

Curriculum Vitae and Table of Contents
David R. Ballantyne, Ph.D.
 Professor, School of Physics
 Associate Chair for Graduate Studies, School of Physics

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David R. Ballantyne, Ph.D.
 Professor and Associate Chair for Graduate Studies
 School of Physics
 Georgia Institute of Technology

I. Earned Degrees

B.Sc.	Physics & Astronomy	1993-1998	University of Victoria, British Columbia, Canada
M.Sc.	Astronomy & Physics	1998-1999	University of Toronto, Ontario, Canada (advisor: n/a)
Ph.D.	Astronomy	1999-2002	University of Cambridge (advisor: A.C. Fabian, FRS)

II. Employment History

2002-2005	Postdoctoral Fellow, Canadian Institute for Theoretical Astrophysics (advisor: n/a)
2005-2008	Prize Postdoctoral Fellow in Theoretical Astrophysics, University of Arizona (advisor: n/a)
2008-2014	Assistant Professor, School of Physics, Georgia Institute of Technology
2014-2020	Associate Professor, School of Physics, Georgia Institute of Technology
2017-present	Associate Chair for Graduate Studies, School of Physics, Georgia Institute of Technology
2020-present	Professor, School of Physics, Georgia Institute of Technology

III. Honors and Awards

2019	Two “Thank A Teacher” Certificates from students in PHYS 3123 (Electrodynamics)
2016	NASA Group Achievement Award to <i>NuSTAR</i> Extragalactic Survey Team
2015	NASA Group Achievement Award to <i>NuSTAR</i> Science Team
2014	One “Thank A Teacher” Certificate from a student in PHYS 2212 (Physics II)
2013	One “Thank A Teacher” Certificate from a student in PHYS 2212 (Physics II)
2012	Three “Thank A Teacher” Certificates from students in PHYS 2212 (Physics II)
2011	School of Physics Nominee for Sigma Xi Young Faculty Award (Georgia Tech)
2009	One “Thank A Teacher” Certificate from a student in PHYS 3123 (Electrodynamics)
2009	Nominated for David and Lucile Packard Fellowship (Georgia Tech)
2005	Theoretical Astrophysics Program Prize Fellowship, University of Arizona
2007	Awarded observing time on the <i>Suzaku</i> Telescope (The available observing time was initially oversubscribed by a factor of 4.4)
2006	Awarded observing time on the <i>XMM-Newton</i> Telescope (The available observing time was initially oversubscribed by a factor of 7.4)
2004	Awarded observing time on the <i>XMM-Newton</i> Telescope (The available observing time was initially oversubscribed by a factor of 7.6)
2003	Awarded observing time on the <i>XMM-Newton</i> Telescope (The available observing time was initially oversubscribed by a factor of 9.5)
2003	Awarded observing time on the <i>Rossi X-ray Timing Explorer</i> (The available observing time was initially oversubscribed by a factor of 6.9)
2002	Natural Sciences and Engineering Research Council (NSERC) of Canada Postdoctoral Fellowship
1999	Commonwealth Fellowship, University of Cambridge
1999	Isaac Newton Studentship (declined), University of Cambridge

IV. Research, Scholarship, and Creative Activities

* next to item number indicates work done at Georgia Tech

^{PD} indicates Ballantyne group postdoc author

^G indicates Ballantyne group graduate student author

^{UG} indicates Ballantyne group undergraduate author

^{HS} indicates Ballantyne group high school author

All student co-authors are bolded.

Google Scholar profile at <https://scholar.google.com/citations?user=RoyVswgAAAAJ&hl=en>

H index = 48; 7710 citations since 2000

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A. Published Books, Book Chapters, and Edited Volumes

A1. Books

No data

A2. Refereed Book Chapters

No data

A3. Edited Volumes

- 1*. Brandt, W.N., Anderson, S.F., Ballantyne, D.R., Barth, A.J., Brunner, R.J., Chartas, G., de Vries, W.H., Eracleous, M., Fan, X., Gibson, R.R., Green, R.F., Lacy, M., Lira, P., Newman, J.A., Richards, G.T., Schneider, D.P., Shemmer, O., Smith, H.A., Strauss, M.A. & Vanden Berk, D., 2009, Active Galactic Nuclei, In **LSST Science Book**, Version 2.0 (arXiv: 0912.0201)

B. Refereed Publications and Submitted Articles

B1. Published and Accepted Journal Articles

- 152*. Annuar, A., Alexander, D.M., Gandhi, P., Lansbury, G.B., Asmus, D., Baloković, M., Ballantyne, D.R., Bauer, F.E., Boorman, P.G., Brandt, W.N., Brightman, M., Chen, C.-T.J., Del Moro, A., Farrah, D., Harrison, F.A., Koss, M.J., Lanz, L., Marchesi, S., Masini, A., Nardini, E., Ricci, C., Stern, D. & Zappacosta, L., 2020, *NuSTAR Observations of Four Nearby X-ray Faint AGN: Low Luminosity or Heavy Obscuration?*, Monthly Notices of the Royal Astronomical Society, in press.
- 151*. Ballantyne, D.R. & **Xiang, X.**^{UG}, 2020, *Sustaining a Warm Corona in Active Galactic Nuclei Accretion Discs*, Monthly Notices of the Royal Astronomical Society, Vol. 496, p. 4255.
- 150*. **Li, K.**^G, Bogdanović, T. & Ballantyne, D.R., 2020, *Pairing of Massive Black Holes in Merger Galaxies Driven by Dynamical Friction*, The Astrophysical Journal, Vol. 896, p. 113.
- 149*. Fragile, P.C., Ballantyne, D.R. & Blankenship, A., 2020, *Interactions of Type I Bursts with Thin Accretion Disks*, Nature Astronomy, Vol. 4, p. 541.
- 148*. Ballantyne, D.R., 2020, *Examining the physical conditions of a warm corona in active galactic nuclei accretion discs*, Monthly Notices of the Royal Astronomical Society, Vol. 491, p. 3553.
- 147*. Bult, P., Jaisawal, G., Güver, T., Strohmayer, T.E., Altamirano, D., Arzoumanian, Z., Ballantyne, D.R., Chakrabarty, D., Chenevez, J., Gendreau, K.C., Guillot, S. & Ludlam, R.M., 2019, *A NICER Thermonuclear Burst from the Millisecond X-Ray Pulsar SAX J1808.4-3658*, The Astrophysical Journal, Vol. 885, p. L1.
- 146*. Jaisawal, G., Wilson-Hodge, C.A., Fabian, A.C., Naik, S., Chakrabarty, D., Kretschmar, P., Ballantyne, D.R., Ludlum, R.M., Chenevez, J., Altamirano, D., Arzoumanian, Z., Fürst, F., Gendreau, K.C., Guillot, S., Malacaria, C., Miller, J.M., Stevens, A.L. & Wolff, M.T., 2019, *An Evolving Broad Iron Line from the First Galactic Ultraluminous X-ray Pulsar Swift J0243.6+6124*, The Astrophysical Journal, Vol. 885, p. 18.
- 145*. **Avirett-Mackenzie, M.S.**^{UG} & Ballantyne, D.R., 2019, *The evolving X-ray spectrum of active galactic nuclei: evidence for an increasing reflection fraction with redshift*, Monthly Notices of the Royal Astronomical Society, Vol. 486, p. 3488.
- 144*. **Gohil, R.**^G, Ballantyne, D.R. & Li, G., 2019, *The stellar remnants of high redshift nuclear starburst discs: a potential origin for nuclear star clusters?*, Monthly Notices of the Royal Astronomical Society, Vol. 485, p. 2935.
- 143*. Porquet, D., Done, C., Reeves, J.N., Grosso, N., Marinucci, A., Matt, G., Lobban, A., Nardini, E.,

- Braito, V., Marin, F., Kubota, A., Ricci, C., Koss, M., Stern, D., Ballantyne, D. & Farrah, D., 2019, *A deep X-ray view of the bare AGN Ark 120. V. Spin determination from disc-Comptonisation efficiency method*, *Astronomy & Astrophysics*, Vol. 623, p. A11.
- 142*. Garcia, J.A., Kara, E., Walton, D., Beuchert, T., Dauser, T., Gatuzz, E., Balokovic, M., Steiner, J.F., Tombesi, F., Connors, R.M.T., Kallman, T.R., Harrison, F.A., Fabian, A., Wilms, J., Stern, D., Lanz, L., Ricci, C. & Ballantyne, D.R., 2019, *Physical Implications of Warm Comptonization and Relativistic Reflection for the Soft Excess in AGN: The case of Mrk 509 Observed with NuSTAR and Suzaku*, *The Astrophysical Journal*, Vol. 871, p. 88.
- 141*. Yan, W., Hickox, R.C., Hainline, K.N., Stern, D., Lansbury, G., Alexander, D.M., Hviding, R.E., Assef, R., J., Ballantyne, D.R., Dipompeo, M.A., Lanz, L., Carroll, C.M., Koss, M., Lamberti, I., Civano, F., Del Moro, A., Gandhi, P. & Myers, A.D., 2019, *NuSTAR and Keck Observations of Heavily Obscured Quasars Selected by WISE*, *The Astrophysical Journal*, Vol. 870, p. 33.
- 140*. Lanz, L., Hickox, R.C., Balokovic, M., Shimizu, T., Ricci, C., Goulding, A.D., Ballantyne, D.R., Bauer, F.E., Chen, C.-T. J., Del Moro, D., Farrah, D., Koss, M.J., LaMassa, S., Masini, A. & Zappacosta, L., 2019, *Investigating the Covering Fraction Distribution of Swift/BAT AGN with X-ray and IR Observations*, *The Astrophysical Journal*, Vol. 870, p. 26.
- 139*. Fragile, P.C., Ballantyne, D.R., Maccarone, T.J. & Witry, J.W.L., 2018, *Simulating the Collapse of a Thick Accretion Disk due to a Type I X-ray Burst from a Neutron Star*, *The Astrophysical Journal*, Vol. 867, p. L28.
- 138*. Buisson, D.J.K., Parker, M.L., Kara, E., Vasudevan, R.V., Lohfink, A.M., Pinto, C., Fabian, A.C., Ballantyne, D.R., Boggs, S.E., Christensen, F.E., Craig, W.W., Farrah, D., Hailey, C.J., Harrison, F.A., Ricci, C., Stern, D., Walton, D.J., Zhang, W.W., 2018, *NuSTAR observations of Mrk 766: distinguishing reflection from absorption*, *Monthly Notices of the Royal Astronomical Society*, Vol. 480, p. 3689.
- 137*. Ursini, F., Petrucci, P.-O., Matt, G., Bianchi, S., Cappi, M., Dadina, M., Grandi, P., Torresi, E., Ballantyne, D.R., De Marco, B., De Rosa, A., Giroletti, M., Malzac, J., Marinucci, A., Ponti, G. & Tortosa, A., 2018, *Radio/X-ray monitoring of the broad-line radio galaxy 3C 382. High-energy view with XMM-Newton and NuSTAR*, *Monthly Notices of the Royal Astronomical Society*, Vol. 478, p. 2663.
- 136*. Masini, A., Ciavno, F., Comastri, A., Fornasini, F., Ballantyne, D.R., Lansbury, G., Treister, E., Alexander, D.M., Boorman, P.G., Brandt, W.N., Farrah, D., Gandhi, P., Harrison, F.A., Hickox, R.C., Kocevski, D.D., Lanz, L., Marchesi, S., Puccetti, S., Ricci, C., Saez, C., Stern, D. & Zappacosta, L., 2018, *The NuSTAR Extragalactic Surveys: Source Catalog and the Compton-Thick Fraction in the UDS Field*, *The Astrophysical Journal Supplement Series*, Vol. 235, p. 17.
- 135*. **Gohil, R.**^G & Ballantyne, D.R., 2018, *The Shape of the Cosmic X-ray Background: Nuclear Starburst Discs and the Redshift Evolution of AGN Obscuration*, *Monthly Notices of the Royal Astronomical Society*, Vol. 475, p. 3543.
- 134*. Zappacosta, L., Comastri, A., Civano, F., Puccetti, S., Fiore, F., Aird, J., Del Moro, A., Lansbury, G.B., Lanzuisi, G., Goulding, A., Mullaney, J.R., Stern, D., Ajello, M., Alexander, D.M., Ballantyne, D.R., Bauer, F.E., Brandt, W.N., Chen, C.-T.J., Farrah, D., Harrison, F.A., Gandhi, P., Lanz, L., Masini, A., Marchesi, S., Ricci, C. & Treister, E., 2018, *The NuSTAR Extragalactic Surveys: X-ray Spectroscopic Analysis of the Bright Hard-Band Sample*, *The Astrophysical Journal*, Vol. 854, p. 33.
- 133*. Porquet, D., Reeves, J.N., Matt, G., Marinucci, A., Nardini, E., Braito, V., Lobban, A., Ballantyne, D.R., Boggs, S.E., Christensen, F.E., Dauser, T., Farrah, D., Garcia, J., Hailey, C.J., Harrison, F., Stern, D., Tortosa, A., Ursini, F. & Zhang, W.W., 2018, *A deep X-ray view of the bare AGN Ark 120. IV. XMM-Newton and NuSTAR spectra dominated by two temperature (warm, hot) Comptonization processes*, *Astronomy & Astrophysics*, Vol. 609, p. A42.
- 132*. Sartori, L.F., Schawinski, K., Koss, M.J., Ricci, C., Treister, E., Stern, D., Lansbury, G., Maksym,

- W.P., Baloković, M., Gandhi, P., Keel, W.C. & Ballantyne, D.R., 2018, *Joint NuSTAR and Chandra analysis of the obscured quasar in IC 2494 – Hanny's Voorwerp system*, Monthly Notices of the Royal Astronomical Society, Vol. 474, p. 2444.
- 131*. Del Moro, A., Alexander, D.M., Aird, J.A., Bauer, F.E., Civano, F., Mullaney, J.R., Ballantyne, D.R., Brandt, W.N., Comastri, A., Gandhi, P., Harrison, F.A., Lansbury, G.B., Lanz, L., Luo, B., Marchesi, S., Puccetti, S., Ricci, C., Saez, C., Stern, D., Treister, E. & Zappacosta, L., 2017, *The NuSTAR Extragalactic Survey: Average Broad-band X-ray Spectral Properties of the NuSTAR Detected AGN*, The Astrophysical Journal, Vol. 849, p. 57.
- 130*. Ballantyne, D.R., 2017, *Ionised Accretion Discs in Active Galactic Nuclei: The Effects of a Lamppost with a Variable Height*, Monthly Notices of the Royal Astronomical Society Letters, Vol. 472, p. L60.
- 129*. Lansbury, G.B., Alexander, D.M., Aird, J., Gandhi, P., Stern, D., Koss, M., Ajello, M., Assef, R.J., Ballantyne, D.R., Baloković, M., Bauer, F.E., Brandt, W.N., Brightman, M., Chen, C.-T.J., Civano, F., Comastri, A., Del Moro, A., Fuentes, C., Harrison, F.A., Marchesi, S., Masini, A., Mullaney, J.R., Ricci, C., Saez, C., Tomsick, J.A., Treister, E., Walton, D.J. & Zappacosta, L., 2017, *The NuSTAR Serendipitous Survey: Hunting for the Most Extreme Obscured AGN at > 10 keV*, The Astrophysical Journal, Vol. 846, p. 20.
- 128*. Brightman, M., Baloković, M., Ballantyne, D.R., Bauer, F.E., Boorman, P., Buchner, J., Brandt, W.N., Comastri, A., Del Moro, A., Farrah, D., Harrison, F.A., Koss, M., Lanz, L., Masini, A., Ricci, C., Stern, D., Vasudevan, R. & Walton, D.J., 2017, *X-ray Bolometric Corrections for Compton-Thick Active Galactic Nuclei*, The Astrophysical Journal, Vol. 844, p. 10.
- 127*. Lohfink, A.M., Fabian, A.C., Ballantyne, D.R., Boggs, S.E., Boorman, P., Christensen, F.E., Craig, W.W., Farrah, D., García, J., Hailey, C.J., Harrison, F.A., Ricci, C., Stern, D. & Zhang, W.W., 2017, *The X-Ray Reflection Spectrum of the Radio-Loud Quasar 4C 74.26*, The Astrophysical Journal, Vol. 841, p. 80.
- 126*. **Gohil, R.^G** & Ballantyne, D.R., 2017, *Modeling the Vertical Structure of Nuclear Starburst Discs: A Possible Source of AGN Obscuration at $z \sim 1$* , Monthly Notices of the Royal Astronomical Society, Vol. 468, p. 4944.
- 125*. Keek, L., Iwakiri, W., Serino, M., Ballantyne, D.R., in 't Zand, J.J.M. & Strohmayer, T.E., 2017, *X-ray Reflection and an Exceptionally Long Thermonuclear Helium Burst from IGR J17062-6143*, The Astrophysical Journal, Vol. 836, p.111.
- 124*. Zoghbi, A., Matt, G., Miller, J.M., Lohfink, A.M., Walton, D.J., Ballantyne, D.R., García, J.A., Stern, D., Koss, M.J., Farrah, D., Harrison, F.A., Boggs, S.E., Christensen, F.E., Craig, W., Hailey, C.J. & Zhang, W.W., 2017, *A Long Look at MCG-5-23-16 with NuSTAR: I. - Relativistic Reflection and Coronal Properties*, The Astrophysical Journal, Vol 836, p. 2.
- 123*. Lansbury, G., Stern, D., Aird, J., Alexander, D.M., Fuentes, C., Harrison, F.A., Treister, E., Bauer, F.E., Tomsick, J.A., Baloković, M., Del Moro, A., Gandhi, P., Ajello, M., Annuar, A., Ballantyne, D.R., Boggs, S.E., Brandt, W.N., Brightman, M., Chen, C.-T.J., Christensen, F.E., Civano, F., Comastri, A., Craig, W.W., Forster, K., Grefenstette, B.W., Hailey, C.J., Hickox, R.C., Jiang, B., Jun, H.D., Koss, M., Marchesi, S., Melo, A.D., Mullaney, J.R., Noirot, G., Schulze, S., Walton, D.J., Zappacosta, L. & Zhang, W.W., 2017, *The NuSTAR Serendipitous Survey: The 40 Month Catalog and the Properties of the Distant High Energy X-ray Source Population*, The Astrophysical Journal, Vol. 836, p. 99.
- 122*. Annuar, A., Alexander, D.M., Gandhi, P., Lansbury, G.B., Asmus, D., Ballantyne, D.R., Bauer, F.E., Boggs, S.E., Boorman, P.G., Brandt, W.N., Brightman, M., Christensen, F.E., Craig, W.W., Farrah, D., Goulding, A.D., Hailey, C.J., Harrison, F.A., Koss, M.J., LaMassa, S.M., Murray, S.S., Ricci, C., Rosario, D.J., Stanley, F., Stern, D. & Zhang, W., 2017, *A New Compton-Thick AGN in Our Cosmic Backyard: Unveiling the Buried Nucleus in NGC 1448 with NuSTAR*, The Astrophysical Journal, Vol. 836, p. 165.
- 121*. Tortosa, A., Marinucci, A., Matt, G., Bianchi, S., La Franca, F., Ballantyne, D.R., Boorman, P.G.,

