

Dr. Daniel Ryan Wik | Curriculum Vitae

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PDF version of CV: <http://www.astro.utah.edu/~wik/cv.pdf>

Research Interests and Experience

Dr. Wik's research includes investigations of inverse Compton scattering in galaxy clusters and starburst galaxies, the effects of cluster mergers on intracluster gas and their cosmological implications, the X-ray binary populations of galaxies, dark matter searches, and the X-ray background. He is an observational X-ray astronomer with extensive experience carrying out observatory data calibration and analysis tool development, who also has some background in computer simulations and instrumentation.

Research Positions

- 2017-present: Assistant Professor, University of Utah
 - 2013-2017: Assistant Research Scientist, Johns Hopkins University, at NASA/GSFC
 - 2010-13: NASA Postdoctoral Position (NPP) Fellow at Goddard Space Flight Center
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Education

- 2010: Ph.D. Astronomy, University of Virginia (UVa), Charlottesville, VA
 - Dissertation Title: "Inverse Compton Scattering in Galaxy Clusters"
 - Advisor: Craig Sarazin
 - 2006: M.Sc. Astronomy, University of Virginia, Charlottesville, VA
 - 2003: B.Sc. Astrophysics (Minor: Mathematics), Ohio University, Athens, OH
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Awards and Honors

- 2019: Students' Choice Award for the best Undergraduate Seminar (Spring)
 - 2017: NASA Special Act Team Award for the GSFC Hitomi Science Team
 - 2017: NASA RHG Exceptional Achievement for Science Award for the Hitomi Instrument Teams
 - 2016: NASA Exceptional Public Achievement Medal for developing the *NuSTAR* background model
 - 2015: NASA Group Achievement Award (*NuSTAR* Project Team)
 - 2014: NASA Group Achievement Award (*NuSTAR* Science Team)
 - 2010: NASA Postdoctoral Program Fellowship
 - 2010: AAS/HEAD Travel Grant
 - 2009-10: UVa Graduate School of Arts & Sciences Dissertation-Year Fellowship
 - 2007-10: Virginia Space Grant Consortium, Graduate Aerospace Research Fellowship
 - 2007-8: DuPont Fellowship from University of Virginia Graduate School of Arts & Sciences
 - 2006: University Graduate Teaching Assistant Award, University of Virginia
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Successful Observing and Funding Proposals

Amounts in **bold** are external funding to Utah, totaling **\$1.45M** since 2017

- 2020: *NuSTAR*, PI, Accurate Galaxy Cluster Temperatures: a Legacy Dataset with *Chandra*, *XMM-Newton*, AND *XRISM*, 604 ks, **\$117,292**
- 2020: *NuSTAR*, PI, Accurate Cluster Temperatures and Inverse Compton Emission in Abell 2319, 132 ks, **\$67,512**
- 2020: *NuSTAR*/HEASARC Software Development Grant, PI, “Converting the *NuSTAR* NuSKYBGD IDL Software to Python and Expanding its Capabilities,” **\$49,506**
- 2020: College of Science Seed Grant, PI, “Finding Shock Waves in the Largest Objects in the Universe,” \$15,000
- 2019: *XMM-Newton*, Co-I, “Excavating a dinosaur in the Ophiuchus Cluster,” 169 ks
- 2019: NASA ADAP, PI, “The cluster gas surrounding *NuSTAR*-observed AGN,” **\$220,532**
- 2019: *NuSTAR*, Co-I (Budget PI), “Mapping the Temperature Structure of the Complex Hot Merging Galaxy Cluster MACS J0717,” 165 ks, **\$71,994**
- 2019: *NuSTAR*, Co-I, “A *NuSTAR*-*XMM* Survey of NGC 55: a holistic view of a low metallicity X-ray binary population,” 400 ks
- 2018: NASA ADAP, PI, “Mapping the Most Energetic Electrons in Extended Galaxy Clusters with *NuSTAR*: Setting the Stage for *XARM*,” **\$252,340**
- 2018: *Chandra*, PI, “Complex Merging in Abell 2345: Characterizing Multiple Potential Shock Fronts,” 210 ks, **\$85,210**
- 2018: *Chandra*, Co-I, “The Giant Elliptical Galaxy in our Backyard: the Resolved 1-30 keV X-ray Binary Population of Maffei 1,” 115 ks
- 2018: *NuSTAR*, PI, “Mapping the temperature structure across two shocks in the massive merging cluster Abell 2146,” 220 ks, **\$71,489**
- 2018: *NuSTAR*, PI, “Toward a Better Census of Black Holes and Neutron Stars in the Disk of M31,” 150 ks, C priority, **\$10,000**
- 2018: *NuSTAR*, Co-I, “A Measurement of the 0.3–30 keV Spectrum of the Low-Metallicity Galaxy VV114,” 200 ks
- 2017: *XMM-Newton*, PI, “The Structure of the Violent Merger in PLCKESZ G200.9-28.2,” 48 ks, **\$50,843**
- 2017: NSF, PI, “SnowCluster 2018: The Physics of Galaxy Clusters” conference support, **\$20,500**
- 2017: *Chandra*, Co-I, “A Possible First Detection of Inverse Compton Emission from a Galaxy Cluster,” 350 ks
- 2017: *Chandra*, Co-I, “One of a Handful in the Universe: Confirming a Wolf-Rayet X-ray Binary Candidate in NGC 253,” 160 ks
- 2017: *NuSTAR*, PI, “Toward a Better Census of Black Holes and Neutron Stars in the Disk of M31,” 200 ks, **\$61,990**
- 2017: *NuSTAR*, PI, “The Merger-Minihalo Connection in the Ophiuchus Cluster: a Smoking Gun?,” 110 ks, **\$48,016**
- 2017: *NuSTAR*, Co-I, “Monitoring X-ray Binaries in the M31 Bulge with *NuSTAR*”
- 2016: NASA ADAP, PI, “The Definitive *NuSTAR* Measurement of the Unresolved Cosmic X-ray Background,” \$213,856 (**\$177,943**)
- 2016: *XMM-Newton*, Co-I, “A Coordinated *XMM-Newton* and *NuSTAR* Survey of the HMXB Population in M33”
- 2016: *Chandra*, PI, “A Violent merger in the cluster PLCKESZ G200.9-28.2: Relic formation caught in action?,” 150 ks, **\$61,090**
- 2016: *NuSTAR*, PI, “What a Shock! Constraining the Heating Mechanism in Abell 665,” 200 ks, **\$50,362**
- 2016: *NuSTAR*, Co-I, “The *NuSTAR* View of the Shocked Region in Abell 754,” 100 ks
- 2016: *NuSTAR*, Co-I, “The Hard X-ray Pulsar Candidate that may Dominate M31 at E>25 keV: *NuSTAR*-*XMM* Observations of the M31 Bulge,” 100 ks
- 2015: *Chandra*, Co-I, “0.5-30 keV Monitoring of the M31 Disk with *Chandra* and *NuSTAR*,” 25 ks
- 2015: *NuSTAR*, PI, “Unambiguously Detecting Non-thermal and Shocked Gas in Abell 2163,” 115 ks, \$42,739 **\$29,705**

