CURRICULUM VITAE
JULIA M. COMERFORD

Associate Professor
Department of Astrophysical and Planetary Sciences
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EMPLOYMENT

Associate Professor, University of Colorado, Boulder	2019 - present
Assistant Professor, University of Colorado, Boulder	2013 - 2019
NSF Astronomy and Astrophysics Postdoctoral Fellow, UT Austin	2011 - 2013
W.J. McDonald Postdoctoral Fellow, UT Austin	2010 - 2011

FIRST AUTHOR PUBLICATIONS

16. *"Towards a More Complete Optical Census of Active Galactic Nuclei, Via Spatially-Resolved Spectroscopy"*
Julia M. Comerford, James Negus, R. Scott Barrows, Dominika Wylezalek, Jenny E. Greene, Francisco Müller-Sánchez, & Rebecca Nevin, 2022, ApJ, 927, 23

15. *"A Catalog of 406 AGNs in MaNGA: A Connection between Radio-mode AGNs and Star Formation Quenching"*
Julia M. Comerford, James Negus, Francisco Müller-Sánchez, Michael Eracleous, Dominika Wylezalek, Thaisa Storchi-Bergmann, Jenny E. Greene, R. Scott Barrows, Rebecca Nevin, Namrata Roy, & Aaron Stemo, 2020, ApJ, 901, 159

14. *"The Origin of Double-Peaked Narrow Lines in Active Galactic Nuclei IV: Association with Galaxy Mergers"*
Julia M. Comerford, Rebecca Nevin, Aaron Stemo, Francisco Müller-Sánchez, R. Scott Barrows, Michael C. Cooper, & Jeffrey A. Newman, 2018, ApJ, 867, 66

13. *"An Active Galactic Nucleus Caught in the Act of Turning Off and On"*
Julia M. Comerford, R. Scott Barrows, Francisco Müller-Sánchez, Rebecca Nevin, Jenny E. Greene, David Pooley, Daniel Stern, & Fiona Harrison, 2017, ApJ, 849, 102

12. *"Shocks and Spatially Offset Active Galactic Nuclei Produce Velocity Offsets in Emission Lines"*
Julia M. Comerford, R. Scott Barrows, Jenny E. Greene, & David Pooley, 2017, ApJ, 847, 41

11. *"Merger-driven Fueling of Active Galactic Nuclei: Six Dual and Offset Active Galactic Nuclei Discovered with Chandra and Hubble Space Telescope Observations"*
Julia M. Comerford, David Pooley, R. Scott Barrows, Jenny E. Greene, Nadia L. Zakamska, Greg M. Madejski, & Michael C. Cooper, 2015, ApJ, 806, 219

10. *"Offset Active Galactic Nuclei as Tracers of Galaxy Mergers and Supermassive Black Hole Growth"*
Julia M. Comerford & Jenny E. Greene, 2014, ApJ, 789, 112

9. *"Dual Supermassive Black Hole Candidates in the AGN and Galaxy Evolution Survey"*
Julia M. Comerford, Kyle Schluns, Jenny E. Greene, & Richard J. Cool, 2013, ApJ, 777, 64

8. *"Kiloparsec-scale Spatial Offsets in Double-peaked Narrow-line Active Galactic Nuclei. I. Markers for Selection of Compelling Dual Active Galactic Nucleus Candidates"*
Julia M. Comerford, Brian F. Gerke, Daniel Stern, Michael C. Cooper, Benjamin J. Weiner, Jeffrey A. Newman, Kristin Madsen, & R. Scott Barrows, 2012, ApJ, 753, 42

7. *"Chandra Observations of a 1.9 kpc Separation Double X-ray Source in a Candidate Dual AGN Galaxy at z=0.16"*
Julia M. Comerford, David Pooley, Brian F. Gerke, & Greg M. Madejski, 2011, ApJ, 737, L19

6. *"Observed Scaling Relations for Strong Lensing Clusters: Consequences for Cosmology and Cluster Assembly"*
Julia M. Comerford, Leonidas A. Moustakas, & Priyamvada Natarajan, 2010, ApJ, 715, 162