- Fabian, A.C., Farrah, D., Fuerst, F., Gandhi, P., Harrison, F.A., Koss, M.J., Ricci, C., Stern, D., Ursini, F. & Walton, D.J., 2017, *Broadband X-ray spectral analysis of the Seyfert 1 galaxy GRS 1734-292*, Monthly Notices of the Royal Astronomical Society, Vol. 466, p. 4193.
- 120*. Ricci, C., Assef, R.J., Stern, D., Nikutta, R., Alexander, D.M., Asmus, D., Ballantyne, D.R., Bauer, F.E., Blain, A.W., Boggs, S., Boorman, P.G., Brandt, W.N., Brightman, M., Chen, C.-T., J., Christensen, F.E., Comastri, A., Craig, W.W., Díaz-Santos, T., Eisenhardt, P.R., Farrah, D., Gandhi, P., Hailey, C.J., Harrison, F.A., Jun, H.D., Koss, M.J., LaMassa, S., Lansbury, G., Markwardt, C.B., Stalevski, M., Stanley, F., Treister, E., Tsai, C.-W., Walton, D.J., Wu, J.W. & Zhang, W.W., 2017, *NuSTAR Observations of WISE J1036+0449, A Galaxy at $z \sim 1$ Obscured by Hot Dust*, The Astrophysical Journal, Vol. 835, p. 105.
- 119*. Ballantyne, D.R., 2017, *Clustering, Cosmology and a New Era of Black Hole Demographics – I. The Conditional Luminosity Function of Active Galactic Nuclei*, Monthly Notices of the Royal Astronomical Society, Vol. 464, p. 613.
- 118*. Ballantyne, D.R., 2017, *Clustering, Cosmology and a New Era of Black Hole Demographics – II. The Conditional Luminosity Functions of Type 2 and Type 1 Active Galactic Nuclei*, Monthly Notices of the Royal Astronomical Society, Vol. 464, p. 626.
- 117*. Boorman, P.G., Gandhi, P., Alexander, D.M., Annuar, A., Ballantyne, D.R., Bauer, F.E., Boggs, S.E., Brandt, W.N., Brightman, M., Christensen, F.E., Craig, W.W., Farrah, D., Hailey, C.J., Harrison, F.A., Hönic, S.F., Koss, M., LaMassa, S.M., Masini, A., Ricci, C., Risaliti, G., Stern, D. & Zhang, W.W., 2016, *IC 3639 – A New Bona Fide Compton Thick AGN Unveiled by NuSTAR*, The Astrophysical Journal, Vol. 833, p. 245.
- 116*. Rujopakarn, W., Dunlop, J.S., Rieke, G.H., Ivison, R.J., Cibinel, A., Nyland, K., Jagannathan, P., Silverman, J.D., Alexander, D.M., Biggs, A.D., Bhatnagar, S., Ballantyne, D.R., Dickinson, M., Elbaz, D., Geach, J.E., Hayward, C.C., Kirkpatrick, A., McLure, R.J., Michałowski, M.J., Miller, N.A., Narayanan, D., Owen, F.N., Pannella, M., Papovich, C., Pope, A., Rau, U., Robertson, B.E., Scott, D., Swinbank, A.M., van der Werf, P., van Kampen, E. & Windhurst, R.A., 2016, *VLA and ALMA Imaging of Intense, Galaxy-Wide Star Formation in $z \sim 2$ Galaxies*, The Astrophysical Journal, Vol. 833, p. 12.
- 115*. Harrison, F.A., Aird, J., Civano, F., Lansbury, G., Mullaney, J.R., Ballantyne, D.R., Alexander, D.M., Stern, D., Ajello, M., Barret, D., Bauer, F.E., Baloković, M., Brandt, W.N., Brightman, M., Boggs, S.E., Christensen, F.E., Comastri, A., Craig, W.W., Del Moro, A., Forster, K., Gandhi, P., Giommi, P., Grefenstette, B.W., Hailey, C.J., Hickox, R.C., Hornstrup, A., Kitaguchi, T., Koglin, J., Luo, B., Madsen, K.K., Mao, P.H., Miyasaka, H., Mori, K., Perri, M., Pivovarov, M., Puccetti, S., Rana, V., Treister, E., Walton, D., Westergaard, N.J., Wik, D., Zappacosta, L., Zhang, W.W. & Zoglauer, A., 2016, *The NuSTAR Extragalactic Surveys: The Number Counts of Active Galactic Nuclei and the Resolved Fraction of the Cosmic X-ray Background*, The Astrophysical Journal, Vol. 831, p. 185.
- 114*. Farrah, D., Baloković, M., Stern, D., Harris, K., Alexander, D.M., Arévalo, P., Ballantyne, D.R., Bauer, F.E., Boggs, S., Brandt, W.N., Brightman, M., Christensen, F., Clements, D.L., Craig, W., Fabian, A., Hailey, C., Harrison, F., Koss, M., Kunimoto, M., Lansbury, G.B., Luo, B., Paine, J., Petty, S., Pitchford, K., Ricci, C., Walton, D.J. & Zhang, W., 2016, *The Geometry of the Infrared and X-ray Obscured in a Dusty Hyperluminous Quasar*, The Astrophysical Journal, Vol. 831, p. 76.
- 113*. Brightman, M., Masini, A., Ballantyne, D.R., Baloković, M., Brandt, W.N., Chen, C.-T., Comastri, A., Farrah, D., Gandhi, P., Harrison, F.A., Ricci, C., Stern, D. & Walton, D.J., 2016, *A Growth-Rate Indicator for Compton-Thick Active Galactic Nuclei*, The Astrophysical Journal, Vol. 826, p. 93.
- 112*. Keek, L.^{PD}, Wolf, Z.^{UG} & Ballantyne, D.R., 2016, *Accretion Disk Signatures in Type I X-ray Bursts: Prospects for Future Missions*, The Astrophysical Journal, Vol. 826, p. 79.
- 111*. Koss, M.J., Assef, R., Baloković, M., Stern, D., Gandhi, P., Lamperti, I., Alexander, D.M., Ballantyne, D.R., Bauer, F.E., Berney S., Brandt, W.N., Comastri, A., Gehrels, N., Harrison, F.A., Lansbury, G., Markwardt, C., Ricci, C., Rivers, E., Schawinski, K., Trakhtenbtot, B., Treister, E. &

- Urry, C.M., 2016, *A New Population of Compton-Thick AGNs Identified Using the Spectral Curvature Above 10 keV*, The Astrophysical Journal, Vol. 825, p. 85.
- 110*. Koss, M.J., Glidden, A., Baloković, M., Stern, D., Lamperti, I., Assef, R., Bauer, F., Ballantyne, D., Boggs, S.E., Craig, W.W., Farrah, D., Fürst, F., Gandhi, P., Gehrels, N., Hailey, C.J., Harrison, F.A., Markwardt, C., Masini, A., Ricci, C., Treister, E., Walton, D.J. & Zhang, W.W., 2016, *NuSTAR Resolves the First Dual AGN Above 10 keV in SWIFT J2028.5+2543*, The Astrophysical Journal, Vol. 824, L4.
- 109*. Lanzuisi, G., Perna, M., Comastri, A., Cappi, M., Dadina, M., Marinucci, A., Masini, A., Matt, G., Vagnetti, F., Vignali, C., Ballantyne, D.R., Bauer, F.E., Boggs, S.E., Brandt, W.N., Brusa, M., Christensen, F.E., Craig, W.W., Fabian, A.C., Farrah, D., Hailey, C.J., Harrison, F.A., Luo, B., Piconcelli, E., Puccetti, S., Ricci, C., Saez, C., Stern, D., Walton, D.J. & Zhang, W.W., 2016, *NuSTAR Reveals the Extreme Properties of the Super-Eddington Accreting SMBH in PG 1247+267*, Astronomy & Astrophysics, Vol. 590, p., A77.
- 108*. Masini, A., Comastri, A., Baloković, M., Zaw, I., Puccetti, S., Ballantyne, D.R., Bauer, F.E., Boggs, S.E., Brandt, W.N., Brightman, M., Christensen, F.E., Craig, W.W., Gandhi, P., Hailey, C.J., Harrison, F.A., Koss, M.J., Madejski, G., Ricci, C., Rivers, E., Stern, D. & Zhang, W.W., 2016, *NuSTAR Observations of Water Megamaser AGN*, Astronomy & Astrophysics, Vol. 589, p. A59.
- 107*. Keek, L.^{PD} & Ballantyne, D.R., 2016, *Revealing the accretion disc corona in Mrk 335 with multi-epoch X-ray spectroscopy*, Monthly Notices of the Royal Astronomical Society, Vol. 456, p. 2722.
- 106*. Aird, J., Alexander, D.M., Ballantyne, D.R., Civano, F., Del-Moro, A., Hickox, R.C., Lansbury, G.B., Mullaney, J.R., Bauer, F.E., Brandt, W.N., Comastri, A., Fabian, A.C., Gandhi, P., Harrison, F.A., Luo, B., Stern, D., Treister, E., Zappacosta, L., Ajello, M., Assef, R., Balkovic, M., Boggs, S.E., Brightman, M., Christensen, F.E., Craig, W.W., Elvis, M., Forster, K., Grefenstette, B.W., Hailey, C.J., Koss, M., LaMassa, S.M., Madsen, K.K., Puccetti, S., Saez, C., Urry, C.M., Wik, D.R. & Zhang, W., 2015, *The NuSTAR Extragalactic Survey: First Direct Measurement of the > 10 keV X-ray Luminosity Function for Active Galactic Nuclei at $z > 0.1$* , The Astrophysical Journal, Vol. 815, p. 66.
- 105*. Annur, A., Gandhi, P., Alexander, D.M., Lansbury, G.B., Arévalo, P., Ballantyne, D.R., Baloković, M., Bauer, F.E., Boggs, S.E., Brandt, W.N., Brightman, M., Christensen, F.E., Craig, W.W., Del Moro, A., Hailey, C.J., Harrison, F.A., Hickox, R.C., Matt, G., Puccetti, S., Ricci, C., Rigby, J.R., Stern, D., Walton, D.J., Zappacosta, L & Zhang, W., 2015, *NuSTAR Observations of the Compton-Thick Active Galactic Nucleus and Ultraluminous X-ray Source Candidate in NGC 5643*, The Astrophysical Journal, Vol. 815, p. 36.
- 104*. Lohfink, A.M., Tombesi, F., Walton, D., Balković, M., Zoghbi, A., Ballantyne, D.R., Boggs, S.E., Christensen, F.E., Craig, W.W., Fabian, A.C., Hailey, C.J., Harrison, F.A., King, A.L., Madjeski, G., Matt, G., Ogle, P., Reynolds, C.S., Stern, D., Ursini, F. & Zhang, W.W., 2015, *The Corona of the Broad-Line Radio Galaxy 3C 390.3*, The Astrophysical Journal, Vol. 814, p. 24.
- 103*. Keek, L.^{PD}, Cumming, A., **Wolf, Z.**^{UG}, Ballantyne, D.R., Suleimanov, V.F., Kuulkers, E. & Strohmayer, T.E., 2015, *The imprint of carbon combustion on a superburst from the accreting neutron star 4U 1636-536*, Monthly Notices of the Royal Astronomical Society, Vol. 454, p. 3559.
- 102*. Madsen, K.K., Fürst, F., Walton, D.J., Harrison, F.A., Ballantyne, D.R., Boggs, S.E., Brenneman, L.W., Christensen, F.E., Craig, W.W., Fabian, A.C., Forster, K., Grefenstette, B.W., Guainazzi, M., Hailey, C.J., Madejski, G.M., Matt, G., Stern, D. & Zhang, W.W., 2015, *3C 273 with NuSTAR: Unveiling the AGN*, The Astrophysical Journal, Vol. 812, p. 14.
- 101*. Lansbury, G.B., Gandhi, P., Alexander, D.M., Assef, R.J., Annur, A., Ballantyne, D.R., Bauer, F.E., Boggs, S.E., Brandt, W.N., Brightman, M., Christensen, F.E., Civano, F., Comastri, A., Craig, W.W., Del Moro, A., Grefenstette, B.W., Hailey, C.J., Harrison, F.A., Hickox, R.C., Koss, M., LaMassa, S.M., Luo, B., Puccetti, S., Stern, D., Treister, E., Vignali, C., Zappacosta, L. & Zhang, W.W., 2015, *NuSTAR Reveals Extreme Absorption in $z \lesssim 0.5$ Type 2 Quasars*, The Astrophysical Journal, Vol. 809, p. 115.

- 100*. Civano, F., Hickox, R., Puccetti, S., Comastri, A., Mullaney, J., Zappacosta, L., LaMassa, S., Aird, J., Alexander, D.M., Ballantyne, D.R., Bauer, F.E., Brandt, W.N., Boggs, S.E., Christensen, F.E., Craig, W.W., Del-Moro, A., Elvis, M., Forster, K., Gandhi, P., Grefenstette, B.W., Hailey, C.J., Harrison, F.A., Lansbury, G.B., Luo, B., Madsen, K., Saez, C., Stern, D., Treister, E., Urry, C.M., Wik, D.R. & Zhang, W.W., 2015, *The NuSTAR Extragalactic Surveys: Overview and Catalog from the COSMOS Field*, *The Astrophysical Journal*, Vol. 808, p. 185.
- 99*. Mullaney, J.R., Del-Moro, A., Aird, J., Alexander, D.M., Civano, F.M., Hickox, R.C., Lansbury, G.B., Ajello, M., Assef, R., Ballantyne, D.R., Baloković M., Bauer, F.E., Brandt, W.N., Boggs, S.E., Brightman, M., Christensen, F.E., Comastri, A., Craig, W.W., Elvis, M., Forster, K., Gandhi, P., Grefenstette, B.W., Hailey, C.J., Harrison, F.A., Koss, M., LaMassa, S.M., Luo, B., Madsen, K.K., Puccetti, S., Saez, C., Stern, D., Treister, E., Urry, C.M., Wik, D.R., Zappacosta, L. & Zhang, W., 2015, *The NuSTAR Extragalactic Surveys: Initial Results and Catalog from the Extended Chandra Deep Field South*, *The Astrophysical Journal*, Vol. 808, p. 184.
- 98*. Ursini, F., Marinucci, A., Matt, G., Bianchi, S., Tortosa, A., Stern, D., Arévalo, P., Ballantyne, D.R., Bauer, F.E., Fabian, A.C., Harrison, F.A., Lohfink, A.M., Reynolds, C.S. & Walton, D.J., 2015, *The NuSTAR X-ray spectrum of the low-luminosity active galactic nucleus in NGC 7213*, *Monthly Notices of the Royal Astronomical Society*, Vol. 452, p. 3266.
- 97*. Reynolds, C.S., Lohfink, A.M., Ogle, P.M., Harrison, F.A., Madsen, K.K., Fabian, A.C., Wik, D.R., Madejski, G., Ballantyne, D.R., Boggs, S.E., Christensen, F.E., Craig, W.W., Fuerst, F., Hailey, C.J., Lanz, L., Miller, J.M., Saez, C., Stern, D., Walton, D.J. & Zhang, W., 2015, *NuSTAR Observations of the Powerful Radio-Galaxy Cygnus A*, *The Astrophysical Journal*, Vol. 808, p. 154.
- 96*. Koss, M.J., Romero-Cañizales, C., Teng, S.H., Baloković, M., Puccetti, S., Bauer, F.E., Arévalo, P., Assef, R., Ballantyne, D.R., Baronchelli, L., Brandt, W.N., Brightman, M., Comastri, A., Gandhi, P., Harrison, F.A., Luo, B., Schawinski, K., Stern, D. & Treister, E., 2015, *Broadband Observations of the Compton-Thick Nucleus of NGC 3393*, *The Astrophysical Journal*, Vol. 807, p. 149.
- 95*. Keck, M.L., Brenneman, L.W., Ballantyne, D.R., Bauer, F., Boggs, S.E., Christensen, F.E., Craig, W.W., Dauser, T., Elvis, M., Fabian, A.C., Fuerst, F., García, J., Grefenstette, B.W., Hailey, C.J., Harrison, F.A., Madejski, G., Marinucci, A., Matt, G., Reynolds, C.S., Stern, D., Walton, D.J. & Zoghbi, A., 2015, *NuSTAR and Suzaku X-ray Spectroscopy of NGC 4151: Evidence for Reflection from the Inner Accretion Disk*, *The Astrophysical Journal*, Vol. 806, p. 149.
- 94*. Brightman, M., Baloković, M., Stern, D., Arévalo, P., Ballantyne, D.R., Bauer, F.E., Boggs, S.E., Craig, W.W., Christensen, F.E., Comastri, A., Fuerst, F., Gandhi, P., Hailey, C.J., Harrison, F.A., Hickox, R., Koss, M., LaMassa, S., Puccetti, S., Rivers, L., Vasudenvan, R., Walton, D.J. & Zhang, W.W., 2015, *Determining the Covering Factor of Compton-thick Active Galactic Nuclei with NuSTAR*, *The Astrophysical Journal*, Vol. 805, p.41.
- 93*. **Gohil, R.**^G & Ballantyne, D.R., 2015, *On the equivalent width of the Fe K α line produced by a dusty absorber in active galactic nuclei*, *Monthly Notices of the Royal Astronomical Society*, Vol. 449, p. 1449.
- 92*. Baloković, M., Matt, G., Harrison, F.A., Zoghbi, A., Ballantyne, D.R., Boggs, S.E., Christensen, F.E., Craig, W.W., Fabian, A.C., Fuerst, F., Hailey, C.J., Marinucci, A., Parker, M.L., Reynolds, C.S., Stern, D., Walton, D.J. & Zhang, W.W., 2015, *Coronal Properties of the Seyfert 1.9 Galaxy MCG-5-23-016 Determined from Hard X-ray Spectroscopy with NuSTAR*, *The Astrophysical Journal*, Vol. 800, p. 62.
- 91*. Matt, G., Baloković, M., Marinucci, A., Ballantyne, D.R., Boggs, S.E., Christensen, F.E., Comastri, A., Craig, W.W., Gandhi, P., Hailey, C.J., Harrison, F.A., Madejski, G., Stern, D. & Zhang, W.W., 2015, *The hard X-ray spectrum of NGC 5506 as seen by NuSTAR*, *Monthly Notices of the Royal Astronomical Society*, Vol. 447, p. 3029.
- 90*. Marinucci, A., Matt, G., Bianchi, S., Lu, T.N., Arevalo, P., Baloković, M., Ballantyne, D.R., Bauer,

