

# JANE R. RIGBY

Astrophysicist

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## RESEARCH INTERESTS

- Galaxy evolution, star-forming galaxies, and active galactic nuclei
- Gravitational lenses as natural telescopes
- Diagnostic astrophysical spectroscopy
- Science systems engineering for current and future space observatories

## EDUCATION

The University of Arizona

**Ph.D.**, March 2006, Astronomy (Advisor: George Rieke)

Thesis: “X-ray and Mid-Infrared Diagnostics of Nuclear Activity in Galaxies”

**M.S.**, May 2003, Astronomy

The Pennsylvania State University

**B.S.**, May 2000, with Honors and Highest Distinction, Astronomy & Astrophysics

**B.S.**, May 2000, with Highest Distinction, Physics

## EMPLOYMENT

- Civil Servant Astrophysicist, NASA Goddard Space Flight Center (9/2010 – )
- Senior Project Scientist, James Webb Space Telescope (JWST, 7/2023–). *Responsible for maximizing the scientific impact of the JWST mission.*
- Project Scientist for Operations, JWST (12/2018 – 6/2023). *Responsible for science oversight of the JWST Science & Operations Center (300 FTE, > \$100M)*
- Deputy Operations Project Scientist, JWST (9/2010 – 11/2018)
- Carnegie Fellow and Spitzer Fellow, Carnegie Observatories (9/2006 – 8/2010)
- Postdoctoral Fellow, University of Arizona (3–9/2006)
- Graduate Student, University of Arizona (2000 – 2006)
- Undergraduate Research Assistant, Penn State (1997 – 2000)

## AWARDS

- |      |   |
|------|---|
| 2023 | Citation of Merit 2023, The Explorers Club (jointly with John Mather) |
| 2023 | Fred Kavli Prize Plenary Lecturer, American Astronomical Society      |
| 2022 | NASA’s Exceptional Scientific Achievement Medal                       |
| 2022 | “Nature’s 10: Ten people who helped shape science in 2022”            |
| 2022 | BBC List of 100 inspiring and influential women                       |
| 2022 | Out to Innovate’s “LGBTQ+ Scientist of the Year”                      |

2021 One of *Nature's* “Five Scientists to Watch in 2022”  
 2018 John C. Lindsay Memorial Award for Space Science  
 2015 Peer Award, Astrophysics Science Division, NASA GSFC  
 2014 Robert H. Goddard Award for Diversity and Equal Employment Opportunity  
 2013 Robert H. Goddard Award for Exceptional Achievement for Science  
 2013 Outstanding Alumni Award, Eberly College of Science, Penn State  
 2006–2009 Spitzer Space Telescope Postdoctoral Fellowship  
 2006 Hubble Fellowship, *declined*  
 2006 Chandra Fellowship, *declined*  
 2003–2004 Univ. of Arizona Graduate Research Fellowship  
 2000–2003 NSF Graduate Research Fellowship  
 2000 Paul Axt Award for Outstanding Graduate, Penn State Honors College  
 1999 Barry Goldwater Fellowship  
 1996–2000 Braddock Scholarship, Eberly College of Science, Penn State  
 1996 U.S. Presidential Scholar

## TEAM AWARDS

2023 Collier Trophy, to the JWST Mission  
 2023 Goddard Trophy of the National Space Club, to the JWST Mission  
 2022 NASA’s Group Achievement Award, to the JWST Project Science Team  
 2022 NASA’s Group Achievement Award, to the JWST Science Working Group  
 2022 NASA’s Group Achievement Award, to the JWST Flight Operations Team  
 2022 NASA’s Group Achievement Award, to the JWST Optical Telescope Element Commissioning Team  
 2019 NASA’s Group Achievement Award, to the Astrophysics Large Mission Study Teams  
 2019 Robert H. Goddard Award for Science, to the LUVOIR STDT  
 2019 Robert H. Goddard Award for Science, to the LUVOIR SSAT  
 2016 Robert H. Goddard Award for Science, to the JWST Project Science Team  
 2014 NASA Group Achievement Award, to the NuSTAR Science Team

