

JANE R. RIGBY

Astrophysicist

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RESEARCH INTERESTS

- Galaxy evolution, star-forming galaxies, and active galactic nuclei.
- The star-formation, metal-enrichment, and black hole growth histories of the universe.
- Gravitational lenses as natural telescopes.
- Diagnostic astrophysical spectroscopy.
- Science systems engineering for upcoming space telescopes.

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

AWARDS

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|-----------|------------------------------------------------------------------------|
| 2015 | Robbert H. Goddard Award for Science to the JWST Project Science Team |
| 2015 | Peer Award, Astrophysics Science Division, NASA GSFC |
| 2014 | NASA Group Achievement Award to the NuSTAR Science Team |
| 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 |

EMPLOYMENT

- Civil Servant Astrophysicist, NASA Goddard Space Flight Center. (9/2010 – present)

- Deputy Operations Project Scientist, James Webb Space Telescope. (’)
- 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)

SUCCESSFUL NASA PROPOSALS

As Principal Investigator:

- 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.*
- NASA Keck Guest Observer, 2016B, 2013A, 2011A, 2010A
- 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:

- Hubble Cycle 23, GO, 12 orbits (PI Whitaker):
A Chance Alignment: Resolving a Massive Compact Galaxy Actively Quenching at $z=1.8$
- Hubble Cycle 22, GO, 15 orbits (PI Bayliss):
Resolving Lyman-alpha Emission On Physical Scales < 270 pc at $z > 4$
- Hubble C20 GO, 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 C18 GO, 17 orbits (PI Richard):
Evolution in the size-luminosity relation of HII regions in gravitationally-lensed galaxies.
- Spitzer C7 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 C7 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 C6 GO, 705 hr (PI Freedman): *The Hubble Constant.*
- Spitzer C5 Guaranteed Time Observer (GTO), 20 hr (PI G. Rieke): *Star Formation Rates and Metallicities at $z = 1$.*
- Spitzer C5 GO, 13 hr (PI Oey): *Starbursts: Emitters or Absorbers?*
- Spitzer C-5 GO, 43 hr (PI Papovich):
Survey of Paschen α in High Redshift Galaxies.
- Spitzer C4 GO, 28 hr (PI Dressler): *Unmasking the Strong Evolution of Cluster Starbursts*
- Spitzer C4 GTO, 38 hr (PI G. Rieke):
IRS Spectroscopy of Gravitationally Lensed $z > 1$ Infrared–Luminous Galaxies.
- C4 Spitzer GO, 34 hr (PI Papovich): *Survey of Paschen α in High Redshift Galaxies.*
- Co-I, Spitzer C3 GTO, 50 hr (PI G. Rieke):
IRS Spectroscopy of Gravitationally Lensed $z > 1$ Infrared–Luminous Galaxies.
- Spitzer C3 GTO, 8 hr (PI G. Rieke):
How do Buried “Compton–Thick” AGN Reprocess Their Energy?

COLLOQUIA AND SEMINARS

- **2016 Colloquia:** Michigan State University; National Radio Astronomy Observatory.
- **2016 Seminars:** Michigan State University.
- **2015 Colloquia:** Carnegie Institution for Science, Department of Terrestrial Magnetism; Johns Hopkins Applied Physics Lab.
- **2014 Colloquia:** Yale University; U. S. Naval Observatory; University of Leiden, Netherlands; NASA GSFC.
- **2013 Colloquia:** Space Telescope Science Institute.
- **2012 Colloquia:** University of California at Berkeley; Penn State; University of Pittsburgh; Boston University.
- **2012 Seminars:** University of California at San Diego; Penn State.
- **2011 Colloquia:** University of Maryland; St. Mary’s University in Halifax, Canada; University of Michigan; University of Texas at Austin; Goddard Space Flight Center (Science Colloquium).
- **2011 Seminars:** Harvard–Smithsonian Center for Astrophysics; St. Mary’s University in Halifax; University of Michigan; Texas A&M University; University of Texas at Austin; Carnegie Department of Terrestrial Magnetism.
- **2010 Seminars:** UC Santa Barbara; Arizona State University; Carnegie Observatories;

Tufts University.