- F.E., Boggs, S.E., Christensen, F.E., Craig, W.W., Gandhi, P., Hailey, C.J., Harrison, F., Puccetti, S., Rivers, E., Walton, D.J., Stern, D. & Zhang, W., 2015, *The Seyfert 2 galaxy NGC 2110: hard X-ray emission observed by NuSTAR and variability of the iron Ka line*, Monthly Notices of the Royal Astronomical Society, Vol. 447, p. 160.
- 89*. Keek, L.^{PD}, Ballantyne, D.R., Kuulkers, E. & Strohmayer, T.E., 2014, *X-raying an Accretion Disk in Realtime: The Evolution of Ionized Reflection During a Superburst from 4U 1636-536*, The Astrophysical Journal, Vol. 797, p. L23.
- 88*. Stern, D. Lansbury, G.B., Assef, R.J., Brandt, W.N., Alexander, D.M., Ballantyne, D.R., Baloković, M., Benford, D., Blain, A., Boggs, S.E., Bridge, C., Brightman, M., Christensen, F.E., Comastri, A., Craig, W.W., Del Moro, A., Eisenhardt, P.R.M., Gandhi, P., Griffith, R., Hailey, C.J., Harrison, F.A., Hickox, R.C., Jarret, T.H., Koss, M., Lake, S., LaMassa, S.M., Luo, B., Tsai, C.-W., Walton, D.J., Wright, E.L., Wu, J., Yan, L., & Zhang, W.W., 2014, *NuSTAR and XMM-Newton Observations of Luminous, Heavily Obscured, WISE-Selected Quasars at z~2*, The Astrophysical Journal, Vol. 794, p. 102.
- 87*. Baloković, M., Comastri, A., Harrison, F.A., Ballantyne, D.R., Boggs, S.E., Brandt, W.N., Brightman, M., Christensen, F.E., Craig, W.W., Del Moro, A., Gandhi, P., Hailey, C.J., Koss, M., Lansbury, G.B., Luo, B., Madejski, G.M., Marinucci, A., Markwardt, C.B., Reynolds, C.S., Risaliti, G., Rivers, E., Stern, D., Walton, D.J., Zhang, W.W., 2014, *The NuSTAR View of Nearby Compton-Thick AGN: The Cases of NGC 424, NGC 1320 and IC 2560*, The Astrophysical Journal, Vol. 794, p. 111.
- 86*. Ballantyne, D.R., **Bollenbacher, J.M.**^{UG}, Brenneman, L.W., Madsen, K.K., Baloković, M., Boggs, S.E., Christensen, F.E., Craig, W.W., Gandhi, P., Hailey, C.J., Harrison, F.A., Lohfink, A.M., Marinucci, A., Markwardt, C.B., Stern, D., Walton, D.J. & Zhang, W.W., 2014, *NuSTAR Reveals the Comptonizing Corona of the Broad-Line Radio Galaxy 3C 382*, The Astrophysical Journal, Vol. 794, p. 62.
- 85*. Gandhi, P., Lansbury, G.B., Alexander, D.M., Stern, D., Arévalo, P., Ballantyne, D.R., Baolković, M., Bauer, F.E., Boggs, S.E., Brandt, W.N., Brightman, M.R., Christensen, F.E., Comastri, A., Craig, W.E., Del Moro, A., Elvis, M., Fabian, A.C., Hailey, C.J., Harrison, F.A., Hickox, R.C., Koss, M.R., LaMassa, S.M., Luo, B., Madejski, G.M., Ptak, A.F., Puccetti, S., Teng, S.H., Urry, C.M., Walton, D.J. & Zhang, W.W., 2014, *NuSTAR Unveils a Compton-thick Type 2 Quasar in Mrk 34*, The Astrophysical Journal, Vol. 792, p. 117.
- 84*. Keek, L.^{PD}, Ballantyne, D.R., Kuulkers, E. & Strohmayer, T.E., 2014, *Characterizing the Evolving X-ray Spectral Features During a Superburst from 4U 1636-536*, The Astrophysical Journal, Vol. 789, p. 121.
- 83*. Brenneman, L.W., Madejski, G., Fuerst, F., Matt, G., Elvis, M., Harrison, F.A., Ballantyne, D.R., Boggs, S.E., Christensen, F.E., Craig, W.W., Fabian, A.C., Grefenstette, B.W., Hailey, C.J., Madsen, K.K., Marinucci, A., Rivers, E., Stern, D., Walton, D.J. & Zhang, W.W., 2014, *The Broad-Band X-ray Spectrum of IC 4329A from a Joint NuSTAR/Suzaku Observation*, The Astrophysical Journal, Vol. 788, p. 61.
- 82*. Walton, D.J., Risaliti, G., Harrison, F.A., Fabian, A.C., Miller, J.M., Arevalo, P., Ballantyne, D.R., Boggs, S.E., Brenneman, L.W., Christensen, F.E., Craig, W.W., Elvis, M., Fuerst, F., Gandhi, P., Grefenstette, B.W., Hailey, C.J., Kara, E., Luo, B., Madsen, K.K., Marinucci, A., Matt, G., Parker, M.L., Reynolds, C.S., Rivers, E., Ross, R.R., Stern, D. & Zhang, W., 2014, *NuSTAR and XMM-Newton Observations of NGC 1365: Extreme Absorption Variability and a Constant Inner Accretion Disk*, The Astrophysical Journal, Vol. 788, p. 76.
- 81*. Marinucci, A., Matt, G., Miniutti, G., Guainazzi, M., Parker, M.L., Brenneman, L., Fabian, A.C., Kara, E., Arevalo, P., Ballantyne, D.R., Boggs, S.E., Cappi, M., Christensen, F.E., Craig, W.W., Elvis, M., Hailey, C.J., Harrison, F.A., Reynolds, C.S., Risaliti, G., Stern, D.K., Walton, D.J. & Zhang, W., 2014, *The Broadband Spectral Variability of MCG-6-30-15 Observed by NuSTAR and XMM-Newton*, The Astrophysical Journal, Vol. 787, p. 83.
- 80*. Del Moro, A., Mullaney, J.R., Alexander, D.M., Comastri, A., Bauer, F.E., Treister, E., Stern, D.,

- Civano, F., Ranalli, P., Vignali, C., Aird, J.A., Ballantyne, D.R., Balokovic, M., Boggs, S.E., Brandt, W.N., Christensen, F.E., Craig, W.W., Gandhi, P., Gilli, R., Hailey, C.J., Harrison, F.A., Hickox, R.C., LaMassa, S.M., Lansbury, G.B., Luo, B., Puccetti, S., Urry, C.M. & Zhang, W.W., 2014, NuSTAR J0332-2-2746.8: *Direct Constraints on the Compton Reflection in a Heavily Obscured Quasar at $z \approx 2$* , The Astrophysical Journal, Vol. 786, p. 16.
- 79*. Marinucci, A., Matt, G., Kara, E., Miniutti, G., Elvis, M., Arevalo, P., Ballantyne, D.R., Balokovic, M., Bauer, F., Brenneman, L., Boggs, S.E., Cappi, M., Christensen, F.E., Craig, W.W., Fabian, A.C., Fuerst, F., Hailey, C.J., Harrison, F.A., Risaliti, G., Reynolds, C.S., Stern, D.K., Walton, D.J. & Zhang, W., 2014, *Simultaneous NuSTAR and XMM-Newton 0.5-80 keV spectroscopy of the Narrow Line Seyfert 1 galaxy SWIFT J2127.4+5654*, Monthly Notices of the Royal Astronomical Society, Vol. 440, p. 2347.
- 78*. Lansbury, G.B., Alexander, D.M., Del Moro, A., Gandhi, P., Assef, R.J., Stern, D., Aird, J., Ballantyne, D.R., Bauer, F.E., Boggs, S.E., Brandt, W.N., Christensen, F.E., Craig, W.W., Elvis, M., Grefenstette, B.W., Hailey, C.J., Harrison, F.A., Hickox, R.C., Koss, M., LaMassa, S.M., Luo, B., Mullaney, J.R., Teng, S.H., Urry, C.M. & Zhang, W.W., 2014, *NuSTAR Observations of Heavily Obscured Quasars at $z \sim 0.5$* , The Astrophysical Journal, Vol. 785, p. 17.
- 77*. Brenneman, L., Madejski, G., Fuerst, F., Matt, G., Elvis, M., Harrison, F.A., Ballantyne, D.R., Boggs, S., Christensen, F., Craig, W., Fabian, A.C., Grefenstette, B., Hailey, C., Madsen, K., Marinucci, A., Rivers, E., Stern, D., Walton, D. & Zhang, W., 2014, *Measuring the Coronal Properties of IC 4329A with NuSTAR*, The Astrophysical Journal, Vol. 781, p. 83.
- 76*. **Grissom, R.L.**^G, Ballantyne, D.R. & Wise, J.H., 2014, *On the Contribution of Active Galactic Nuclei to Reionization*, Astronomy & Astrophysics, Vol. 561, p. A90.
- 75*. Ballantyne, D.R., 2014, *The average 0.5-200 keV spectrum of local active galactic nuclei and a new determination of the 2-10 keV luminosity function at $z \approx 0$* , Monthly Notices of the Royal Astronomical Society, Vol. 437, p. 2845.
- 74*. La Massa, S.M., Urry, C.M., Cappelluti, N., Civano, F., Ranalli, P., Glikman, E., Treister, E., Richards, G., Ballantyne, D., Stern, D., Cardamone, C., Schawinski, K., Böhringer, H., Chon, G., Murray, S.S., Green, P. & Nandra, K., 2013, *Finding Rare AGN: XMM-Newton and Chandra Observations of SDSS Stripe 82*, Monthly Notices of the Royal Astronomical Society, Vol. 436, p. 3581.
- 73*. Alexander, D.M., Stern, D., Del Moro, A., Lansbury, G.B., Assef, R.J., Aird, J., Ajello, M., Ballantyne, D.R., Bauer, F.E., Boggs, S.E., Brandt, W.N., Christensen, F.E., Civano, F., Comastri, A., Craig, W.W., Elvis, M., Grefenstette, B.W., Hailey, C.J., Harrison, F.E., Hickox, R.C., Luo, B., Madsen, K.K., Mullaney, J.R., Perri, M., Puccetti, S., Saez, C., Treister, E., Urry, C.M., Zhang, W.W., Bridge, C.R., Eisenhardt, P.R.M., Gonzalez, A.H., Miller, S.H. & Tsai, C.W., 2013, *The NuSTAR Extragalactic Survey: A First Sensitive Look at the High-Energy Cosmic X-ray Background Population*, The Astrophysical Journal, Vol. 773, p. 125.
- 72*. Harrison, F.A., Craig, W.W., Christensen, F.E., Hailey, C.J., Zhang, W.W., Boggs, S.E., Stern, D., Cook, W.R., Forster, K., Giommi, P., Grefenstette, B.W., Kim, Y., Kitaguchi, T., Koglin, J.E., Madsen, K.K., Mao, P.H., Miyasaka, H., Mori, K., Perri, M., Pivovarov, M.J., Puccetti, S., Rana, V.R., Westergaard, N.J., Willis, J., Zoglauer, A., An, H., Bachetti, M., Barriere, N.M., Bellm, E.C., Bhalerao, V., Brejnholt, N.F., Fuerst, F., Liebe, C.C., Markwardt, C.B., Nynka, M., Vogel, J.K., Walton, D.J., Wik, D.R., Alexander, D.M., Cominsky, L.R., Hornschemeier, A.E., Hornstrup, A., Kaspi, V.M., Madejski, G.M., Matt, G., Molendi, S., Smith, D.M., Tomsick, J.A., Ajello, M., Ballantyne, D.R., Balokovic, M., Barret, D., Bauer, F.E., Blandford, R.D., Brandt, N.W., Brenneman, L.W., Chiang, J., Chakrabarty, D., Chenevez, J., Comastri, A., Elvis, M., Fabian, A.C., Farrah, D., Fryer, C.L., Gotthelf, E.V., Grindlay, J.E., Helfand, D.J., Krivonos, R., Meier, D.L., Miller, J.M., Natalucci, L., Ogle, P., Ofek, E.P., Ptak, A., Reynolds, S.P., Rigby, J.R., Tagliaferri, G., Thosett, S.E., Treister, E. & Urry, C.M., 2013, *The Nuclear Spectroscopic Telescope Array (NuSTAR) Mission*, The Astrophysical Journal, Vol. 770, p. 103.
- 71*. in t' Zand, J.J.M., Galloway, D.K., Marshall, H.L., Ballantyne, D.R., Jonker, P.G., Paerels, F.B.S.,

- Palmer, D.M., Patruno, A. & Weinberg, N.N., 2013, *A bright thermonuclear X-ray burst simultaneously observed with Chandra and RXTE*, *Astronomy & Astrophysics*, Vol. 553, p. A83
- 70*. Ballantyne, D.R., **Armour, J.N.^G** & **Indergaard, J.^{UG}**, 2013, *The Star Formation Laws of Eddington-Limited Star-Forming Disks*, *The Astrophysical Journal*, Vol. 765, p. 138.
- 69*. **Draper, A.R.^G** & Ballantyne, D.R., 2012, *The Merger-Triggered Active Galactic Nucleus Contribution to the Ultraluminous Infrared Galaxy Population*, *The Astrophysical Journal*, Vol. 753, p. L37.
- 68*. **Armour, J.N.^G** & Ballantyne, D.R., 2012, *CO Line Emission from Compact Nuclear Starburst Disks around Active Galactic Nuclei*, *The Astrophysical Journal*, Vol. 752, p. 87.
- 67*. **Draper, A.R.^G** & Ballantyne, D.R., 2012, *A Tale of Two Populations: The Contribution of Merger and Secular Processes to the Evolution of Active Galactic Nuclei*, *The Astrophysical Journal*, Vol. 751, p. 72.
- 66*. Ballantyne, D.R., **Purvis, J.D.^{UG}**, **Strausbaugh, R.G.^{UG}** & Hickox, R.C., 2012, *Ionized Reflection Spectra from Accretion Disks Illuminated by X-ray Pulsars*, *The Astrophysical Journal*, Vol. 747, p. L35.
- 65*. Pierce, C.M.^{PD}, Ballantyne, D.R. & Ivison, R.J., 2011, *Evidence for Moderate Star Formation Rates in the Host Galaxies of Active Galactic Nuclei at $z < 1$* , *The Astrophysical Journal*, Vol. 742, p. 45.
- 64*. **Draper, A.R.^G**, **Northcott, S.^{UG}** & Ballantyne, D.R., 2011, *Are Active Galactic Nuclei the Solution to the Excess Cosmic Radio Background at 1.4 GHz?*, *The Astrophysical Journal*, Vol. 741, p. L39.
- 63*. **Draper, A.R.^G** & Ballantyne, D.R., 2011, *The Young, the Old, and the Dusty: Stellar Populations of AGN Hosts*, *The Astrophysical Journal*, Vol. 740, p. 57.
- 62*. Ballantyne, D.R., **Draper, A.R.^G**, Madsen, K.K., Rigby, J.R. & Treister, E., 2011, *Lifting the Veil on Obscured Accretion: Number Counts and Survey Strategies for Imaging Hard X-ray Missions*, *The Astrophysical Journal*, Vol. 736, p. 56.
- 61*. Ballantyne, D.R., **McDuffie, J.R.^{UG}** & **Rusin, J.S.^{HS}**, 2011, *A Correlation Between the Ionization State of the Inner Accretion Disk and the Eddington Ratio of Active Galactic Nuclei*, *The Astrophysical Journal*, Vol. 734, p. 112. 2. (Georgia Tech Media Release: "Astrophysicists Use X-ray Fingerprints to Study Massive Black Holes". Coverage included: Scientific Computing, SpaceDaily, R&D Magazine, LabSpaces, Futurity.org. Interviews given: COSMOS Magazine Online)
- 60*. **Draper, A.R.^G** & Ballantyne, D.R., 2011, *Properties and Expected Number Counts of Active Galactic Nuclei and their Hosts in the Far Infrared*, *The Astrophysical Journal*, Vol. 729, p. 109.
- 59*. Ballantyne, D.R., **Schumann, M.^{UG}** & **Ford, B.^{UG}**, 2011, *Modelling the time dependence of the TeV γ -ray source at the Galactic Centre*, *Monthly Notices of the Royal Astronomical Society*, Vol. 410, p. 1521.
- 58*. in 't Zand, J.J.M., Galloway, D.K. & Ballantyne, D.R., 2011, *Achromatic late-term variability in thermonuclear X-ray bursts: An accretion disk disrupted by a nova-like shell?*, *Astronomy & Astrophysics*, Vol. 525, p. A111.
- 57*. Cackett, E.M., Miller, J.M., Ballantyne, D.R., Barret, D., Bhattacharyya, S., Boutelier, M., Miller, M.C., Strohmayer, T.E. & Wijnands, R., 2010, *Relativistic Lines and Reflection From the Inner Accretion Disks Around Neutron Stars*, *The Astrophysical Journal*, Vol. 720, p. 205.
- 56*. D'Ai, A., Di Salvo, T., Ballantyne, D.R., Iaria, R., Robba, N.R., Papitto, A., Riggio, A., Burderi, L., Piraino, S., Santangelo, A., Matt, G., Dovciak, M. & Karas, V., 2010, *A self-consistent approach to the hard and soft states of 4U 1705-44*, *Astronomy & Astrophysics*, Vol. 516, p. A36.
- 55*. Ballantyne, D.R., 2010, *The Integrated Relativistic Iron Line from Active Galactic Nuclei: Chasing the Spin Evolution of Supermassive Black Holes*, *The Astrophysical Journal*, Vol. 716, p. L27.
- 54*. **Draper, A.R.^G** & Ballantyne, D.R., 2010, *The Evolution and Eddington Ratio Distribution of Compton Thick Active Galactic Nuclei*, *The Astrophysical Journal*, Vol. 715, p. L99.
- 53*. Ballantyne, D.R., 2010, *The Distribution and Cosmic Density of Relativistic Iron Lines in Active Galactic Nuclei*, *The Astrophysical Journal*, Vol. 708, p. L1.
- 52*. **Draper, A.R.^G** & Ballantyne, D.R., 2009, *Balancing the Cosmic Energy Budget: The Cosmic X-ray*

