

CONTACT INFORMATION

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Dept. of Physics and Astronomy

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CURRENT POSITION

Professor of Physics and Astronomy (2021–present)

PREVIOUS POSITIONS

Associate Professor of Physics and Astronomy, GSU (2016–2021)

Assistant Professor of Physics and Astronomy, GSU (2010–2016)

Hubble Fellow, Dept. of Physics and Astronomy, U. of CA, Irvine (2009–2010)

Postdoctoral Researcher, Dept. of Physics and Astronomy, U. of CA, Irvine (2007–2009)

RESEARCH INTERESTS

Active Galactic Nuclei (AGNs), Black Hole Masses, Black Hole Scaling Relationships, AGN Physical Structure and Kinematics, Host Galaxy Characteristics

EDUCATION

PhD, Astronomy (June 2007) - The Ohio State University

MS, Astronomy (March 2005) - The Ohio State University

BS, Physics with College Honors (June 2002) - University of Washington

BS, Astronomy with Math Minor (June 2002) - University of Washington

PROFESSIONAL MEMBERSHIPS

American Astronomical Society

International Astronomical Union

American Association for the Advancement of Science

HONORS AND AWARDS

UCSD Margaret Burbidge Visiting Professorship of Physics and Astronomy (2021)

Carl R. Nave Award for Outstanding Teaching, GSU Society of Physics Students (2020)

GSU Outstanding Faculty Achievement Award (2019)

GSU College of Arts & Sciences Outstanding Senior Faculty Award (2018)

GSU College of Arts & Sciences Outstanding Junior Faculty Award (2014)

GSU College of Arts & Sciences Dean's Early Career Award (2013)

Top 20 Women Professors in Georgia, StateStats.org (2013)

Hubble Fellowship (2009-2010)

Allan Markowitz Graduate Award for Excellence in Observational Astronomy (2006)

National Science Foundation Graduate Research Fellowship (2004-2007)

2nd Place, Mathematics and Physical Sciences, Hayes Graduate Research Forum (2004)

Ohio State U. Graduate Fellowship (2002-2003)

Baer Prize for Undergraduate Excellence in Astronomy (2000-2001)

National Society of Collegiate Scholars Merit Scholarship (2001)

Ronald E. McNair Scholar (2000-2002)

NASA Space Grant Scholar (1998-2002)

GRANTS

- \$3,000: GSU Student Technology Fee (active)
Equipment repairs at GSU's Hard Labor Creek Observatory
- \$153,000: Hubble Space Telescope, General Observer Program 17165 (active)
Accurate Distances to Canonical Seyferts
- \$85,000: James Webb Space Telescope, Early Release Science Program (active)
Nuclear Dynamics of a Nearby Seyfert with NIRSpec Integral Field Spectroscopy
- \$451,000: National Science Foundation Astronomy and Astrophysics Grants (active)
Direct Comparisons of Black Hole Mass Measurements
- \$42,000: GSU Student Technology Fee (ended)
Imaging Camera for GSU's HLC Observatory
- \$70,000: James Webb Space Telescope, ERS Program Preparatory Grant (ended)
Nuclear Dynamics of a Nearby Seyfert with NIRSpec Integral Field Spectroscopy
- \$23,000: Hubble Space Telescope, General Observer Program 15263 (ended)
The Host Galaxy of the Low Mass Black Hole in UGC 06728
- \$66,000: Hubble Space Telescope, General Observer Program 13816 (ended)
High-Resolution Imaging of Active Galaxies with Direct Black Hole Mass Measurements
- \$862,000: National Science Foundation CAREER Program (ended)
CAREER: Campaigning for Better Black Hole Mass Relations
- \$81,000: Hubble Space Telescope, General Observer Program 12961 (ended)
A Cepheid Distance to NGC6814
- \$13,000: Hubble Space Telescope, General Observer Program 13330 (ended)
Mapping the AGN Broad Line Region by Reverberation
- \$10,000: GSU Student Technology Fee (ended)
Improving the View: Telescope Upgrades at HLCO
- \$20,000: GSU Student Technology Fee (ended)
Dark Sky Observing from Downtown Atlanta
- \$26,000: National Radio Astronomy Observatories, Student Support Grant (ended)
HI Spectroscopy of Reverberation-Mapped AGN Host Galaxies
- \$54,000: Hubble Space Telescope, General Observer Program 11662 (ended)
Improving the Radius-Luminosity Relationship for Broad-lined AGNs with a New Reverberation Sample
- \$46,000: Hubble Space Telescope, General Observer Program 11661 (ended)
The Black Hole Mass – Bulge Luminosity Relationship for the Nearest Reverberation-Mapped AGNs
- \$10,000: Georgia State University Research Initiation Grant (ended)
Testing the State of the Art Techniques in Black Hole Mass Measurements
- \$97,000: Hubble Fellowship 51251.01 (ended)
A Detailed Study of AGN Broad Line Regions with Reverberation Mapping
- \$33,000: Hubble Space Telescope, General Observer Program 10181 (ended)
ACS/NICMOS Imaging of Bright Lyman Break Galaxy Candidates from SDSS
- Total to date: \$2,145,000**

