

**Address and Contact Information**

University of Michigan Department of Astronomy  
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**Research Interests**

Relativistic effects revealed in accretion flows onto - and jets from - black holes and neutron stars.  
The co-evolution of massive black holes and their host environments through feedback.  
Stellar tidal disruptions by massive black holes.

**Research Positions**

Director, Michigan Institute for Research in Astrophysics (MIRA)	2019-
Professor of Astronomy, The University of Michigan	2015-
Associate Professor of Astronomy, The University of Michigan	2010-2015
Assistant Professor of Astronomy, The University of Michigan	2005-2010

**Awards**

Mid-Career Prize, American Astronomical Society (High Energy Astrophysics Division)	2017
AAS/HEAD Dissertation Prize (Awarded to former student Ashley King)	2016
Faculty Recognition Award for Research Excellence, The University of Michigan	2014
NASA Group Achievement Award, NuSTAR Science Team	2014
Distinguished Alumni Award, Illinois School District-303	2013
Chandra/Einstein Postdoctoral Fellowship (declined to accept faculty position)	2005
NSF Astronomy and Astrophysics Postdoctoral Fellowship, Harvard-Smithsonian CfA	2002-2005
William E. Stephens Memorial Physics Prize, The University of Pennsylvania	1997

**Education**

The Massachusetts Institute of Technology, Cambridge Massachusetts, USA	
Ph.D., Physics	2002
The University of Pennsylvania, Philadelphia, Pennsylvania, USA	
Benjamin Franklin Scholar, University Scholar	1997

**Scientific Impact**

Refereed journal papers	365
Refereed journal papers (leading author)	53
Time-domain circulars (IAUC, ATEL, GCN)	161
Citations (approximate)	20,200
H-index	72
H-index (leading author)	35

**Selected Scientific and Oversight Positions**

Athena, Co-Chair of the US Athena Study Team	2019-
XARM, Participating Scientist (1 of 5 from the US)	2018-
Science Organizing Committee: From Chandra to Lynx, Cambridge, 2017	2017
AXIS, Co-I, (high resolution X-ray imaging)	2017-
NICER: Affiliated Scientist	2016-
XMM-Newton Observing Time Allocation Committee: Member	2016
ARCUS, Co-I (selected for Phase-A in 2017)	2014-
Athena XIFU Instrument Team: Member	2014-
Athena Science Team: Chair, Accretion Physics	2013-
NuSTAR Science Team: Member	2012-
Astro-H/Hitomi International Science Working Group: Vice Chair	2009-2017
Astro-H/Hitomi US Science Working Group: Chair	2009-2017
Chandra X-ray Observatory User's Committee: Chair	2011-2015
Suzaku X-ray Observatory User's Group: Chair	2007-2012
ESA Cosmic Visions Decadal Assessment: Reviewer	2012
Science Organizing Committee, COSPAR E1.7, "X-ray Line Spectroscopy", Mysore India	2012
Chandra X-ray Observatory Proposal Review: Panel Chair	2014, 2009
Chandra X-ray Observatory User's Committee: Member	2007-2010
NASA Senior Review of Operating Missions: Presenter, RXTE Science Case	2006

**Professional Societies**

The American Astronomical Society, and its High Energy Astrophysics Division  
The American Physical Society

**Current Research Group**

Dr. Mark Reynolds	research scientist
Dr. Abigail Stevens, Dr. Bailey Tetarenko	postdoctoral fellows
Dr. Elias Kammoun, Dr. Abderahmen Zoghbi	postdoctoral researchers
Ms. Mayura Balakrishnan, Mr. Paul Draghis, Mr. Nicolas Trueba	graduate students
Mr. Evan Manrow, Ms. Hazel Yun	senior undergraduate researchers

**Past Postdoctoral Researchers (abridged)**

Dr. Edward Cackett (fmr Einstein Fellow)	Faculty at Wayne State University
Dr. Nathalie Degenaar (fmr Hubble Fellow)	Faculty at The University of Amsterdam,
Dr. Kayhan Gultekin (fmr postdoc)	Faculty at the University of Michigan
Dr. Dipankar Maitra (fmr postdoc)	Faculty at Wheaton College
Dr. Amy Reines (fmr Hubble Fellow)	Faculty at Montana State University
Dr. Rubens Reis (fmr Einstein Fellow)	KPMG London