- Background, Blazars, and the Compton Thick AGN Fraction*, The Astrophysical Journal, Vol. 707, p. 778.
- 51*. Gliozzi, M., Papadakis, I.E., Eracleous, M., Sambruna, R.M., Ballantyne, D.R., Braitto, V. & Reeves, J.N., 2009. *Short-term Variability and Power Spectral Density Analysis of the Radio-Loud Active Galactic Nucleus 3C 390.3*, The Astrophysical Journal, Vol. 703, p. 1021.
- 50*. Sambruna, R.M., Reeves, J.N., Braitto, V., Lewis, K.T., Eracleous, M., Gliozzi, M., Tavecchio, F., Ballantyne, D.R., Ogle, P.M., Barth, A.J. & Tueller, J., 2009 *Structure of the Accretion Flow in Broad-Line Radio Galaxies: The Case of 3C 390.3*, The Astrophysical Journal, Vol. 700, p. 1473.
- 49*. Ballantyne, D.R., 2009, *The Contribution of Active Galactic Nuclei to the Microjansky Radio Population*, The Astrophysical Journal, Vol. 698, p. 1033.
48. Ballantyne, D.R., 2008, *Obscuring Active Galactic Nuclei with Nuclear Starburst Disks*, The Astrophysical Journal, Vol. 685, p. 787.
47. Larsson, J., Fabian, A.C., Ballantyne, D.R. & Miniutti, G., 2008, *Exploring the Disc/Jet Interaction in the Radio-Loud Quasar 4C +74.26 with Suzaku*, Monthly Notices of the Royal Astronomical Society, Vol. 388, p. 1037.
46. Crocker, R.M., Jones, D., Ballantyne, D.R. & Melia, F., 2007, *Radio Synchrotron Emission from Secondary Leptons in the Vicinity of Sgr A**, The Astrophysical Journal, Vol. 664, p. L95.
45. Erlund, M.C., Fabian, A.C., Blundell, K.M., Moss, C. & Ballantyne, D.R., 2007, *The luminous X-ray hotspot in 4C 74.26: synchrotron or inverse-Compton emission?*, Monthly Notices of the Royal Astronomical Society, Vol. 379, p. 498.
44. Ballantyne, D.R., Özel, F. & Psaltis, D., 2007, *Constraining Radiatively Inefficient Accretion Flows with Polarization*, The Astrophysical Journal, Vol. 663, p. L17.
43. Ballantyne, D.R. & Papovich, C., 2007, *On the Contribution of AGN to the Cosmic Background Radiation*, The Astrophysical Journal, Vol. 660, p. 988.
42. Ballantyne, D.R., Melia, F., Liu, S. & Crocker, R.M., 2007, *A Possible Link Between the Galactic Center HESS Source and Sgr A**, The Astrophysical Journal, Vol. 657, p. L13.
41. Ballantyne, D.R., Shi, Y., Rieke, G.H., Donley, J.L., Papovich, C. & Rigby, J.R., 2006, *Does the AGN Unified Model Evolve with Redshift? Utilizing the X-Ray Background to Predict the Mid-Infrared Emission of AGN*, The Astrophysical Journal, Vol. 653, p. 1070.
40. Miniutti, G., Ballantyne, D.R., Allen, S.W., Fabian, A.C. & Ross, R.R., 2006, *Fe Emission and Ionized Excess Absorption in the Luminous Quasar 3C 109 with XMM-Newton*, Monthly Notices of the Royal Astronomical Society, Vol. 371, p. 283.
39. Ballantyne, D.R., Everett, J.E. & Murray, N., 2006, *Connecting Galaxy Evolution, Star Formation and the X-ray Background*, The Astrophysical Journal, Vol. 639, p. 740.
38. Ballantyne, D.R., 2005, *A Complete View of the Broad-Line Radio Galaxy 4C+74.26 with XMM-Newton*, Monthly Notices of the Royal Astronomical Society, Vol. 362, p. 1183.
37. Ballantyne, D.R. & Everett, J.E., 2005, *On the Dynamics of Suddenly Heated Accretion Disks Around Neutron Stars*, The Astrophysical Journal, Vol. 626, p. 364.
36. Ballantyne, D.R. & Fabian, A.C., 2005, *Evidence for an Untruncated Accretion Disk in the Broad-Line Radio Galaxy 4C+74.26*, The Astrophysical Journal, Vol. 622, p. L97.
35. Ballantyne, D.R., Turner, N.J. & Young, A.J., 2005, *X-ray Reflection from Inhomogeneous Accretion Disks: II. Emission Line Variability and Implications for Reverberation Mapping*, The Astrophysical Journal, Vol. 619, p. 1028.
34. Ballantyne, D.R., Fabian, A.C. & Iwasawa, K., 2004, *The XMM-Newton View of the Broad-Line Radio Galaxy 3C 120*, Monthly Notices of the Royal Astronomical Society, Vol. 354, p. 839.
33. Everett, J.E. & Ballantyne, D.R., 2004, *Continuum Acceleration of Black Hole Winds*, The Astrophysical Journal, Vol. 615, p. L13.
32. Vaughan, S., Fabian, A.C., Ballantyne, D.R., De Rosa, A., Piro, L. & Matt, G., 2004, *An XMM-Newton observation of Ark 120: the X-ray spectrum of a 'bare' Seyfert 1 nucleus*, Monthly Notices of the Royal Astronomical Society, Vol. 351, p. 193.
31. Ballantyne, D.R., 2004, *Reflection spectra from an accretion disc illuminated by a neutron star X-ray*

- burst*, Monthly Notices of the Royal Astronomical Society, Vol. 351, p. 57.
30. Font, A.S., McCarthy, I.G., Johnstone, D. & Ballantyne, D.R., 2004, *Photoevaporation of Circumstellar Disks around Young Stars*, The Astrophysical Journal, Vol. 607, p. 890.
 29. Ballantyne, D.R., Turner, N.J. & Blaes, O.M., 2004, *X-ray Reflection from Inhomogeneous Accretion Disks: I. Toy Models and Photon Bubbles*, The Astrophysical Journal, Vol. 603, p. 436.
 28. Ballantyne, D.R. & Strohmayer, T.E., 2004, *The Evolution of the Accretion Disk around 4U 1820-30 During a Superburst*, The Astrophysical Journal, Vol. 602, p. L105.
 27. Ballantyne, D.R., Weingartner, J.C. & Murray, N., 2003, *On the Location and Composition of the Dust in the MCG-6-30-15 Warm Absorber*, Astronomy & Astrophysics, Vol. 409, p. 503.
 26. Ballantyne, D.R. & Fabian, A.C., 2003, *The Contribution of Particle Impact to the Production of Fe K α Emission from Accreting Black Holes*, The Astrophysical Journal, Vol. 592, p. 1089.
 25. Ballantyne, D.R., Vaughan, S. & Fabian, A.C., 2003, *A two-component ionized reflection model of MCG-6-30-15*, Monthly Notices of the Royal Astronomical Society, Vol. 342, p. 239.
 24. Vaughan, S., Boller, Th., Fabian, A.C., Ballantyne, D.R., Brandt, W.N. & Trümper, J., 2002, *A XMM-Newton observation of Ton S180: Constraints on the continuum emission in ultrasoft Seyfert galaxies*, Monthly Notices of the Royal Astronomical Society, Vol. 337, p. 247.
 23. Ballantyne, D.R., Ross, R.R. & Fabian, A.C., 2002, *Soft X-ray emission lines from photoionized accretion discs: constraints on their strength and width*, Monthly Notices of the Royal Astronomical Society, Vol. 336, p. 867.
 22. Ross, R.R., Fabian, A.C. & Ballantyne, D.R., 2002, *Multiple X-ray reflection from ionized slabs*, Monthly Notices of the Royal Astronomical Society, Vol. 336, p. 315.
 21. Miller, J.M., Ballantyne, D.R., Fabian, A.C. & Lewin, W.H.G., 2002, *Extremely Weak Reflection Features in the X-ray Spectrum of XTE J1118+480: Possible Evidence for X-ray-Emitting Jets?*, Monthly Notices of the Royal Astronomical Society, Vol. 335, p. 865.
 20. Fabian, A.C., Vaughan, S., Nandra, K., Iwasawa, K., Ballantyne, D.R., Lee, J.C., DeRosa, A., Turner, A. & Young, A.J., 2002, *A long hard look at MCG-6-30-15 with XMM-Newton*, Monthly Notices of the Royal Astronomical Society, Vol. 335, p. L1.
 19. Ballantyne, D.R., Ramirez-Ruiz, E., Lazzati, D. & Piro, L., 2002, *X-ray spectral diagnostics of the immediate environment of GRB 991216*, Astronomy & Astrophysics, Vol. 389, p. L74.
 18. Ballantyne, D.R., Ross, R.R. & Fabian A.C., 2002, *On the hard X-ray spectra of radio-loud active galaxies*, Monthly Notices of the Royal Astronomical Society, Vol. 332, p. L45.
 17. Ballantyne, D.R. & Ross, R.R., 2002, *The Response of the Fe K α Line to Changes in the X-ray Illumination of Accretion Discs*, Monthly Notices of the Royal Astronomical Society, Vol. 332, p. 777.
 16. Fabian, A.C., Ballantyne, D.R., Merloni, A., Vaughan, S., Iwasawa, K. & Boller, Th., 2002, *How the X-ray spectrum of a Narrow-Line Seyfert 1 galaxy may be reflection dominated*, Monthly Notices of the Royal Astronomical Society, Vol. 331, p. L35.
 15. Ballantyne, D.R., Fabian, A.C. & Ross, R.R., 2002, *Fe K α emission from photoionized slabs: the impact of the iron abundance*, Monthly Notices of the Royal Astronomical Society, Vol. 329, p. L67.
 14. Boller, Th., Fabian, A.C., Sunyaev, R., Trümper, J., Vaughan, S., Ballantyne, D.R., Brandt, W.N., Keil, R. & Iwasawa, K., 2002, *XMM-Newton Discovery of a Sharp Spectral Feature at ~ 7 keV in the NLS1 Galaxy 1H 0707-495*, Monthly Notices of the Royal Astronomical Society, Vol. 329, p. L1.
 13. Ballantyne, D.R. & Fabian A.C., 2001, *Relativistic Ionized Accretion Disc Models of MCG-6-30-15*, Monthly Notices of the Royal Astronomical Society, Vol. 328, p. L11.
 12. Ballantyne, D.R. & Ramirez-Ruiz, E., 2001, *Iron K α Emission From X-ray Reflection: Predictions for Gamma-Ray Burst Models*, The Astrophysical Journal, Vol. 559, p. L83.
 11. Ballantyne, D.R., Ross, R.R. & Fabian, A.C., 2001, *X-ray Reflection By Photoionized Accretion Discs*, Monthly Notices of the Royal Astronomical Society, Vol. 327, p.10.
 10. Hawarden, T.G., Leggett, S.K., Letawsky M.B., Ballantyne, D.R. & Casali, M.M., 2001, *JHK Standard*

Stars for Large Telescopes: the UKIRT Fundamental and Extended Lists, Monthly Notices of the Royal Astronomical Society, Vol. 325, p. 563.

9. Kerton, C.R., Martin, P.G., Johnstone, D. & Ballantyne, D.R., 2001, *A Submillimeter View of Star Formation Near the HII Region KR 140*, The Astrophysical Journal, Vol. 552, p. 601.
8. Ballantyne, D.R., Iwasawa, K. & Fabian A.C., 2001, *Evidence for Ionized Accretion Discs in Five Narrow-Line Seyfert 1 Galaxies*, Monthly Notices of the Royal Astronomical Society, Vol. 323, p. 506.
7. Magorrian, S.J. & Ballantyne, D.R., 2001, *Mass Profiles and Anisotropies of Early-Type Galaxies*, Monthly Notices of the Royal Astronomical Society, Vol. 322, p. 702.
6. Ballantyne, D.R., Kerton, C.R. & Martin, P.G., 2000, *The HII Region KR 140: Spontaneous Formation of a Massive Star*, The Astrophysical Journal, Vol. 539, p.283.
5. Ballantyne, D.R., Ferland, G.J. & Martin, P.G., 2000, *The Primordial Helium Abundance: Toward Understanding and Removing the Cosmic Scatter in the dY/dZ Relation*, The Astrophysical Journal, Vol. 536, p. 773.
4. Armour, Mary-Helen, Ballantyne, D.R., Ferland, G.J., Karr, J. & Martin, P.G., 1999, *Emission-Line Helium Abundances in Highly Obscured Nebulae*, Publications of the Astronomical Society of the Pacific, Vol. 111, p. 1251.
3. Kerton, C.R., Ballantyne, D.R., & Martin, P.G., 1999, *Classification of O Stars in the Yellow: The Exciting Star VES 735*, The Astronomical Journal, Vol. 117, p. 2485.
2. Davies, J.K., McBride, N., Ellison, S.L., Green, S.F. & Ballantyne, D.R., 1998, *Visible and Infrared Photometry of Six Centaurs*, Icarus, Vol. 134, p. 213.
1. Leahy, D.A., Roger, R.S. & Ballantyne, D., 1997, *1420 MHz Continuum and Polarization Observations of the Cygnus Loop*, The Astronomical Journal, Vol. 114, p. 2081.

B2. Conference Presentations with Proceedings (Refereed)

No data

B3. Other Refereed Material

- 3*. in't Zand, J.J.M., Bozzo, E., Qu, J., Li, X.-D., Amati, L., Chen, Y., Donnarumma, I., Doroshenko, V., Drake, S. A., Hernanz, M., Jenke, P.A., Maccarone, T.J., Mahmoodifar, S., de Martino, D., De Rosa, A., Rossi, E.M., Rowlinson, A., Sala, G., Stratta, G., Tauris, T.M., Wilms, J., Wu, X., Zhou, P., Agudo, I., Altamirano, D., Atteia, J.-L., Andersson, N.A., Baglio, M.C., Ballantyne, D.R., Baykal, A., Behar, E., Belloni, T., Bhattacharyya, S., Bianchi, S., Bilous, A., Blay, P., Braga, J., Brandt, S., Brown, E.F., Bucciantini, N., Burderi, L., Cackett, E.M., Campana, R., Campana, S., Casella, P., Cavecchi, Y., Chambers, F., Chen, L., Chen, Y.P., Chenevez, J., Chernyakova, M., Jin, C., Ciolfi, R., Costantini, E., Cumming, A., D'Ai, A., Dai, Z.G., D'Ammando, F., De Pasquale, M., Degenaar, N., Del Santo, M., D'Elia, V., Di Salvo, T., Doyle, G., Falanga, M., Fan, X., Ferdman, R.D., Feroci, M., Frascchetti, F., Galloway, D.K., Gambino, A.F., Gandhi, P., Ge, M., Gendre, B., Gill, R., Götz, D., Gouiffès, C., Grandi, P., Granot, J., Güdel, M., Heger, A., Heinke, C.O., Homan, J., Iaria, R., Iwasawa, K., Izzo, L., Ji, L., Jonker, P.G., José, J., Kaastra, J.S., Kalemci, E., Kargaltsev, O., Kawai, N., Keek, L., Komossa, S., Kreykenbohm, I., Kuiper, L., Kunneriath, D., Li, G., Liang, E.W., Linares, M., Longo, F., Lu, F., Lutovinov, A.A., Malyshev, D., Malzac, J., Manousakis, A., McHardy, I., Mehdipour, M., Men, Y., Méndez, M., Mignani, R.P., Mikusincova, R., Miller, M.C., Miniutti, G., Motch, C., Nättilä, J., Nardini, E., Neubert, T., O'Brien, P.T., Orlandini, M., Osborne, J.P., Pacciani, L., Paltani, S., Paolillo, M., Papadakis, I.E., Paul, B., Pellizzoni, A., Peretz, U., Perez Torres, M.A., Perinati, E., Prescod-Weinstein, C., Reig, P., Riggio A., Rodriguez, J., Rodrguez-Gil, P., Romano, P., Rozanska, A., Sakamoto, T., Salmi, T., Salvaterra, R., Sanna, A., Santangelo, A., Savolainen, T., Schanne, S., Schatz, H., Shao, L., Shearer, A., Shore, S.N., Stappers, B.W., Strohmayer, T.E., Suleimanov, V.F., Svoboda, J., Thielemann, F.-K., Tombesi, F., Torres, D.F., Torresi, E., Turriziani, S., Vacchi, A., Vercellone, S., Vink, J., Wang, J.-M., Weng, J., Watts, A.L., Weng, S., Weinberg, N.N., Wheatley, P.J., Wijnands,

- R., Woods, T.E., Woosley, S.E., Xiong, S., Xu, Y., Yan, Z., Younes, G., Yu, W., Yuan, F., Zampieri, L., Zane, S., Zdziarski, A., Zhang, S.-N., Zhang, S., Zhang, S., Zhang, X. & Zingale, M., 2019, *Observatory Science with eXTP*, Sci. China Phys. Mech. Astron., Vol. 62, p. 29506
- 2*. Singal, J., Haider, J., Ajello, M., Ballantyne, D. R., Bunn, E., Condon, J., Dowell, J., Fixsen, D., Fornengo, N., Harms, B., Holder, G., Jones, E., Kellermann, K., Kogut, A., Linden, T., Monsalve, R., Mertsch, P., Murphy, E., Orlando, E., Regis, M., Scott, D., Vernstrom, T. & Xu, L., 2018, *The Radio Synchrotron Background: Conference Summary and Report*, Publications of the Astronomical Society of the Pacific, Vol. 130, p. 036001.
- 1*. Degenaar, N., Ballantyne, D.R., Belloni, T., Chakraborty, M., Chen, Y.-P., Ji, L., Kretschmar, P., Kuulkers, E., Li, J., Maccarone, T.J., Malzac, J., Zhang, S. & Zhang, S.-N., 2018, *Accretion Disks and Coronae in the X-ray Flashlight*, Space Science Reviews, Vol. 214, p. 15.

B4. Submitted Journal Articles (with date of submission)

- 2*. Li, K.^G, Bogdanović, T. & Ballantyne, D.R., 2020, *The Pairing Probability of Massive Black Holes in Merger Galaxies in the Presence of Radiative Feedback*, submitted to The Astrophysical Journal Letters on July 3, 2020.
- 1*. Baloković, M., Harrison, F.A., Madejski, G., Comastri, A., Ricci, C., Annuar, A., Ballantyne, D.R., Boorman, P., Brandt, W.N., Brightman, M., Gandhi, P., Kamraj, N., Koss, M.J., Marchesi, S., Marinucci, A., Masini, A., Matt, G., Stern, D. & Urry, C.M., *NuSTAR Survey of Obscured Swift/BAT Selected Active Galactic Nuclei: II. Median High-energy Cutoff in Seyfert II Hard X-ray Spectra*, submitted to The Astrophysical Journal on February 13, 2020.