5. *"1.75 h^{-1} kpc Separation Dual Active Galactic Nuclei at z=0.36 in the COSMOS Field"*
Julia M. Comerford, Roger L. Griffith, Brian F. Gerke, Michael C. Cooper, Jeffrey A. Newman, Marc Davis, & Daniel Stern, 2009, ApJ, 702, L82

4. *"Inspiralling Supermassive Black Holes: A New Signpost for Galaxy Mergers"*
Julia M. Comerford, Brian F. Gerke, Jeffrey A. Newman, Marc Davis, Renbin Yan, Michael C. Cooper, S.M. Faber, David C. Koo, Alison L. Coil, D.J. Rosario, & Aaron A. Dutton, 2009, ApJ, 698, 956

3. *"The Observed Concentration-Mass Relation for Galaxy Clusters"*
Julia M. Comerford & Priyamvada Natarajan, 2007, MNRAS, 379, 190

2. *"Mass Distributions of Hubble Space Telescope Galaxy Clusters from Gravitational Arcs"*
Julia M. Comerford, Massimo Meneghetti, Matthias Bartelmann, & Mischa Schirmer, 2006, ApJ, 642, 39

1. *"Constraining the Redshift z~6 Quasar Luminosity Function Using Gravitational Lensing"*
Julia M. Comerford, Zoltán Haiman, & Joop Schaye, 2002, ApJ, 580, 63

OTHER PUBLICATIONS

56. *"The Redshift Evolution of Ultraluminous X-ray Sources out to z~0.5: Comparison with X-ray Binary Populations and Contribution to the Cosmic X-ray Background"*
R. Scott Barrows, **Julia M. Comerford**, Daniel Stern, & Marianne Heida, 2022, ApJ accepted

55. *"The Seventeenth Data Release of the Sloan Digital Sky Surveys: Complete Release of MaNGA, MaStar, and APOGEE-2 Data"*
Abdurro'uf et al. (**JMC** is 67 out of 341 authors), 2022, ApJS, 259, 35

54. *"A Catalog of 204 Offset and Dual Active Galactic Nuclei (AGNs): Increased AGN Activation in Major Mergers and Separations under 4 kpc"*

Aaron Stemo, **Julia M. Comerford**, R. Scott Barrows, Daniel Stern, Roberto J. Assef, Roger L. Griffith, & Aimee Schechter, 2021, ApJ, 923, 36

53. *"A Catalog of Host Galaxies for WISE-selected AGN: Connecting Host Properties with Nuclear Activity and Identifying Contaminants"*
R. Scott Barrows, **Julia M. Comerford**, Daniel Stern, & Roberto J. Assef, 2021, ApJ, 922, 179

52. *"The Physics of the Coronal-line Region for Galaxies in Mapping Galaxies at Apache Point Observatory"*
James Negus, **Julia M. Comerford**, Francisco Müller-Sánchez, Jorge K. Barrera-Ballesteros, Niv Drory, Sandro B. Rembold, & Rogemar A. Riffel, 2021, ApJ, 920, 62

51. *"Accurate Identification of Galaxy Mergers with Stellar Kinematics"*
R. Nevin, L. Blecha, **Julia M. Comerford**, J.E. Greene, D.R. Law, D.V. Stark, K.B. Westfall, J.A.Vazquez-Mata, R. Smethurst, M. Argudo-Fernández, J.R. Brownstein, & N. Drory, 2021, ApJ, 912, 45

50. *"The Complex Gaseous and Stellar Environments of the Nearby Dual Active Galactic Nucleus Mrk 739"*
Dusán Tubín, Ezequiel Treister, Giuseppe D'Ago, Giacomo Venturi, Franz E. Bauer, George C. Privon, Michael J. Koss, Federica Ricci, **Julia M. Comerford**, & Francisco Müller-Sánchez, 2021, ApJ, 911, 100

49. *"SDSS-IV MaNGA: The Radial Profile of Enhanced Star Formation in Close Galaxy Pairs"*
Joshua L. Steffen, Hai Fu, **Julia M. Comerford**, Y. Sophia Dai, Shuai Feng, Arran C. Gross, & Rui Xue, 2021, ApJ, 909, 120

48. *"Space Telescope and Optical Reverberation Mapping Project. IX. Velocity-Delay Maps for Broad Emission Lines in NGC 5548"*
Horne et al. (**JMC** is 42 out of 155 authors), 2021, ApJ, 907, 76