## Curriculum Vitae

Dr. Jon M. Miller

### Past Students (abridged)

Dr. Jennifer Blum (fmr grad. student)	Institute for Defense Analysis
Mr. Adham El-Batal (fmr undergrad, PhD at Boston Univ.)	Data Analyst, bol.com (Utrecht)
Dr. Ashley King (fmr grad. student, Hubble/Kavli Fellow)	Data Scientist, Carbon Lighthouse
Mr. Benjamin Lampert (fmr undergrad)	Engineer, Bosch
Dr. Renee Ludlam (fmr grad. student)	Hubble/Einstein Fellow, Caltech
Mr. Warren Morningstar (fmr undergrad, PhD @S tanford)	Data Scientist, Alphabet
Dr. Greg Salvesen (fmr undergrad, PhD @ Colorado))	Postdoctoral researcher, LANL

### Teaching Experience

Astronomy 101: Introductory Astronomy & The Search for Life	W09, F11, W13, W14, W15, W17
Astronomy 102: Introductory Astronomy & Cosmology	W07, F07, W08, W10, F16
Astronomy 106: “Aliens” (the possibility of life in the universe)	W12
Astronomy 182: The Science and Fiction of Science Fiction	F18
Astronomy 220/420, Frontiers in Astronomy	F12
Astronomy 182, “The Science in Science Fiction”	F18, F19, F20
Astronomy 405: Undergraduate High Energy Astrophysics	F06
Astronomy 532: Graduate High Energy Astrophysics	W06, F15, F17

### Selected Departmental and University Service

Graduate Preliminary Exam Committee Chair	2020-2021
Divisional Evaluation Committee (reviews tenure in the sciences)	2017-2020
Graduate Recruiting and Admissions Chair	2007-2010, 2016-2017
Associate Department Chair for Graduate Studies	2010-2015
Space Renovation and Improvement Committee Chair	2014-2015
High Energy Astrophysics Curriculum Committee Chair	2007-2008

### Diversity, Equity, and Inclusion Efforts

- \* Created the Department’s “Fall Preview Weekend”. This annual event welcomes undergraduates representing excellence and diversity to the Department to learn about graduate school.
- \* Involved the Department in the Summer Research Opportunities Program (SROP). Students from colleges without research opportunities do research at Michigan through a holistic residential program.
- \* Created the Michigan Institute for Research in Astrophysics (MIRA). One of the pillars of this institute is education and DEI seminars are now a major thrust of MIRA.
- \* Sponsor and advocate for underrepresented minority students transferring into the University.

*References available upon request.*

## Selected Press Releases

- Connecting GPS, Einstein, and a Stellar Couple October 2020  
Chandra: Stay tuned!
- X-ray Echoes of Shredded Star Provide Close-up of Killer Black Hole June 2016  
NASA: <http://www.nasa.gov/feature/goddard/2016/x-ray-echoes-of-a-shredded-star-provide-close-up-of-killer-black-hole>
- Destroyed Star Rains onto Black Hole October 2015  
NASA: [http://chandra.harvard.edu/press/15\\_releases/press\\_102115.html](http://chandra.harvard.edu/press/15_releases/press_102115.html)  
ESA: <http://sci.esa.int/xmm-newton/56682-artist-s-impression-of-a-tidal-disruption-event/>  
YouTube: <https://www.youtube.com/watch?v=hu6hIhW00Ek>
- NuSTAR Captures a Neutron Star that Violates Limits October 2014  
NASA: <http://www.nustar.caltech.edu/news/nustar141008>  
Nature: <http://www.nature.com/nature/journal/v514/n7521/full/nature13791.html>
- Chandra and XMM-Newton Provide Direct Measurement of Distant Black Hole's Spin March 2014  
NASA: [http://chandra.harvard.edu/press/14\\_releases/press\\_030514.html](http://chandra.harvard.edu/press/14_releases/press_030514.html)  
Nature: <http://www.nature.com/nature/journal/v507/n7491/full/nature13031.html>
- The Care and Feeding of Black Holes January 2014  
AAS: <http://aas.org/media-press/archived-aas-press-conference-webcasts>  
BBC: <http://www.bbc.com/news/world-middle-east-25678737>
- G306.3-0.9: NASA's Swift, Chandra Explore a Youthful "Star Wreck" March 2013  
NASA: <http://chandra.harvard.edu/photo/2013/g306/>  
UMich: <http://www.ns.umich.edu/new/releases/21306-young-supernova-remains-found-by-u-m-astronomer>
- Cry of a Shredded Star Heralds a New Era for Testing General Relativity August 2012  
NASA: [http://www.nasa.gov/mission\\_pages/swift/bursts/shredded-star.html](http://www.nasa.gov/mission_pages/swift/bursts/shredded-star.html)  
ESA: <http://sci.esa.int/science-e/www/object/index.cfm?fobjectid=50638>  
NPR interview: <http://www.thetakeaway.org/2012/aug/22/when-star-dies-does-it-make-noise/>
- NASA's Chandra Finds Fastest Wind from Stellar-Mass Black Hole February 2012  
NASA: [http://chandra.harvard.edu/press/12\\_releases/press\\_022112.html](http://chandra.harvard.edu/press/12_releases/press_022112.html)  
UMich: <http://www.ns.umich.edu/new/releases/20238-fastest-wind-from-stellar-mass-black-hole-discovered>
- Black Hole Paradox Solved by NASA's Chandra June 2006  
NASA: [http://chandra.harvard.edu/press/06\\_releases/press\\_062106.html](http://chandra.harvard.edu/press/06_releases/press_062106.html)  
NPR interview: <http://www.npr.org/templates/story/story.php?storyId=5501770>