C. Other Publications and Creative Products (all non-refereed)

- 22*. Ray, P.S., Arzoumanian, Z., Ballantyne, D., Bozzo, E., Brandt, S., Brenneman, L., Chakrabarty, D., Christophersen, M., DeRosa, A., Feroci, M., Gendreau, K., Goldstein, A., Hartmann, D., Hernanz, M., Jenke, P., Kara, E., Maccarone, T., McDonald, M., Nowak, M., Phlips, B., Remillard, R., Stevens, A., Tomsick, J., Watts, A., Wilson-Hodge, C., Wood, K., Zane, S., Ajello, M., Alston, W., Altamirano, D., Antoniou, V., Arur, K., Ashton, D., Auchettl, K., Ayres, T., Bachetti, M., Balokovic, M., Baring, M., Baykal, A., Begelman, M., Bhat, N., Bogdanov, S., Briggs, M., Bulbul, E., Bult, P., Burns, E., Cackett, E., Campana, R., Caspi, A., Cavecchi, Y., Chenevez, J., Cherrry, M., Corbet, R., Corcoran, M., Corsi, A., Degenaar, N., Drake, J., Eikenberry, S., Enoto, T., Fragile, C., Fuerst, F., Gandhi, P., Garcia, J., Goldstein, A., Gonzalez, A., Grefenstette, B., Grinberg, Vi., Grossan, B., Guillot, S., Guver, T., Haggard, D., Heinke, C., Heinz, S., Hemphill, P., Homan, J., Hui, M., Huppenkothen, D., Ingram, A., Irwin, J., Jaisawal, G., Jaodand, A., Kalemci, E., Kaplan, D., Keek, L., Kennea, J., Kerr, M., van der Klis, M., Kocevski, D., Koss, M., Kowalski, A., Lai, D., Lamb, F., Laycock, S., Lazio, J., Lazzati, D., Longcope, D., Loewenstein, M., Maitra, D., Majid, W., Maksym, W.P., Malacaria, C., Margutti, R., Martindale, A., McHardy, I., Meyer, M., Middleton, M., Miller, J., Miller, C., Motta, S., Neilsen, J., Nelson, T., Noble, S., O'Brien, P., Osborne, J., Osten, R., Ozel, F., Palliyaguru, N., Pasham, D., Patruno, A., Pelassa, V., Petropoulou, M., Pilia, M., Pohl, M., Pooley, D., Prescod-Weinstein, C., Psaltis, D., Raaijmakers, G., Reynolds, C., Riley, T.E., Salvesen, G., Santangelo, A., Scaringi, S., Schanne, S., Schnittman, J., Smith, D., Smith, K.L., Snios, B., Steiner, A., Steiner, J., Stella, L., Strohmayer, T., Sun, M., Tauris, T., Taylor, C., Tohuvavohu, A., Vacchi, A., Vasilopoulos, G., Veledina, A., Walsh, J., Weinberg, N., Wilkins, D., Willingale, R., Wilms, J., Winter, L., Wolff, M., in 't Zand, J., Zezas, A., Zhang, B. & Zoghbi, A., 2019, *STROBE-X: X-ray Timing and Spectroscopy on Dynamical Timescales from Microseconds to Years*, Probe Class Mission Concept APC White Paper Submitted to the Astro2020 Decadal Survey, Bulletin of the American Astronomical Society, Vol. 51, Issue 7, id. 231.
- 21*. Elvis, M., Arenberg, J., Ballantyne, D., Bautz, M., Beichman, C., Booth, J., Buckley, J., Burns, J.O., Camp, J., Conti, A., Cooray, A., Danchi, W., Delabrouille, J., De Zotti, G., Flauger, R., Glenn, J., Grindlay, J., Hanany, S., Hartmann, D., Helou, G., Herranz, D., Hubmayr, J.,

- Johnson, B.R., Jones, W., Kasdin, N.J., Kouvoliotou, C., Kunze, K.E., Lawrence, C., Lazio, J., Lillie, C.F., Lipsky, S., Maccarone, T., Madsen, K.C., McEnery, J.E., McEntaffer, R., Mushotzky, R., Olinto, A., Plavchan, P., Pogosian, L., Ptak, A., Ray, P., Rocha, G.M., Scowen, P., Seager, S., Tinto, M., Tomsick, J., Tucker, G., Ulmer, M., Wang, Y. & Wollack, E.J., 2019, *The Case for Probe-class NASA Astrophysics Missions*, APC White Paper Submitted to the Astro2020 Decadal Survey, Bulletin of the American Astronomical Society, Vol. 51, Issue 7, id. 140.
- 20*. Madsen, K., Hickox, R., Bachetti, M., Stern, D., Gellert, N.C., García, J., Kara, E., Brandt, W.N., Krawczynski, H., Lohfink, A., Brenneman, L., Christensen, F., Middleton, M., Hornstrup, A., Matt, G., Jaodand, A., Lansbury, G., Ricci, C., Fuerst, F., Ballantyne, D., Walton, D., Fabian, A., Della Monica Ferreira, D., Pottschmidt, K., Miller, J.M., Windt, D.L., Baloković, M., Kamraj, N., Wilms, J., Heida, M., Alexander, D., Boorman, P., Wik, D., Vogel, J., Earnshaw, H., Descalle, M.-A., Civano, F., Fornasini, F., Grindlay, J., Zhang, W., Hornschemeier, A. & Craig, W., 2019, *HEX-P: The High-Energy X-ray Probe*, Probe Class Mission Concept APC White Paper Submitted to the Astro2020 Decadal Survey, Bulletin of the American Astronomical Society, Vol. 51, Issue 7, id. 166.
- 19*. Hickox, R., Civano, F., Ballantyne, D., Baloković, M., Boorman, P., Brandt, W.N., Canning, R., Fornasini, F., Gandhi, P., Jones, M., Lansbury, G., Lanz, L., Lanzuisi, G., Madsen, K., Marchesi, S., Masini, A., Ananna, T., Stern, D. & Ricci, C., 2019, *Resolving the cosmic X-ray background with a next-generation high-energy X-ray observatory*, Science White Paper submitted to the Astro2020 Decadal Survey, Bulletin of the American Astronomical Society, Vol. 51, Issue 3, id. 468 (arXiv:1905.11439).
- 18*. García, J.A., Bachetti, M., Ballantyne, D.R., Brenneman, L., Brightman, M., Connors, R.M., Dauser, T., Fabian, A., Fuerst, F., Gandhi, P., Kamraj, N., Kara, E., Madsen, K., Miller, J.M., Nowak, M., Parker, M.L., Reynolds, C., Steiner, J., Stern, D., Taylor, C., Tomsick, J., Walton, D., Wilms, J. & Zoghbi, A., 2019, *Probing the Black Hole Engine with Measurements of the Relativistic X-ray Reflection Component*, Science White Paper submitted to the Astro2020 Decadal Survey, Bulletin of the American Astronomical Society, Vol. 51, Issue 3, id. 468 (arXiv:1903.07130).
- 17*. Ray, P.S., Arzoumanian, Z., Ballantyne, D., Bozzo, E., Brandt, S., Brenneman, L., Chakrabarty, D., Christophersen, M., DeRosa, A., Feroci, M., Gendreau, K., Goldstein, A., Hartmann, D., Hernanz, M., Jenke, P., Kara, E., Maccarone, T., McDonald, M., Nowak, M., Philips, B., Remillard, R., Stevens, A., Tomsick, J., Watts, A., Wilson-Hodge, C., Wood, K., Zane, S., Ajello, M., Alston, W., Altamirano, D., Antoniou, V., Arur, K., Ashton, D., Auchettl, K., Ayres, T., Bachetti, M., Balokovic, M., Baring, M., Baykal, A., Begelman, M., Bhat, N., Bogdanov, S., Briggs, M., Bulbul, E., Bult, P., Burns, E., Cackett, E., Campana, R., Caspi, A., Cavecchi, Y., Chenevez, J., Cherr, M., Corbet, R., Corcoran, M., Corsi, A., Degenaar, N., Drake, J., Eikenberry, S., Enoto, T., Fragile, C., Fuerst, F., Gandhi, P., Garcia, J., Goldstein, A., Gonzalez, A., Grefenstette, B., Grinberg, Vi., Grossan, B., Guillot, S., Guver, T., Haggard, D., Heinke, C., Heinz, S., Hemphill, P., Homan, J., Hui, M., Huppenkothen, D., Ingram, A., Irwin, J., Jaisawal, G., Jaodand, A., Kalemci, E., Kaplan, D., Keek, L., Kennea, J., Kerr, M., van der Klis, M., Kocevski, D., Koss, M., Kowalski, A., Lai, D., Lamb, F., Laycock, S., Lazio, J., Lazzati, D., Longcope, D., Loewenstein, M., Maitra, D., Majid, W., Maksym, W.P., Malacaria, C., Margutti, R., Martindale, A., McHardy, I., Meyer, M., Middleton, M., Miller, J., Miller, C., Motta, S., Neilsen, J., Nelson, T., Noble, S., O'Brien, P., Osborne, J., Osten, R., Ozel, F., Palliyaguru, N., Pasham, D., Patruno, A., Pelassa, V., Petropoulou, M., Pilia, M., Pohl, M., Pooley, D., Prescod-Weinstein, C., Psaltis, D., Raaijmakers, G., Reynolds, C., Riley, T.E., Salvesen, G., Santangelo, A., Scaringi, S., Schanne, S., Schnittman, J., Smith, D., Smith, K.L., Snios, B., Steiner, A., Steiner, J., Stella, L., Strohmayer, T., Sun, M., Tauris, T., Taylor, C., Tohuvavohu, A., Vacchi, A., Vasilopoulos, G., Veledina, A., Walsh, J., Weinberg, N., Wilkins, D., Willingale, R., Wilms, J., Winter, L., Wolff, M., in 't Zand, J., Zezas, A., Zhang, B. & Zoghbi, A., 2019, *STROBE-X: X-ray Timing and Spectroscopy on Dynamical Timescales from*

- Microseconds to Years*, Probe class mission concept study report submitted to NASA for Astro2020 Decadal Survey, (arXiv:1903.03035)
- 16*. Cassano, R., Fender, R., Ferrari, C., Merloni, A., Akahori, T., Akamatsu, H., Ascasibar, Y., Ballantyne, D., Brunetti, G., Corbelli, E., Croston, J., Donnarumma, I., Etori, S., Ferdman, R., Feretti, L., Forbrich, J., Gheller, C., Ghirlanda, G., Govoni, F., Ingallinera, A., Johnston-Hollitt, M., Markevitch, M., Mesinger, A., Moss, V., Nicastro, F., Padovani, P., Panessa, F., Piro, L., Ponti, G., Pratt, G., Rossi, E.M., Sadler, E., Sasaki, M., Soria, R., Stevens, I., van Weeren, R., Vazza, F. & Webb, N., 2018, *SKA-Athena Synergy White Paper*, (arXiv:1807.09080)
- 15*. Ray, P.S., Arzoumanian, Z., Brandt, S., Burns, E. Chakrabarty, D., Feroci, M., Gendreau, K.C., Gevin, O., Hernanz, M., Jenke, P., Kenyon, S., Gálvez, J.L., Maccarone, T.J., Okajima, T., Remillard, R.A., Schanne, S., Tenzer, C., Vacchi, A., Wilson-Hodge, C.A., Winter, B., Zane, S., Ballantyne, D.R., Bozzo, E., Brenneman, L.W., Cackett, E., De Rosa, A., Goldstein, A., Hartmann, D.H., McDonald, M., Stevens, A.L., Tomsick, J.A., Watts, A.L., Wood, K.S., Zoghbi, A. and the STROBE-X Science Working Group, 2018, *STROBE-X: A probe-class mission for X-ray spectroscopy and timing on timescales from microseconds to years*, Proceedings Volume 10699, Space Telescopes and Instrumentation 2018: Ultraviolet to Gamma Ray, 1069919
- 14*. Feroci, M., Bozzo, E., Brandt, S., Hernanz, M., van der Klis, M., Liu, L.-P., Orleanski, P., Pohl, M., Santangelo, A., Schanne, S., Stella, L., Takahashi, T., Tamura, H., Watts, A., Wilms, J., Zane, S., Zhang, S.-N., Bhattacharyya, S., Agudo, I., Ahangarianabhari, M., Albertus, C., Alford, M., Alpar, A., Altamirano, D., Alvarez, L., Amati, L., Amoros, C., Andersson, N., Antonelli, A., Argan, A., Artigue, R., Artigues, B., Atteia, J.-L., Azzarello, P., Bakala, P., Ballantyne, D., Baldazzi, G., Baldo, M., Balman, S., Barbera, M., van Baren, C., Barret, D., Baykal, A., Begelman, M., Behar, E., Behar, O., Belloni, T., Bernardini, F., Bertuccio, G., Bianchi, S., Bianchini, A., Binko, P., Blay, P., Bocchino, F., Bode, M., Bodin, P., Bombaci, I., Bonnet Bidaud, J.-M., Boutloukos, S., Bouyjou, F., Bradley, L., Braga, J., Briggs, M. S., Brown, E., Buballa, M., Bucciantini, N., Burderi, L., Burgay, M., Bursa, M., Budtz-Jørgensen, C., Cackett, E., Cadoux, F., Cais, P., Caliendo, G. A., Campana, R., Campana, S., Cao, X., Capitanio, F., Casares, J., Casella, P., Castro-Tirado, A. J., Cavazzuti, E., Cavechi, Y., Celestin, S., Cerda-Duran, P., Chakrabarty, D., Chamel, N., Château, F., Chen, C., Chen, Y., Chen, Y., Chenevez, J., Chernyakova, M., Coker, J., Cole, R., Collura, A., Coriat, M., Cornelisse, R., Costamante, L., Cros, A., Cui, W., Cumming, A., Cusumano, G., Czerny, B., D'Ai, A., D'Ammando, F., D'Elia, V., Dai, Z., Del Monte, E., De Luca, A., De Martino, D., Dercksen, J. P. C., De Pasquale, M., De Rosa, A., Del Santo, M., Di Cosimo, S., Degenaar, N., den Herder, J. W., Diebold, S., Di Salvo, T., Dong, Y., Donnarumma, I., Doroshenko, V., Doyle, G., Drake, S. A., Durant, M., Emmanoulopoulos, D., Enoto, T., Erkut, M. H., Esposito, P., Evangelista, Y., Fabian, A., Falanga, M., Favre, Y., Feldman, C., Fender, R., Feng, H., Ferrari, V., Ferrigno, C., Finger, M., Finger, M. H., Fraser, G. W., Frericks, M., Fullekrug, M., Fuschino, F., Gabler, M., Galloway, D. K., Gálvez Sanchez, J. L., Gandhi, P., Gao, Z., Garcia-Berro, E., Gendre, B., Gevin, O., Gezari, S., Giles, A. B., Gilfanov, M., Giommi, P., Giovannini, G., Giroletti, M., Gogus, E., Goldwurm, A., Goluchová, K., Götz, D., Gou, L., Gouiffes, C., Grandi, P., Grassi, M., Greiner, J., Grinberg, V., Groot, P., Gschwender, M., Gualtieri, L., Guedel, M., Guidorzi, C., Guy, L., Haas, D., Haensel, P., Hailey, M., Hamuguchi, K., Hansen, F., Hartmann, D. H., Haswell, C. A., Hebel, K., Heger, A., Hempel, M., Hermsen, W., Homan, J., Hornstrup, A., Hudec, R., Huovelin, J., Huppenkothen, D., Inam, S. C., Ingram, A., in't Zand, J. J. M., Israel, G., Iwasawa, K., Izzo, L., Jacobs, H. M., Jetter, F., Johannsen, T., Jenke, P. A., Jonker, P., Josè, J., Kaaret, P., Kalamkar, K., Kalemci, E., Kanbach, G., Karas, V., Karelín, D., Kataria, D., Keek, L., Kennedy, T., Klochkov, D., Kluzniak, W., Koerding, E., Kokkotas, K., Komossa, S., Korpela, S., Kouveliotou, C., Kowalski, A. F., Kreykenbohm, I., Kuiper, L. M., Kunneriath, D., Kurkela, A., Kuvvetli, I., La Franca, F., Labanti, C., Lai, D., Lamb, F. K., Lachaud, C., Laubert, P. P., Lebrun, F., Li, X., Liang, E., Limousin, O., Lin, D., Linares, M., Linder, D., Lodato, G., Longo, F., Lu, F., Lund, N., Maccarone, T. J., Macera, D., Maestre, S., Mahmoodifar, S., Maier, D., Malcovati, P., Malzac, J., Malone, C., Mandel, I., Mangano, V.,

- Manousakis, A., Marelli, M., Margueron, J., Marisaldi, M., Markoff, S. B., Markowitz, A., Marinucci, A., Martindale, A., Martínez, G., McHardy, I. M., Medina-Tanco, G., Mehdipour, M., Melatos, A., Mendez, M., Mereghetti, S., Migliari, S., Mignani, R., Michalska, M., Mihara, T., Miller, M. C., Miller, J. M., Mineo, T., Miniutti, G., Morsink, S., Motch, C., Motta, S., Mouchet, M., Mouret, G., Mulaová, J., Muleri, F., Muñoz-Darias, T., Negueruela, I., Neilsen, J., Neubert, T., Norton, A. J., Nowak, M., Nucita, A., O'Brien, P., Oertel, M., Olsen, P. E. H., Orienti, M., Orío, M., Orlandini, M., Osborne, J. P., Osten, R., Ozel, F., Pacciani, L., Paerels, F., Paltani, S., Paolillo, M., Papadakis, I., Papitto, A., Paragi, Z., Paredes, J. M., Patruno, A., Paul, B., Pederiva, F., Perinati, E., Pellizzoni, A., Penacchioni, A. V., Peretz, U., Perez, M. A., Perez-Torres, M., Peterson, B. M., Petracek, V., Pittori, C., Pons, J., Portell, J., Possenti, A., Postnov, K., Poutanen, J., Prakash, M., Prandoni, I., Le Provost, H., Psaltis, D., Pye, J., Qu, J., Rambaud, D., Ramon, P., Ramsay, G., Rapisarda, M., Rashevski, A., Rashevskaya, I., Ray, P. S., Rea, N., Reddy, S., Reig, P., Reina Aranda, M., Remillard, R., Reynolds, C., Rezzolla, L., Ribo, M., dela Rie, R., Riggio, A., Rios, A., Rischke, D. H., Rodríguez-Gil, P., Rodríguez, J., Rohlfs, R., Romano, P., Rossi, E. M. R., Rozanska, A., Rousseau, A., Rudak, B., Russell, D. M., Ryde, F., Sabau-Graziati, L., Sakamoto, T., Sala, G., Salvaterra, R., Salvetti, D., Sanna, A., Sandberg, J., Savolainen, T., Scaringi, S., Schaffner-Bielich, J., Schatz, H., Schee, J., Schmid, C., Serino, M., Shakura, N., Shore, S., Schnittman, J. D., Schneider, R., Schwenk, A., Schwöpe, A. D., Sedrakian, A., Seyler, J.-Y., Shearer, A., Slowikowska, A., Sims, M., Smith, A., Smith, D. M., Smith, P. J., Sobolewska, M., Sochora, V., Soffitta, P., Soleri, P., Song, L., Spencer, A., Stamerra, A., Stappers, B., Staubert, R., Steiner, A. W., Stergioulas, N., Stevens, A. L., Stratta, G., Strohmayer, T. E., Stuchlik, Z., Suchy, S., Suleimanov, V., Tamburini, F., Tauris, T., Tavecchio, F., Tenzer, C., Thielemann, F. K., Tiengo, A., Tolos, L., Tombesi, F., Tomsick, J., Torok, G., Torrejon, J. M., Torres, D. F., Torresi, E., Tramacere, A., Traulsen, I., Trois, A., Turolla, R., Turriziani, S., Typel, S., Uter, P., Uttley, P., Vacchi, A., Varniere, P., Vaughan, S., Vercellone, S., Vietri, M., Vincent, F. H., Vrba, V., Walton, D., Wang, J., Wang, Z., Watanabe, S., Wawrzaszek, R., Webb, N., Weinberg, N., Wende, H., Wheatley, P., Wijers, R., Wijnands, R., Wille, M., Wilson-Hodge, C. A., Winter, B., Walk, S. J., Wood, K., Woosley, S. E., Wu, X., Xu, R., Yu, W., Yuan, F., Yuan, W., Yuan, Y., Zampa, G., Zampa, N., Zampieri, L., Zdzunik, L., Zdziarski, A., Zech, A., Zhang, B., Zhang, C., Zhang, S., Zingale, M. & Zwart, F., 2016, *The LOFT mission concept: a status update*, in *Space Telescopes and Instrumentation 2016: Ultraviolet to Gamma Ray*, Proc. SPIE, Vol. 9905, id. 99051R.
- 13*. **Draper, A.R.^G** & Ballantyne, D.R., 2010, *On the Blazar Contribution to the Cosmic X-ray Background: Implications for the Compton Thick Population*, in *X-ray Astronomy 2009: Present Status, Multi-wavelength Approach and Future Perspectives*, AIP Conference Proceedings Vol. 1248, Comastri, A., Cappi, M. & Angelini, L., eds., p. 421.
- 12*. D'Ai, A., Di Salvo, T., Iaria, R., Papitto, A. & Ballantyne, D.R., 2010, *A self-consistent approach to the reflection component in 4U 1705-44*, in *X-ray Astronomy 2009: Present Status, Multi-wavelength Approach and Future Perspectives*, AIP Conference Proceedings Vol. 1248, Comastri, A., Cappi, M. & Angelini, L., eds., p. 63.
- 11*. Nandra, K., Aird, J.A., Alexander, D.M., Ballantyne, D.R., Barcons, X., Bauer, F.E., Boller, T., Brandt, W.N., Brusa, M., Cattaneo, A., Chartas, G., Coil, A.L., Comastri, A., Croton, D.J., Della Ceca, R., Dickinson, M., Fabian, A.C., Fazio, G.G., Fiore, F., Flanagan, K.A., Forman, W.R., Gehrels, N., Georgakakis, A., Georgantopoulos, I., Gilli, R., Hasinger, G., Hopkins, P.F., Hornschemeier, A.E., Ivison, R.J., Kauffmann, G., King, A.R., Koekemoer, A.M., Koo, D.C., Kunieda, H., Laird, E.S., Levenson, N.A., Li, Y., Madau, P., Ohashi, T., Pounds, K.A., Primack, J.R., Ranalli, P., Ricker, G.R., Rossi, E.M., Shemmer, O., Somerville, R.S., Stern, D., Stiavelli, M., Tananbaum, H., Terashima, Y., Treister, E., Ueda, Y., Vignali, C., Volonteri, M., Watson, M.G., White, N.E. & White, S.D.M., 2009, *The Growth of Supermassive Black Holes Across Cosmic Time*, Science White paper submitted to Astro2010 Decadal survey (arXiv:0903.0547).
10. Erlund, M.C., Fabian, A.C., Blundell, K., Moss, C. & Ballantyne, D.R., 2008, *The Luminous X-ray*