- 2015: *NuSTAR*, Co-I, “Binaries in the M31 Bulge: A Hard X-ray View of Old Stellar Populations,” 100 ks
- 2015: *NuSTAR*, Co-I, “Monitoring the X-ray Binary Populations of the M31 Disk with *NuSTAR*,” 300 ks
- 2014: *XMM-Newton*, PI, “The Scorpius Galaxy Cluster: Mapping a Merger in a Newly Discovered 9 keV Cluster,” 112 ks
- 2014: *Chandra*, Co-I, “PKS B1400-33 and Abell S753: A Very Bright Radio Relic in a Poor Cluster,” 94 ks
- 2014: *Chandra*, Co-I, “Thermal and (or?) Relativistic Matter in the Brightest Cluster Radio Relic,” 200 ks
- 2013: *XMM-Newton*, Co-I, “PKS B1400-33 and Abell S753: A Very Bright Radio Relic in a Poor Cluster,” 136 ks
- 2012: *XMM-Newton*, Co-I, “Merger Activity and Radio Emission Within and Between Abell 2061 and 2067,” 45 ks
- 2012: *GMRT*, Co-I, “Low frequency follow-up of the first radio halo in a Planck cluster,” 10 hrs
- 2012: *GMRT*, Co-I, “Confirming a radio relic in a new Planck cluster,” 16 hrs
- 2011: *XMM-Newton*, PI, “Clumping, Contamination, or Equilibrium in the Outskirts of Abell 1689?,” 100 ks, \$70,845
- 2010: *XMM-Newton*, PI, “Completing the XMM Legacy Mosaic of the Perseus cluster,” 90 ks
- 2009: *XMM-Newton*, PI, “The Double Relic Cluster A2345: A Dramatic Off-axis Merger,” 80 ks
- 2008: *Suzaku*, Co-I, “Hard X-ray Inverse Compton Emission from the Radio Relic & the Dynamics of the Merging Subgroup in the Coma Cluster,” 161 ks
- 2008: *Suzaku*, Co-I, “PKS B1400-33 & Abell S753: A Very Bright Radio Relic in a Poor Cluster,” 120 ks
- 2008: *Chandra*, PI, “A Merger Shock Front due to Subcluster Infall in Abell 2061?,” 32 ks, \$36,365
- 2008: *XMM-Newton*, PI, “Unraveling the Merger States of Abell 2345 & 2254,” 61 ks
- 2008: *Suzaku*, PI, “Properties of the Merger & Radio Source Interaction in the Cygnus A Cluster,” 45 ks, \$8,995
- 2007: *XMM-Newton*, Co-I, “*XMM-Newton* Observation of the NW Merger Shock and Radio Relic in Abell 3667,” 53 ks
- 2007: *XMM-Newton*, PI, “Merger Activity In & Between Abell 2061 & 2067,” 30 ks
- 2006: *Suzaku*, Co-I, “Nailing Down the Hard X-ray Inverse Compton Emission from the Radio Halo in the Coma Cluster,” 180 ks
- 2006: *Suzaku*, Co-I, “Hard X-ray Inverse Compton Emission & a Merger Shock Associated with the Brightest Known Radio Relic in Abell 3667,” 135 ks

Department & Community Service

- *NuSTAR* User’s Committee, chair, 2020-present
 - Diversity & Inclusion Committee (chair and member), 2019-2021
 - Teaching Excellence Committee, 2020-2021
 - Postdoctoral Affairs, 2020-2021
 - College of Science Dean Search Committee, 2018-2019
 - Astro Data Science Faculty Search Committee, 2018-2019
 - Astro Task Force, 2017-present
 - Colloquium committee member, 2018-present
 - Graduate Admissions committee member, 2017-2018
 - HEAP Seminar committee member, 2017-2018
 - SnowCluster 2018: The Physics of Galaxy Clusters SOC & LOC member, March 18-22, Snowbird, UT
 - Served on proposal review panels for NSF AAG grants, NASA ADAP grants, the Netherlands Organisation for Scientific Research, and *Suzaku*, *Chandra*, and *Swift* Guest Observer programs
 - Referee for the *Astrophysical Journal*, *MNRAS*, and *Experimental Astronomy*
 - Lobbied Congress on behalf of the AAS on Congressional Visits Day, 2011 & 2012
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Refereed Publications