RECENT AWARDS OF COMPETITIVE OBSERVING TIME

- 50+40 hrs: Las Cumbres Observatory Semester 2023B-2024A
LCO Reverberation Mapping of XRISM Guaranteed Targets
- 27+15 hrs: Las Cumbres Observatory Semester 2023A
The Mass of the Black Hole in NGC3227
- 63 orbits: Hubble Space Telescope Cycle 30 (2022–2023)
Accurate Distances to Canonical Seyferts
- 13.6 hrs: James Webb Space Telescope Cycle 0 (2022)
Nuclear Dynamics of a Nearby Seyfert with NIRSpec Integral Field Spectroscopy
- 26+15 hrs: Las Cumbres Observatory Semester 2022B
The Black Hole Mass of NGC6814
- 29+21 hrs: Las Cumbres Observatory Semester 2022A
High Fidelity Reverberation Mapping of the Bright Seyfert IC4329A
- 25+16 hrs: Las Cumbres Observatory Semester 2020A
Reverberation Mapping of the Nearby Seyfert NGC3783
- 2 nights: WIYN Telescope Semester 2019A (PI: R. Merritt)
The Host Galaxies of Reverberation-Mapped AGNs in the Near-Infrared
- 18 hrs: Very Large Telescope Period 102A (Fall 2018 – Spring 2019)
The Mass of the Central Black Hole in MCG-06-30-15
- 2 nights: WIYN Telescope Semester 2018B (PI: R. Merritt)
The Host Galaxies of Reverberation-Mapped AGNs in the Near-Infrared
- 165.25 hrs: Green Bank Telescope Semester 2018B (PI: J. Robinson)
HI Spectroscopy of Active Galaxies with Direct Black Hole Mass Measurements
- 2 orbits: Hubble Space Telescope Cycle 25 (2017–2018)
The Host Galaxy of the Low Mass Black Hole in UGC 06728
- 22.0 hrs: Gemini Observatory Semester 2018A (PI: M. Batiste)
Improving Bulge Stellar Velocity Dispersion Estimates for Calibration of the $M_{BH} - \sigma_$ Relation for AGN*
- 13.5 hrs: Gemini Observatory Semester 2015A (Band 1)
A Stellar Dynamical Black Hole Mass for the Nearby Seyfert Galaxy NGC5273
- 4 nights: WIYN Telescope Semester 2015A (PI: M. Batiste)
Deconstructing Dynamics: Improving AGN σ_ Measurements for Calibration of the $M_{BH} - \sigma_*$ Relation*
- 14 orbits: Hubble Space Telescope Cycle 22 (2014–2015)
High-Resolution Imaging of Active Galaxies with Direct Black Hole Mass Measurements
- 21.5 hrs: Gemini Observatory Semester 2013B (Band 1)
A Stellar Dynamical Black Hole Mass for the Reverberation-Mapped Active Galaxy NGC6814
- 182.75 hrs: Green Bank Telescope Semester 2013A (PI: B. Ou-Yang)
HI Spectroscopy of Reverberation-Mapped AGN Host Galaxies
- 3 nights: WIYN Telescope Semester 2013A (PI: E. Manne-Nicholas)
The Black Hole Mass-Bulge Luminosity Relationship for Reverberation-Mapped AGNs in the Near-IR