## Selected Talks

<i>Conference Summary</i> , Chandra Frontiers in Time-Domain Science, Virtual Cambridge MA	Oct. 2020
<i>Flagship Studies of AGN</i> , XRISM Science Meeting 3	Aug. 2020
<i>TDEs in X-rays</i> , Midwest Transients Workshop, Chicago	Feb. 2019
<i>Black Hole Accretion with XARM</i> , XARM Science Meeting, Kanazawa, Japan	Sep. 2018
<i>Black Holes with XARM</i> , XARM Science Meeting, Nara, Japan	May 2018
<i>Tidal Disruption Events</i> , University of Waterloo Astrophysics Colloquium, Waterloo CA	Apr. 2018
<i>Outflows from Tidal Disruption Events</i> , Martin Rees' 75th Birthday Celebration, Cambridge UK	Sep. 2017
<i>Black Hole Disk Winds</i> , AAS/HEAD Meeting Mid-Career Prize Talk, Sun Valley ID	Aug. 2017
<i>Bright X-ray Sources and the Athena/XIFU</i> , XIFU Consortium Meeting, Toulouse (invited)	Mar. 2017
<i>New Insights into Neutron Stars with NuSTAR</i> , NuSTAR Science Meeting, Caltech (invited)	Nov. 2016
<i>Black Hole Spin</i> , Northern Illinois University Physics Colloquium	Oct. 2016
<i>Black Holes at High Resolution</i> , Chandra's Next Decade, Cambridge MA (invited)	Aug. 2016
<i>Tidal Disruption Events</i> , Washington University Astronomy Colloquium, St. Louis MO	May 2016
<i>Black Holes Across the Mass Scale</i> , JSI/Maryland/GSFC Conference, Annapolis MD (invited)	Oct. 2015
<i>Black Hole Disk Winds</i> , University of Wisconsin Madison Astronomy Colloquium	Oct. 2015
<i>Compact Object Spins</i> , University of Wisconsin Milwaukee Astronomy Colloquium	May 2015
<i>Black Hole Outflows</i> , University of Maryland Astronomy Colloquium, College Park MD	Dec. 2014
<i>Black Hole X-ray Binaries</i> , 15 Years of Science with Chandra, Boston MA	Nov. 2014
<i>Black Hole Outflows</i> , Stanford/KIPAC Colloquium, Palo Alto CA	Oct. 2014
<i>Black Holes with Astro-H</i> , 12 <sup>th</sup> Astro-H Science Meeting, Paris, France (invited review)	Jul. 2014
<i>Neutron Star Transients</i> , MAXI-Suzaku Conference, Matsuyama, Japan (invited review)	Feb. 2014
<i>The Spin of the Black Hole GRS 1915+105</i> , AAS/HEAD Meeting, Monterey CA	Apr. 2013
<i>Black Hole Spin and Disk Reflection with RXTE</i> , 16 years of RXTE, NASA GSFC (invited)	Feb. 2012
<i>X-ray Surveys and Accretion with Swift</i> , Time Domain Astrophysics with Swift, Clemson (invited)	Oct. 2011
<i>Black Hole Accretion</i> , NASA Goddard Scientific Colloquium	Oct. 2011
<i>The Tidal Disruption Candidate Swift J164449.3</i> , AAS/HEAD Meeting, Newport, RI	Sep. 2011
<i>Quasars for the Impatient</i> , Suzaku Science Conference, Stanford (invited review)	Jul. 2011
<i>The Neutron Star Equation of State</i> , Penn State University Gravitational Seminar	Mar. 2011
<i>Stellar Mass Black Holes</i> , Astro-H Summer School, Atami, Japan	Aug. 2011
<i>Black Hole Spin</i> , University of Illinois Astronomy Colloquium, Champaign IL	Dec. 2010
<i>Black Hole Spin in X-rays</i> , 216 <sup>th</sup> AAS Meeting, Miami FL (invited plenary)	May 2010
<i>Relativistic X-ray Emission Lines</i> , <i>X-ray Spectroscopy: Past, Present, and Future</i> , Utrecht (invited review)	Mar. 2010
<i>A Hard Look at Disk-Jet Connections</i> , 11 <sup>th</sup> AAS/HEAD Meeting, Kona HI	Mar. 2010
<i>Compact Objects with Astro-H</i> , 3 <sup>rd</sup> Astro-H Science Meeting, Tokyo Japan	Feb. 2010
<i>Three Points on Black Hole Accretion, Matter and EM Fields in Strong Gravity</i> , University of Maryland	Aug. 2009
<i>Relativistic Disk Lines</i> , <i>The Energetic Cosmos, from Suzaku to Astro-H</i> , Otaru, Japan (invited review)	Jun. 2009
<i>Evidence For and Against IMBHs</i> , <i>IMBHs: from First Light to AGN</i> , Irvine CA (invited review)	Apr. 2009
<i>Measuring Black Hole Spin</i> , Stanford/KIPAC Joint Astronomy Colloquium, Palo Alto CA	Nov. 2008