- **2009 Colloquia:** University of Michigan; University of Washington.
- **2009 Seminars:** Georgia Tech; Space Telescope Science Institute; Johns Hopkins; Goddard Space Flight Center; Herzberg Institute of Astrophysics (Victoria, BC).
- **2008 Colloquia:** University of Arizona; UCLA; Harvard; Carnegie Observatories.
- **2008 Seminars:** Princeton; University of Maryland.
- **2007 Invited Review:** New Horizons in Astronomy, UT Austin.
- **2007 Seminars:** Space Telescope Science Institute; UC Irvine; JPL.
- **2005 Seminars:** Caltech; Harvard-Smithsonian CfA; Carnegie Observatories; JPL.
- **2003 Seminars:** Penn State.

PROFESSIONAL DEVELOPMENT COURSES

- Respectful Confrontations, 2016
- Brookings Executive Education, Women’s Leadership Collaborative, 2014–2015
- NASA Leadership Development and Excellence in Management, Program B: Leading Groups and Teams (LDEM-B), 2014
- Astrostatistics and R (AAS career development), 2015
- GSFC Python Boot Camp, 2015
- NASA GSFC Road to Mission Success, 2011
- NASA GSFC Project Scientist Training, 2010

PROFESSIONAL SERVICE

Member	Science & Technology Definition Team, LUVUOIR, 2016–
Member	Hubble Fellowship Selection Committee, 2016
Co-Organizer	Inclusive Astronomy 2015 Conference
Referee	Astrophysical Journal; ApJ Letters; Astronomical Journal
Reviewer	National Science Foundation, multiple reviews, 2012
Reviewer	Hubble Space Telescope Time Allocation Panel, Cycles 18, 19, 22
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 Committee for Sexual-Orientation and Gender Minorities in Astronomy (SGMA), 2012–
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	AstroBetter.com

RESEARCH ADVISING

2015– NASA Postdoctoral Program (NPP) Fellow Stephanie LaMassa
2013– NPP Fellow Chun Ly. Now staff at MMT Observatory
2012–2015 NPP Fellow Kate Whitaker. Now Hubble Fellow at UMass
2011–2014 NPP Fellow Stacy Teng. Now at Institute for Defense Analyses
2011–2013 Univ. of Maryland graduate student Alice Olmstead
2008 Princeton graduate student Gonzalo Aniano
2005–2006 Univ. of Arizona undergrad Praveen Kundurthy
2003–2004 Penn State undergrad N. Milutinovic

PRESS COVERAGE

- “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
- “Women to Watch Pushing Back the Final Frontier”, Forbes.com 10/2014
- “Herschel discovers mature galaxies in the young Universe”, ESA/Herschel Press release, 4/2014
- 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 Press Release, 10/2012
- Lensing work was profiled in 2011 Hubble Science Year in Review
- “Hubble Zooms in on a Magnified Galaxy”, Hubble press release, 2/2012
- Rigby was profiled by Nature on LGBT diversity and inclusion: Nature, 505, 249 (2014)
- AstroBetter reviewed in Physics World, 1/2013
- AstroBetter highlighted in Nature Jobs, 11/2013
- “NASA’s Infrared Observatory Measures Expansion Of Universe”, Spitzer press release, 10/2012
- “UA Astronomers Find Clue to Glowing X-ray Sky”, U. Arizona press release, 8/2005

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)

PUBLIC OUTREACH

- 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 DC (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
- Lecturer Huntington Library public astronomy series (350 attendees), 2009
- Lecturer 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

OBSERVING EXPERIENCE

Keck 10m	NIRSPEC (near-IR spectrograph)*
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)