## SUCCESSFUL NASA PROPOSALS

### As Principal Investigator:

- James Webb Space Telescope, Early Release Science Director’s Discretionary Time (ERS DDT), 58 hr: *TEMPLATES: Targeting Extremely Magnified Panchromatic Lensed Arcs and Their Extended Star formation.*
- NASA Keck Guest Observer, 2021A, 2020A, 2016B, 2013A, 2011A, 2010A
- Hubble Space Telescope Cycle 29 GO, 10 orbits: *Mapping the escape of Ly alpha and ionizing photons from an extreme emission-line lensed galaxy*
- Hubble C23 GO, 20 orbits: *The Ultimate Emission Line Diagnostics Study at z=1.4*
- Hubble C21 GO, 3 orbits: *The Morphology and Star Formation Distribution in a Big Cool Spiral LIRG.*

- Hubble C21 Education and Public Outreach, \$40K: *Magnifying Student Understanding of Galaxies Through Exploration Outside the Classroom.*
- Spitzer Space Telescope C9 Guest Observer (GO), 61 hr: *Precise Stellar Masses at  $1 < z < 3$  in Strongly Lensed Galaxies Observed by HST*
- Herschel OT2, 2.1 hr Priority 1: *How do Compton-thick AGN reprocess their energy?*
- Hubble C19 GO, 4 orbits: *Dissecting star formation and extinction in the brightest lensed galaxy.*
- Herschel OT1 GO, 19 hr: *Resolved Herschel photometry and line spectroscopy for the brightest lensed galaxy at  $z \sim 2$ .*
- Chandra C12 GO, 60 ks, 3 Hubble orbits: *Does the brightest lensed galaxy contain an AGN?*
- Hubble C18 GO, 4 orbits: *Dissecting star formation, extinction, & stellar populations in the brightest lensed galaxy.*
- Hubble C17 GO, 2 orbits: *Resolved H $\alpha$  star formation in two lensed galaxies at  $z=0.9$ .*
- Spitzer Director's Discretionary Time, 2008, 6 hr: *Three new bright lensed galaxies.*

**As Co-investigator:**

- JWST Cycle 3 GO, 23 hr (PI Vanzella): *Mapping Star Cluster Feedback in a Galaxy 500 Myr after the Big Bang*
- JWST C2 GO, 23 hr (PI Hutchison): *Deep Spectroscopy of Galaxies at  $z=4-14$ : Uncovering Drivers of Early Galaxy Formation and Black Hole Growth*
- JWST C2 GO, 11 hr (PI Xu): *Galactic Winds in the Early Universe: observing outflows in emission and absorption in a typical  $z \sim 6$  galaxy*
- JWST C2 GO, 68 hr (PI Florian): *Galaxies Under Construction: Resolved Scaling Relations and Stellar Mass Assembly as Revealed by Lensed Star-Forming Clumps at Cosmic Noon*
- JWST C2 GO, 15 hr (PI Bayliss): *Resolving Star Formation At the Star Cluster Scale Down to  $\sim 30$  pc at  $z=2.5$*
- JWST C2 GO, 7 hr (PI Solimano): *The LAHst of Us: a Sub-kiloparsec View Into The Origins Of a Strongly-Lensed Lyman Alpha Halo at  $z=3$*
- JWST C2 GO, 16 hr (PI Abdurro'uf): *Physical Properties of a Possible Galaxy Merger at  $z=10.2$*
- JWST C2 GO, 10 hr (PI Bradley): *Unveiling the Most Distant Lensed Arc at  $z \sim 10$*
- Hubble Cycle 30, 30 hr (PI Mainali): *Studying ionizing photon escape from a bright gravitationally lensed reionization era analog at  $z = 1.43$*
- JWST Cycle 1 GO, archival (PI Mainali): *How efficiently do galaxies produce ionizing photons in the epoch of reionization?*
- JWST C1 GO, 24 hr (PI Rivera-Thorsen): *How do ionizing photons escape the Sunburst Arc?*
- JWST C1 GO, 19 hr (PI Khullar): *Characterizing Stellar Mass Assembly and Physical*