## Publications

ApJ (L)	The Astrophysical Journal (L = Letters)
A&A	Astronomy and Astrophysics
MNRAS	Monthly Notices of the Royal Astronomical Society
PASJ	Proceedings of the Astronomical Society of Japan
SPIE	Publication of the Society of Photographic Instrumentation Engineers

*Authors in italics are postdoctoral researchers and students in the Miller group.*

## Refereed Journal Publications

365. “A Full Characterization of the Supermassive Black Hole in IRAS 09149-6206”

Walton D. J., et al., incl. **Miller, J. M.**, 2020, MNRAS, in press, arxiv:2009.10734

364. “A Hard Look at Local, Optically Selected, Obscured Seyfert Galaxies”

*Kammoun, E. S.*, **Miller, J. M.**, et al., 2020, ApJ, 901, 161

363. “Discovery of Thermonuclear (Type I) X-ray Bursts in the X-ray Binary Swift J1858.6-084 Observed with NICER”

Buisson, D., et al., incl. **Miller, J. M.**, 2020, MNRAS, in press, arxiv:2009.03334

362. “A New Spin on an Old Black Hole: NuSTAR Spectroscopy of EXO 1846-031”

Draghis, P., **Miller, J. M.**, et al., 2020, ApJ, 900, 78

361. “A Redshifted Inner Disk Atmosphere and Transient Absorbers in the Ultracompact Neutron Star X-ray Transient 4U 1916-053”

*Trueba, N.*, **Miller, J. M.**, et al., 2020, ApJ, 899, L16

360. “An Obscured, Seyfert-2-like State of the Stellar-Mass Black Hole GRS 1915+105 Caused by Failed Disk Winds”

**Miller, J. M.**, et al., 2020, ApJ, in press, arxiv:2007.07005

359. “Nicer-NuSTAR Observations of the Neutron Star X-ray Binary 4U 1735-44”

*Ludlam, R.*, et al., incl. **Miller, J. M.**, 2020, ApJ, 895, L45

358. “The Soft State of the Black Hole Transient MAXI J1820+070: Emission from the Edge of the Plunge Region?”