CONFERENCES AND WORKSHOPS

- 2017 Winter meeting, American Astronomical Society - Grapevine
- 2016 Magellan Science Symposium - Washington
- 2016 Mapping the Pathways of Galaxy Transformation Across Time and Space - Avalon, CA
- 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 (on Science Organizing Committee)
- 2014 Wide Field Infrared Surveys - Pasadena
- 2014 Winter Meeting, American Astronomical Society - DC
- 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 Extragalactic Working Group, NuSTAR Science Team - Pasadena
- 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 - DC

- 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 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 Winter Meeting, American Astronomical Society - DC
- 1998 Synthesis Imaging & Interferometry Summer School - Socorro

PUBLICATION LIST

96	refereed papers
11	first-author refereed papers
19	second-author refereed papers
494	citations to first-author refereed papers
5590	total citations to refereed papers
40	Hirsch H-index (40 refereed papers with ≥ 40 citations on ADS)

REFEREED PUBLICATIONS

Note: ApJ = The Astrophysical Journal; AJ = The Astronomical Journal; MNRAS = Monthly Notices of the Royal Astronomical Society

100. **Rigby, J.** et al., submitted to ApJ.
The Magellan Evolution of Galaxies Spectroscopic and Ultraviolet Reference Atlas (MEGASaURA) II: Stacked Spectra.
99. Bayliss, M. et al., submitted to ApJ.
Spatially Resolved Patchy Lyman alpha Emission with the Central Kiloparsec of a Strongly Lensed Quasar Host Galaxy at $z = 2.8$
98. **Rigby, J.** et al., submitted to ApJS.
The Magellan Evolution of Galaxies Spectroscopic and Ultraviolet Reference Atlas (MEGASaURA) I: The Sample and the Spectra
97. Kewley, L., et al., submitted to ApJ.
Measuring the ISM Pressure and Electron Density in Local and High-Redshift Galaxies.
96. Johnson, T., **Rigby, J.**, et al. 2017, ApJ Letters, 843, 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.
The Metal Abundance Across Cosmic Time (MACT) Survey I: Optical Spectroscopy in the Subaru Deep Field.
88. Scowcroft, V. et al. 2016, MNRAS, 459, 1170.
The Carnegie Chicago Hubble Program: The MidInfrared colours of Cepheids and the Effect of Metallicity on the CO Bandhead at 4.6 μ m.
87. Bordoloi, R., **Rigby, J.**, Tumlinson, J., Bayliss, M., Sharon, K., Gladders, M., & Wuyts, E., 2016, MNRAS, 458, 1891.
Spatially Resolved Galactic Wind in Lensed Galaxy RCSGA 032727–132609.
86. Scowcroft, V., et al., 2016, ApJ, 816, 49.
The Carnegie Hubble Program: The Distance and Structure of the SMC as Revealed by Mid-infrared Observations of Cepheids.
85. Annuar, A., Gandhi, P., Alexander, D. M., et al. 2015, ApJ, 815, 36.
NuSTAR Observations of the Compton-thick Active Galactic Nucleus and Ultraluminous X-Ray Source Candidate in NGC 5643.
- 84. Rigby, J.**, Bayliss, M., Gladders, M., Sharon, K., Wuyts, E., Dahle, H., Johnson, T., & Peña-Guerrero, M. 2015, ApJ Letters, 814, 6.
C III] Emission in Star-forming Galaxies Near and Far.
83. Teng, S., **Rigby, J.**, Stern, D., et al. 2015, ApJ, 814, 56.
A NuSTAR Survey of Nearby Ultraluminous Infrared Galaxies.
82. Bauer, F. et al. 2015, ApJ 812, 116.
NuSTAR Observations of the Hard X-ray Reflection Spectrum of NGC 1068.
81. Dahle, H., Gladders, M., Sharon, K., Bayliss, M., & **Rigby, J.**, 2015, ApJ, 813, 67.
A Time Delay Measurement for the Cluster-Lensed Sextuple Quasar SDSS J2222+2745.
80. Whitaker, K. E., et al. 2015, ApJ Letters, 811, 12L.
Galaxy Structure as a Driver of the Star Formation Sequence Slope and Scatter.

