

JANE R. RIGBY

Astrophysicist

NASA Goddard Space Flight Center, Observational Cosmology Lab (code 665)
Greenbelt, MD 20771 301.286.1507 Jane.Rigby@nasa.gov

RESEARCH INTERESTS

- Galaxy evolution, star-forming galaxies, and active galactic nuclei
- Gravitational lenses as natural telescopes
- Diagnostic astrophysical spectroscopy
- Science systems engineering for 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 —)
- Project Scientist for Operations, James Webb Space Telescope (12/2018 —). *Responsible for science oversight of the 300 FTE, several \$100M JWST Science & Operations Center.*
- Deputy Operations Project Scientist, James Webb Space Telescope (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

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, <i>declined</i>
2006	Chandra Fellowship, <i>declined</i>

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

2019 NASA 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), 55 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 23 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 1 GO, archival (PI Mainali): *How efficiently do galaxies produce ionizing photons in the epoch of reionization?*
- JWST Cycle 1 GO, 24 hr (PI Rivera-Thorsen): *How do ionizing photons escape the Sunburst Arc?*
- JWST Cycle 1 GO, 19 hr (PI Khullar): *Characterizing Stellar Mass Assembly and Physical Properties in the Brightest Galaxy in the Redshift > 5 Universe*
- JWST Cycle 1 GO, 65 hr (PI Fan): *A Comprehensive JWST View of the Most Distant Quasars Deep Into the Epoch of Reionization.*
- JWST Cycle 1 GO, 14 hr (PI Coe): *A Strongly Magnified Individual Star and Parsec-Scale Clusters Observed in the First Billion Years at $z = 6$*
- JWST Cycle 1 GO, 11 hr (PI Coe): *Physical Properties of the Triply-Lensed $z = 11$ Galaxy.*
- JWST Cycle 1 GO, 24 hr (PI Jaskot): *Revealing the Ionizing Spectrum of Low-Metallicity Galaxies.*
- JWST Cycle 1 GO, 10 hr (PI Stark): *Spectroscopy of Dwarf Galaxies in the Reionization Era: Ionizing Sources and Gas Conditions at Very Low Metallicity.*
- Hubble Cycle 28, 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? Uncovers 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 α 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 α 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

- 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), 2014
- GSFC Python Boot Camp, 3 days, 2015
- NASA GSFC Road to Mission Success, 2011
- NASA GSFC Project Scientist Training, 2010

COLLOQUIA AND SEMINARS

Colloquia: McGill University, Montreal (2021); University of Cincinnati (2021); Stockholm University and the 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: The University of Michigan (2019); The University of Illinois (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

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

2019– JWST Postdoctoral Fellow Soniya Sharma
2019– JWST Postdoctoral Fellow Ramesh Mainali
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)

PRESS COVERAGE

- “Discovery of the Brightest Galaxy in the Redshift > 5 Universe”, AAS press release, Phys.org, 1/2021
- “Hubble Captures a Dozen Galaxy Doppelgangers”, NASA and ESA press releases, ScienceNews, 11/2019
- “Astronomers use giant galaxy cluster as X-ray magnifying lens”, MIT press release, Boston Globe, 11/2019
- “Where are New Stars Born? NASA’s Webb Telescope Will Investigate”, NASA and JWST press release, 8/2019
- “Hubble Pushed Beyond Limits to Spot Clumps of New Stars in Distant Galaxy”, NASA and Hubble press release, 7/2017
- “Hubble sees a smiling lens”, NASA/ESA press release, 2/2015, data from our program
- “Hubble sees spiral bridge of young stars between two ancient galaxies”, NASA and ESA press releases 7/2014
- “Herschel discovers mature galaxies in the young universe”, ESA press release and NASA/Herschel press release, 5/2014
- “Herschel discovers mature galaxies in the young Universe”, ESA/Herschel Press release, 4/2014
- 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
- AstroBetter reviewed in Physics World, 1/2013
- AstroBetter highlighted in Nature Jobs, 11/2013
- Hubble image from PI program was one of Space.com’s 100 best space photos for 2012
- “NASA’s Infrared Observatory Measures Expansion of Universe”, NASA JPL and Spitzer press releases, 10/2012
- “Hubble Zooms in on a Magnified Galaxy”, Hubble press release, 2/2012
- Lensing work profiled in 2011 Hubble Science Year in Review
- “UA Astronomers Find Clue to Glowing X-ray Sky”, U. Arizona press release, 8/2005