47. *"Space Telescope and Optical Reverberation Mapping Project. XII. Broad-line Region Modeling of NGC 5548"*
Williams et al. (**JMC** is 46 out of 158 authors), 2020, ApJ, 902, 74

46. *"The 16th Data Release of the Sloan Digital Sky Surveys: First Release from the APOGEE-2 Southern Survey and Full Release of eBOSS Spectra"*
Ahumada et al. (**JMC** is 55 out of 314 authors), 2020, ApJS, 249, 3

45. *"The Karl G. Jansky Very Large Array Sky Survey (VLASS). Science Case and Survey Design"*
Lacy et al. (**JMC** is 42 out of 78 authors), 2020, PASP, 132, 1009

44. *"A Second Look at Twelve Candidate Dual AGNs Using BAYMAX"*
Adi Foord, Kayhan Gültekin, Rebecca Nevin, **Julia M. Comerford**, Edmund Hodges-Kluck, R. Scott Barrows, Andrew Goulding, & Jenny E. Greene, 2020, ApJ, 892, 29

43. *"The Molecular Gas in the NGC 6240 Merging Galaxy System at the Highest Spatial Resolution"*
Ezequiel Treister, Hugo Messias, George C. Privon, Neil Nagar, Anne M. Medling, Vivian U, Franz E. Bauer, Claudia Cicone, Loreto Barcos Muñoz, Aaron S. Evans, Francisco Müller-Sánchez, **Julia M.**

Comerford, Lee Armus, Chin-Shin Chang, Michael Koss, Giacomo Venturi, Kevin Schawinski, Caitlin Casey, Megan C. Urry, David B. Sanders, Nicholas Scoville, & Kartik Sheth, 2020, ApJ, 890, 149

42. *"A Catalog of AGN Observed with HST/ACS: Correlations between Star Formation and AGN Activity"*
Aaron Stemo, **Julia M. Comerford**, R. Scott Barrows, Daniel Stern, & Roberto Assef, 2020, ApJ, 888, 78

41. *"How to Fuel an AGN: Mapping Circumnuclear Gas in NGC 6240 with ALMA"*
Anne M. Medling, George C. Privon, Loreto Barcos-Munoz, Ezequiel Treister, Claudia Cicone, Hugo Messias, David B. Sanders, Nick Scoville, Vivian U, Lee Armus, Franz E. Bauer, Chin-Shin Chang, **Julia M. Comerford**, Aaron S. Evans, Claire E. Max, Francisco Müller-Sánchez, Neil Nagar, & Kartik Sheth, 2019, ApJ, 885, 21

40. *"A Catalog of Hyperluminous X-ray Sources and Intermediate-mass Black Hole Candidates out to High Redshifts"*
R. Scott Barrows, Mar Mezcua, & **Julia M. Comerford**, 2019, ApJ, 882, 181

39. *"Space Telescope and Optical Reverberation Mapping Project. VIII. Time Variability of Emission and Absorption in NGC 5548 Based on Modeling the Ultraviolet Spectrum"*
Kriss et al. (**JMC** is 57 out of 167 authors), 2019, ApJ, 881, 153

38. *"A Bayesian Analysis of SDSS J0914+0853, a Low-mass Dual AGN Candidate"*
Adi Foord, Kayhan Gültekin, Mark T. Reynolds, Edmund Hodges-Kluck, Edward M. Cackett, **Julia M. Comerford**, Ashley L. King, Jon M. Miller, & Jessie C. Runnoe, 2019, ApJ, 877, 17

37. *"The Fifteenth Data Release of the Sloan Digital Sky Survey: First Release of MaNGA-derived Quantities, Data Visualization Tools, and Stellar Library"*
Aguado et al. (**JMC** is 48 out of 234 authors), 2019, ApJS, 240, 23

36. *"Accurate Identification of Galaxy Mergers with Imaging"*
Rebecca Nevin, Laura Blecha, **Julia M. Comerford**, & Jenny E. Greene, 2019, ApJ, 872, 76

35. *"Spatially Offset Active Galactic Nuclei III: Discovery of Late-Stage Galaxy Mergers with the Hubble Space Telescope"*
R. Scott Barrows, **Julia M. Comerford**, & Jenny E. Greene, 2018, ApJ, 869, 154