- Hotspot In 4C 74.26: Jet Dynamics At Work*, in Extragalactic Jets: Theory and Observation from Radio to Gamma Ray, ASP Conference Series Vol. 386, Rector, T.A. & De Young, D.S., eds., p. 56.
9. Ballantyne, D.R., 2007, *The Accretion Geometry in Radio-Loud Active Galaxies*, Mod. Phys. Lett. A, Vol. 22, p. 2397 (invited review article).
 8. Ballantyne, D.R., Ferland, G.J., Martin, P.G., van Hoof, P.A.M. & Weingartner, J.C., 2004, *Revisiting the Torus: Spectral Predictions from the IR to the X-ray*, in The Restless High Energy Universe: the 2nd BeppoSAX Symposium, Nuclear Physics B. (Proc. Suppl.), Vol. 132, van den Heuvel, E.P.J., in 't Zand, J.J.M. & Wijers, R.A.M.J., eds., p. 145.
 7. Ballantyne, D.R., Fabian, A.C. & Vaughan, S., 2003, *Ionized Disc Models of MCG-6-30-15*, in Active Galactic Nuclei: from Central Engine to Host Galaxy, ASP Conference Series Vol. 290, Collin, S., Combes, F. & Shlosman, I., eds., p. 77.
 6. Ballantyne, D.R., Ross, R.R. & Fabian, A.C., 2002, *Reflection Spectra from Photoionized Accretion Discs*, in X-ray Spectroscopy of AGN with Chandra and XMM-Newton, Boller, Th., Komossa, S., Kahn, S., Kunieda, H. & Gallo, L., eds., MPE Report 279, p. 73
 5. Ballantyne, D.R., Ross, R.R. & Fabian, A.C., 2001, *Ionized Iron Lines in X-ray Reflection Spectra*, in Spectroscopic Challenges of Photoionized Plasmas, ASP Conference Series Vol. 247, Ferland, G.J. & Savin D.W., eds., pp. 457-461
 4. Péquignot, D., Ferland, G.J., Netzer, H., Kallman, T., Ballantyne, D.R., Dumont, A-M., Ercolano, B., Harrington, P., Kraemer, S., Morisset, C., Nayakshin, S., Rubin, R.H. & Sutherland, R., 2001, *Photoionization Model Nebulae*, in Spectroscopic Challenges of Photoionized Plasmas, ASP Conference Series Vol. 247, Ferland, G.J. & Savin D.W., eds., pp. 533-556
 3. Magorrian, J. & Ballantyne, D.R., 1999, *Constraining the Mass Distribution of Spherical Galaxies*, in Galaxy Dynamics, ASP Conference Series Vol. 182, Merritt, D.R., Valluri, M. & Sellwood, J.A., eds., pp. 160-161
 2. Davies, J.K., Tholen, D.J. & Ballantyne, D.R., 1996, *Infrared Observations of Distant Asteroids*, in Completing the Inventory of the Solar System, ASP Conference Series Vol. 107, Rettig, T.W. & Hahn, J.M., eds., pp. 97-105.
 1. Biver, N., Ballantyne, D.R., Davies, J.K., Dent, W.R.F., Bocklee-Morvan, D., Crovisier, J. & Rauer, H., 1996, *Comet C/1995 O1 (Hale-Bopp)*, IAU Circular 6386.

D. Presentations

Upcoming invited presentations:

Ballantyne D.R. (2020) **Accretion Disk Workshop** (invited speaker), Shanghai, China (event tentative due to coronavirus)

Invited presentations at conferences:

Ballantyne D.R. (2019) **Accretion History of AGNs II** (invited speaker), Miami, U.S.A.

Ballantyne D.R. (2019) **Bursting the Bubble: Connecting Thermonuclear Burst Research to a Wider Community** (invited Lorentz Center workshop participant), Leiden, The Netherlands.

Ballantyne D.R. (2017) **The Radio Synchrotron Background Workshop** (invited speaker), Richmond, U.S.A

Ballantyne D.R. (2017) **SKA-Athena Synergy Workshop** (selected presentation), Jodrell Bank, U.K.

Ballantyne D.R. (2015) **40 years of X-ray bursts: Extreme explosions in dense environments** (invited speaker) ESAC, Madrid, Spain

Ballantyne D.R. (2014) **NuSTAR Extragalactic Surveys Workshop** (invited speaker) Durham, U.K.

Ballantyne D.R. (2013) **Astro-GR@Atlanta 2013** (invited speaker) Atlanta, U.S.A.

Ballantyne D.R. (2012) **39th COSPAR Scientific Assembly Event E1. "Radio Meets Hard X-ray: Two Skies in Comparison"** (invited speaker) Mysore, India (unable to attend)

Ballantyne D.R. (2012) **Black Holes by the Black Sea** (invited speaker) Istanbul, Turkey

Ballantyne D.R. (2012) **NRAO-NAASC 2012 Workshop "Outflows, Winds and Jets: From Young**

- Stars to Supermassive Black Holes”** (invited panelist) Charlottesville, U.S.A.
 Ballantyne D.R. (2011) **The Emerging, Multiwavelength Picture of the Galactic Centre Environment**
 (invited speaker) Heidelberg, Germany
 Ballantyne D.R. (2011) **Unveiling the Far-IR and Sub-mm Extragalactic Universe: Herschel, ALMA,
 CCAT, SPICA, and Beyond** (invited speaker) Irvine, USA
 Ballantyne D.R. (2010) **CITA@25/Bond@60: The Theory of the Universe and Everything in It**
 (invited speaker) Toronto, Canada
 Ballantyne D.R. (2008) **Putting Gravity to Work: From Black Holes to Galaxy Clusters** (invited
 speaker) Cambridge, U.K.

Invited presentations at universities & institutes:

- Ballantyne D.R. (2018) Department of Astronomy, **University of Massachusetts at Amherst**,
Departmental Colloquium
 Ballantyne D.R. (2018) Department of Physics, **Clark Atlanta University** *Departmental Seminar*
 Ballantyne D.R. (2015) College of Sciences, **Georgia Institute of Technology**, *Dean’s Office Visit to
 School of Physics*
 Ballantyne D.R. (2015) Department of Physics and Astronomy, **Clemson University**, U.S.A.
Departmental Colloquium
 Ballantyne D.R. (2015) **Center for Astrophysics, Harvard University**, U.S.A. *High-Energy
 Astrophysics Seminar*
 Ballantyne D.R. (2014) Department of Physics and Astronomy, **College of Charleston**, U.S.A.
Departmental Colloquium
 Ballantyne D.R. (2014) Department of Physics and Astronomy, **Georgia State University**, U.S.A.
Departmental Colloquium
 Ballantyne D.R. (2013) Department of Physics and Astronomy, **Dartmouth College**, U.S.A.
Departmental Colloquium
 Ballantyne D.R. (2011) Department of Physics and Astronomy, **University of Kentucky**, U.S.A.
Astrophysics Seminar
 Ballantyne D.R. (2011) Department of Physics and Astronomy, **University of Georgia**, U.S.A.
Departmental Colloquium
 Ballantyne D.R. (2010) Department of Astronomy, **University of California at Berkeley**, U.S.A.
Departmental Colloquium
 Ballantyne D.R. (2010) Department of Astronomy, **University of Texas at Austin**, U.S.A. *Extragalactic
 Seminar*
 Ballantyne D.R. (2010) Department of Astronomy & Astrophysics, **The Pennsylvania State University**,
 U.S.A. *Departmental Colloquium*
 Ballantyne D.R. (2008) Department of Physics and Astronomy, **Georgia State University**, U.S.A.
Departmental Colloquium
 Ballantyne D.R. (2008) School of Physics, **Georgia Institute of Technology**, U.S.A. *Departmental
 Colloquium (Job Talk)*
 Ballantyne D.R. (2007) **Kavli Institute for Particle Astrophysics and Cosmology, Stanford**,
 California, U.S.A. *GLAST Lunch Talk*
 Ballantyne D.R. (2007) Astrophysics Group, Department of Physics, **Imperial College**, United Kingdom
Astrophysics Seminar (Job Talk)
 Ballantyne D.R. (2006) **Carnegie Observatories**, Pasadena, California, U.S.A. *Institutional Colloquium*
 Ballantyne D.R. (2006) Department of Physics & Astronomy, **University of Calgary**, Canada
Departmental Colloquium
 Ballantyne D.R. (2006) Department of Astronomy & Physics, **St. Mary’s University**, Canada
Departmental Colloquium (Job Talk)
 Ballantyne D.R. (2005) **NASA/Goddard Space Flight Center**, Greenbelt, Maryland, U.S.A. *Seminar*
 Ballantyne D.R. (2005) Steward Observatory, **The University of Arizona**, U.S.A. *Theoretical*

Astrophysics Colloquium

- Ballantyne D.R. (2005) Department of Physics, **McGill University**, Canada *Astrophysics Seminar*
- Ballantyne D.R. (2005) Steward Observatory, **The University of Arizona**, U.S.A. *Astrophysics Seminar*
- Ballantyne D.R. (2005) Yale Center for Astronomy & Astrophysics, **Yale University**, U.S.A. *Yale Center for Astronomy & Astrophysics Seminar*
- Ballantyne D.R. (2005) Department of Physics & Astronomy, **Clemson University**, U.S.A. *Departmental Colloquium (Job Talk)*
- Ballantyne D.R. (2005) Department of Physics, **University of Alabama at Huntsville**, U.S.A. *Departmental Colloquium (Job Talk)*
- Ballantyne D.R. (2005) Department of Physics & Astronomy, **Washington State University**, U.S.A. *Departmental Colloquium (Job Talk)*
- Ballantyne D.R. (2004) Department of Astronomy & Physics, **St. Mary's University**, Canada *Departmental Colloquium*
- Ballantyne D.R. (2004) Department of Physics & Center for Space Research, **MIT**, U.S.A. *Astrophysics Colloquium*
- Ballantyne D.R. (2003) Kavli Institute for Theoretical Physics, **University of California, Santa Barbara**, U.S.A. *Astrophysics Seminar*
- Ballantyne D.R. (2003) **Herzberg Institute for Astrophysics**, Victoria, British Columbia, Canada *Astrophysics Seminar (Job Talk)*
- Ballantyne D.R. (2002) Department of Physics and Astronomy, **University of Calgary**, Canada *Departmental Colloquium (Job Talk)*
- Ballantyne D.R. (2001) Department of Physics and Astronomy, **University of Western Ontario**, Canada *Astrophysics Seminar*
- Ballantyne D.R. (2001) Department of Physics and Astronomy, **University of Leicester**, United Kingdom *Astrophysics Seminar*

Contributed presentations at conferences:

(NB: presentations that resulted in published proceedings are listed in C and not below.)

- Blankenship, A., Fragile, P. & Ballantyne, D. (2020) *Simulating the Interactions of Type I X-ray Bursts with Accretion Disks*. Electronic presentation by A. Blankenship. **236th Meeting of American Astronomical Society**, Virtual Conference.
- Lanz, L., Hickox, R., Balokovic, M., Shimizu, T., Ricci, C., Goulding, A., Ballantyne, D., Bauer, F., Chen, C.-T., del Moro, A., Farrah, D., Koss, M., LaMassa, S., Masini, A. & Zappacosta, L. (2019) *Exploring AGN Structure with Reflection and Reprocessing in Swift/BAT AGN*. Poster presentation by L. Lanz. **17th Meeting of the High Energy Astrophysics Division of the American Astronomical Society**, Monterey, California.
- Ballantyne, D.R. (2019) *A Careful Examination of the Physical Conditions of a Warm Corona in AGN Accretion Disks*. Oral Presentation by D. Ballantyne. **17th Meeting of the High Energy Astrophysics Division of the American Astronomical Society**, Monterey, California.
- Averitt-Mackenzie, M. & Ballantyne, D.R. (2019) *The evolving X-ray spectrum of active galactic nuclei: evidence for an increasing reflection fraction with redshift*. Poster presentation by M. Averitt-Mackenzie. **233rd Meeting of the American Astronomical Society**, Seattle, Washington
- Wilson-Hodge, C., Ray, P., Maccarone, T. Chakrabarty, D., Gendreau, K., Arzoumanian, Z., Jenke, P., Ballantyne, D.R., Bozzo, E., Brandt, S., Brenneman, L., Christophersen, M., DeRosa, A., Feroci, M., Goldstein, A., Hartmann, D., Hernanz, M., McDonald, M., Philips, B., Remillard, R., Stevens, A., Tomsick, J., Watts, A., Wood, K.S. & Zane, S. (2019) *STROBE-X: X-ray Timing & Spectroscopy on Dynamical Timescales from Microseconds to Years*. Poster presentation by C. Wilson-Hodge. **233rd Meeting of the American Astronomical Society**, Seattle, Washington
- Gohil, R. & Ballantyne, D.R., (2018) *The Evolution of AGN Obscuration: A result of Dusty Nuclear Starburst Disks*. Oral presentation by R. Gohil. **231st Meeting of the American Astronomical Society**, Washington, D.C.

- Ballantyne, D.R., Balokovic, M., Garcia, J., Koss, M. & STROBE-X Team (2018) *AGN Science with STROBE-X*. Poster presentation by D. Ballantyne. **231st Meeting of the American Astronomical Society**, Washington, D.C.
- Wilson-Hodge, C., Ray, P., Maccarone, T. Chakrabarty, D., Gendreau, K., Arzoumanian, Z., Jenke, P., Ballantyne, D.R., Bozzo, E., Brandt, S., Brenneman, L., Christophersen, M., DeRosa, A., Feroci, M., Goldstein, A., Hartmann, D., Hernanz, M., McDonald, M., Philips, B., Remillard, R., Stevens, A., Tomsick, J., Watts, A., Wood, K.S. & Zane, S. (2018) *STROBE-X: X-ray Timing & Spectroscopy on Dynamical Timescales from Microseconds to Years*. Poster presentation by C. Wilson-Hodge. **231st Meeting of the American Astronomical Society**, Washington, D.C.
- Stern, D., Boorman, P., Annuar, A., Gandhi, P., Alexander, D., Lansbury, G., Asmus, D., Ballantyne, D.R., Bauer, F., Boggs, S.E., Brandt, W.N., Brightman, M., Christensen, F., Craig, W., Farrah, D., Goulding, A., Hailey, C.J., Harrison, F., Hoenig, S., Koss, M., LaMassa, S., Masini, A., Murray, S., Ricci, C., Risaliti, G., Rosario, D., Stanley, F. & Zhang, W (2017) *NGC1448 and IC 3639: Two Concealed Black Holes Lurking in Our Cosmic Backyard Unveiled by NuSTAR*. Poster presentation by D. Stern. . **229th Meeting of the American Astronomical Society**, Grapevine, Texas
- Gohil, R. & Ballantyne, D.R. (2017) *Exploring the Vertical Structure of Nuclear Starburst Disks: A Possible Source of AGN Obscuration at Redshift~1*. Poster presentation by R. Gohil. **229th Meeting of the American Astronomical Society**, Grapevine, Texas
- Ballantyne, D.R. (2017) *Clustering, Cosmology and a New Era in Black Hole Demographics: The Conditional Luminosity Function of AGNs*. Poster presentation by D. Ballantyne. **229th Meeting of the American Astronomical Society**, Grapevine, Texas
- Brightman, M., Masini, A., Ballantyne, D., Brandt, W.N., Chen, C.-T., Comastri, A., Farrah, D., Gandhi, P., Ricci, C., Stern, D. & Walton, D. (2016) *A growth-rate indicator for Compton-thick active galactic nuclei*. Oral presentation by M. Brightman. **Active Galactic Nuclei: what's in a name?** Garching, Germany
- Ballantyne, D.R. (2016) *Clustering, Cosmology and a New Era in Black Hole Demographics: The Conditional Luminosity Function of AGNs*. Poster presentation by D. Ballantyne. **15th Meeting of the High Energy Astrophysics Division of the American Astronomical Society**, Naples, Florida
- Ballantyne, D.R. & Keek, L. (2016) *Revealing the Evolving Accretion Disk Corona in AGNs with the Multi-Epoch X-ray Spectroscopy: the Case of Mrk 335*. Poster presentation by D. Ballantyne. **15th Meeting of the High Energy Astrophysics Division of the American Astronomical Society**, Naples, Florida
- Ballantyne, D.R. & Gohil R. (2016) *The Vertical Structure of Nuclear Starburst Disks: Testing a Model of AGN Obscuration*. Poster presentation by D. Ballantyne. **15th Meeting of the High Energy Astrophysics Division of the American Astronomical Society**, Naples, Florida
- Keck, M., Brenneman, L., Elvis, M., Fuerst, F., Madejski, G., Matt, G., Harrison, F., Stern, D., McDowell, J., Risaliti, G., Marinucci, A., Walton, D. & Ballantyne, D.R. (2014) *The AGN of NGC 4151 as revealed by NuSTAR and Suzaku*. Poster presentation by M. Keck. **14th Meeting of the High Energy Astrophysics Division of the American Astronomical Society**, Chicago, Illinois
- Ballantyne, D.R., Bollenbacher, J., Brenneman, L., Madsen, K., Balokovic, M., Boggs, S., Christensen, F., Craig, W., Gandhi, P., Hailey, C., Harrison, F., Lohfink, A., Marinucci, A., Markwardt, C., Stern, D., Walton, D. & Zhang, W. (2014) *NuSTAR Reveals the Comptonizing Corona of the Broad-Line Radio galaxy 3C 382*. Poster presentation by D. Ballantyne. **14th Meeting of the High Energy Astrophysics Division of the American Astronomical Society**, Chicago, Illinois
- Keck, L, Ballantyne, D.R., Kuulkers, E. & Strohmayer, T. (2014) *A superburst's impact on the accretion disk around the neutron star 4U 1636-536*. Poster presentation by L. Keck. **14th Meeting of the High Energy Astrophysics Division of the American Astronomical Society**, Chicago, Illinois
- Keck, L., Ballantyne, D., Kuulkers, E. & Strohmayer, T. (2014) *The impact of an X-ray superburst from the neutron star 4U 1636-536 on the accretion disk*. Oral presentation by L. Keck. **The X-ray Universe 2014**, Dublin, Ireland.