PUBLIC OUTREACH

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

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)

CONFERENCES AND WORKSHOPS

* = On Science Organizing Committee

- 2021 Keynote speaker, NSF Astronomy & Astrophysics Symposium - virtual
- 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 Λ CDM Universe - Santa Cruz
2004 The Spitzer Space Telescope: New Views on the Cosmos - Pasadena
2003 SIRTf 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

Summary:

123	refereed papers
14	first-author refereed papers
22	second-author refereed papers
699	citations to first-author refereed papers
820	citations to second-author refereed papers
8331	total citations to refereed papers
48	Hirsch H-index (48 refereed papers with ≥ 48 citations on ADS)

REFEREED PUBLICATIONS

Abbreviations: ApJ = The Astrophysical Journal; AJ = The Astronomical Journal; MNRAS = Monthly Notices of the Royal Astronomical Society; A&A = Astronomy & Astrophysics

126. Tejos, N. et al. 2021, submitted to MNRAS.
Telltale signs of metal recycling in the circumgalactic medium of a $z \sim 0.77$ galaxy.
125. Hanson, M., Ruiz, E., et al. 2020, submitted for publication by the National Academy of Science.
Astro2020: Report on the Panel on the State of the Profession and Societal Impacts
124. O'Meara, J., Bordoloi, R., Sharon, K., **Rigby, J.**, et al., submitted to Science.
Spatially mapping star-forming gas in a galaxy 11 billion years in the past.
123. Sharma, S., et al. 2021, MNRAS in press.
Resolving star-forming clumps in a $z \sim 2$ lensed galaxy: a pixelated Bayesian approach.
122. Florian, M., **Rigby, J.**, Acharyya, A., et al. 2021, ApJ in press.
Spatial Variation in Strong Line Ratios and Physical Conditions in Two Strongly-Lensed Galaxies at $z \sim 1.4$
121. **Rigby, J.**, Florian, M., Acharyya, A., et al. 2021, ApJ, 908, 154.
A Comparison of Rest-frame Ultraviolet and Optical Emission-Line Diagnostics in the Lensed Galaxy SDSS J1723+3411 at Redshift $z = 1.3293$
120. Khullar, G., et al. 2021, ApJ, 906, 107.
COOL-LAMPS I. An Extraordinarily Bright lensed Galaxy at Redshift 5.04
119. Akhshik, M. et al. 2020, ApJ, 900, 184
REQUIEM-2D Methodology: Spatially Resolved Stellar Populations of Massive Lensed Quiescent Galaxies from Hubble Space Telescope 2D Grism Spectroscopy
118. Dai, L. et al. 2020, MNRAS, 495, 3192.

- Asymmetric Surface Brightness Structure of Lensed Arc in SDSS J1226+2152: A Case for Dark Matter Substructure.*
117. Byler, N., Kewley, L, **Rigby, J.**, et al. 2020, ApJ, 893, 1.
A comparison of UV and optical metallicities in star-forming galaxies.
116. Sharon, K., et al. 2020, ApJS, 247, 12.
Strong Lens Models for 37 Clusters of Galaxies from the SDSS Giant Arcs Survey.
115. Lopez, S., et al. 2020, MNRAS, 491, 4442.
Slicing the cool circumgalactic medium along the major-axis of a star-forming galaxy at $z = 0.7$.
114. Bayliss, M., et al. 2020, Nature Astronomy, 4, 159.
An X-ray Detection of Star Formation in a Highly Magnified Giant Arc.
113. Fischer, T., et al. 2019, ApJ, 887, 200.
A Dissection of Spatially Resolved AGN Feedback across the Electromagnetic Spectrum
112. Rivera-Thorsen, T. E. et al. 2019, Science, 366, 738.
Gravitational lensing reveals ionizing ultraviolet photons escaping from a distant galaxy.
111. Chisholm, J., **Rigby, J.**, et al., 2019, ApJ, 882, 182.
Constraining the metallicities, ages, star formation histories, and ionizing continua of extragalactic massive star populations.
110. Acharyya, A., Kewley, L. J., **Rigby, J.**, et al., 2019, MNRAS, 488, 5862.
Rest-frame UV and optical emission line diagnostics of ionized gas properties: a test case in a lensed galaxy at $z \sim 1.7$.
109. Kewley, L., et al., 2019, ApJ, 880, 16.
Theoretical ISM pressure and electron density diagnostics for local and high-redshift galaxies.
108. Fischer, T., **Rigby, J.**, et al. 2019, ApJ, 875, 102.
Spatially Resolved Outflows In a Seyfert Galaxy at $z = 2.39$
107. Dunham, S., Sharon, K., Florian, M., **Rigby, J.**, et al. 2019, ApJ, 875, 18.
Lens Model and Source Reconstruction Reveal the Morphology and Star Formation Distribution in the Cool Spiral LIRG SDSS J1438+1454.
106. Chisholm, J., et al. 2018, A&A, 616, 30.
Accurately predicting the escape fraction of ionizing photons using restframe ultraviolet absorption lines.
105. Gazagnes, S., et al. 2018, A&A, 616, 29.
Neutral gas properties of Lyman continuum emitters: column densities and covering