1. “*StrayCats*: A catalog of NuSTAR Stray Light Observations,” Grefenstette, B., Ludlam, R., Thompson, E., Garcia, J., Hare, J., Jaodand, A., Krivonos, R., Madsen, K., Mastoserio, G., Slaughter, C., Tomsick, J., **Wik, D.**, Zoglauer, A., 2021, ApJ, accepted, arXiv:2102.01236
2. “*NuSTAR* measurement of the cosmic X-ray background in the 3-20 keV energy band,” Krivonos, R., **Wik, D.** Grefenstette, B., Madsen, K., Perez, K., Rosslund, S., Sazonov, S., Zoglauer, A., 2021, MNRAS, 502, 3966
3. “*NuSTAR* Observations of Abell 2163: Constraints on Non-thermal Emission,” **R. Bolivar, D. Wik, S. Giacintucci, F. Gastaldello, A. Hornstrup, N. Westergaard, G. Madejski**, 2021, ApJ, 906, 87
4. “On the X-Ray Spectral Energy Distributions of Star-forming Galaxies: The 0.3-30 keV Spectrum of the Low-metallicity Starburst Galaxy VV 114,” Garofali, K., Lehmer, B., Basu-Zych, A., West, L., **Wik, D.**, Yukita, M., Vulic, N., Ptak, A., Hornschemeier, A., 2021, ApJ, 903, 79
5. “*NuSTAR* Tests of Sterile-Neutrino Dark Matter: New Galactic Bulge Observations and Combined Impact,” Roach, Brandon M., Ng, Kenny C. Y., Perez, Kerstin, Beacom, John F., Horiuchi, Shunsaku, Krivonos, Roman, **Wik, Daniel R.**, 2020, PhRvD, 101, 103011
6. “Discovery of a giant radio fossil in the Ophiuchus galaxy cluster,” Giacintucci, S., Markevitch, M., Johnston-Hollitt, M., **Wik, D. R.**, Wang, Q. H. S., Clarke, T. E., 2020, ApJ, 891, 1
7. “The Galactic Bulge Diffuse Emission in Broadband X-Rays with *NuSTAR*,” Perez, Kerstin, Krivonos, Roman, **Wik, Daniel R.**, 2019, ApJ, 884, 153
8. “Neutron Stars and Black Holes in the Small Magellanic Cloud: The SMC *NuSTAR* Legacy Survey,” Lazzarini, M., Williams, B. F., Hornschemeier, A. E., Antoniou, V., Vasilopoulos, G., Haberl, F., Vulic, N., Yukita, M., Zezas, A., Bodaghee, A., Lehmer, B. D., Maccarone, T. J., Ptak, A., **Wik, D.**, Fornasini, F. M., Hong, Jaesub, Kennea, J. A., Tomsick, J. A., Venters, T., Udalski, A. Cassity, A., 2019, ApJ, 884, 2
9. “An *ALMA+ACA* measurement of the shock in the Bullet Cluster,” Di Mascolo, Luca, Mroczkowski, Tony, Churazov, Eugene, Markevitch, Maxim, Basu, Kaustuv, Clarke, Tracy E., Devlin, Mark, Mason, Brian S., Randall, Scott W., Reese, Erik D., Sunyaev, Rashid, **Wik, Daniel R.**, 2019, A&A 628, A100
10. “A joint *XMM-NuSTAR* observation of the galaxy cluster Abell 523: Constraints on inverse Compton emission,” Cova, F., Gastaldello, F., **Wik, D. R.**, Boschini, W., Botteon, A., Brunetti, G., Buote, D. A., De Grandi, S., Eckert, D., Ettori, S., Feretti, L., Gaspari, M., Ghizzardi, S., Giovannini, G., Girardi, M., Govoni, F., Molendi, S., Murgia, M., Rossetti, M., Vacca, V., 2019, A&A 628, A83
11. “New constraints on sterile neutrino dark matter from *NuSTAR* M31 observations,” Ng, Kenny C. Y., Roach, Brandon M., Perez, Kerstin, Beacom, John F., Horiuchi, Shunsaku, Krivonos, Roman, **Wik, Daniel R.**, 2019, PhRvD, 99, 083005
12. “Constraints on the number of X-ray pulsars in IC 10 from a deep *XMM-Newton* observation,” Yang, J., Laycock, S. G. T., **Wik, D. R.**, 2019, AN, 340, 62
13. “Evolution of high-mass X-ray binaries in the small magellanic cloud,” Yang, J., **Wik, D. R.**, Zezas, A., Laycock, S. G. T., Hong, J., Xu, R., 2019, AN, 340, 46
14. “On the Nature of the X-Ray Emission from the Ultraluminous X-Ray Source, M33 X-8: New Constraints from *NuSTAR* and *XMM-Newton*,” West, L., Lehmer, B., **Wik, D.**, Yang, J., Walton, D., Antoniou, V., Haberl, F., Hornschemeier, A., Maccarone, T., Plucinsky, P., Ptak, A., Williams, B., Vulic, N., Yukita, M., Zezas, A., 2018, ApJ, 869, 111
15. “Evidence for Rapid Adiabatic Cooling as an Origin of the Recombining Plasma in the Supernova Remnant W49B Revealed by *NuSTAR* Observations,” Yamaguchi, H., Tanaka, T., **Wik, D.**, Rho, J., Bamba, A., Castro, D., Smith, R., Foster, A., Uchida, H., Petre, R., Williams, B., 2018, ApJL, 866, L35