SELECTED RECENT CONFERENCES AND COLLOQUIA

- Oct 2023: University of Michigan, Ann Arbor, MI
- Oct 2023: *Multi-wavelength AGN Structure and Cosmological Applications*, Nice, France
- May 2023: Northwestern University, Evanston, IL
- May 2023: **Invited talk**, *Arcus Community Science Meeting*, Zoom
- Apr 2023: Georgia State University, Atlanta, GA
- Mar 2023: University of Wyoming, Laramie, WY
- Sep 2022: **Invited review talk**, *Black Holes At All Scales*, Sedona, AZ
- Feb 2022: The Ohio State University, Columbus, OH
- Jan 2022: University of Nottingham, Nottingham, UK
- Oct 2021: University of California, San Diego, CA
- Jul 2021: International AGN Seminar Series, Zoom and YouTube
- Apr 2021: **Invited panelist**, *Golden Webinars in Astrophysics feat. Dr. Meg Urry*, Zoom and YouTube
- Mar 2020: **Invited talk**, *JWST Early Release Science Webinars*, WebEx and YouTube
- Nov 2019: **Invited review talk**, *The New Faces of Black Holes Workshop*, Annapolis, MD
- Jun 2019: SOFIA Science Center, NASA Ames, Moffett Field, CA
- Feb 2019: Florida Institute of Technology, Melbourne, FL
- Feb 2019: University of Georgia, Athens, GA
- Jan 2019: **Invited talk**, *NASA Hyperwall at the 233rd AAS Meeting*, Seattle, WA
- Nov 2018: United States Naval Observatory, Washington, DC
- Oct 2018: Texas A&M University, College Station, TX
- Sep 2018: Space Telescope Science Institute, Baltimore, MD
- Aug 2018: **Invited panelist**, *Adventures in Astrophysics Symposium*, Aptos, CA
- Jun 2018: Session Chair, *Massive Black Holes in Evolving Galaxies*, Paris, France
- Oct 2017: Georgia Tech, Atlanta, GA
- Apr 2017: Oglethorpe University, Atlanta, GA (YouTube recording)
- Feb 2017: **Invited talk**, *Winter Meeting of the AAPT*, Atlanta, GA
- Sep 2016: University of Alabama, Huntsville, AL
- May 2016: Contributed talk, *Great Lakes Quasar Symposium*, London, Ontario, Canada
- Apr 2016: Spelman College, Atlanta, GA
- Apr 2016: Mississippi State University, Starkville MS
- Jul 2015: Contributed talk, *AGN STORM Workshop*, Columbus, OH
- Nov 2014: **Invited review talk**, *Astronomy at High Angular Resolution workshop*, ESO Headquarters, Garching, Germany
- Oct 2014: Wayne State University, Detroit, MI
- Oct 2014: University of Michigan, Ann Arbor, MI
- Jul 2014: University of Sheffield, South Yorkshire, United Kingdom
- May 2014: **Invited talk**, *Apache Point Observatory 25th Anniversary*, Sunspot, NM
- Mar 2014: Boston University, Boston, MA
- Jan 2014: NRC Herzberg Institute of Astrophysics, Victoria, British Columbia
- Oct 2013: University of Kentucky, Lexington, KY
- Feb 2013: National Radio Astronomy Observatory, Green Bank, WV