79. Ly, C., **Rigby, J.**, Cooper, M., & Yan, R. 2015, ApJ, 805, 45.
Metal-Poor, Strongly Star-Forming Galaxies in the DEEP2 Survey: The Relationship Between Stellar Mass, Temperature-Based Metallicity, and Star Formation Rate.
78. Whitaker, K. et al. 2014, ApJ, 795, 104.
Constraining the Low-Mass Slope of the Star Formation Sequence at $0.5 < z < 2.5$
77. Sharon, K., Gladders, M., **Rigby, J.**, Wuyts, E., Bayliss, M., Johnson, T., Florian, M., & Dahle, H. 2014, ApJ, 795, 50.
The Mass Distribution of the Strong Lensing Cluster SDSS J1531+3414
76. Tremblay, G. R. et al., 2014, ApJ Letters, 790, 26.
A Thirty Kiloparsec Chain of “Beads on a String” Star Formation Between Two Merging Early Type Galaxies in the Core of a Strong Lensing Galaxy Cluster.
75. Bayliss, M., **Rigby, J.**, Sharon, K., Wuyts, E., Florian, M., Gladders, M., Johnson, T., & Oguri, M. 2014, ApJ, 790, 144.
The Physical Conditions, Metallicity, and Metal Abundance Ratios in a Highly Magnified Galaxy at $z=3.6252$.
74. Olmstead, A., **Rigby, J. R.**, Swinbank, M., & Veilleux, S. 2014, AJ, 148, 65.
A magnified view of star formation at $z=0.9$ from two lensed galaxies
73. Whitaker, K., **Rigby, J.**, Brammer, G., Gladders, M., Sharon, K., Teng, S., & Wuyts, E., 2014, ApJ, 790, 143.
Resolved Star Formation on Sub-galactic Scales for a Merger at $Z=1.7$.
- 72. Rigby, J.**, Bayliss, M. B., Gladders, M. D., Sharon, K., Wuyts, E., & Dahle, H., 2014, ApJ, 790, 44. *On the Lack of Correlation Between Mg II 2796, 2803 Å and Lyman α Emission in Lensed Star-Forming Galaxies.*
71. Rhoads, J. E. et al., 2014, ApJ, 787, 8.
Herschel Extreme Lensing Line Observations: Dynamics of two strongly lensed normal galaxies near redshift two.
70. Teng, S. H. et al., 2014, ApJ, 785, 19.
NuSTAR reveals an intrinsically luminous X-ray weak broad absorption line quasar in the ultraluminous infrared galaxy Markarian 231.
69. Wuyts, E., **Rigby, J. R.**, Gladders, M. D., & Sharon, K. 2014, ApJ, 781, 61.
A Magnified View of the Kinematics and Morphology of RCSGA 032727-132609: Zooming in on a Merger at $z=1.7$.
68. Scowcroft, V., et al., 2013, ApJ, 773, 106
The Carnegie Hubble Program: The Infrared Leavitt Law in IC 1613.