- Brenneman, L., Fuerst, F., Walton, D., Madjeski, G., Matt, G., Marinucci, A., Risaliti, G., Elvis, M., Fabian, A., Ballantyne, D.R., Harrison, F., Stern, D. & the NuSTAR Team (2014) *Revealing Fundamental Physical Properties of AGN with NuSTAR, XMM and Suzaku*. Poster presentation by L. Brenneman. **223rd Meeting of the American Astronomical Society**, Washington, D.C.
- Ballantyne, D.R. (2013) *The contribution of merger and secular processes to the evolution of active galactic nuclei*. Oral presentation by D. Ballantyne. **Massive Black Holes: Birth, Growth and Impact**, Santa Barbara, California
- Ballantyne, D.R., Ajello, M., Alexander, D., Assef, R., Balokovic, M., Bauer, F., Boggs, S.E., Boydston, K., Bridge, C., Christensen, F., Craig, W., Del Moro, A., Eisenhardt, P., Gonzalez, A., Hailey, C.J., Harrison, F., Lu, T.-N., Stern, D. Zhang, W. & NuSTAR Team (2013) *The NuSTAR Extragalactic Survey: A First Look at the Distant High-Energy X-ray Background Population*. Oral presentation by D. Ballantyne. **13th Meeting of the High Energy Astrophysics Division of the American Astronomical Society**, Monterey, California
- Ballantyne, D.R. (2013) *The Average 0.5-200 keV Spectrum of AGNs at $z \sim 0$* . Poster presentation by D. Ballantyne. **13th Meeting of the High Energy Astrophysics Division of the American Astronomical Society**, Monterey, California
- Shemmer, O., Anderson, S., Ballantyne, D., Barth, A., Brandt, W.N., Brunner, R., Chartas, G., Coppi, P., de Vries, W., Eracleous, M., Fan, X., Gibson, R., Gray, A.G., Green, R., Kimball, A., Lacy, M., Lira, P., Madejski, G., Newman, J.A., Richards, G., Schneider, D., Seth, A., Smith, H., Strauss, M.A., Treister, E., Trouille, L., Urry, C.M. & Vanden Berk, D., (2013) *AGN Science with the LSST*. Poster presentation by O. Shemmer. **221st Meeting of the American Astronomical Society**, Long Beach, California.
- Balokovic, M., Ballantyne, D.R., Blandford, R., Boggs, S.E., Boydston K., Brenneman, L. Cappi, M., Christensen, F., Craig, W., Elvis, M., Fabian, A., Fuerst, F., Guainazzi, M., Hailey, C.J., Harrison, F., Madejski, G., Marinucci, A., Matt, G., Nandra, K., Reynolds, C.S., Stern, D., Walton, D., Zhang, W. & NuSTAR Team, (2013) *Cross-calibration of NuSTAR: A Multi-observatory snapshot of blazar 3C 273*. Poster presentation by M. Balokovic. **221st Meeting of the American Astronomical Society**, Long Beach, California.
- Elvis, M., Ballantyne, D.R., Blandford, R., Boggs, S.E., Boydston K., Brenneman, L. Cappi, M., Christensen, F., Craig, W., Fabian, A., Fuerst, F., Guainazzi, M., Hailey, C.J., Harrison, F., Madejski, G., Marinucci, A., Matt, G., Nandra, K., Reynolds, C.S., Stern, D., Walton, D., Zhang, W. & NuSTAR Team, (2013) *NuSTAR Observations of Bright AGNs*. Poster presentation by M. Elvis. **221st Meeting of the American Astronomical Society**, Long Beach, California.
- Lu, T.-N., Ajello, M., Alexander, D., Ballantyne, D.R., Balokovic, M., Bauer, F., Boggs, S.E., Boydston K., Christensen, F., Craig, W., Del Moro, A., Hailey, C.J., Harrison, F., Stern, D., Zhang, W. & NuSTAR Team, (2013) *An Overview of the NuSTAR Swift-BAT Extragalactic Survey and Preliminary Results*. Poster presentation by T.-N. Lu. **221st Meeting of the American Astronomical Society**, Long Beach, California.
- Boydston, K., Ajello, M., Alexander, D., Assef, R., Ballantyne, D.R., Balokovic, M., Bauer, F., Boggs, S.E., Brandt, W.N., Christensen, F., Civano, F., Comastri, A., Craig, W., Del Moro, A., Elvis, M., Fiore, F., Hailey, C.J., Harrison, F., Helfand, D.J., Hickox, R., LaMassa, S., Lansbury, G., Luo, B., Madsen, K., Markwardt, C., Mullaney, J., Puccetti, S, Saez, C., Stern, D., Tagliaferri, G., Treister, E., Urry, C.M., Walton, D., Zhang, W. & NuSTAR Team, (2013) *Extragalactic Surveys with NuSTAR*. Poster presentation by K. Boydston. **221st Meeting of the American Astronomical Society**, Long Beach, California.
- Ballantyne, D.R. (2012) *Connecting star formation, galaxy evolution and the growth of BHs*, Oral presentation by D. Ballantyne. **Black Hole Feedback 2012**, Dartmouth College, Hanover, New Hampshire
- Ballantyne, D.R. (2012) *The Evolution of the X-ray Background: The New Era of High Energies*, Oral presentation by D. Ballantyne. **Energetic Astronomy**, Annapolis, Maryland
- Draper, A.R. & Ballantyne, D.R. (2012) *Which Processes are Responsible for Triggering Active Galactic*

- Nuclei?* Poster presentation by A. Draper. **219th Meeting of the American Astronomical Society**, Austin, Texas.
- Ballantyne, D.R., Draper, A., Madsen, K., Rigby, J & Treister, E. (2011) *X-ray Number Counts for NuSTAR and Other Hard X-ray Imaging Missions*. Poster Presentation by D. Ballantyne. **12th Meeting of the High Energy Astrophysics Division of the American Astronomical Society**, Newport, Rhode Island
- Ballantyne, D.R., McDuffie, J. & Rusin, J. (2011) *A Correlation between the Ionization State of the Inner Accretion Disk and the Eddington Ratio of Active Galactic Nuclei*. Oral Presentation by D. Ballantyne. **12th Meeting of the High Energy Astrophysics Division of the American Astronomical Society**, Newport, Rhode Island
- Draper, A.R. & Ballantyne, D.R. (2011) *Active Galactic Nuclei, Host Star Formation, and the Far Infrared*. Poster presentation by A. Draper. **218th Meeting of the American Astronomical Society**, Boston, Massachusetts
- Gibson, R., Anderson, S., Ballantyne, D., Barth, A., Brandt, W.N., Brunner, R., Chartas, G., Coppi, P., de Vries, W., Eracleous, M., Fan, X., Gray, A.G., Green, R., Ivezić, Z., Lacy, M., Lira, P., Madejski, G., Newman, J.A., Richards, G., Schneider, D., Seth, A., Shemmer, O., Smith, H., Strauss, M.A., Treister, E. & Vanden Berk, D., (2011) *AGN Science with the LSST*. Poster presentation by R. Gibson. **217th Meeting of the American Astronomical Society**, Seattle, Washington.
- Pierce, C.M. & Ballantyne, D.R. (2010) *Average Spectral Energy Distributions of AGN Host Galaxies at $z < 1$ and the Geometries of Their Obscuring Clouds*. Poster presentation by C. Pierce. **11th Meeting of the High Energy Astrophysics Division of the American Astronomical Society**, Kona, Hawaii.
- Ballantyne, D.R. (2010) *The cosmic density and distribution of relativistic iron lines*. Oral presentation by D. Ballantyne. **Probing Strong Gravity Near Black Holes**, Prague, Czech Republic
- Richards, G.T., Anderson, S., Ballantyne, D., Barth, A., Brandt, W.N., Brunner, R., Chartas, G., Coppi, P., de Vries, W., Eracleous, M., Fan, X., Gibson, R., Gray, A.G., Green, R., Lacy, M., Lira, P., Madejski, G., Newman, J.A., Schneider, D., Shemmer, O., Smith, H., Strauss, M.A., Treister, E. & Vanden Berk, D., (2010) *AGN Science with the LSST*. Poster presentation by G. Richards. **215th Meeting of the American Astronomical Society**, Washington, D.C.
- Cackett, M.E., Miller, J.M., Ballantyne, D.R., Barret, D., Bhattacharyya, S., Boutelier, M., Miller, M.C., Strohmayer, T.E. & Wijnands, R. (2009) *Fe K Emission Lines in Neutron Star Low-Mass X-ray Binaries*. Oral Presentation by E. Cackett. **The Energetic Cosmos: from Suzaku to ASTRO-H**, Otaru, Japan.
- Ballantyne, D.R. (2009) *Galaxy and Black Hole Evolution in the SKA Era*, Poster presentation by D. Ballantyne. **Meeting of the Canadian Astronomical Society**, Toronto, Canada
- Ballantyne, D.R. (2009) *AGN Evolution and the X-ray Background* Oral presentation by D. Ballantyne **Multi-Messenger Relativistic Astrophysics**, Atlanta, Georgia
- Brandt, W.N., Anderson, S., Ballantyne, D., Barth, A., Brunner, R., Chartas, G., de Vries, W., Eracleous, M., Gibson, R., Green, R., Lacy, M., Madejski, G., Schneider, D., Shemmer, O., Smith, H., Smith, P., Vanden Berk, D. & LSST AGN Science Collaboration (2009) *Active Galaxy Science with the Large Synoptic Survey Telescope*. Poster presentation by N. Brandt. **213th Meeting of the American Astronomical Society**, Long Beach, California.
- Stern, D., Harrison, F., Ballantyne, D., Madejski, G. & NuSTAR Team, (2009) *Extragalactic Surveys with NuSTAR*. Poster presentation by D. Stern. **213th Meeting of the American Astronomical Society**, Long Beach, California.
- Ballantyne, D.R. (2008) *Obscured AGNs and Deep Radio Surveys*. Poster presentation by D. Ballantyne. **The EVLA Vision: Galaxies through Cosmic Time**, Socorro, New Mexico
- Ballantyne, D.R. (2008) *AGN Number Counts in the NuSTAR Energy Band*. Oral presentation by D. Ballantyne. **10th Meeting of the High Energy Astrophysics Division of the American Astronomical Society**, Los Angeles, California

- Ballantyne, D.R. & Thompson, T. (2008) *Obscuring AGN with Nuclear Starburst Disks*. Poster presentation by D. Ballantyne. **10th Meeting of the High Energy Astrophysics Division of the American Astronomical Society**, Los Angeles, California
- Ballantyne, D.R., Ozel, F. & Psaltis, D. (2008) *Constraining Radiatively Inefficient Accretion Flows with Sub-mm Polarization Observations*. Oral presentation by D. Ballantyne. **2011th Meeting of the American Astronomical Society**, Austin, Texas
- Ballantyne, D.R. (2007) *The Galactic Center at High and Low Energies*. Oral presentation by D. Ballantyne. **Meeting of Canadian Astronomical Society**, Kingston, Canada
- Ballantyne, D.R. & Melia, F. (2006) *TeV Protons from Sgr A* as the Origin for the Galactic Center HESS Source*. Poster presentation by D. Ballantyne. **9th Meeting of the High Energy Astrophysics Division of the American Astronomical Society**, San Francisco, California
- Ballantyne, D.R. (2006) *Accreting Black Holes as Probes of Galaxy Evolution: Connecting the X-ray Background to the Mid-Infrared*. Oral presentation by D. Ballantyne. **Physics and Astrophysics of Supermassive Black Holes**, Santa Fe, New Mexico
- Ballantyne, D.R., Donley J., Papovich, C., Rieke, G., Rigby, J. & Shi, Y. (2006) *Does the AGN Unified Model Evolve with Redshift? Utilizing the X-ray Background to Predict the Mid-Infrared*. Oral presentation by D. Ballantyne. **208th Meeting of the American Astronomical Society**, Calgary, Canada
- Ballantyne, D.R. (2006) *Accreting Black Holes as Probes of Galaxy Evolution: Connecting the X-ray Background to the Mid-Infrared*, Oral presentation by D. Ballantyne. **Meeting of Canadian Astronomical Society**, Calgary, Canada
- Ballantyne, D.R., Everett, J.E. & Murray, N. (2005) *Connecting Galaxy Formation, Star Formation and the X-ray Background*. Oral presentation by D. Ballantyne. **Six Years of Science with Chandra Symposium**, Boston, Massachusetts
- Ballantyne, D.R. (2005) *Accretion Geometry in Radio-Loud Active Galaxies*. Oral presentation by D. Ballantyne. **Physics of Astrophysical Outflows and Accretion Disks**, Santa Barbara, California
- Ballantyne, D.R. (2005) *How Black Holes Make Jets: Clues from X-ray Spectroscopy*. Oral presentation by D. Ballantyne. **Meeting of Canadian Astronomical Society**, Montreal, Canada
- Ballantyne, D.R., Strohmayer, T.E. & Kuulkers, E. (2004) *Visualizing the Inner Regions of Accretion Disks around Neutron Stars using Superbursts*. Oral presentation by D. Ballantyne. **8th Meeting of the High Energy Astrophysics Division of the American Astronomical Society**, New Orleans, Louisiana
- Everett, J.E. & Ballantyne, D.R. (2004) *Continuum-Driven High-Velocity X-ray Winds*. Poster presentation by J. Everett. **8th Meeting of the High Energy Astrophysics Division of the American Astronomical Society**, New Orleans, Louisiana
- Ballantyne, D.R., Turner, N.J. & Young, A.J. (2004) *X-ray Reflection from Inhomogeneous Accretion Disks: Emission Line Variability*, Poster presentation by D. Ballantyne. **8th Meeting of the High Energy Astrophysics Division of the American Astronomical Society**, New Orleans, Louisiana
- Ballantyne, D.R. & Strohmayer, T.E. (2004) *Visualizing the Inner Regions of Accretion Disks around Neutron Stars using Superbursts*. Oral presentation by D. Ballantyne. **Meeting of Canadian Astronomical Society**, Winnipeg, Canada
- Ballantyne, D.R. & Fabian, A.C. (2003) *The Contribution of Particle Impact to the Production of Fe K α Emission*. Poster Presentation by D. Ballantyne. **7th Meeting of the High Energy Astrophysics Division of the American Astronomical Society**, Mt. Tremblant, Canada
- Ballantyne, D.R., Fabian, A.C. & Vaughan, S. (2003) *Reflections on MCG-6-30-15*. Poster presentation by D. Ballantyne. **201st Meeting of the American Astronomical Society**, Seattle, Washington
- Ballantyne, D.R. (2002) *The properties of soft X-ray emission lines from accretion discs*. Oral presentation by D. Ballantyne. **National Astronomy Meeting**, Bristol, U.K.
- Ballantyne, D.R. & Ramirez-Ruiz, E. (2001) *Fe K α Emission from X-ray Reflection: Predictions for Gamma-ray Burst Models*. Poster presentation by D. Ballantyne. **Two Years of Science with Chandra**, Washington, D.C.

Ballantyne, D.R. & Fabian, A.C. (2001) *Relativistic Ionized Accretion Disc Models of MCG-6-30-15*.
Poster presentation by D. Ballantyne. **X-Ray Emission from Accretion onto Black Holes**,
Baltimore, Maryland

Ballantyne, D.R., Ross.R.R. & Fabian, A.C. (2000) *Ionised Iron Lines in X-ray Reflection Spectra*. Poster
presentation by D. Ballantyne. **The 2000 Meeting of the High Energy Astrophysics Division of
the American Astronomical Society**, Honolulu, Hawaii

Morales R., Fabian, A. & Ballantyne, D.R. (2000) *An upper limit on the AGN BH Mass given by the
Warm Absorber*. Poster presentation by R. Morales. **The 2000 Meeting of the High Energy
Astrophysics Division of the American Astronomical Society**, Honolulu, Hawaii

E. Grants and Contracts

E1. As Principal Investigator

Currently funded:

No data.

Previous funding:

Title: “Connecting Star Formation, Galaxy Evolution and the Growth of Black
Holes”

Agency: NSF AST-1008067

Total Amount: \$391,679

Role: PI

Collaborators: n/a

Contract Period: 2010-2015

Candidate’s Share: 100%

Title: “Time-Resolved Reflection Modeling of the 4U 1636-53 Superburst”

Agency: NASA NNX13AI47G

Total Amount: \$100,000

Role: PI

Collaborators: n/a

Contract Period: 2013-2014

Candidate’s Share: 100%

E2. As Co-Principal Investigator

Currently funded:

No data.