16. “*NuSTAR* Detection of Nonthermal Bremsstrahlung from the Supernova Remnant W49B,” Tanaka, T., Yamaguchi, H., **Wik, D.**, Aharonian, F., Bamba, A., Castro, D., Foster, A., Petre, R., Rho, J., Smith, R., Uchida, H., Uchiyama, Y., Williams, B., 2018, *ApJL*, 866, L26
17. “Anti-correlation between X-ray luminosity and pulsed fraction in the Small Magellanic Cloud pulsar SXP 1323,” Yang, J., Zezas, A., Coe, M., Drake, J., Hong, J., Laycock, S., **Wik, D.**, 2018, *MNRAS Letters*, 479, 1
18. “Black Holes and Neutron Stars in Nearby Galaxies: Insights from *NuSTAR*,” Vulic, N., Hornschemeier, A. E., **Wik, D. R.**, Yukita, M., Zezas, A., Ptak, A. F., Lehmer, B. D., Antoniou, V., Maccarone, T. J., Williams, B. F., Fornasini, F. M., 2018, *ApJ*, 864, 150
19. “Non-thermal X-rays from colliding wind shock acceleration in the massive binary Eta Carinae,” Hamaguchi, K., Corcoran, M., Pittard, J., Sharma, N., Takahashi, H., Russell, C., Grefenstette, B., **Wik, D.**, Gull, T., Richardson, N., Madura, T., Moffat, A., 2018, *Nature Astronomy*, 2, 731
20. “Young Accreting Compact Objects in M31: The Combined Power of *NuSTAR*, *Chandra*, and *Hubble*,” Lazzarini, M., Hornschemeier, A. E., Williams, B. F., **Wik, D.**, Vulic, N., Yukita, M., Zezas, A., Lewis, A. R., Durbin, M., Ptak, A., Bodaghee, A., Lehmer, B. D., Antoniou, V., Maccarone, T., 2018, *ApJ*, 862, 28
21. “*Hitomi* (ASTRO-H) X-ray Astronomy Satellite,” Takahashi, T., Kokubun, M., Mitsuda, K., et al. 2018, *Journal of Astronomical Telescopes, Instruments, and Systems*, 4, 021402
22. “Solar abundance ratios of the iron-peak elements in the Perseus cluster,” *Hitomi* Collaboration, 2017, *Nature*, 551, 478
23. “Discovery of a radio relic in the low mass, merging galaxy cluster PLCK G200.9-28.2,” Kale, R., **Wik, D. R.**, Giacintucci, S., Venturi, T., Brunetti, G., Cassano, R., Dallacasa, D., de Gasperin, F. 2017, *MNRAS*, 472, 940
24. “On the absence of radio haloes in clusters with double relics,” Bonafede, A., Cassano, R., Brügggen, M., Ogrean, G. A., Riseley, C. J., Cuciti, V., de Gasperin, F., Golovich, N., Kale, R., Venturi, T., van Weeren, R. J., **Wik, D. R.**, Wittman, D. 2017, *MNRAS*, 470, 3465
25. “Identification of the Hard X-ray Source Dominating the $E > 25$ keV Emission of the Nearby Galaxy M31,” Yukita, M., Ptak, A., Hornschemeier, A., **Wik, D.**, Maccarone, T. J., Pottschmidt, K., Zezas, A., Antoniou, V., Ballhausen, R., Lehmer, B. D., Lien, A., Williams, B., Baganoff, F., Boyd, P. T., Enoto, T., Kennea, J., Page, K. L., Choi, Y. 2017, *ApJ*, 838, 47
26. “*Hitomi* Constraints on the 3.5 keV Line in the Perseus Galaxy Cluster,” *Hitomi* Collaboration (Aharonian et al.) 2017, *ApJ*, 837, 15
27. “The Distribution of Radioactive ^{44}Ti in Cassiopeia A,” Grefenstette, Brian W., Fryer, Chris L., Harrison, Fiona A., Boggs, Steven E., DeLaney, Tracey, Laming, J. Martin, Reynolds, Stephen P., Alexander, David M., Barret, Didier, Christensen, Finn E., Craig, William W., Forster, Karl, Giommi, Paolo, Hailey, Charles J., Hornstrup, Alan, Kitaguchi, Takao, Koglin, J. E., Lopez, Laura, Mao, Peter H., Madsen, Kristin K., Miyasaka, Hiromasa, Mori, Kaya, Perri, Matteo, Pivovarov, Michael J., Puccetti, Simonetta, Rana, Vikram, Stern, Daniel, Westergaard, Niels J., **Wik, Daniel R.**, Zhang, William W., Zoglauer, Andreas 2017, *ApJ*, 834, 19
28. “The *NuSTAR* Extragalactic Surveys: The Number Counts of Active Galactic Nuclei and the Resolved Fraction of the Cosmic X-Ray Background,” 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, *ApJ*, 831, 185