*Properties in the Brightest Galaxy in the Redshift > 5 Universe*

- JWST C1 GO, 65 hr (PI Fan): *A Comprehensive JWST View of the Most Distant Quasars Deep Into the Epoch of Reionization.*
- JWST C1 GO, 14 hr (PI Coe): *A Strongly Magnified Individual Star and Parsec-Scale Clusters Observed in the First Billion Years at  $z = 6$*
- JWST C1 GO, 11 hr (PI Coe): *Physical Properties of the Triply-Lensed  $z = 11$  Galaxy.*
- JWST C1 GO, 24 hr (PI Jaskot): *Revealing the Ionizing Spectrum of Low-Metallicity Galaxies.*
- JWST C1 GO, 10 hr (PI Stark): *Spectroscopy of Dwarf Galaxies in the Reionization Era: Ionizing Sources and Gas Conditions at Very Low Metallicity.*
- Hubble C29, 10 orbits (PI Mainali): *Measuring ionizing photon escape from an exceptionally bright gravitationally lensed arc at  $z=1.43$*
- Hubble C29, 4 orbits (PI Coe): *Monitoring Earendel, the Lensed  $z$  6 Star*
- Hubble C28, 3 orbits (PI Dahle): *A bright arc behind an extreme cluster lens at  $z=1.5$*
- Hubble Cycle 27, 27 orbits (PI Chisholm): *What lurks below the Lyman Limit? Uncovering the unseen ionizing continuum of massive stars*
- Hubble Cycle 27, 42 orbits (PI Gladders): *Lyman Continuum Escape in High Definition*
- Hubble Cycle 27, 133 orbits (PI Berg): *The COS Legacy Archive Spectroscopic Survey (CLASSY): A UV Treasury of Star-Forming Galaxies*
- Hubble Cycle 27, 4 orbits (PI Bayliss): *Measuring the Stellar Populations In a Strongly Lensed X-ray Emitting Dwarf Starburst at Cosmic Noon*
- Hubble Cycle 25, 3 orbits (PI Dahle): *Probing spatially variable Lyman-continuum escape from the brightest lensed galaxy in the universe*
- Chandra Cycle 19, 500 ks + 7 HST orbits (PI Bayliss): *The Chandra Strong Lens Sample: Revealing Baryonic Physics In Strong Lensing Selected Clusters*
- Chandra Cycle 19, 40 ks + 6 HST orbits (PI Bayliss): *Does the Brightest Strongly Lensed Galaxy Contain An AGN?*
- Hubble Cycle 25, 14 orbits (PI Dahle): *A high-definition study of the brightest lensed galaxy in the universe*
- Hubble Cycle 23, 12 orbits (PI Whitaker): *A Chance Alignment: Resolving a Massive Compact Galaxy Actively Quenching at  $z=1.8$*
- Hubble Cycle 22, 15 orbits (PI Bayliss): *Resolving Lyman-alpha Emission On Physical Scales  $< 270$  pc at  $z > 4$*
- Hubble Cycle 20, 107 orbits (PI Gladders): *Resolving the Star Formation in Distant Galaxies.*
- NASA Keck Guest Observer, 2011B (PI Wuyts)
- Herschel OT2, 60 hr Priority 1 (PI Malhotra): *Herschel Extreme Lensing Line Observations.*
- Hubble Cycle 18, 17 orbits (PI Richard): *Evolution in the size-luminosity relation of HII regions in gravitationally-lensed galaxies.*

- Spitzer Cycle 7 Guest Observer (GO), 69 hr (PI Gladders): *Mass across the redshift desert: Stellar masses in a large and uniform sample of strongly-lensed galaxies at  $1 < z < 3$ .*
- Spitzer Cycle 7 GO, 119 hr (PI Madore): *Cepheids in the SMC: Mapping the 3D structure, the metallicity sensitivity of the Leavitt Law, and the temperature structure...*
- Spitzer Cycle 6 GO, 705 hr (PI Freedman): *The Hubble Constant.*
- Spitzer Cycle 5 Guaranteed Time Observer (GTO), 20 hr (PI G. Rieke): *Star Formation Rates and Metallicities at  $z = 1$ .*
- Spitzer Cycle 5 GO, 13 hr (PI Oey): *Starbursts: Emitters or Absorbers?*
- Spitzer Cycle 5 GO, 43 hr (PI Papovich): *Survey of Paschen  $\alpha$  in High Redshift Galaxies.*
- Spitzer Cycle 4 GO, 28 hr (PI Dressler): *Unmasking the Strong Evolution of Cluster Starbursts*
- Spitzer Cycle 4 GTO, 38 hr (PI G. Rieke): *IRS Spectroscopy of Gravitationally Lensed  $z > 1$  Infrared–Luminous Galaxies.*
- Spitzer Cycle 4 GO, 34 hr (PI Papovich): *Survey of Paschen  $\alpha$  in High Redshift Galaxies.*
- Spitzer Cycle 3 GTO, 50 hr (PI G. Rieke): *IRS Spectroscopy of Gravitationally Lensed  $z > 1$  Infrared–Luminous Galaxies.*
- Spitzer Cycle 3 GTO, 8 hr (PI G. Rieke): *How do Buried “Compton–Thick” AGN Re-process Their Energy?*
- Hubble Cycle 9, 33 orbits (PI Churchill): *Establishing the Gaseous Phases of Galaxies Following the Epoch of Star Formation*