Fabian, A. C., et al., incl. **Miller, J. M.**, 2020, MNRAS, 493, 5389

357. “Blueshifted Absorption Lines from X-ray Reflection in IRAS 13224-3809”

Fabian, A. C., et al., incl. **Miller, J. M.**, 2020, MNRAS, 493, 2518

356. “Swift Spectroscopy of the Accretion Disk Wind in the Stellar-mass Black Hole GRO J1655-40”:

*Balakrishnan, M.*, **Miller, J. M.**, et al., 2020, ApJ, 893, 155

355. “Testing the Lamp-post and Wind Reverberation Models with XMM-Newton Observations of NGC 5506”  
Zoghbi, A., Kalli, S., **Miller, J. M.**, 2020, ApJ, 893, 97
354. “A Strongly Changing Accretion Morphology During the Outburst Decay of the Neutron Star X-ray Binary 4U 1608-52”  
Van den Eijnden, J., et al., incl. **Miller, J. M.**, 2020, MNRAS, 493, 1318
353. “Observations of a GX 301-2 Apsastron Flare with X-Calibur Hard X-ray Polarimeter Supported by NICER, the Swift/XRT and BAT, and Fermi GBM”  
Abarr, Q., et al., incl. **Miller, J. M.**, 2020, ApJ, 891, 70
352. “The Nature of the Broadband X-ray Variability in the Dwarf Seyfert Galaxy NGC 4395”  
*Kammoun, E. S.*, et al., incl. **Miller, J. M.**, 2019, ApJ, 886, 145
351. “A Comprehensive Chandra Study of the Disk Wind in the Black Hole 4U 1630-472”  
*Trueba, N.*, **Miller, J. M.**, et al., 2019, ApJ, 886, 104
350. “MAXI J1820+070 with NuSTAR I. An Increase in Variability Frequency but a Stable Reflection Spectrum: Coronal Properties and Implications for the Inner Disk in Black Hole X-ray Binaries”  
Buisson, D., et al., incl. **Miller, J. M.**, 2019, MNRAS, 490, 1350
349. “An Evolving Broad Iron Line from the First Galactic Ultraluminous X-ray Pulsar Swift J0243.6+6124”  
Jaisawal, G., et al., incl. **Miller, J. M.**, 2019, ApJ, 885, 18
348. “Multiwavelength Characterization of the Accreting Millisecond X-ray Pulsar and Ultracompact Binary IGR J17062-6143”  
Hernandez Santisteban, J., et al., incl. **Miller, J. M.**, 2019, MNRAS, 488, 4596
347. “Crust Cooling of the Neutron Star in Aql X-1: Different Depth and Magnitude of Shallow Heating During Similar Accretion Outbursts”  
Degenaar, N., et al., incl. **Miller, J. M.**, 2019, MNRAS, 488, 4477
346. “A NICER Look at Strong X-ray Obscuration in the Seyfert-2 Galaxy NGC 4388”  
**Miller, J. M.**, *Kammoun, E. S.*, et al., 2019, ApJ, 884, 106
345. “Revisiting the Spectral and Timing Properties of NGC 4151”  
*Zoghbi, A.*, **Miller, J. M.**, Cackett, E. S., 2019, ApJ, 884, 26
344. “Arcus: The Soft X-ray Grating Explorer”  
Smith, R. K., et al., incl. **Miller, J. M.**, 2019, SPIE 11118, 0
343. “Observations of the Ultra-Compact X-ray Binary 4U 1543-624 in Outburst with NICER, INTEGRAL, Swift, and ATCA”

Ludlam, R., M., et al., incl. **Miller, J. M.**, 2019, ApJ, 883, 39

342. “Direct Observation of the Broad Line Region in X-rays During the Low State of NGC 4051”

Peretz, U., **Miller, J. M.**, Behar, E., 2019, ApJ, 879, 102

341. “Broadband X-ray Spectral and Timing Analyses of the Black Hole Binary Candidate Swift J1658.2-4242: Rapid Flux Variation and a Turn-on of a Transient QPO”

Xu, Y., et al., incl., **Miller, J. M.**, 2019, ApJ, 879, 93

340. “NICER Discovers Spectral Lines During Photospheric Radius Expansion Bursts from 4U 1820-30: Evidence of Burst-Driven Winds”