COURSES DEVELOPED AND TAUGHT

ASTR1010 “Astronomy of the Solar System”, undergraduate lab science course, GSU
 PHYS1000/7000 “Gateway to Physics”, freshman undergraduate major course
 cross-listed with graduate course, Signature Experience Course, GSU
 ASTR4100/6100 “Astronomical Techniques and Instrumentation”, senior undergraduate
 major course cross-listed with graduate course, Signature Experience Course, GSU
 ASTR8900 “Astronomy Seminar”, graduate course, GSU
 Spring 2013: Non-Academic Jobs for PhD Astronomers
 ASTR1000 “Introduction to the Universe”, undergraduate science elective, GSU
 “Algebra Review”, Columbus School for Girls (July 2003, July 2004)
 “SAT Math Preparation”, Columbus School for Girls (July 2003, July 2004)

PARTICIPATION IN PEDAGOGY AND TRAINING WORKSHOPS

“Best Practices for Faculty Searches”, GSU College of Arts and Sciences, August 2023
 “Pronouns 101”, GSU Office of Diversity Education Planning, webinar, July 2021
 “Belonging: African American Women in Physics & Astronomy”, American Institute of
 Physics, webinar, June 2021
 “Supporting Black Students’ Academic Success”, American Physical Society, webinar,
 February 2021
 “Making Physics Inclusive and Equitable”, American Physical Society, webinar, June
 2020
 “Faculty Search Committee Best Practices”, Arts & Sciences Faculty Development, GSU,
 July 2019
 “Course-based Undergraduate Research Experiences”, Faculty Teaching and Learning
 Community, GSU, Spring 2018
 National Society of Black Physicists Annual Meeting, Atlanta, November 2017
 “Physics and Astronomy New Faculty Workshop”, American Association of Physics
 Teachers and American Physical Society, Baltimore, MD, November 2011

POSTDOCS ADVISED

Dr. Merida Batiste (PhD: U. Maine), 2014–2017

PHD STUDENTS ADVISED

Delaney Carlton, PhD student - deferred, GSU, expected degree date 2029
 Nabanita Das, PhD student, GSU, expected degree date 2027
 Dr. Katie Reyes Merrell, PhD, GSU, 2023
 Dr. Rachael Merritt, PhD, GSU, 2022
 Dr. Justin Robinson, PhD, GSU, 2022
 Dr. Caroline Roberts, PhD, GSU, 2019
 Dr. Emily Manne-Nicholas, PhD, GSU, 2017

MS STUDENTS ADVISED

Benjamin Ou-Yang, MS, GSU, 2017

GRADUATE STUDENTS ADVISED, NON-DEGREE PROJECTS

Daniel Horenstein, GSU, 2014
 Crystal Pope, GSU, 2013

Robert Loewenthal, GSU, 2012

Benjamin Williams, GSU, 2011

UNDERGRADUATE AND HIGH SCHOOL STUDENTS ADVISED

Madison Markham, BS student (physics), Colgate University, 2023

Nicholas Davis, BS student (physics), GSU, 2020

Eli Mayfield, BS student (physics), GSU, 2018

Jordana Walker, BS student (physics), GSU, 2018

Steven Agudelo, BS student (physics), GSU, 2018

Roberto Diaz, BS student (physics), GSU, 2018

Louis Gonzalez, BS student (physics), GSU, 2017, 2018

Francisco Martinez, BS student (physics), GSU, 2015–2016

James Seals, BS student (physics), GSU, 2015–2016

Bobby Jones, BS student (physics), GSU, 2015

Craig Bazhaw, BS student (physics), GSU, 2014

Kevin Lowery, BS student (physics), GSU, 2014

Gabriela Hernandez, BS student (math), GSU, 2013–2014

Sarah Katz, North Springs Charter High School, 2013–2014

Lawrence Coley, BS student (physics), GSU, 2013

Caroline Roberts, BS student (physics), Sewanee University, 2013

Ricardo Pedraza, BS student (physics), GSU, 2012

Jonathan Gardner, BS student (physics), GSU, 2011

Tyler Drake, BS student (physics), GSU, 2010–2011

DISSERTATION/THESIS COMMITTEES (MEMBER)