## PROFESSIONAL DEVELOPMENT COURSES

- Master the Media training with George Merlis, 2 days, 2021
- Share the Science Training, Alan Alda Center for Communicating Science, 2 days, 2021
- Ethics in Action: Leading with Integrity, Brookings Executive Education, 2 days, 2019
- Strategies for Conflict Resolution, Brookings Executive Education, 2 days, 2018
- Respectful Confrontations, GSFC, 2 days, 2016
- Women’s Leadership Collaborative, Brookings Executive Education, 8 days, 2014–2015
- NASA Leadership Development and Excellence in Management, Program B: Leading Groups and Teams (LDEM-B), 12 days, 2014
- GSFC Python Boot Camp, 3 days, 2015
- NASA GSFC Road to Mission Success, 6 days, 2011
- Master the Media training with George Merlis, 2 days, 2011
- NASA GSFC Project Scientist Training, 2 days, 2010

## COLLOQUIA AND SEMINARS

**Colloquia:** Astrophysics Science Division, NASA Goddard (2022); University of Chicago (2022); University of Maryland (2022); Ball Aerospace, Boulder (2022, 500 attendees); Raytheon, Aurora (2022); Nordic Network for Diversity in Physics (2022); McGill University, Montreal (2021); University of Cincinnati (2021); Stockholm University and the Swedish Royal Institute of Technology (2021); Princeton University and the Institute for Advanced Study (2019); The University of Michigan (2019); The University of Illinois (2019); Ohio University (2018); John C. Lindsay Memorial Lecture at NASA GSFC (2018); New Mexico State University (2017); Michigan State University (2016); National Radio Astronomy Observatory (2016); Carnegie Institution for Science’s Department of Terrestrial Magnetism (2015); Johns Hopkins Applied Physics Lab (2015); Yale University (2014); U. S. Naval Observatory (2014); University of Leiden, Netherlands (2014); NASA Goddard Space Flight Center (2014); Space Telescope Science Institute (2013); University of California at Berkeley (2012); Penn State (2012); University of Pittsburgh (2012); Boston University (2012); University of Maryland (2011); St. Mary’s University in Halifax, Canada (2011); University of Michigan (2011); University of Texas at Austin (2011); Goddard Space Flight Center (Science Colloquium, 2011); University of Michigan (2009); University of Washington (2009); University of Arizona (2008); UCLA (2008); Harvard (2008); Carnegie Observatories (2008)

**Seminars:** Lunch and Learn at Capitol Hill (2023); University of Chicago (2023); Carnegie Observatories (2023); The University of Maryland (2022); Bahcall Lunch, Institute for Advanced Study (2022); The University of Michigan (2019); The University of Illinois (2019); The University of Maryland (2019); Johns Hopkins (2018); Rutgers (2018); New Mexico State University (2017); Michigan State University (2016); University of California at San Diego (2012); Penn State (2012) Harvard–Smithsonian Center for Astrophysics (2011); St. Mary’s University in Halifax (2011); University of Michigan (2011); Texas A&M University (2011); University of Texas at Austin (2011); Carnegie Institution for Science’s Department of Terrestrial Magnetism (2011); UC Santa Barbara (2010); Arizona State University (2010); Carnegie Observatories (2010); Tufts University (2010); Georgia Tech (2009); STScI (2009); Johns Hopkins (2009); NASA Goddard Space Flight Center (2009); Herzberg Institute of Astrophysics (Victoria, BC, 2009); Princeton (2008); University of Maryland (2008); STScI (2007); UC Irvine (2007); NASA JPL (2007); Caltech (2005); Harvard-Smithsonian CfA (2005); Carnegie Observatories (2005); NASA JPL (2005); Penn State (2003)