67. Harrison, F., et al., 2013, ApJ, 770, 103.
The Nuclear Spectroscopic Telescope Array (NuSTAR) High Energy X-ray Mission.
66. Oemler, A. Jr., Dressler, A., Gladders, M. G., **Rigby, J. R.**, et al. 2013, ApJ, 770, 61.
The IMACS Cluster Building Survey. I: Description of the Survey and Analysis Methods.
65. Sorce, J. G., et al., 2013, ApJ, 765, 94.
Calibration of the Mid-Infrared Tully Fisher Relation.
64. Gladders, M. G., **Rigby, J. R.**, Sharon, K., Wuyts, E., et al. 2013, ApJ, 764, 177.
SGAS 143845.1+145407: A Big, Cool Starburst at Redshift 0.816
63. Livermore, R. C., et al., 2012, MNRAS, 427, 688.
Hubble Space Telescope H α imaging of star-forming galaxies at $z \sim 1-1.5$: evolution in the properties of giant HII regions.
62. Monson, A. J., Freedman, W. L., Madore, B. F., Persson, S. E., Scowcroft, V., Seibert, M., & **Rigby, J. R.** 2012, ApJ, 759, 146. *The Carnegie Hubble Program: The Leavitt Law at 3.6 and 4.5 micron in the Milky Way.*
61. Freedman, W. L. et al., 2012, ApJ, 758, 24.
Carnegie Hubble Program: A Mid-Infrared Calibration of the Hubble Constant.
60. Rujopakarn, W., Rieke, G. H., Papovich, C. J., Weiner, B. J., **Rigby, J. R.**, et al. 2012, ApJ, 755, 168. *LBT and Spitzer Spectroscopy of Star-forming Galaxies at $1 < z < 3$: Extinction and Star Formation Rate Indicators.*
59. Wuyts, E., **Rigby, J. R.**, Sharon, K., & Gladders, M. G. 2012, ApJ, 755, 73.
Constraints on the Low-Mass End of the Mass-Metallicity Relation at $z=1-2$ from Lensed Galaxies.
58. Wuyts, E., **Rigby, J.**, Gladders, M., Gilbank, D., & Sharon, K. 2012, ApJ, 745, 86.
Stellar Populations of Highly Magnified Lensed Galaxies: Young Starbursts at $z \sim 2$.
57. Sharon, K., Gladders, M. G., **Rigby, J.**, Wuyts, E., Koester, B., Bayliss, M. B., & Barrientos, F. 2012, ApJ, 745, 2. *Source Plane Reconstruction of the Bright Lensed Galaxy RCSGA 032727-132609*
56. Freedman, W. L. et al., 2011, AJ, 142, 192
The Carnegie Hubble Program.
55. Finkelstein, K. D., Papovich, C., Finkelstein, S. L., **Rigby, J. R.**, Rudnick, G., Willmer, C. N. A., Rieke, M., Egami, E., & Smith, J.-D., 2011, ApJ, 742, 108
Probing the SFR of the $z \sim 2.5$ Lensed Galaxy SMM J163554.2+661225 with Herschel SPIRE Observations.
54. Scowcroft, V., Freedman, W. L., Madore, B. F., Monson, A., Persson, S. E., Seibert,

- M., **Rigby, J. R.**, & Sturch, L. 2011, ApJ, 743, 76. *The Carnegie Hubble Program: The Leavitt Law at 3.6 μm and 4.5 μm in the Large Magellanic Cloud.*
53. Ballantyne, D. R., Draper, A. R., Madsen, K. K., **Rigby, J. R.**, & Treister, E., 2011, ApJ, 736, 56. *Lifting the Veil on Obscured Accretion: Active Galactic Nuclei Number Counts and Survey Strategies for Imaging Hard X-ray Missions.*
- 52. Rigby, J. R.**, Wuyts, E., Gladders, M., Sharon, K., & Becker, G., 2011, ApJ, 732, 59. *The Physical Conditions of a Lensed Star-forming Galaxy at $z=1.7$*
51. Hanish, D. J., Oey, M. S., **Rigby, J. R.**, de Mello, D. F., & Lee, J. 2010, ApJ, 724, 1. *A Multiwavelength Study on the Fate of Ionizing Radiation in Local Starbursts.*
50. Koester, B., Gladders, M., Hennawi, J., Sharon, K., Wuyts, E., **Rigby, J.**, Bayliss, M., & Dahle, H, 2010, ApJ, 723, 73. *Two Lensed $z \sim 3$ Lyman Break Galaxies Discovered in the SDSS Giant Arcs Survey.*
49. Shi, Y., Rieke, G., Smith, P., **Rigby, J.**, Hines, D., Donley, J., Schmidt, G., & Diamond-Stanic 2010, ApJ, 714, 115. *Unobscured Type 2 Active Galactic Nuclei.*
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