34. *"Two Separate Outflows in the Dual Supermassive Black Hole System NGC 6240"*
Francisco Müller-Sánchez, Rebecca Nevin, **Julia M. Comerford**, Richard Davies, George C. Privon, & Ezequiel Treister, 2018, Nature, 556, 345

33. *"Optical, Near-IF and Sub-mm IFU Observations of the Nearby Dual AGN Mrk 463"*
Ezequiel Treister, George C. Privon, Lisa F. Sartori, Neil Nagar, Franz E. Bauer, Kevin Schawinski, Hugo Messias, Claudio Ricci, Vivian U, Caitlin Casey, **Julia M. Comerford**, Francisco Müller-Sánchez, Aaron S. Evans, Carolina Finlez, Michael Koss, David B. Sanders, & C. Megan Urry, 2018, ApJ, 854, 83

32. *"The Fourteenth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the*

extended Baryon Oscillation Spectroscopic Survey and from the second phase of the Apache Point Observatory Galactic Evolution Experiment"
Abolfathi et al. (**JMC** is 66 out of 348 authors), 2018, ApJS, 235, 42

31. *"The Origin of Double-Peaked Narrow Lines in Active Galactic Nuclei III: Feedback from Biconical Outflows"*
Rebecca Nevin, **Julia M. Comerford**, Francisco Müller-Sánchez, R. Scott Barrows, & Michael C. Cooper, 2018, MNRAS, 473, 2160

30. *"The Thirteenth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-IV Survey MApping Nearby Galaxies at Apache Point Observatory"*
Albareti et al. (**JMC** is 56 out of 338 authors), 2017, ApJS, 233, 25

29. *"Investigating the Evolution of the Dual AGN System ESO 509-IG066"*
P. Kosec, M. Brightman, D. Stern, F. Müller-Sánchez, M. Koss, K. Oh, R.J. Assef, P. Gandhi, F.A. Harrison, H. Jun, A. Masini, C. Ricci, D.J. Walton, **J. Comerford**, & G. Privon, 2017, ApJ, 850, 168

28. *"Observational Constraints on Correlated Star-formation and Active Galactic Nuclei in Late-stage Galaxy Mergers"*
R. Scott Barrows, **Julia M. Comerford**, Nadia L. Zakamska, & Michael C. Cooper, 2017, ApJ, 850, 27

27. *"Space Telescope and Optical Reverberation Mapping Project. VII. Understanding the UV Anomaly in NGC 5548 with X-ray Spectroscopy"*
Smitha Mathur et al. (**JMC** is 27 out of 150 authors), 2017, ApJ, 846, 55

26. *"Spatially Offset Active Galactic Nuclei II: Triggering in Galaxy Mergers"*
R. Scott Barrows, **Julia M. Comerford**, Jenny E. Greene, & David Pooley, 2017, ApJ, 838, 129

25. *"Space Telescope and Optical Reverberation Mapping Project. V. Optical Spectroscopic Campaign and Emission-line Analysis for NGC 5548"*
Liuyi Pei et al. (**JMC** is 28 out of 156 authors), 2017, ApJ, 837, 131

24. *"The Origin of Double-Peaked Narrow Lines in Active Galactic Nuclei II: Kinematic Classifications for the Population at z<0.1"*
Rebecca Nevin, **Julia M. Comerford**, Francisco Müller-Sánchez, R. Scott Barrows, & Michael C. Cooper, 2016, ApJ, 832, 67

23. *"The Nature of Active Galactic Nuclei with Velocity Offset Emission Lines"*
Francisco Müller-Sánchez, **Julia M. Comerford**, Daniel Stern, & Fiona A. Harrison, 2016, ApJ, 830, 50

22. *"Spatially Offset Active Galactic Nuclei I: Selection and Spectroscopic Properties"*
R. Scott Barrows, **Julia M. Comerford**, Jenny E. Greene, & David Pooley, 2016, ApJ, 829, 37

21. *"Origin and Properties of Dual and Offset AGN in a Cosmological Simulation at z=2"*
Lisa K. Steinborn, Klaus Dolag, **Julia M. Comerford**, Michaela Hirschmann, Rhea-Silvia Remus, & Adelheid F. Teklu, 2016, MNRAS, 458, 1013