## PROFESSIONAL SERVICE

Trustee	American Astronomical Society, 6/2021–6/2024
Panelist	Panel on State of the Profession and Societal Impacts, Astro 2020 Decadal
Member	Science & Technology Definition Team, LUVOIR, 2016–2019
Member	JWST Science Working Group, 2018–

Member	Hubble Fellowship Selection Committee, 2016
Co-Organizer	Inclusive Astronomy 2015 Conference
Referee	Astrophysical Journal; ApJ Letters; Astronomical Journal
Reviewer	Hubble Space Telescope Time Allocation Panel, Cycles 18, 19, 22, 26
Reviewer	National Science Foundation, multiple reviews in 2012
Reviewer	Spitzer Space Telescope Time Allocation Panel, Cycles 5, 8
Reviewer	NASA Keck Time Allocation Panel, 2009B
Reviewer	Multiple JWST project subsystem reviews, 2010–
Reviewer	Multiple Spitzer reviews, 2008
Member	AAS FAMOUS grants selection committee, 2018
Member	AAS SGMA Committee, 2015–2017
Member	Executive Committee, AAS Working Group on LGBTIQ Equality, 2012–2015
Member	Astronomy Allies, 2015–
Member	GSFC Science Director’s Committee, 2011–2012
Member	Users Group, NASA Infrared Science Archive, 2006–2009
Organizer	Carnegie Observatories Internal Symposia, 2007, 2008, 2009
Contributor	Astropy (open source software)
Contributor	AstroBetter.com

## RESEARCH ADVISING

2022–	JWST Post-doctoral fellow Taylor Hutchison
2022–	JWST Post-doctoral fellow Brian Welch
2019–	JWST Postdoctoral Fellow Ramesh Mainali.
2019–2021	JWST Postdoctoral Fellow Soniya Sharma. Now an engineer at Intel
2017–2020	JWST Postdoctoral Fellow Michael Florian. Now at U. Arizona
2018–2019	JWST Postdoctoral Fellow Travis Fischer. Now staff at STScI
2015–2017	NASA Postdoctoral Program (NPP) Fellow Stephanie LaMassa. Now staff at STScI
2013–2016	NPP Fellow Chun Ly. Now staff at U. Arizona
2012–2015	NPP Fellow Kate Whitaker. Now faculty at UMass
2011–2014	NPP Fellow Stacy Teng. Now staff at Institute for Defense Analyses
2011–2013	Univ. of Maryland graduate student Alice Olmstead. Now faculty at Texas State
2008	Princeton graduate student Gonzalo Aniano
2005–2006	Univ. of Arizona undergrad Praveen Kundurthy
2003–2004	Penn State undergrad N. Milutinovic

## OBSERVING EXPERIENCE

Keck 10m	KCWI (optical IFU)*, NIRSPEC (near-IR spectrograph)*, ESI (optical echelle)*
Gemini 8m	GNIRS (near-IR spectrograph)*
Magellan 6.5m	LDSS3 (multi-object optical spectrograph)* IMACS (multi-object optical spectrograph)* FIRE (single-object near-IR echelle)* MagE (single-object optical echelle)* PANIC (near-IR imager)
MMT 6.5m	Megacam (wide-field optical imager) Blue Channel (optical spectrograph) FSPEC (near-IR spectrograph)
CTIO 4m	ISPI (near-IR imager)
LCO 2.5m	B&C spectrograph
Steward 2.3m	90 Prime (wide-field optical imager) B&C spectrograph 2Kx2K CCD FSPEC
VATT 1.8m	2Kx2K CCD
Steward 1.54m	2Kx2K CCD (*: as PI)