Previous funding:

Title: “Collaborative Research: The multi-scale physics of massive black hole
formation, fueling and feedback”

Agency: NSF AST-1333360

Total Amount: \$571,378

Role: Co-PI

Collaborators: Georgia Tech PI: Pablo Laguna, other GT co-PIs: John Wise, Tamara
Bogdanović; Yale PI: Priya Natarajan; Univ. of Maryland PI: Chris Reynolds

Contract Period: 2013-2017

Candidate’s Share: 25%

Title: “Don’t Try This in a Lab: Using Exploding Neutron Stars to Study the
Physics of Gas Disks”

Agency: South Carolina NASA EPSCoR
 Total Amount: \$23,286
 Role: Co-I
 Collaborators: PI: P. Chris Fragile (College of Charleston)
 Contract Period: 2017-2018
 Candidate's Share: 0%

E3. As Senior Personnel or Contributor

No data

E4. Pending Proposals

Title: "Accretion Disks in the Spotlight: Exploring the Physics of Accretion with X-ray Bursts"
 Agency: NASA Astrophysics Data Analysis Program
 Total Amount: \$317,741
 Role: PI
 Collaborators: T. Strohmayer (NASA/GSFC), P. Bult (NASA/GSFC), D. Chakrabarty (MIT)
 Contract Period: 1/1/2021-12/31/2023
 Candidate's Share: 100%

Title: "NRT-WoU: Transforming Graduate Education at the Convergence of Multi-Messenger Astrophysics and Data Science"
 Agency: NSF Division of Graduate Education
 Total Amount: \$3,000,000
 Role: PI
 Collaborators: Co-Is: Pablo Laguna, Ignacio Taboada, Ümit V. Çatalyürek, Richard Vuduc
 Contract Period: 9/1/2020-8/31/2025
 Candidate's Share: 1%

E5. Proposals Submitted but not Funded (last 2 years)

Title: "X-ray Signatures of Inspiring Massive Black Hole Binaries"
 Agency: Chandra Science Center
 Total Amount: \$142,211
 Role: Co-I
 Collaborators: Prof. Tamara Bogdanović (Georgia Tech)
 Contract Period: 9/1/2020-8/31/2022
 Candidate's Share: 10%

Title: "The Cosmic Abundance and X-ray Properties of Dual AGNs: Predictions for Chandra Observations"
 Agency: Chandra Science Center
 Total Amount: \$95,000
 Role: PI
 Collaborators: Prof. Tamara Bogdanović & Kunyang Li (Georgia Tech)
 Contract Period: 9/1/2020-8/31/2021
 Candidate's Share: 10%

Title: "Physics Frontier Center: Center for Windows to the Cosmos"
 Agency: NSF Division of Physics

Total Amount: \$16,249,474
 Role: Senior Investigator
 Collaborators: PI: Deirdre Shoemaker (Georgia Tech) Co-Is: Laura Cadonati, Ignacio Taboada (Georgia Tech), Michael Briggs (UA Huntsville), Andrew Steiner (UT Knoxville)
 Contract Period: 8/1/2020-7/31/2025
 Candidate's Share: 2%

Title: "X-ray Background Synthesis: New Models for a New Decade"
 Agency: NSF Division of Astronomical Sciences
 Total Amount: \$306,583
 Role: PI
 Collaborators: None
 Contract Period: 9/1/2020-8/31/2023
 Candidate's Share: 100%

Title: "Collaborative Research: X-ray Burst/Accretion Disk Interactions: A Direct Window into Accretion Physics"
 Agency: NSF Division of Astronomical Sciences
 Total Amount: \$310,607
 Role: PI
 Collaborators: College of Charleston PI: P. Chris Fragile
 Contract Period: 9/1/2020-8/31/2023
 Candidate's Share: 100%

Title: "A Detailed Study of the Ionization State of the Inner Regions of Active Galactic Nuclei Accretion Disks"
 Agency: NASA Astrophysics Data Analysis Program
 Total Amount: \$293,207
 Role: PI
 Collaborators: n/a
 Contract Period: 1/1/2020-12/31/2021
 Candidate's Share: 100%

Title: "Putting X-ray Bursts under the Microscope: The Burst-Disk Interaction in the NICER Era"
 Agency: NASA Astrophysics Data Analysis Program
 Total Amount: \$308,559
 Role: PI
 Collaborators: n/a
 Contract Period: 1/1/2020-12/31/2022
 Candidate's Share: 100%

Title: "X-ray Burst/Accretion Disk Interactions: A Direct Window into Accretion Physics"
 Agency: NASA Astrophysics Theory Program
 Total Amount: \$384,221
 Role: PI
 Collaborators: College of Charleston PI: P. Chris Fragile
 Contract Period: 5/1/2020-4/30/2023
 Candidate's Share: 86%

Title: "X-ray Background Synthesis: New Models for a New Decade"
 Agency: NASA Astrophysics Theory Program
 Total Amount: \$310,271
 Role: PI
 Collaborators: n/a
 Contract Period: 5/1/2020-4/30/2023
 Candidate's Share: 100%

Title: "Collaborative Research: Time-Dependent X-ray Reflection from Numerical Simulations of X-ray Burst/Accretion Disk Interactions"
 Agency: NSF Division of Astronomical Sciences
 Total Amount: \$308,799
 Role: PI
 Collaborators: College of Charleston PI: P. Chris Fragile
 Contract Period: 9/1/2019-8/31/2022
 Candidate's Share: 100%

Title: "X-ray Background Synthesis: New Models for a New Decade"
 Agency: NSF Division of Astronomical Sciences
 Total Amount: \$304,776
 Role: PI
 Collaborators: n/a
 Contract Period: 9/1/2019-8/31/2022
 Candidate's Share: 100%

Title: "Multi-messenger signatures of inspiraling massive black hole binaries"
 Agency: Chandra Science Center
 Total Amount: \$138,260
 Role: Co-I
 Collaborators: Prof. Tamara Bogdanović (Georgia Tech)
 Contract Period: 9/1/2019-8/31/2021
 Candidate's Share: 50%

Title: "Pairing of Massive Black Holes in Galaxy Mergers: Implications for Electromagnetic and Gravitational Wave Searches"
 Agency: NASA Future Investigators in NASA Earth and Space Science and Technology (FINESST)
 Total Amount: \$135,000
 Role: PI
 Collaborators: Kunyang Li (Georgia Tech Ph.D. Student)
 Contract Period: 8/15/2019-8/14/2022
 Candidate's Share: 100%

F. Other Scholarly and Creative Accomplishments

3*. Invited to join International Space Science Institute (ISSI) proposal for an International Team to study ‘Warm coronae in AGN: Observational evidence and physical understanding’. Successfully awarded in June 2020 to support 2 meetings in Bern, Switzerland (2021 & 2022).

2*. Invited to join International Space Science Institute (ISSI) proposal for an International Team to study ‘Corona of X-ray Binaries’. Successfully awarded in May 2014 to support 2 meetings in Beijing (2015 & 2016).

1*. In 2016 NASA announced a call for probe-class mission concepts from which they would select 5-8 for further study that would then be presented to the next decadal survey. I was invited to be on three of the submitted concepts:

- *STROBE-X*: X-ray Timing and Spectroscopy (**Selected**)
- *XPP*: X-ray Polarimetry Probe
- *HEX-P*: High-Energy X-ray Probe

G. Societal and Policy Impacts

Media Coverage

5. Georgia Tech Media Release (2020) “Simulations Show X-Rays from Neutron Stars Blasting Surrounding Plasma”
4. Georgia Tech Media Release (2012) “*NuSTAR* Provides New Look at Black Holes”. Coverage included: Atlanta Business Chronicle. Interviews given: WABE Radio (Atlanta NPR affiliate), 106.7FM Radio
3. Interview for article titled ‘Supermassive black holes not so big after all’, *COSMOS Magazine Online* (2011)
2. Interview for article titled ‘Black holes are the ultimate particle smashers’, *New Scientist*, Magazine Issue 2725 (2009)
1. Interview on WPCH morning show regarding the Large Hadron Collider (2008)

H. Other Professional Activities

3. Accepted to participate in the Georgia Tech Office of the Provost Emerging Leaders Program for the 2020-21 academic year.
2. Invited to serve on an external review panel for graduate degree programs in the Department of Physics and Astronomy at Clemson University (2020).
1. Accepted to attend the 2019 Academic Leadership Training Workshop for emerging leaders in Physics, Astronomy and Chemistry. Workshop hosted by the American Chemical Society in Washington, D.C. with major support from Johns Hopkins University.

V. Education

A. Courses Taught

Fall 2020	Physics 3201 Classical Mechanics I	38 students
Spring 2020	Physics 7129 High Energy Astrophysics	12 students
Fall 2019	Physics 3201 Classical Mechanics I	31 students
Fall 2019	Physics 8802 Seminar and RCR	17 students
Spring 2019	Physics 3123 Electrodynamics	35 students
Fall 2018	Physics 8802 Seminar and RCR (developed)	18 students
Spring 2018	Physics 8803 High Energy Astrophysics	4 students
Fall 2017	Physics 4247 Cosmology	12 students

Spring 2017	Physics 3123 Electrodynamics	40 students
Fall 2016	Physics 4247 Cosmology	10 students
Spring 2016	Physics 8803 High Energy Astrophysics	5 students
Fall 2015	Physics 4247 Cosmology	10 students
Spring 2015	Physics 2212 Intro Physics II	233 students
Fall 2014	Physics 4247 Cosmology (developed)	11 students
Spring 2014	Physics 2212 Intro Physics II	234 students
Fall 2013	Physics 2212 Intro Physics II	223 students
Spring 2013	Physics 3123 Electrodynamics	31 students

B. Individual Student Guidance

B1. PhD Students

8. Julia Speicher, Ph.D. Student, School of Physics	Spring 2020-present
7. Astraea Hegeman, MS Awarded, School of Physics	Summer 2019
6. Kunyang (Lily) Li, Ph.D. Student, School of Physics (co-advised with Tamara Bogdanović) Winner of School of Physics Amelio Fellowship 2017-present	Spring 2018-present
5. Pruthvirajsinh (Raj) Gohil, Ph.D. Awarded, School of Physics Ph.D. Thesis: “ <i>Computational Modeling of Dusty Starburst Disks and its Consequences on Observables</i> ” Current position: Software Systems Engineer, The Aerospace Corporation	Spring 2014-Summer 2018
4. Rachel Grissom, MS Awarded, School of Physics Current position: Staff Scientist, Johns Hopkins Applied Physics Lab	Summer 2013–Fall 2013
3. Aden Draper, Ph.D. Awarded, School of Physics Ph.D. Thesis: “ <i>Understanding the Connection Between Active Galactic Nuclei and Host Star Formation Through Multi-Wavelength Population Synthesis Modeling</i> ” Winner of School of Physics Amelio Award (2011) Current position: Patent Agent, Alston & Bird, LLP	Spring 2009-Summer 2012
2. Jonathan Armour, MS Awarded, School of Physics	Spring 2011-Summer 2012
1. Ravi Pallantla in PHYS 8901 Special Problems	Summer 2012

B2. M.S. students

No data

B3. Undergraduate Students

21. Xin Xiang in PHYS 4699 Undergraduate Research <i>Winner of PURA Salary Award (Summer 2020)</i>	2020-present
20. Ariel Roos in PHYS 2699 Undergraduate Research	2019-present
19. Chaoxian Lin in PHYS 4699 Undergraduate Research	2019
18. M. Avirett-Mackenzie in PHYS 4699 Undergraduate Research <i>Winner of PURA Salary Award (Spring 2018) and Travel Award (Winter 2018)</i> <i>Winner of College of Sciences’ A. Joyce Nickelson and John C. Sutherland Prize (2019)</i> <i>Now MS student in Astrophysics at St. Andrew’s University, U.K.</i>	2016-2019
17. R. Glefke in PHYS 2699 Undergraduate Research	2018
16. L. Isbill in PHYS 4699 Undergraduate Research	2017-2018
15. A. Hegeman (Summer REU student from Florida Inst. of Tech.) <i>Graduated with MS in Physics from Georgia Tech</i>	2017
14. E. Hollingworth in PHYS 2699 Undergraduate Research <i>Starting as a Ph.D. student in Physics at UC Berkeley in Fall 2019</i>	2016-2017

13. R. Wolf in PHYS 4699 Undergraduate Research	2014-2016
<i>Now Ph.D. student in Organismic and Evolutionary Biology at Harvard Univ.</i>	
<i>Winner of School of Physics' H. Fukuyo Outstanding Physics Undergraduate Award (2016)</i>	
12. G. Alvarez in PHYS 4699 Undergraduate Research	2014
<i>Now Ph.D. student in Astrophysics at Vanderbilt University.</i>	
11. J. Bollenbacher in PHYS 4699 Undergraduate Research	2013
<i>Now Ph.D. student in Informatics at Indiana University</i>	
10. A. Karsai as a paid undergraduate research assistant	2013
<i>Now Ph.D. student in Physics at Georgia Tech</i>	
9. E. Martin as a paid undergraduate research assistant	2013
<i>Ph.D. student in Physics at UCLA</i>	
8. S.A. Agrawal in PHYS 4699 Undergraduate Research	2013
7. J. Indergaard in PHYS 4699 Undergraduate Research	2012
<i>Obtained a MS in Physics from Georgia Tech</i>	
6. R. Strausbaugh in PHYS 4699 Undergraduate Research	2011
<i>Now Ph.D. student in Physics at Arizona State University</i>	
5. S. Northcott in PHYS 4699 Undergraduate Research	2011
4. J.D. Purvis in PHYS 4699 Undergraduate Research	2011
3. J. McDuffie in PHYS 4699 Undergraduate Research	2010
2. M. Schumann in PHYS 2699 Undergraduate Research	2010
1. B. Ford in PHYS 4699 Undergraduate Research	2009

B4. Service on Thesis Committees

Pranav Dave	Ph.D. student (Georgia Tech Physics)
Bhavesh Khamesra	Ph.D. student (Georgia Tech Physics)
Kimberly Short	Ph.D. student (Georgia Tech Physics, graduated 2019)
Emily Alicea-Munoz	Ph.D. student (Georgia Tech Physics, graduated 2019)
Jacob Payne	M.S. student (Georgia Tech Aerospace Engineering, graduated 2019)
Yu Qiu	Ph.D. student (Georgia Tech Physics, graduated 2019)
Khai Nguyen	Ph.D. student (Georgia Tech Physics, graduated 2019)
Kirk Barrow	Ph.D. student (Georgia Tech Physics, graduated 2018)
Qi Ge	Ph.D. student (Georgia Tech Physics, graduated 2018)
Chao Shi	Ph.D. student (Georgia Tech Physics, graduated 2017)
Daegene Koh	Ph.D. student (Georgia Tech Physics, graduated 2017)

B5. Mentorship of Postdoctoral Fellows and Visiting Scholars

2. Dr. Laurens Keek	2013-2015
Current position: Scientist, Cosine High-Energy Optics	
1. Dr. Christina Pierce	2009-2011
Current position: unknown (left academia)	

C. Educational Innovations and Other Contributions

No data.

VI. Service

A. Professional Contributions

Membership in Professional and Honor Societies

3. American Astronomical Society	2001-present
2. High Energy Division of American Astronomical Society	2001-present
1. Canadian Astronomical Society	2001-2014

Journal Referee

- | | |
|---|--|
| 5. <i>The Astrophysical Journal Supplement Series</i> | 2020 |
| Number of papers reviewed: 1 | |
| 4. <i>The Astrophysical Journal</i> | 2003–07, 2009-10, 2013, 2015–16, 2018-19 |
| Number of papers reviewed: 14 | |
| 3. <i>The Astrophysical Journal Letters</i> | 2004–05, 2007–08, 2011, 2019 |
| Number of papers reviewed: 8 | |
| 2. <i>Astronomy & Astrophysics</i> | 2004, 2006, 2012, 2014–15, 2016, 2018 |
| Number of papers reviewed: 8 | |
| 1. <i>Monthly Notices of the Royal Astronomical Society</i> | 2003–04, 2006, 2011, 2013-15, 2018, 2020 |
| Number of papers reviewed: 11 | |

Book Reviews

- | | |
|--|------|
| 1. <i>Physics Today</i> | 2010 |
| Reviewed “Cracking the Einstein Code: Relativity and the Birth of Black Hole Physics”
by Fulvio Melia | |

Review Panels

- | | |
|---|--------------|
| 17. NASA Postdoctoral Program (Astrophysics) | 2016-present |
| 16. External reviewer for The Fund for Scientific Research-FNRS, Belgium | 2019 |
| 15. <i>Chandra</i> Cycle 20 Peer Review (Panel Chair “AGN and Extragalactic Surveys”) | 2018 |
| 14. NSF Division of Astronomical Sciences (Grant reviewer for CAREER proposals) | 2017 |
| 13. External Reviewer for the Canadian Time Allocation Committee (<i>ASTROSAT</i>) | 2016 |
| 12. <i>Chandra</i> Cycle 18 Peer Review | 2016 |
| 11. Expert Reviewer for a NSF EPSCoR RII Track-2 Proposal | 2015 |
| 10. <i>Chandra</i> Cycle 15 Peer Review | 2013 |
| 9. External reviewer for the Polish National Science Center | 2013 |
| 8. External reviewer for the Swiss Supercomputing Centre | 2012 |
| 7. NSF Division of Astronomical Sciences (Grant reviewer for AAG proposals) | 2011 |
| 6. External reviewer for the Netherlands Organisation for Scientific Research | 2010, 2011 |
| 5. <i>Rossi X-ray Timing Explorer</i> Cycle 13 Peer Review | 2008 |
| 4. <i>Suzaku</i> Cycle 1 Peer Review | 2006 |
| 3. External Reviewer for the Canadian Time Allocation Committee (Gemini) | 2005 |
| 2. <i>Chandra</i> Cycle 5 Peer Review | 2003 |
| 1. <i>Rossi X-ray Timing Explorer</i> Cycle 9 Peer Review | 2003 |

Conference Chair/Co-Chair

- | |
|---|
| 2. Member of SOC and LOC “Multi-Messenger Relativistic Astrophysics”, 2009, Georgia Institute of Technology |
| 1. Member of SOC and LOC “Galaxy and Black Hole Evolution: Towards a Unified View”, 2007, The University of Arizona |

Scientific Committees

- | | |
|---|--------------|
| 9. Invited member of <i>STROBE-X</i> Scientific Steering Committee | 2017-present |
| 8. Member of <i>enhanced X-ray Timing and Polarimetry (eXTP)</i> working group on observatory science | 2017-present |
| 7. Member of <i>Lynx/X-ray Surveyor</i> Working Group on Evolution of Structure and AGN populations | 2016-present |
| 6. NASA-nominated member of the <i>Athena</i> Study Science Team Working Group on Supermassive Black Hole Evolution | 2015–present |

- | | |
|--|--------------|
| 5. Member of <i>Nuclear Spectroscopic Telescope Array (NuSTAR)</i> Education & Public Outreach Committee | 2009–present |
| 4. Member of <i>Nuclear Spectroscopic Telescope Array (NuSTAR)</i> Science Team | 2007–present |
| 3. Member of Large Synoptic Survey Telescope (LSST) Science Collaboration on Active Galactic Nuclei | 2006–2019 |
| 2. Member of <i>Large Observatory for X-ray Timing (LOFT)</i> Collaboration and Working Group on Type I X-ray Bursts | 2014-2015 |
| 1. Member of <i>International X-ray Observatory/Athena</i> Task Force on “Black Hole Surveys and Obscured Growth of SMBHs” | 2008–2012 |

B. Public and Community Service

No data

C. Institute Contributions

- | | |
|---|----------------------|
| Associate Chair for Graduate Studies, School of Physics | 2017-present |
| Physics Major Advisor, School of Physics | 2016-present |
| Faculty Council, Center for Space Technology and Research (CSTAR) | 2013-present |
| Astrophysics Major Committee, School of Physics | 2013-present |
| Graduate Committee, School of Physics | 2009-present |
| Elected Member of the Institute Graduate Curriculum Committee | 2017-2020 |
| Elected Member of the Academic Faculty Senate | 2016-2018 |
| Member of the Georgia Tech Library Faculty Advisory Board | 2016-2017 |
| Invited Faculty Panelist for FASET Presentation | 2016, 2017 |
| RPT Committee, School of Physics, | 2015-2017 |
| Colloquium Committee, School of Physics | 2014-2015 |
| Undergraduate Committee, School of Physics | 2013-2014 |
| Sigma Xi Best Ph.D. Thesis Award Committee | 2013 |
| Physics Frontier Lecture on “Astrophysics of Supermassive Black Holes” | 2012 & 2014 |
| Invited presenter & panelist for inaugural Blended Research@The Library | 2011 |
| Astrophysics Search Committee, School of Physics | 2009-2011, 2013-2014 |
| Comprehensive Exam Committee, School of Physics | 2008-2009 |
| Seminar Chair, Center for Relativistic Astrophysics, School of Physics | 2008-2009 |