Ashley Frank, PhD, Astronomy, Rochester Institute of Technology, August 2023

Beena Meena, PhD, Astronomy, GSU, June 2022

Kunyang Lily Li, PhD, Physics, Georgia Institute of Technology, May 2022

Michael Hlabathe, PhD, Astronomy, University of Cape Town, December 2021

Wesley Peters, PhD, Astronomy, GSU, May 2019

Mitchell Revalski, PhD, Astronomy, GSU, May 2019

Jens Juel Jensen, PhD, Astronomy, University of Copenhagen, June 2018

Don Ruwan Sampath Gamage, PhD, Physics, GSU, July 2017

Karen Garcia, MS, Physics, GSU, March 2017

Cheuk-Ping Wong, MS, Physics, GSU, November 2016

Ganesh Chand, PhD, Physics, GSU, November 2015

Joe Eggen, PhD, Astronomy, GSU, July 2014

Jeremy Maune, PhD, Astronomy, GSU, July 2014

Daniel Lawther, MS, Astronomy, University of Copenhagen, May 2013

Laura Patel, PhD, Physics, GSU, April 2013

Abhisek Sen, PhD, Physics, GSU, November 2012

Travis Fischer, PhD, Astronomy, GSU, June 2012

Noel Richardson, PhD, Astronomy, GSU, April 2012

Robert Moore, MS, Physics, GSU, April 2012

ASTRONOMY SERVICE

Chair, Scientific Organizing Committee, Aspen 2024 Summer Workshop, Accretion Physics in the Era of JWST, 2023–present
 Space Telescope Users Committee (STUC), 2022–present
 AAS Publications Committee: member 2021–2022, Deputy Chair 2022–2023, Chair 2023–present
 Las Cumbres Observatory, proposal review panel member, 2021–present
 National Science Foundation, proposal review panel member, 2023
 Scientific Organizing Committee, Multiwavelength AGN Structure and Cosmological Applications, Nice, France, 2023
 Gemini Telescope, proposal reviewer, 2023
 German Research Foundation (Deutsche Forschungsgemeinschaft – DFG), proposal reviewer, 2023
 AAS Henri Chrétien International Research Grants Committee, 2019–2022
 Hubble Space Telescope Financial Review Committee, 2017–2022
 PRIMA Far-IR Probe Concept Science Working Group, 2022
 National Science Foundation, proposal review panel member, 2022
 AURA Roman-Rubin Synergy Working Group, 2021–2022
 NASA Cosmic Origins Program Analysis Group Executive Committee, 2017–2020
 NASA Earth and Space Science Fellowship (NESSF), proposal reviewer, 2018
 American Astronomical Society Congressional Visit Day, participant, March 2018
 Chair, Local Organizing Committee, AGN STORM 2017 Workshop, GSU, August 2017
 Hubble Space Telescope Cycle 25, proposal review panel member, 2017
 National Science Foundation, proposal review panel member, 2015
 Hubble Space Telescope Cycle 22, proposal review panel member, 2014
 National Science Foundation, proposal review panel member, 2013
 NASA Astrophysics Roadmap Committee Member, 2013
 Israel Science Foundation, proposal reviewer, April 2013
 Scientific Organizing Committee, DARK Cosmology Center Workshop, Niels Bohr Institute, University of Copenhagen, Denmark, 2012
 Kepler Space Telescope Cycle 4, proposal review panel member, 2012
 Estonian Science Foundation Mobilitas Top Researcher Program, proposal reviewer December 2011
 Hubble Space Telescope Cycle 18, proposal review panel member, 2010
 Chandra X-ray Observatory Cycle 11, proposal review panel member, 2009
 Referee for *Nature*, *Nature Astronomy*, *ApJ*, *AJ*, *PASP*, *MNRAS*, *A&A*, *Advances in Astronomy*

UNIVERSITY SERVICE

Panelist for the “Change Through Scholarship” discussion at the inaugural Graduate Conference on Research, Scholarship, and Creative Activity, 2022
 Faculty representative for University Institutional Change Committee, NSF-APLU Aspire, 2019
 Faculty representative for APLU Includes Self-Study Tool assessment team, 2017
 Panelist for NSF CAREER Award Seminar, presented by GSU URSA, Feb 2015