## TEACHING

- Lecturer, NASA Goddard postdoc career seminar, 2010–2014
- Lecturer, University of Maryland Astronomy Dept. career seminar, 2011
- Lecturer, Carnegie–Claremont Astrophysics Seminar, 2008–2009
- Co-instructor, Astro 299 (2005, Univ. Arizona)  
Guided student-directed Independent Study, 10 students, with Dr. Ed Olszewski.
- Teaching Assistant and lecturer, Astro 203 (2003, Univ. Arizona)  
With Dr. Ed Olszewski. Nominated for Outstanding Teaching Assistant.
- Instructor, Project EON (2003)  
Created after-school Astronomy seminar for at-risk high school students.
- Lecturer, Astro 296 Research Seminar (2005, Univ. Arizona)
- Lecturer, K–12 Teacher Development Workshop (2004, NOAO)

## PRESS COVERAGE

- “What the Webb Space Telescope Will Show Us Next,” *The New Yorker* (8/2023)
- PBS NOVA episodes “New Eye on the Universe” (2/2023) and “Ultimate Space Telescope” (7/2022)



- “The Webb Telescope is Just Getting Started”, The New York Times (extensively quoted), 12/27/2022
- Quoted about JWST first extragalactic science results, Nov. 2022, outlets including CNN, NPR, and The New York Times
- Extensively quoted about JWST first science images, July 2022, outlets including The New York Times, The Washington Post, The Atlantic, Scientific American, BBC, The Independent, Christian Science Monitor, TMZ, Space.com, Miami Herald, Al Jazeera, and Yahoo News
- “Meet the Woman Who Makes the James Webb Space Telescope Work”, Scientific American, 7/11/2022
- “Our Powerful, Shiny New Space Telescope Got Its First Upsetting Ding”, The Atlantic, 6/14/2022
- “Hubble telescope pinpoints the farthest star ever observed”, March 2022, outlets including National Geographic, Scientific American, Washington Post
- Extensively quoted about first sharp JWST images, March 2022, outlets including BBC, AP, Scientific American, Nature, Space.com
- Extensively quoted about JWST launch and deployments, Jan. 2022, outlets including The New York Times, The Washington Post, National Geographic, The Atlantic, NPR
- “Highlights from the James Webb Space Telescope’s long-awaited launch”, The New York Times, 12/25/2021 (science consultant)
- Quoted in JWST pre-launch coverage, Dec. 2022, outlets including The Washington Post, Nature, KPCC, Radio New Zealand, Smithsonian magazine, NPR Morning Edition
- Quoted in “US astronomy’s 10-year plan is super-ambitious”, Nature, 11/4/2021
- Twelve press releases about research results, from NASA, ESA, STScI, AAS, and MIT
- Profiled by Nature article on LGBT diversity and inclusion: Nature, 505, 249 (2014)
- “Women to Watch Pushing Back the Final Frontier”, Forbes.com 10/2013

## PUBLIC OUTREACH

Speaker	Brinson Lecture, Chicago, 2023
Speaker	Huntington Lecture (350 attendees), Pasadena CA, 2023
Speaker	Public talk at Institute of Astronomy, Cambridge, UK, 2023 (attendance 250)
Speaker	NASA’s broadcast event for JWST first science images, 2022
Speaker	U. S. Presidential Scholars Alumni Association, 2019
Speaker	Vernon Memorial Lecture, University of Delaware, 2017
Speaker	JWST Public Lecture, New Mexico State University, 2017
Panelist	Conference for Undergraduate Women in Physics, Harvard University, 2017
Speaker	GSFC Facebook Live event (300,000 views, 3,000 shares, 7,000 likes, 2,500 comments)
Speaker	Federal Deposit Insurance Corporation, 2016
Speaker	Conference for Undergraduate Women in Physics, Georgia Tech, 2016

Speaker The Library of Congress, 2014  
 Speaker TEDxMidAtlantic, Washington (800 attendees), 2011  
 Speaker Public talks at TED Full Spectrum Auditions (NYC), Monmouth University, Anne Arundel Community College, Goddard Visitors' Center, Carroll County Public Library, Explore@Goddard, 2010–2012  
 Awarded Best Speaker of the year award, IEEE New Jersey Coast Section, 2010  
 Speaker Huntington Library public astronomy series (350 attendees), 2009  
 Speaker Steward Observatory public astronomy series (130 attendees), 2008  
 Volunteer Longfellow Elementary & Webster Elementary, Pasadena, 2008  
 Instructor SMART Science & Math Day, Sahuaro Girl Scout Council, 2006  
 Volunteer Daughters on Campus Day, U. Arizona, 2002–2005  
 Organizer Science Night, Hohokam Middle School, 2003  
 Volunteer Astrofest II (1300-visitor outreach program), Penn State, 2000  
 Co-Founder Astrofest I (1700-visitor 3-night outreach program), Penn State, 1999  
 Volunteer Every Clear Friday public star parties, Penn State, 1996–2000