20. *"The Origin of Double-peaked Emission Lines in Active Galactic Nuclei I: Very Large Array Detections of Dual AGNs and AGN Outflows"*
Francisco Müller-Sánchez, **Julia M. Comerford**, Rebecca Nevin, R. Scott Barrows, Michael C. Cooper, & Jenny E. Greene, 2015, ApJ, 813, 2

19. *"Spatially Resolved Imaging and Spectroscopy of Candidate Dual Active Galactic Nuclei"*
Rosalie C. McGurk, Claire E. Max, Anne M. Medling, Gregory A. Shields, & **Julia M. Comerford**, 2015, ApJ, 811, 14

18. *"Extended X-ray Emission from a Quasar-driven Superbubble"*
Jenny E. Greene, David Pooley, Nadia L. Zakamska, **Julia M. Comerford**, & Ai-Lei Sun, 2014, ApJ, 788, 54

17. *"Constraints on Two Active Galactic Nuclei in the Merger Remnant COSMOS J100043.15+020637.2"*
Joan M. Wrobel, **Julia M. Comerford**, & Enno Middelberg, 2014, ApJ, 782, 116

16. *"The Stellar Halos of Massive Elliptical Galaxies II: Detailed Abundance Ratios at Large Radius"*
Jenny E. Greene, Jeremy D. Murphy, Genevieve J. Graves, James E. Gunn, Sudhir Raskutti, **Julia M. Comerford**, & Karl Gebhardt, 2013, ApJ, 776, 64

15. *"Identification of Outflows and Candidate Dual Active Galactic Nuclei in SDSS Quasars at z=0.8—1.6"*
R. Scott Barrows, Claud H. Sandberg Lacy, Julia Kennefick, **Julia M. Comerford**, Daniel Kennefick, & Joel C. Berrier, 2013, ApJ, 769, 95

14. *"PHIBSS: Molecular Gas, Extinction, Star Formation and Kinematics in the z=1.5 Star Forming Galaxy EGS13011166"*
Reinhard Genzel, Linda J. Tacconi, Jason Kurk, Stijn Wuyts, Françoise Combes, Jonathan Freundlich, Alberto Bolatto, Michael C. Cooper, Roberto Neri, Raanan Nordon, Frédéric Bournaud, Andreas Burkert, **Julia M. Comerford**, Pierre Cox, Marc Davis, Natascha M. Förster Schreiber, Santiago García-Burillo, Javier Gracia-Carpio, Dieter Lutz, Thorsten Naab, Sarah Newman, Amélie Saintonge, Kristen Shapiro Griffin, Alice Shapley, Amiel Sternberg, & Benjamin Weiner, 2013, ApJ, 773, 68

13. *"PHIBSS: Molecular Gas Content and Scaling Relations in z=1—3 Normal Star Forming Galaxies"*
Linda J. Tacconi, Roberto Neri, Reinhard Genzel, Françoise Combes, Alberto Bolatto, Michael C. Cooper, Stijn Wuyts, Frédéric Bournaud, Andreas Burkert, **Julia M. Comerford**, Pierre Cox, Marc Davis, Natascha M. Förster Schreiber, Santiago García-Burillo, Javier Gracia-Carpio, Dieter Lutz, Thorsten Naab, Sarah Newman, Alain Omont, Amélie Saintonge, Kristen Shapiro Griffin, Alice Shapley, Amiel Sternberg, & Benjamin Weiner, 2013, ApJ, 768, 74

12. *"Submillimeter Follow-up of WISE-selected Hyperluminous Galaxies"*
Jingwen Wu, Chao-Wei Tsai, Jack Sayers, Dominic Benford, Carrie Bridge, Andrew Blain, Peter R.M. Eisenhardt, Daniel Stern, Sara Petty, Roberto Assef, Shane Bussmann, **Julia M. Comerford**, Roc Cutri, Neal J. Evans II, Roger Griffith, Thomas Jarrett, Sean Lake, Carol Lonsdale, Jeonghee Rho, S. Adam Stanford, Benjamin Weiner, Edward L. Wright, & Lin Yan, 2012, ApJ, 756, 96