29. “*Suzaku* X-ray Observations of the Nearest Non-Cool Core Cluster, Antlia: Dynamically Young but with Remarkably Relaxed Outskirts,” Wong, Ka-Wah, Irwin, Jimmy A., **Wik, Daniel R.**, Sun, Ming, Sarazin, Craig L., Fujita, Yutaka, Reiprich, Thomas H. 2016, *ApJ*, 829, 49
30. “The quiescent intracluster medium in the core of the Perseus cluster,” *Hitomi* Collaboration, 2016, *Nature*, 535, 117
31. “Demonstrating the likely neutron star nature of five M31 globular cluster sources with Swift-NuSTAR spectroscopy,” Maccarone, T. Yukita, M., Hornschemeier, A., Lehmer, B., Antoniou, V., Ptak, A., **Wik, D.**, Zezas, A., Boyd, P., Kennea, J., Page, K., Eracleous, M., Williams, B., Boggs, S., Christensen, F., Craig, W., Hailey, C., Harrison, F., Stern, D., Zhang, W. 2016, *MNRAS*, 458, 3633
32. “A Hard X-ray Study of the Normal Star-Forming Galaxy M83 with NuSTAR,” Yukita, M., Hornschemeier, A. E., Lehmer, B. D., Ptak, A., **Wik, D. R.**, Zezas, A., Antoniou, V., Maccarone, T. J., Replicon, V., Tyler, J. B., Venters, T., Argo, M. K., Bechtol, K., Boggs, S., Christensen, F. E., Craig, W. W., Hailey, C., Harrison, F., Krivonos, R., Kuntz, K., Stern, D., & Zhang, W. W. 2016, *ApJ*, 824, 107
33. “A Strong Merger Shock in Abell 665,” Dasadia, S., Sun, M., Sarazin, C., Morandi, A., Markevitch, M., **Wik, D.**, Feretti, L., Giovannini, G., Govoni, F., & Vacca, V. 2016, *ApJL*, 820, L20
34. “The NuSTAR Extragalactic Survey: First Direct Measurements of the >10 KeV X-Ray Luminosity Function for Active Galactic Nuclei at $z>0.1$,” 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., Baloković, 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, *ApJ*, 815, 66
35. “Dark Matter Line Emission Constraints from *NuSTAR* Observations of the Bullet Cluster,” Riemer-Sørensen, S., **Wik, D. R.**, Madejski, G., Molendi, S., Gastaldello, F., Harrison, F. A., Craig, W. W., Hailey, C. J., Boggs, S. E., Christensen, F. E., Stern, D., Zhang, W. W., & Hornstrup, A. 2015, *ApJ*, 810, 48
36. “The *NuSTAR* Extragalactic Surveys: Overview and Catalog from the COSMOS Field,” Civano, F., Hickox, R. C., Puccetti, S., Comastri, A., Mullaney, J. R., Zappacosta, L., LaMassa, S. M., 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, M. C., **Wik, D. R.**, & Zhang, W. 2015, *ApJ*, 808, 185
37. “The *NuSTAR* Extragalactic Surveys: Initial Results and Catalog from the Extended *Chandra* Deep Field South,” 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, *ApJ*, 808, 184
38. “*NuSTAR* Observations of the Powerful Radio Galaxy Cygnus A,” 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, *ApJ*, 808, 154
39. “The 0.3-30 keV Spectra of Powerful Starburst Galaxies: *NuSTAR* and *Chandra* Observations of NGC 3256 and NGC 3310,” Lehmer, B. D., Tyler, J. B., Hornschemeier, A. E., **Wik, D. R.**, Yukita, M., Antoniou, V., Boggs, S., Christensen, F. E., Craig, W. W., Hailey, C. J., Harrison, F. A., Maccarone, T. J., Ptak, A., Stern, D., Zezas, A., & Zhang, W. W. 2015, *ApJ*, 806, 126

40. "Extended hard-X-ray emission in the inner few parsecs of the Galaxy," Perez, K., Hailey, C. J., Bauer, F. E., Krivonos, R. A., Mori, K., Baganoff, F. K., Barrière, N. M., Boggs, S. E., Christensen, F. E., Craig, W. W., Grefenstette, B. W., Grindlay, J. E., Harrison, F. A., Hong, J., Madsen, K. K., Nynka, M., Stern, D., Tomsick, J. A., **Wik, D. R.**, Zhang, S., Zhang, W. W., & Zoglauer, A. 2015, *Nature*, 520, 646
41. "Locating the Most Energetic Electrons in Cassiopeia A," Grefenstette, B. W., Reynolds, S. P., Harrison, F. A., Humensky, T. B., Boggs, S. E., Fryer, C. L., DeLaney, T., Madsen, K. K., Miyasaka, H., **Wik, D. R.**, Zoglauer, A., Forster, K., Kitaguchi, T., Lopez, L., Nynka, M., Christensen, F. E., Craig, W. W., Hailey, C. J., Stern, D., & Zhang, W. W. 2015, *ApJ*, 802, 15
42. "A *NuSTAR* Observation of the Center of the Coma Cluster," Gastaldello, F., **Wik, D. R.**, Molendi, S., Westergaard, N. J., Hornstrup, A., Madejski, G., Ferreira, D. D. M., Boggs, S. E., Christensen, F. E., Craig, W. W., Grefenstette, B. W., Hailey, C. J., Harrison, F. A., Madsen, K. K., Stern, D., & Zhang, W. W. 2015, *ApJ*, 800, 139
43. "A Focused, Hard X-Ray Look at Arp 299 with *NuSTAR*," Ptak, A., Hornschemeier, A., Zezas, A., Lehmer, B., Yukita, M., **Wik, D. R.**, Antoniou, V., Argo, M. K., Ballo, L., Bechtol, K., Boggs, S., Della Ceca, R., Christensen, F. E., Craig, W. W., Hailey, C. J., Harrison, F. A., Krivonos, R., Maccarone, T. J., Stern, D., Tatum, M., Venters, T., & Zhang, W. W. 2015, *ApJ*, 800, 104
44. "Source Identification in the IGR J17448-3232 Field: Discovery of the Scorpius Galaxy Cluster," Barrière, N. M., Tomsick, J. A., **Wik, D. R.**, Chaty, S., & Rodriguez, J. 2015, *ApJ*, 799, 24
45. "A Hard X-Ray Power-law Spectral Cutoff in Centaurus X-4," Chakrabarty, D., Tomsick, J. A., Grefenstette, B. W., Psaltis, D., Bachetti, M., Barret, D., Boggs, S. E., Christensen, F. E., Craig, W. W., Fürst, F., Hailey, C. J., Harrison, F. A., Kaspi, V. M., Miller, J. M., Nowak, M. A., Rana, V., Stern, D., **Wik, D. R.**, Wilms, J., & Zhang, W. W. 2014, *ApJ*, 797, 92
46. "Spatially Resolving a Starburst Galaxy at Hard X-Ray Energies: *NuSTAR*, *Chandra*, and VLBA Observations of NGC 253," **Wik, D. R.**, Lehmer, B. D., Hornschemeier, A. E., Yukita, M., Ptak, A., Zezas, A., Antoniou, V., Argo, M. K., Bechtol, K., Boggs, S., Christensen, F., Craig, W., Hailey, C., Harrison, F., Krivonos, R., Maccarone, T. J., Stern, D., Venters, T., & Zhang, W. W. 2014, *ApJ*, 797, 79
47. "*NuSTAR* Observations of the Bullet Cluster: Constraints on Inverse Compton Emission," **Wik, D. R.**, Hornstrup, A., Molendi, S., Madejski, G., Harrison, F. A., Zoglauer, A., Grefenstette, B. W., Gastaldello, F., Madsen, K. K., Westergaard, N. J., Ferreira, D. D. M., Kitaguchi, T., Pedersen, K., Boggs, S. E., Christensen, F. E., Craig, W. W., Hailey, C. J., Stern, D., & Zhang, W. W. 2014, *ApJ*, 792, 48
48. "*NuSTAR* Study of Hard X-Ray Morphology and Spectroscopy of PWN G21.5-0.9," Nynka, M., Hailey, C. J., Reynolds, S. P., An, H., Baganoff, F. K., Boggs, S. E., Christensen, F. E., Craig, W. W., Gotthelf, E. V., Grefenstette, B. W., Harrison, F. A., Krivonos, R., Madsen, K. K., Mori, K., Perez, K., Stern, D., **Wik, D. R.**, Zhang, W. W., & Zoglauer, A. 2014, *ApJ*, 789, 72
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55. “Discovery of a Giant Radio Halo in a New Planck Galaxy Cluster PLCKG171.9-40.7,” Giacintucci, S., Kale, R., **Wik, D. R.**, Venturi, T., & Markevitch, M. 2013, *ApJ*, 766, 18
56. “The *Chandra* Multi-wavelength Project: Optical Spectroscopy and the Broadband Spectral Energy Distributions of X-Ray-selected AGNs,” Trichas, M., Green, P. J., Silverman, J. D., Aldcroft, T., Barkhouse, W., Cameron, R. A., Constantin, A., Ellison, S. L., Foltz, C., Haggard, D., Jannuzi, B. T., Kim, D.-W., Marshall, H. L., Mossman, A., Pérez, L. M., Romero-Colmenero, E., Ruiz, A., Smith, M. G., Smith, P. S., Torres, G., **Wik, D. R.**, Wilkes, B. J., & Wolfgang, A. 2012, *ApJS*, 200, 17
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58. “First results from the ground calibration of the *NuSTAR* flight optics,” Koglin, J. E., An, H., Barrière, N., Brejnholt, N. F., Christensen, F. E., Craig, W. W., Hailey, C. J., Jakobsen, A. C., Madsen, K. K., Mori, K., Nynka, M., Fernandez-Perea, M., Pivovarov, M. J., Ptak, A., Sleator, C., Thornhill, D., Vogel, J. K., **Wik, D. R.**, & Zhang, W. W. 2011, *SPIE*, 8147, 81470J
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60. “The Impact of Non-equipartition on Cosmological Parameter Estimation from Sunyaev-Zel’dovich Surveys,” Wong, K.-W., Sarazin, C. L., & **Wik, D. R.** 2010, *ApJ*, 719, 1
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62. “A *Suzaku* Search for Nonthermal Emission at Hard X-Ray Energies in the Coma Cluster,” **Wik, D. R.**, Sarazin, C. L., Finoguenov, A., Matsushita, K., Nakazawa, K., & Clarke, T. E. 2009, *ApJ*, 696, 1700
63. “Hard X-Ray Properties of the Merging Cluster Abell 3667 as Observed with *Suzaku*,” Nakazawa, K., Sarazin, C. L., Kawaharada, M., Kitaguchi, T., Okuyama, S., Makishima, K., Kawano, N., Fukazawa, Y., Inoue, S., Takizawa, M., **Wik, D. R.**, Finoguenov, A., & Clarke, T. E. 2009, *PASJ*, 61, 339