## **OUTREACH TO THE BROADER SCIENCE COMMUNITY**

2023 Annual meeting, AAAS - Washington, DC  
 2023 Members meeting, National Academy of Science - Washington, DC

## **OUTREACH TO OTHER AGENCIES**

2023 Keynote talk on inclusion – National Reconnaissance Office  
 2016 Keynote talk on inclusion – Federal Deposit Insurance Corporation

## **CONFERENCES AND WORKSHOPS**

\* = On Science Organizing Committee

2024 The Chronology of the Very Early Universe According to JWST: The First Billion Years - Bern, Switzerland  
 2024 Winter meeting, American Astronomical Society - New Orleans  
 2023 Improving JWST Data Products - Baltimore  
 2023 The First Year of JWST Science - Baltimore  
 2023 First Light: first results from JWST - Cambridge, MA  
 2023 Summer meeting, American Astronomical Society - Albuquerque  
 2023 A new era in extragalactic astronomy: early results from JWST - Cambridge, UK  
 2023 African Astronomical Society - Johannesburg (virtual plenary speaker)  
 2023 First Science Results from JWST - Baltimore (opening speaker)  
 2023 Winter meeting, American Astronomical Society - Seattle (prize plenary speaker)

- 2022 International Space Science Institute, JWST star-forming galaxies - Bern
- 2021 NSF Astronomy & Astrophysics Symposium - virtual (keynote speaker)
- 2021 Winter meeting, American Astronomical Society - virtual
- 2019 Revolutionary Spectroscopy as a Springboard to Webb - Leiden
- 2019 Inclusive Astronomy 2019 - Baltimore
- 2019 European Week of Astronomy and Space Science (EWASS) - Lyon
- 2019 Metals in Galaxies, Near and Far: Looking Ahead - Leiden
- 2019 Space Astrophysics Landscape for the 2020s and Beyond - Potomac
- 2018 IAU focus meeting: JWST Launch, Commissioning, and Cycle 1 Science - Vienna
- 2018 Dot Astronomy X - Baltimore
- 2017 Characterizing Galaxies with Spectroscopy with a view for JWST - Leiden
- 2017 \*Chemical Evolution of the Universe (GMT Community Science) - Tarrytown
- 2017 Spectral Diagnostics to Explore the Cosmic Dawn with JWST - Baltimore
- 2017 Winter meeting, American Astronomical Society - Grapevine
- 2016 Magellan Science Symposium - Washington
- 2016 Mapping the Pathways of Galaxy Transformation Across Time and Space - Avalon
- 2016 Winter meeting, American Astronomical Society - Kissimmee
- 2015 Exploring the Universe with JWST - Noordwijk, Netherlands
- 2015 International Astronomical Union - Honolulu
- 2015 Understanding Nebular Emission in High-z Galaxies - Pasadena
- 2015 \*Inclusive Astronomy - Nashville
- 2014 Wide Field Infrared Surveys - Pasadena
- 2014 Winter Meeting, American Astronomical Society - Washington
- 2013 Cluster Lensing: Peering into the Past, Planning for the Future - Baltimore
- 2013 Winter Meeting, American Astronomical Society - Long Beach
- 2012 Exploring the Dark Universe: Frontier of Cosmology and Astrophysics in the 21st Century - Tucson
- 2012 SnowPAC 2012: Gravitational lensing in the Age of Survey Science - Snowbird, Utah
- 2011 Frontier Science Opportunities with JWST - Baltimore
- 2011 Through the Infrared Looking Glass: A Dusty View of Galaxy and AGN Evolution - Pasadena
- 2011 Winter Meeting, American Astronomical Society - Seattle
- 2009 NuSTAR Science Team - Pasadena
- 2009 Reionization to Exoplanets: Spitzer's Growing Legacy - Pasadena
- 2009 Assembly, Gas Content, and SF History of Galaxies - Charlottesville
- 2009 Summer Meeting, American Astronomical Society - Pasadena
- 2009 Winter Meeting, American Astronomical Society - Long Beach
- 2008 Caltech-Carnegie Postdoc Workshop - Lake Arrowhead
- 2008 High Energy Astrophysics Division, AAS - Los Angeles
- 2007 Galaxy and Black Hole Evolution: Towards a Unified View - Tucson