11. *"The Advanced Camera for Surveys General Catalog: Structural Parameters for Approximately*

Half a Million Galaxies"
Roger L. Griffith, Michael C. Cooper, Jeffrey A. Newman, Leonidas A. Moustakas, Daniel Stern, **Julia M. Comerford**, Marc Davis, Jennifer M. Lotz, Marco Barden, Christopher J. Conselice, Peter L. Capak, S.M. Faber, J. Davy Kirkpatrick, Anton M. Koekemoer, David C. Koo, Kai G. Noeske, Nick Scoville, Kartik Sheth, Patrick Shopbell, Christopher N.A. Willmer, & Benjamin Weiner, 2012, ApJS, 200, 9

10. *"The Stellar Halos of Massive Elliptical Galaxies"*
Jenny E. Greene, Jeremy D. Murphy, **Julia M. Comerford**, Karl Gebhardt, & Joshua J. Adams, 2012, ApJ, 750, 32

9. *"A Candidate Dual Active Galactic Nucleus at z=1.175"*
R. Scott Barrows, Daniel Stern, Kristin Madsen, Fiona Harrison, J. Roberto Assef, **Julia M. Comerford**, Michael C. Cushing, Christopher D. Fassnacht, Anthony Gonzalez, Roger Griffith, Ryan Hickox, J. Davy Kirkpatrick, & David J. Lagattuta, 2012, ApJ, 744, 7

8. *"Systematic Blueshift of Line Profiles in the Type IIn Supernova 2010jl: Evidence for Post-shock Dust Formation?"*
Nathan Smith, Jeffrey M. Silverman, Alexei V. Filippenko, Michael C. Cooper, Thomas Matheson, Fuyan Bian, Benjamin J. Weiner, & **Julia M. Comerford**, 2012, AJ, 143, 17

7. *"The Metallicity Dependence of the CO $\rightarrow H_2$ Conversion Factor in z≥1 Star Forming Galaxies"*
Reinhard Genzel, Linda J. Tacconi, Françoise Combes, Alberto Bolatto, Roberto Neri, Amiel Sternberg, Michael C. Cooper, Nicolas Bouché, Frédéric Bournaud, Andreas Burkert, **Julia M. Comerford**, Pierre Cox, Marc Davis, Natascha M. Förster Schreiber, Santiago García-Burillo, Javier Gracia-Carpio, Dieter Lutz, Thorsten Naab, Sarah Newman, Amélie Saintonge, Kristen Shapiro, Alice Shapley, & Benjamin Weiner, 2012, ApJ, 746, 69

6. *"Broad-line Reverberation in the Kepler-field Seyfert Galaxy Zw 229-015"*
Aaron J. Barth, My L. Nguyen, Matthew A. Malkan, Alexei V. Filippenko, Weidong Li, Varoujan, Gorjian, Michael D. Joner, Vardha Nicola Bennert, Janos Botyanszki, S. Bradley Cenko, Michael Childress, Jieun Choi, **Julia M. Comerford**, & 35 others, 2011, ApJ, 732, 121

5. *"A Study of the Gas-Star Formation Relation over Cosmic Time"*
Reinhard Genzel, Linda J. Tacconi, Javier Gracia-Carpio, Amiel Sternberg, Michael C. Cooper, Kristen L. Shapiro, Alberto Bolatto, Nicolas Bouché, Frédéric Bournaud, Andreas Burkert, Françoise Combes, **Julia M. Comerford**, Pierre Cox, Marc Davis, Natascha M. Förster Schreiber, Santiago García-Burillo, Dieter Lutz, Thorsten Naab, Roberto Neri, Alain Omont, Alice Shapley, & Benjamin Weiner, 2010, MNRAS, 407, 209

4. *"High Molecular Gas Fractions in Normal Massive Star Forming Galaxies in the Young Universe"*
Linda J. Tacconi, Reinhard Genzel, Roberto Neri, Pierre Cox, Michael C. Cooper, Kristen L. Shapiro, Alberto Bolatto, Nicolas Bouché, Frédéric Bournaud, Andreas Burkert, Françoise Combes, **Julia M. Comerford**, Marc Davis, Natascha M. Förster Schreiber, Santiago García-Burillo, Javier Gracia-Carpio, Dieter Lutz, Thorsten Naab, Alain Omont, Alice Shapley, Amiel Sternberg, & Benjamin Weiner, 2010, Nature, 463, 781