GSU Urban Astronomy Center and Planetarium project co-lead, 2012–2017
Astronomy Undergraduate Advisor, GSU, 2012–2016
Society of Physics Students Faculty Advisor, GSU, 2012–2016

COLLEGE SERVICE

GSU M.S. Graduation Speaker, Natural and Computational Sciences, 2019
Dean’s Task Force on College Structure, 2018–2019
Department representative for NSF AGEF proposal planning, 2017
Department representative for Clare Booth Luce Foundation proposal planning, 2016–2017
Department representative for NSF ADVANCE grant proposal planning, 2015–2017

DEPARTMENTAL SERVICE

Chair, Astronomy Faculty Hiring Committee (extragalactic), GSU, 2023–present
Chair, P&A Taskforce on Diversity, Equity, and Inclusion, GSU, 2020–present
Physics and Astronomy Department Colloquium Committee, GSU, 2018–present
Representative, Apache Point Observatory User’s Committee, GSU, 2018–present
Physics and Astronomy Promotion Committee, GSU, 2016–present
Physics and Astronomy Faculty Director of Development, GSU, 2015–present
Physics and Astronomy Department Publicity Committee, GSU, 2013–present
Astronomy Graduate Student Candidacy Exam Committee, GSU, 2011–present
Astronomy Graduate Student Admissions Committee, GSU, 2011–present
Department Review Team, American Physical Society EP3 Site Visit, GSU, 2021–2022
Representative, APO 3.5m Instrumentation Planning Task Force, GSU, 2021
Chair, Astronomy Faculty Hiring Committee (extragalactic), GSU, 2019–2020
Astronomy Faculty Hiring Committee (academic professional), GSU, 2019–2020
Physics and Astronomy Academic Program Review, Self-Study Committee, GSU, 2017–2018
Representative, APO Time Domain Astronomy Working Group, GSU, 2017
Physics and Astronomy Executive Committee, GSU, 2016–2020
Astronomy Faculty Hiring Committee (solar/stellar), GSU, 2016–2017
PI, Next Generation Faculty Proposal, GSU, 2015, 2016, 2017
Physics and Astronomy Department Honors Celebration organizer, GSU, 2013–2016
Summer Student Program in Astronomy organizer, GSU, 2013–2015
Physics and Astronomy Civility Team (PACT) founding member, GSU, 2012–2014
Physics and Astronomy Department Chair Selection Committee, GSU 2012
Chair, Astronomy Faculty Hiring Committee (extragalactic), GSU, 2011–2012
Astronomy Faculty Hiring Committee (stellar), GSU, 2011–2012
Astronomy 2CI Faculty Hiring Committee, GSU, 2011–2014
Dept. of Physics and Astronomy Website Committee, GSU, 2011–2012
AGN Lunch founder and organizer, GSU, 2010–2012
Women in Physics Lunch founder and organizer, GSU, 2010–2012

COMMUNITY ENGAGEMENT

Scientist Visitor, Sandy Creek High School (2 classes), Dec 2023
Scientist Visitor, Innovation Academy High School Physics Club, Dec 2023
Keynote Speaker, Georgia Regional Astronomers Meeting, Nov 2023