- 2007 New Horizons in Astronomy - Austin
- 2007 Obscured AGN Across Cosmic Time - Seeon, Germany
- 2007 ADVANCE Faculty Horizons - Baltimore
- 2007 Caltech-Carnegie Postdoc Workshop - Lake Arrowhead
- 2007 Spitzer Fellows Symposium - Pasadena
- 2006 Winter Meeting, American Astronomical Society - Washington
- 2005 Infrared Diagnostics of Galaxy Evolution - Pasadena
- 2005 Nearly Normal Galaxies in a  $\Lambda$ CDM Universe - Santa Cruz
- 2004 The Spitzer Space Telescope: New Views on the Cosmos - Pasadena
- 2003 SIRTFF Pre-Launch Science Workshop - Pasadena
- 2003 Women in Astronomy II - Pasadena
- 2003 Workshop on the Topology of Reionization - Tucson
- 2000 Gas and Galaxy Evolution - Socorro
- 2001 Winter Meeting, American Astronomical Society - San Diego
- 2000 Winter Meeting, American Astronomical Society - Atlanta
- 1999 Winter Meeting, American Astronomical Society - Austin
- 1998 Synthesis Imaging & Interferometry Summer School - Socorro
- 1998 Winter Meeting, American Astronomical Society - Washington

# PUBLICATION LIST

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Summary:

153	refereed papers
16	first-author refereed papers (+ 1 submitted)
23	second-author refereed papers (+ 1 submitted)
1085	citations to first-author refereed papers
1019	citations to second-author refereed papers
11,413	total citations to refereed papers
60	Hirsch H-index (60 refereed papers with $\geq 60$ citations on ADS)

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## REFEREED PUBLICATIONS

Abbreviations: ApJ = The Astrophysical Journal; AJ = The Astronomical Journal; MNRAS = Monthly Notices of the Royal Astronomical Society; A&A = Astronomy & Astrophysics; PASP = Publications of the Astronomical Society of the Pacific; ADS = The NASA Astrophysics Data System

158. Adamo, A., et al. 2024, submitted to Nature.  
*The discovery of bound star clusters 460 Myr after the Big Bang*
157. **Rigby, J.** et al. 2024, submitted to ApJ.  
*JWST Early Release Science Program TEMPLATES: Targeting Extremely Magnified Panchromatic Lensed Arcs and their Extended Star formation*
156. Cathey, J. et al. 2023, submitted to ApJ.  
*TEMPLATES: Characterization of a Merger in the Dusty Lensing SPT0418-47 System*
155. Feinberg, L. et al. 2023, submitted to JATIS.  
*James Webb Space Telescope Optical Stability Lessons Learned for Future Great Observatories*
154. Mainali, R., & Rigby, J. 2023, submitted to ApJ.  
*Metallicity determination of high redshift galaxies: A machine learning approach*
153. Hutchison, T., Welch, B., **Rigby, J.**, et al. 2024, PASP in press.  
*TEMPLATES: A Robust Outlier Rejection Method for JWST/NIRSpec Integral Field Spectroscopy*
152. Topping, M. et al. 2024, MNRAS in press.  
*Metal-poor star formation at  $z \gtrsim 6$  with JWST: New insight into hard radiation fields and nitrogen enrichment on 20 pc scales*
151. Navarre, A. et al. 2024, ApJ, 962, 175.  
*Resolving Clumpy versus Extended Ly $\alpha$  in Strongly Lensed, High-redshift Ly $\alpha$  Emitters*

150. Mingozi, M., et al. 2024, ApJ, 962, 95.  
*CLASSY. VIII. Exploring the Source of Ionization with UV Interstellar Medium Diagnostics in Local High- $z$  Analogs*
149. Fudamoto, Y., et al. 2024, ApJ, 961, 71.  
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