Strohmayer, T., et al., incl. **Miller, J. M.**, 2019, ApJ, 868, L27

339. “A Hard Look at NGC 5347: Revealing a Nearby Compton-thick AGN”

*Kammoun, E. S.*, **Miller, J. M.**, et al., 2019, ApJ, 877, 102

338. “A Bayesian Analysis of SDSS 0914+0853, a Low-mass Dual AGN Candidate”

Foord, A., et al., incl. **Miller, J. M.**, 2019, ApJ, 877, 17

337. “Photoionization Emission Models for the Cyg X-3 X-ray Spectrum”

Kallman, T., et al., incl. **Miller, J. M.**, 2019, ApJ, 874, 51

336. “NuSTAR Observations of the Accreting Atolls GX 3+1, 4U 1702-429, 4U 0614+091, and 4U 1746-37”

*Ludlam, R.*, **Miller, J. M.**, et al., 2019, ApJ, 873, 99

335. “The Fundamental Plane of Black Hole accretion and its Use as a Black Hole Mass Estimator”

Gultekin, K., et al., incl. **Miller, J. M.**, 2019, ApJ, 871, 80

334. “X-ray and UV Monitoring of the Seyfert 1.5 Galaxy Markarian 817”

*Morales, A. M.*, **Miller, J. M.**, et al., 2019, ApJ, 870, 54

333. “Detection of Polarized Gamma-ray Emission from the Crab Nebula with the Hitomi Soft Gamma-ray Detector”

The Hitomi Collaboration, incl. **Miller, J. M.**, 2018, PASJ, 70, 113

332. “A NICER Discovery of Low-frequency Quasi-Periodic Oscillations in the Soft-Intermediate State of MAXI J1535-571”

*Stevens, A. L.*, et al., incl. **Miller, J. M.**, 2018, ApJ, 885, L15

331. “Constraining the Inclination of the Low-mass X-ray Binary Cen X-4”

Hammerstein, E., Cackett, E., Reynolds, M., **Miller, J. M.**, 2018, MNRAS, 478, 4317

330. “X-ray Structure Between the Innermost Disk and Optical Broad Line Region in NGC 4151”



**Miller, J. M.**, Cackett, E., *Zoghbi, A.*, et al., 2018, ApJ, 865, 97

329. “NICER Discovers mHz Oscillations in the ‘Clocked’ Burster GS 1826-238”  
Strohmayr, T., Gendreau, K., Altamirano, D., et al., incl. **Miller, J. M.**, 2018, ApJ, 865, 63

328. “Concept of the X-ray Astronomy Recovery Mission”  
Tashiro, M., Maejima, H., Toda, K., et al., incl. **Miller, J. M.**, 2018, SPIE, 10699, 22

327. “The ATHENA X-ray Integral Field Unit (X-IFU)”  
Barret, D., Lam Trong, T., den Herder, J.-W., et al., incl. **Miller, J. M.**, 2018, SPIE, 10699, 1

326. “A NICER Spectrum of MAXI J1535-571: Black Hole Spin and Potential Disk Warping”  
**Miller, J. M.**, *Ludlam, R.*, et al., 2018, ApJ, 860, L28

325. “The 1.5 Ms Observing Campaign on IRAS 13224-38098-I. X-ray Spectral Analysis”  
Jiang, J. Parker, M., et al., incl. **Miller, J. M.**, 2018, MNRAS, 477, 3711

324. “The Imprints of AGN Feedback Within a Supermassive Black Hole’s Sphere of Influence”  
Russell, H., Fabian, A., McNamara, B., **Miller, J. M.**, Nulsen, P., Piotrowska, J., Reynolds, C., 2018, MNRAS, 477, 3583

323. “The Hard State of the Obscured High Inclination Black hole Binary Candidate MAXI J1658.2-4242 Observed with NuSTAR and Swift”  
Xu, Y., Harrison, F., et al., incl. **Miller, J. M.**, 2018, ApJ, 865, 18

322. “Continued Cooling of the Accretion-Heated Neutron Star Crust in the X-ray Transient IGR J17480-2446 Located in the Globular Cluster Terzan 5”  
Ootes, L., et al., incl. **Miller, J. M.**, 2019, MNRAS, 487, 1447