Scientist Visitor, 5th grade STEM Gems Club at Sagamore Hills Elementary, May 2023
Public Lecture, Astronomy Club of Asheville and UNC-Asheville, Apr 2023
Keynote Speaker, ELIPSE 9.0 (Experiential Learning and Inquiry for Physical Science Educators), Georgia Science Teachers Association, Jan 2023
Keynote Speaker, 111th Meeting of the American Association of Variable Star Observers, Nov 2022
Scientist Visitor, STEM Gems Summit at Discovery High School, Oct 2022
Public Lecture, Sunday Assembly Las Vegas, Aug 2022
Public Lecture, “SAA Presents: In Space”, Sunday Assembly Atlanta, July 2022
Virtual presenter, Girl Scouts Troop 22052, May 2022
Scientist Visitor, 5th grade STEM Gems Club at Sagamore Hills Elementary, May 2022
Virtual presenter, “Inside/Outside Campout - Out of this World”, Girl Scouts, Jan 2022
Public lecture, “The James Webb Space Telescope: Final Countdown to Stellar Science”, Fernbank Science Center and the Jim Cherry Memorial Planetarium, Oct 2021
Virtual panel discussion, “STEM Gems Summit: Women Empowering Girls”, STEM Gems, Mar 2021
Virtual panel discussion, “Unladylike 2020: Pioneers in STEM” documentary, GPB and Science ATL, Dec 2020
Multiple events in Mar and Apr 2020 canceled due to COVID-19
Panel discussion, “Our Universe: A Continuous Evolution”, Dahlonga Science Festival, Mar 2020
Scientist Visitor, 4th grade classroom at Alpharetta Elementary, May 2019
Scientist Visitor, 5th grade STEM Gems Club at Sagamore Hills Elementary, Apr 2019
Panel discussion, “STEM Gems”, Atlanta Science Festival, Mar 2019
Scientist Presenter, “Complete the Circuit, Presented by 500 Women Scientists”, Atlanta Science Festival, Mar 2019
Invited public lecture, Florida Institute of Technology, Feb 2019
Skype-A-Scientist with 3rd–5th graders at Keenan Elementary, Montgomery TX, Nov 2018
Panel discussion, “The Most Unknown” documentary, an event of the Atlanta Science Tavern, hosted by the Jimmy Carter Presidential Library and Museum, Nov 2018
Public lecture, “Science Salon for Puerto Rico”, Atlanta Pod of 500 Women Scientists, over \$1000 raised, Apr 2018
Presenter, “WABE Presents: Ask A Scientist”, Atlanta Science Festival, Mar 2018
Panel discussion, “STEM Gems”, Atlanta Science Festival, Mar 2018
Invited public lecture, Atlanta Science Tavern, Jan 2018
“Women in STEM: My Perspective”, lecture and discussion, Young Democrats of Cobb County, Aug 2017
Panel discussion, “Into the Unknown” documentary produced by Northrop Grumman Engineering Corporation about the James Webb Space Telescope, Atlanta Science Festival, Mar 2017
Introduced Dr. Priyamvada Natarajan and her book, “Mapping the Heavens: The Radical Scientific Ideas that Reveal the Cosmos”, Decatur Book Festival, Sep 2016
Invited public lecture, Atlanta Astronomy Club, May 2016
Invited public lecture, Augusta University, Apr 2016

Co-organizer, Atlanta Science Festival presents Starry Starry Night at Hard Labor Creek Observatory, Mar 2016
Public lecture co-participant, Ebrik Coffee House, Atlanta, GA, Mar 2016
Invited public lecture, Charlie Elliott Astronomy Club, May 2014
Creator and organizer, Astronomy Workshops for Girl Scouts at Georgia State University, partnership with Girl Scouts of Greater Atlanta, 2012–present
Faculty volunteer, Hard Labor Creek Observatory public observing nights, 2011–present
Science Olympiad Middle School Regional Competition, faculty volunteer, 2011–2015