3. *"SDSS J1536+0441: An Extreme Double Peaked Emitter, Not a Binary Black Hole"*

Ryan Chornock, Joshua S. Bloom, Stephen B. Cenko, Jeffrey M. Silverman, Alexei V. Filippenko, Michael D. Hicks, Kenneth J. Lawrence, Philip Chang, **Julia M. Comerford**, Matthew R. George, Maryam Modjaz, Jeffrey S. Oishi, Eliot Quataert, & Linda E. Strubbe, 2009, The Astronomer's Telegram, #1955

2. *"Comparisons between Isothermal and NFW Mass Profiles for Strong-Lensing Galaxy Clusters"* Chenggang Shu, Binglu Zhou, Matthias Bartelmann, **Julia M. Comerford**, J.-S. Huang, & Yannick Mellier, 2008, ApJ, 685, 70

1. *"Antibias in Clusters: The Dependence of the Mass-to-Light Ratio on Cluster Temperature"* Neta A. Bahcall & **Julia M. Comerford**, 2002, ApJ, 565, L5

GRANTS AS PI

NSF Partnerships in Astronomy & Astrophysics Research and Education (PAARE)	2022
NASA Astrophysics Data Analysis Program	2021
NSF Alliances for Graduate Education and the Professoriate	2021, 2022
NSF CAREER	2019
Chandra X-ray Observatory	2018
NSF AAG	2017
Chandra X-ray Observatory	2016
Hubble Space Telescope	2015
ASSETT Development Award, CU Boulder	2015
Strategic University Research Partnership, Colorado/JPL	2015
NASA Astrophysics Data Analysis Program	2014
Chandra X-ray Observatory	2014
Chandra X-ray Observatory	2013
Hubble Space Telescope	2013
Chandra X-ray Observatory	2011
Hubble Space Telescope	2011

STUDENTS AND POSTDOCS ADVISED

Joe Simon	postdoc	2020 - present
Aimee Schechter	graduate student	2019 - present
Jimmy Negus	graduate student	2017 - present
Aaron Stemo	graduate student	2016 - 2021
Scott Barrows	postdoc	2013 - present
Rebecca Nevin	graduate student	2013 - 2019
Francisco Müller-Sánchez	postdoc	2013 - 2018
Skyler Shaver (honors thesis)	undergraduate	2015 - 2016
Brian Davis (UROP and honors thesis)	undergraduate	2015 - 2016
Jordan Seneca (UROP)	undergraduate	2015
Kirsten Pederson	undergraduate	2014
Kyle Schluns	undergraduate	2011 - 2013
James Diekmann	undergraduate	2010 - 2013

Invited Colloquia

Iowa State University	Mar. 7, 2022
University of Florida	Feb. 11, 2021
Montana State University	Sep. 21, 2018
New York University (Astrophysics Seminar)	Oct. 20, 2017
Texas A&M (Astronomy Seminar)	Sep. 25, 2017
University of Washington	Jan. 12, 2017
Caltech	Oct. 12, 2016
National Radio Astronomy Observatory (NRAO); Socorro, NM	Apr. 29, 2016
University of Arizona	Mar. 10, 2016
University of Denver	May 13, 2015
University of Utah (High Energy and Astrophysics Seminar)	Dec. 5, 2014
University of Utah	Dec. 4, 2014
Harvard CfA	Nov. 13, 2014
Jet Propulsion Laboratory / Caltech	Oct. 23, 2014
University of California, Irvine (Astrophysics Seminar)	Dec. 3, 2013
University of Wyoming	Oct. 25, 2013
MIT	Oct. 22, 2013
Columbia University	Oct. 3, 2012
Harvard CfA/ITC	Sep. 20, 2012
University of Illinois	Mar. 27, 2012
University of Nevada, Las Vegas	Mar. 1, 2012
University of Colorado, Boulder	Feb. 23, 2012
NASA Goddard Space Flight Center	Feb. 14, 2012
University of Michigan	Feb. 2, 2012
Penn State University	Oct. 13, 2010