64. "The Impact of Galaxy Cluster Mergers on Cosmological Parameter Estimation from Surveys of the Sunyaev-Zel'dovich Effect," **Wik, D. R.**, Sarazin, C. L., Ricker, P. M., & Randall, S. W. 2008, ApJ, 680, 17
65. "Hard X-Ray-emitting Active Galactic Nuclei Selected by the *Chandra* Multiwavelength Project," Silverman, J. D., Green, P. J., Barkhouse, W. A., Kim, D.-W., Aldcroft, T. L., Cameron, R. A., Wilkes, B. J., Mossman, A., Ghosh, H., Tananbaum, H., Smith, M. G., Smith, R. C., Smith, P. S., Foltz, C., **Wik, D. R.**, & Jannuzi, B. T. 2005, ApJ, 618, 123
66. "The *Chandra* Multiwavelength Project: Optical Follow-up of Serendipitous *Chandra* Sources," Green, P. J., Silverman, J. D., Cameron, R. A., Kim, D.-W., Wilkes, B. J., Barkhouse, W. A., LaCluyz , A., Morris, D., Mossman, A., Ghosh, H., Grimes, J. P., Jannuzi, B. T., Tananbaum, H., Aldcroft, T. L., Baldwin, J. A., Chaffee, F. H., Dey, A., Dosaj, A., Evans, N. R., Fan, X., Foltz, C., Gaetz, T., Hooper, E. J., Kashyap, V. L., Mathur, S., McGarry, M. B., Romero-Colmenero, E., Smith, M. G., Smith, P. S., Smith, R. C., Torres, G., Vikhlinin, A., & **Wik, D. R.** 2004, ApJS, 150, 43
67. "GRB 000418: A Hidden Jet Revealed," Berger, E., Diercks, A., Frail, D. A., Kulkarni, S. R., Bloom, J. S., Sari, R., Halpern, J., Mirabal, N., Taylor, G. B., Hurley, K., Pooley, G., Becker, K. M., Wagner, R. M., Terndrup, D. M., Statler, T., **Wik, D. R.**, Mazets, E., & Cline, T. 2001, ApJ, 556, 556

Invited Colloquia, Seminars, & Workshops

1. 2021: High Energy Physics Seminar at the Harvard-Smithsonian Center for Astrophysics
2. 2020: APS Four Corners Meeting Invited Speaker
3. 2020: Astronomy Seminar at Iowa State University
4. 2019: "Galaxy Cluster Science with the FORCE mission," FORCE Workshop, NASA GSFC
5. 2019: Department Colloquium at Idaho State University
6. 2018: APS Four Corners Meeting Invited Plenary Speaker
7. 2018: Galaxies and Cosmology Seminar at the Harvard-Smithsonian Center for Astrophysics
8. 2017: Department Colloquia at the University of Oklahoma, University of North Dakota, and University of Alabama