fractions from UV absorption lines.

104. Lopez, S., et al. 2018, *Nature*, 554, 493
A clumpy and anisotropic galaxy halo at $z=1$ revealed by gravitational-arc tomography.
- 103. Rigby, J.** et al. 2018, *ApJ*, 853, 87.
The Magellan Evolution of Galaxies Spectroscopic and Ultraviolet Reference Atlas (MEGASaURA) II: Stacked Spectra.
- 102. Rigby, J.** et al. 2018, *AJ*, 155, 104.
The Magellan Evolution of Galaxies Spectroscopic and Ultraviolet Reference Atlas (MEGASaURA) I: The Sample and the Spectra.
101. Chisholm, J., Bordoloi, R., **Rigby, J.**, & Bayliss, M. 2018, *MNRAS*, 474, 1688.
Feeding the Fire: Tracing the mass-loading of $10^7 K$ galactic outflows with OVI absorption.
100. Rivera-Thorsen, T. E. et al. 2017, *A&A Letters*, 608, 4.
The Sunburst Arc: Direct Lyman α escape observed in the brightest known lensed galaxy.
99. LaMassa, S. et al. 2017, *ApJ*, 847, 100.
The Hunt for Red Quasars: Luminous Obscured Black Hole Growth Unveiled in the Stripe82 X-ray Survey.
98. Gonzalez-Lopez, J., et al. 2017, *ApJ Letters*, 846L, 22.
ALMA Resolves the Molecular Gas in a Young Low-Metallicity Starburst at $z = 1.7$
97. Bayliss, M. et al. 2017, *ApJ Letters*, 845L, 14.
Spatially Resolved Patchy Lyman alpha Emission with the Central Kiloparsec of a Strongly Lensed Quasar Host Galaxy at $z = 2.8$
96. Johnson, T., **Rigby, J.**, et al. 2017, *ApJ Letters*, 843L, 2.
Star Formation at $z = 2.481$ in the Lensed Galaxy SDSS J1110+6459: Star Formation down to 30 parsec scales.
- 95. Rigby, J.** et al. 2017, *ApJ*, 843, 2.
Star Formation at $z=2.481$ in the Lensed Galaxy SDSS J1110+6459, II: What Is Missed at the Normal Resolution of the Hubble Space Telescope?
94. Johnson, T. et al. 2017, *ApJ*, 843, 2.
Star Formation at $z=2.481$ in the Lensed Galaxy SDSS J1110+6459, I: Lens Modeling and Source Reconstruction.
93. Malhotra, S. et al. 2017, *ApJ*, 835, 110.
Herschel Extreme Lensing Line Observations: [CII] variations in galaxies at $z=1-3$.
92. LaMassa, S. et al. 2017, *ApJ*, 835, 91.

Chandra Reveals Heavy Obscuration and Circumnuclear Star Formation in Seyfert 2 Galaxy NGC 4968

91. Sharon, K. et al. 2017, ApJ, 835, 5.
Lens Model and Time Delay Predictions for the Sextuply Lensed Quasar SDSS J2222+2745.
90. Ly, C., Malkan, M., **Rigby, J.**, & Nagao, T. 2016, ApJ, 828, 67.
The Metal Abundance Across Cosmic Time (MACT) Survey II: Evolution of the Mass-Metallicity Relation over 8 Billion Years, Using [O III] λ 4362Å-based Metallicities.
89. Ly, C., Malhotra, S., Malkan, M., **Rigby, J.**, Kashikawa, N., De Los Reyes, M., & Rhoads, J. 2016, ApJ Supplements, 226, 5.
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