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	

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 3/31/2025