321. “A NICER Look at the Aql X-1 Hard State”  
Bult, P., Azroumanian, Z., Cackett, E., et al., incl. **Miller, J. M.**, 2018, ApJ, 859, L1

320. “Hitomi X-ray Observation of the Pulsar Wind Nebula G21.5-0.9”  
The Hitomi Collaboration, incl. **Miller, J. M.**, 2018, PASJ, 70, 38

319. “Glimpse of the Highly Obscured HMXB IGR J16318-4848 with Hitomi”  
The Hitomi Collaboration, incl. **Miller, J. M.**, 2018, PASJ, 70, 17

318. “Hitomi Observations of the LMC SNR N132D: Highly Redshifted X-ray Emission from Iron Ejecta”  
The Hitomi Collaboration, incl. **Miller, J. M.**, 2018, PASJ, 70, 16

317. “Atomic Data and Spectral Modeling Constraints from High-Resolution X-ray Observations of the Perseus Cluster with Hitomi”  
The Hitomi Collaboration, incl. **Miller, J. M.**, 2018, PASJ, 70, 12

316. “Temperature Structure in the Perseus Cluster Core Observed with Hitomi”  
The Hitomi Collaboration, incl. **Miller, J. M.**, 2018, PASJ, 70, 11
315. “NICER Observes the Effects of an X-ray Burst on the Accretion Environment in Aql X-1”  
Keek, L., Arzoumanian, Z., Bult, P., et al., incl. **Miller, J. M.**, 2018, ApJ, 855, L4
314. “Alternative Explanations for Extreme Supersolar Iron Abundances Inferred from the Energy Spectrum of Cyg X-1”  
Tomsick, J., Parker, M., Garcia, J., et al., incl. **Miller, J. M.**, 2018, ApJ, 855, 3
313. “Detection of Reflection Features in the Neutron Star Low-mass X-ray Binary Serpens X-1 with NICER”  
*Ludlam, R.*, **Miller, J. M.**, Arzoumanian, Z., et al., 2018, ApJ, 858, L5
312. “Absence of Reflection Features in NUSTAR Spectra of the Luminous Neutron Star X-ray Binary GX 5-1”  
Homan, J., Steiner, J., Lin, D., Fridrikson, J., Remillard, R., **Miller, J. M.**, *Ludlam, R.*, 2018, apJ, 853, 157
311. “Hitomi Observations of Radio Galaxy NGC 1275: The First X-ray Microcalorimeter Spectroscopy of Fe K-alpha Line Emission from an Active Galactic Nucleus”  
The Hitomi Collaboration, incl. **Miller, J. M.**, et al., 2018, PASJ, 70, 13
310. “Reflection Spectra of the Black Hole Binary Candidate MAXI J1535-571 in the Hard State Observed with NuSTAR”  
Xu, Y., Harrison, F., Garcia, J., Fabian, A., Fuerst, F., Gandhi, P., Grefenstette, B., **Miller, J. M.**, Tomsick, J., Walton, D., 2018, ApJ, 852, L34
309. “Atmospheric Gas Dynamics in the Perseus Cluster Observed with Hitomi”  
The Hitomi Collaboration, incl. **Miller, J. M.**, et al., 2018, PASJ, 70, 9
308. “Measurements of Resonant Scattering in the Perseus Cluster Core with Hitomi SXS”  
The Hitomi Collaboration, incl. **Miller, J. M.**, et al., 2018, PASJ, 70, 10
307. “Hitomi X-ray Studies of Giant Radio Pulses from the Crab Pulsar”  
The Hitomi Collaboration, incl. **Miller, J. M.**, et al., 2018, PASJ, 70, 15
306. “Radio Emission from the X-ray Pulsar Her X-1: A Jet Launched by a Strong Magnetic Field Neutron Star?”  
Van den Eijnden, et al., incl. **Miller, J. M.**, 2018, MNRAS, 473, L141
305. “Discovery of Radio Emission from the Symbiotic X-ray Binary System GX 1+4”  
van den Eijnden, J., et al., incl. **Miller, J. M.**, 2018, MNRAS, 474, L91
304. “Arcus: Exploring the Formation and Evolution of Clusters, Galaxies, and Stars”  
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