Conference Proceedings & Presentations

1. "The X-ray Background Emission of the Galactic Center and Bulge with *NuSTAR*," 2020, Kuznetsova, E., Krivonos, R., Perez, K., Wik, D., Astronomical Society of the Pacific Conference Series (ASPCS): New Horizons in Galactic Center Astronomy and Beyond, arXiv:2008.12393
2. High Energy Astrophysics Division (HEAD) Meeting #18 (would have presented, but conference cancelled due to COVID-19)
3. "Heating and Acceleration at Galaxy Cluster Shocks: Insights from *NuSTAR*," 2019, X-ray Universe 2019, Bologna, Italy
4. "Broadband, spatially-resolved temperature constraints in galaxy clusters," 2019, Astrophysics of hot plasma in extended X-ray sources XMM-Newton Workshop, Madrid, Spain

5. "Heating and Acceleration at Galaxy Cluster Shocks: Insights from *NuSTAR*," 2019, High Energy Astrophysics Division (HEAD) Meeting #17, Monterey, CA
6. "A Figure of Merit for X-ray Survey Missions," Wik et al., 2018, SPIE Meeting, Austin, TX
7. "Electron Heating at Galaxy Cluster Shocks: Insights from *NuSTAR*," 2018, SnowCluster: the Physics of Galaxy Clusters, Snowbird, UT
8. "Electron Heating at Galaxy Cluster Shocks: Insights from *NuSTAR*," 2017, High Energy Astrophysics Division (HEAD) Meeting #16, Sun Valley, ID
9. "Electron Heating at Galaxy Cluster Shocks: Measuring Shock Temperatures with *NuSTAR*," 2017, Clusters of Galaxies: Physics and Cosmology, Bern, Switzerland
10. "Inverse Compton Searches at Hard X-ray Energies with *NuSTAR*," 2017, Diffuse Synchrotron Emission in Clusters of Galaxies - What is Next?, Leiden, Netherlands
11. "Characterizing the First Galaxy Clusters at the Epoch of their Formation with *STAR-X*," 2017, ESO Early stages of Galaxy Cluster Formation, Garching, Germany
12. "Heating and Acceleration of Galaxy Cluster Shocks: Insights from *NuSTAR*," 2017, Marseille Cosmology Conference, Aix en Provence, France
13. "Electron Heating at Galaxy Cluster Shocks: Measuring the Temperature of the Bullet Cluster Shock with *NuSTAR*," 2017, American Astronomical Society Meeting #229, Grapevine, TX
14. "Galaxy Clusters with *NuSTAR* and *HEX-P*," 2016, *NuSTAR* Science Meeting, Pasadena, CA
15. "A New Deep, Hard X-ray Survey of M31," 2016, High Energy Astrophysics Division (HEAD) Meeting #15, Naples, FL
16. "NuSTAR Legacy Survey of Local Group Galaxies," 2016, High Energy Astrophysics Division (HEAD) Meeting #15 (Town Hall Talk), Naples, FL
17. "A New Deep, Hard X-ray Survey of M31: Monitoring Black Hole and Neutron Star Accretion States in the XRB Population of our Nearest Neighbor," 2016, American Astronomical Society Meeting #227, Kissimmee, FL
18. "The *NuSTAR* Galaxy Cluster Program and Recent Results," 2015, Astroparticle View of Galaxy Clusters, Hiroshima, Japan
19. "*NuSTAR* Observations of Galaxy Clusters," 2015, Snowcluster, Snowbird, UT
20. "The *NuSTAR* Galaxy Cluster Program and Recent Results," 2014, 8th Korean Astrophysics Workshop on Astrophysics of High-Beta Plasma in the Universe, Jeju Island, Korea
21. "*NuSTAR* Observations of Galaxy Clusters," 2015, American Astronomical Society Meeting #225, Seattle, WA
22. "Discovery of a Nearby, Massive Galaxy Cluster Behind the Galactic Bulge with the *XMM-Newton* Observatory," 2014, The X-ray Universe 2014, Dublin, Ireland
23. "The Bullet Cluster: The Power of Hard X-rays to Constrain Cluster Merger Physics," 2014, *NuSTAR* Science Meeting, Columbia, NY
24. "Starburst Galaxy NGC 253 in a Hard (X-ray) Light: Resolving its Emission with *NuSTAR*," 2014, American Astronomical Society Meeting #223, Washington, DC
25. "*NuSTAR*'s Hard Look at the Bullet Cluster: First Results," 2013, High Energy Astrophysics Division (HEAD) Meeting #13, Monterey, CA