Invited Conference Talks

Building Bridges: Towards a Unified Picture of Stellar and Black Hole Binary Accretion and Evolution, KITP, Santa Barbara, CA	Mar. 14-17, 2022
Clash of the Titans: The Enigmatic Role of Mergers in Galaxy Evolution, Leiden	Mar. 8-12, 2021
Double-Peak Emission Line Galaxies, Paris	Feb. 22-24, 2021
Month of MaNGA	Oct. 26, 2021
Exploring Supermassive Black Holes, Princeton, NJ	Oct. 14-16, 2020
Division on Dynamical Astronomy, Boulder, CO	Jun. 10-13, 2019
AAS plenary talk, Denver, CO	Jun. 6, 2018
Very Long Baseline Interferometry Futures meeting, Lubbock, TX	Mar. 13, 2018
Merging Galaxies and Gravitational Waves: From Mpc to mpc, Grapevine, TX	Jan. 3-7, 2017
The Physics of Supermassive Black Hole Formation and Feedback, Annapolis, MD	Oct. 12-14, 2015
Unveiling the AGN/Galaxy Evolution Connection, Puerto Varas, Chile	Mar. 9-13, 2015
Massive Black Holes: Birth, Growth, and Impact, Santa Barbara, CA	Aug. 5-9, 2013
A Universe of Black Holes, Santa Barbara, CA	Jul. 11, 2013
Binary Black Holes and Dual AGN, Tucson, AZ	Nov. 29-30, 2012
Galaxy Mergers from the Largest to the Smallest Scales, Anchorage, AK	Jun. 11-14, 2012
Interacting Galaxies and Binary Quasars, Trieste, Italy	Apr. 2-5, 2012
Fellows at the Frontiers of Astronomy, Evanston, IL	Aug. 31 – Sep. 3, 2011

Single and Double Black Holes in Galaxies, Ann Arbor, MI — Aug. 22-25, 2011

CU Boulder Teaching

ASTR 5720: Galaxies (graduate)	Spring 2014, Spring 2018
ASTR 3830: Astrophysics 2 – Galactic and Extragalactic (undergraduate majors)	Spring 2015, Spring 2016, Spring 2019, Spring 2021
ASTR 2030: Black Holes (undergraduate nonmajors)	Spring 2017, Fall 2018
ASTR 2010: Modern Cosmology (undergraduate nonmajors)	Fall 2013, Fall 2015, Fall 2016, Fall 2017, Fall 2021, Fall 2022
ASTR 6000: Astrophysics Seminar (graduate)	Fall 2015

Professional Service

Member of LISA multi-messenger working group	2021 - present
SOC member for the conference "Computational Astrophysics in the ngVLA Era: Synergistic Simulations, Theory, and Observations"	2021 - 2022
SOC member for the conference "Accretion and Outflow, from Planets to AGN"	2019 - 2020
Session chair at Division on Dynamical Astronomy conference	2019
One of four organizers (and the "organizer in charge of diversity") for "The Astrophysics of Massive Black Hole Mergers: From Galaxy Mergers to the Gravitational Wave Regime", a workshop at the Aspen Center for Physics	2018
SOC member for the conference "Astrophysical Frontiers in the Next Decade and Beyond"	2017 - 2018
Session chair for "Probing Early-type Galaxies", AAS	2016
Reviewer for NASA Mid-Scale Innovations Program	2014
Panel reviewer for Chandra	2014, 2021
Panel reviewer for NSF	2013, 2014, 2016, 2017, 2018
Reviewer for data analytics textbook	2012 - 2013
Referee for ApJ, ApJ Letters, ApJ Supplement, MNRAS, MNRAS Letters, A&A, Nature, Science	2010 - present

Outreach

Founder and leader of Rocky Mountain National Park astronomy intern program	2019 - present
Founder and leader of "Cosmic Mashups: Gravity, Galaxies, and Supermassive Black Holes", a full-length planetarium show recorded in English and Spanish	2018 - present
Created 10 women in science posters that were hung on the main physics/astrophysics classroom corridor	2018 - 2019
TEDx Boulder talk, "Song of the Universe"	2017
Obtained funding, and with Jorge Cham, created the "Supermassive Black Holes Explained" video for PhD Comics	2015 - 2016

Public talks in schools and community organizations 2010 - present