POPULAR MEDIA

Interviewed by Inverse, “The Best Sci-Fi Reboot on Netflix Gets Some Fundamental Science Wrong”, July 2023
Co-authored a blog post for the American Astronomical Society, “Citation Ethics in Publishing”, June 2023
Quoted by Mashable, “NASA’s New Black Hole Video Is Jaw-Dropping”, May 2023
Quoted by Mashable, “Astronomers just brought a captivating black hole into focus”, Apr 2023
Interviewed and quoted by Inverse, “Look Out! Astronomers Just Found A Runaway Supermassive Black Hole”, Feb 2023
Featured in Northwest Arkansas Democrat Gazette, “Opinion — Art Hobson: Webb telescope boldly looking more powerfully than any device has looked before”, Aug 2022
Interviewed and quoted by Sky and Telescope, “Hubble’s Future in the Webb Era”, Aug 2022
Interviewed and quoted by NPR, “The new science coming from the James Webb telescope has astronomers giddy”, July 2022
Featured and quoted by GSU News, “Georgia State Astronomy Professor Will Use James Webb Images to Pioneer Extragalactic Research”, July 2022
Interviewed and quoted by Inverse, “12 scientists react to the Webb Telescope’s first images: ‘A stunning achievement’”, July 2022
Interviewed by Science, “Webb telescope wows with first images”, July 2022
Featured and quoted by Inverse, “The Webb telescope is about to gaze into the ‘Eye of Sauron’”, June 2022
Quoted by Mashable “Black holes aren’t evil cosmic vacuum cleaners, and other misconceptions”, May 2022
Featured and quoted in GSU Magazine, “Not College 101”, Spring 2022
Interviewed and quoted by Gizmodo, “Astronomers Looking for One Black Hole May Have Found an Entire Squad”, Feb 2021
Live online interview for the Universe Unplugged show “Ask the Astronomers Live!”, Nov 2020
Podcast interview for GSU College of Arts and Sciences, “Arts and Sciences Matters”, Mar 2020
Interviewed and quoted by National Geographic, “Astronomers just got a deep peek at a black hole”, Jan 2020

Interviewed and quoted by LiveScience, “Is This Invisible Magnetic Field Smothering Our Nearest Supermassive Black Hole?”, Jun 2019

Live radio interview, tbs eFM 101.3 Seoul, “This Morning with Alex Jensen”, Apr 2019

Interviewed and quoted by Mashable, “What’s actually going on in that cryptic black hole photo?”, Apr 2019

Interviewed and quoted in multiple articles for Business Insider, Apr 2019:

“The first ‘groundbreaking’ pictures of a black hole may be unveiled on Wednesday. Here’s what scientists think those will look like.”

“The first-ever picture of a black hole is fuzzy. These incredible illustrations help explain what it shows.”

“Scientists just released the first-ever photograph of a black hole. Some people think it looks like a ‘smudge on the lens.’ ”

“‘Like looking at the gates of Hell’: Astronomers just revealed the first picture of a black hole, and it’s a monster.”

Radio interview WABE-FM 90.1 Atlanta, “Valerie Jackson in Conversation”, Mar 2019

Interviewed and quoted by Business Insider, “A ‘mind-boggling’ telescope observation has revealed the point of no return for our galaxy’s monster black hole”, Oct 2018

Featured and quoted in a NASA Feature Post, “How to Weigh a Black Hole Using NASA’s Webb Space Telescope”, Oct 2018

Interviewed and quoted by Popular Science, “Does a Black Hole Ever Die?”, May 2018

Live interview with Chesley McNeil, NBC 11 Alive Meteorologist, OutASight Total Solar Eclipse Festival co-hosted by GSU Astronomy, Rabun Gap, GA, Aug 2017

Interviewed and quoted by Georgia Magazine, “Seeing Stars”, July 2017

MISCELLANEOUS

119 refereed publications, cited > 9400 times to date, h -index = 53, g -index = 96

31 first-author refereed publications, cited > 3200 times to date, h -index = 18, g -index = 26

30 refereed publications with > 100 citations each (9 as first author, 3 as second author)

Creator and curator for the *AGN Black Hole Mass Database*, which has had more than 13,000 visitors from 104 countries to date

Blog post describing “Phynd the Physicist” game written for Women in Astronomy Blog, and republished on Times Higher Education

Inspired the parody article “Metallica’s James Hetfield Celebrates a PhD in Astrophysics”

Article describing my research chosen as #3 in the Top 10 GSU Website Stories, 2015

Private pilot license, single engine, visual flight rules, July 2010

Composed *Fantasy on Active Galaxies*, a three-part musical piece in four movements from scientific data. As a member of the Orange County Flute Ensemble, co-organized and performed in a multimedia concert at the UC Irvine Observatory in April 2010 that included the world premiere performance of *Fantasy on Active Galaxies*. *Fantasy on Active Galaxies* was awarded first place in the astro(sound)bites inaugural sonification contest in 2021.