26. “*NuSTAR*’s Hard Look at the Bullet Cluster: First Results,” 2013, Snowcluster, Snowbird, UT
 27. “Current Results from Observations of the Bullet Cluster,” 2013, *NuSTAR* Science Team Meeting, Pasadena, CA
 28. “*NuSTAR*’s Hard Look at Clusters and Relics: Bullet Cluster First Results,” 2013, American Astronomical Society Meeting #221
 29. “*XMM-Newton* Mosaic of the Perseus Clusters: Surface Brightness Fluctuations Confirm Clumping?,” 2012, Energetic Astronomy, Annapolis, MD
 30. “Searching for Non-thermal X-rays in the Brightest X-ray and Radio Galaxy Clusters,” 2012, American Astronomical Society Meeting #219, Austin, TX
 31. “Clumping in Cluster Outskirts: Measuring their Statistical Signature with *XMM-Newton*,” 2011, SZX Huntsville, Huntsville, AL
 32. “Cluster Cosmology: Is the ICM in HSE?,” 2011, Alpine Cosmology Conference, Austrian Alps
 33. “Toward measuring the size-scale of clumping in the outskirts of clusters,” **Wik, D. R.**, 2011, A New Era for SZ Science, Santander, Spain
 34. “Swift BAT Search for Non-thermal Emission in HIFLUGCS Clusters,” 2011, Non-thermal Phenomena in Colliding Galaxy Clusters, *Memorie della Società Astronomica Italiana*, 82, 523
 35. “Impact of Mergers on the Intracluster Medium of Galaxy Clusters,” 2010, American Astronomical Society Meeting #215, Washington, DC
 36. “The Nature of Extended Hard X-ray Emission from the Coma Cluster as Observed by the Swift BAT,” 2010, High Energy Astrophysics Division (HEAD) Meeting #11, Kona, Hawaii
 37. “The Merger Dynamics of the Cygnus A Cluster: Direct Detection of the Subcluster Infall Velocity,” **Wik, D. R.** & Sarazin, C. 2010, in *The Energetic Cosmos: from Suzaku to Astro-H*, JAXA-SP-09-008E, ed. K. Makishima (Tokyo: JAXA), 88, Otaru, Japan
 38. “*XMM-Newton*, *Suzaku*, & *Swift* Limits on Non-thermal Hard X-ray Emission in the Coma Cluster,” 2009, New Paths in Studies of Galaxy Clusters, Bavaria, Germany
 39. “The Continued Search for Non-thermal Hard X-ray Emission in the Coma and Abell 3667 Galaxy Clusters,” 2008, High Energy Astrophysics Division (HEAD) Meeting #10, Los Angeles, CA
 40. “A *Suzaku* Search for Non-thermal Emission at Hard X-ray Energies in the Coma Cluster,” 2007, *Suzaku* X-ray Universe Meeting, San Diego, CA
 41. “The Effect of Galaxy Cluster Mergers on Observations of the Sunyaev-Zel’dovich Effect,” 2006, High Energy Astrophysics Division (HEAD) Meeting #9, San Francisco, CA
 42. “Classifying Serendipitous Sources for the ChaMP,” 2002, American Astronomical Society Meeting #201, Seattle, WA
 43. “Brown Dwarfs in the NOAO Deep Wide Field Survey,” 2001, American Astronomical Society Meeting #199, Washington, DC
 44. “A Rapidly Evolving Loose Group of Galaxies,” 2001, American Astronomical Society Meeting #199, Washington, DC
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Professional Societies

- 2003-present: Sigma Xi Scientific Research Society
 - 2003-present: Phi Beta Kappa Society
 - 2001-present: American Astronomical Society
 - 2009-present: High Energy Astrophysics Division, AAS
 - 2002-2003: Sigma Pi Sigma National Physics Honor Society
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Teaching Experience

- Fall 2020: ASTR/PHYS 2500: Foundations of Astronomy, University of Utah
 - Spring 2020: ASTR/PHYS 5590: High Energy Astrophysics, University of Utah
 - Fall 2018 & 2019: ASTR/PHYS 1060: The Universe, University of Utah
 - Spring 2018 & 2019 & 2021: ASTR/PHYS 4080: Introduction to Cosmology, University of Utah
 - Summer 2008: ASTR 348: Introduction to Cosmology, University of Virginia
 - 2003-4: Oral English Teacher at Private Boarding Schools, Grades 6-12, in Suzhou & Mianyang, China
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Students and Postdocs Supervised

- 2021-present: Christian Norseth, Undergrad
 - 2020-present: Maya Wagner, Undergrad
 - 2020-present: Cicely Potter, Grad Student
 - 2020-present: Nathan Richardson, Undergrad
 - 2019-present: Hannah Fritze, Grad Student
 - 2019-present: Aysegul Tumer, Postdoc
 - 2019-present: Qian Wang, Postdoc
 - 2018-present: Vivek Vankayalapati, Undergrad
 - 2017-present: Randall Rojas-Bolivar, Grad Student
 - 2017-present: Steve Rossland, Grad Student
 - 2020-2021: Anna Stephens, Undergrad
 - 2019: Vivian Carvajal, Summer REU program
 - 2019: Sage Yeager, Undergrad
 - 2019-2020: Chandler Bass, Undergrad
 - 2019-2020: Logan Kelley, Undergrad, Senior Honors Thesis advisor: "Weighing Abell 2029: How Different Assumption Change a Galaxy Cluster's Mass"
 - 2018-2019: Sarina Etheridge, Grad Student, completed MS degree
 - 2017-2019: Jun Yang, Postdoc
 - 2017-2018: Cole Takasaki, Undergrad, Senior Honors Thesis advisor: "Benchmarking of the Active Shielding Particle Pusher with Theoretical Models"
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Public Outreach & Education

- September 2019: "Reflections on 20 Years of XMM-Newton's X-ray Astronomy" NASA-produced YouTube video, one of the interviewees featured
 - <https://www.youtube.com/watch?v=aqxutnKohck>
- August 2019: Utah Astronomy Club Public Talk

- <https://the-nightly-news.com/blog/blog-87-secrets-of-the-high-energy-x-ray-universe>
 - <https://www.deseret.com/2019/9/2/20841051/joe-bauman-utah-scientists-daniel-wik-helps-unlock-x-ray-secrets-of>
- July 2018: Interview on Utah Public Radio:
 - <http://www.upr.org/post/nasas-nustar-telescope-enables-scientists-learn-about-cosmic-rays>
- Fall 2017, Spring & Fall 2019: Undergraduate Seminar Talk
- July 2018: REU Program Research Talk
- Taft-Nicholson Center Public Talk (2017, 2019) and Guest Lecturer (2018)
- 2014-2017: NASA AskAstro responder
- October 2012: Interview on NASA's Blueshift Podcast
- Fall 2011: National Capital Astronomers Public Talk
- Spring 2005 & Fall 2007: Charlottesville Astronomical Society Public Talk
- Fall 2007: Jefferson Institute for Lifelong Learning Public Talk