

Dr. Megan Masterson

NHFP Einstein Fellow at Harvard University
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Employment

NASA Hubble Fellowship Program Einstein Fellow, Harvard University	2026–2029
Harvard College Observatory Postdoctoral Fellow, Harvard University	2029–2031

Education

PhD in Physics, Massachusetts Institute of Technology <i>Thesis: A Multi-Wavelength Exploration of Transient Accretion onto Supermassive Black Holes</i> <i>Supervisor: Professor Erin Kara</i>	2020–2026
MASt in Astrophysics, Churchill College, University of Cambridge <i>Thesis: Extended Fe Kα Emission in Nearby AGN Revealed by Multi-Order Chandra HETG Data</i> <i>Supervisor: Professor Chris Reynolds</i>	2019–2020
BS in Astronomy, BS in Mathematics & Physics, Case Western Reserve University <i>Graduated summa cum laude</i>	2015–2019

Awards & Scholarships

Graduate Student Poster Award, 20th HEAD Meeting	2023
Kavli Graduate Fellowship, MIT Kavli Institute for Astrophysics and Space Research	2020–2021
Gates Cambridge Scholarship, MASt in Astrophysics, University of Cambridge	2019–2020
Chambliss Astronomy Achievement Student Award, 233rd AAS Meeting	2019
Jason J. Nassau Prize, Department of Astronomy, Case Western Reserve University <i>To an outstanding senior student in astronomy</i>	2019
Patricia B. Kilpatrick Award, Case Western Reserve University <i>To the four-year varsity athlete with the highest GPA</i>	2019
Richard F. Sigal Award, Department of Physics, Case Western Reserve University <i>For demonstrating excellence in their studies and intending to pursue a career in physics</i>	2018

Publications & Astronomer's Telegrams

ORCID: [0000-0003-4127-0739](https://orcid.org/0000-0003-4127-0739), ADS Library: <https://tinyurl.com/mastersonADS>

9 first (or co-first) author publications, 34 co-author publications, 2 ATels
 h -index = 16, total citations = 850+

First Author Publications

- [9] **Masterson, M.**, Kara, E., et al. 2025, *Persistence of the Millihertz X-ray Quasi-Periodic Oscillation in the Active Galactic Nucleus 1ES 1927+654*, submitted to ApJ. [arXiv:2604.16688](https://arxiv.org/abs/2604.16688)
- [8] Chakraborty*, J., **Masterson***, M., Mummery, A., et al. 2025, *X-ray Spectral-Timing Properties of Tidal Disruption Events*, accepted for publication in ApJ. [arXiv:2602.16868](https://arxiv.org/abs/2602.16868) (*indicates co-first authors)
- [7] **Masterson, M.**, De, K., et al. 2025, *JWST's First View of Tidal Disruption Events: Compact, Accretion-Driven Emission Lines & Strong Silicate Emission in an Infrared-selected Sample*, ApJL, 988, 2, L48. [doi:10.3847/2041-8213/ade153](https://doi.org/10.3847/2041-8213/ade153)
- [6] **Masterson, M.**, Kara, E., et al. 2025, *Millihertz Oscillations Near the Innermost Orbit of a Supermassive Black Hole*, Nature, 638, 370–375. [doi:10.1038/s41586-024-08385-x](https://doi.org/10.1038/s41586-024-08385-x)
- [5] **Masterson, M.**, De, K., et al. 2024, *A New Population of Mid-Infrared-Selected Tidal Disruption Events: Implications for Tidal Disruption Event Rates and Host Galaxy Properties*, ApJ, 961, 211. [doi:10.3847/1538-4357/ad18bb](https://doi.org/10.3847/1538-4357/ad18bb)
- [4] **Masterson, M.**, Kara, E., et al. 2023, *Unusual Hard X-ray Flares Caught in NICER Monitoring of the Binary SMBH Candidate AT2019cuk/Tick Tock/SDSS J1430*, ApJL, 945, L34. [doi:10.3847/2041-8213/acbea9](https://doi.org/10.3847/2041-8213/acbea9)

- [3] **Masterson, M.**, McDonald, M., et al. 2023, *Evidence for AGN-Regulated Cooling in Clusters at $z \sim 1.4$: A Multi-Wavelength View of SPT-CL J0607-4448*, ApJ, 944, 164. [doi:10.3847/1538-4357/acae9e](https://doi.org/10.3847/1538-4357/acae9e)
- [2] **Masterson, M.** & Reynolds, C.S. 2022, *Probing the Extent of Fe K α Emission in Nearby AGN Using Multi-Order Analysis of Chandra High Energy Transmission Grating Data*, ApJ, 936, 66. [doi:10.3847/1538-4357/ac83ae](https://doi.org/10.3847/1538-4357/ac83ae)
- [1] **Masterson, M.**, Kara, E., et al. 2022, *Evolution of a Relativistic Outflow and the X-ray Corona in the Extreme Changing-Look AGN 1ES 1927+654*, ApJ, 934, 35. [doi:10.3847/1538-4357/ac76c0](https://doi.org/10.3847/1538-4357/ac76c0)

Co-Author Publications.....

- [34] Sánchez-Sáez, P., **Masterson, M.**, et al. 2026, *Spatially resolved optical and mid-infrared spectroscopy of SDSS1335+0728: implications for the origin of the Ansky event*, submitted to A&A. [arXiv:2607.00921](https://arxiv.org/abs/2607.00921)
- [33] Sadaula, D. et al. (including **Masterson, M.**) 2026, *The emergence of X-ray emission lines during relativistic radio-jet formation in the changing-look active galactic nucleus 1ES 1927+654*, accepted for publication in ApJ. [arXiv:2607.05246](https://arxiv.org/abs/2607.05246)
- [32] Nair, P., Panagiotou, C., **Masterson, M.**, et al. 2026, *A Suppressed Volumetric Rate of High-luminosity Mid-infrared Selected Tidal Disruption Events*, ApJ, 1007, 1, 40. [doi:10.3847/1538-4357/ae83a1](https://doi.org/10.3847/1538-4357/ae83a1)
- [31] Vega, J. et al. (including **Masterson, M.**) 2026, *Ghosts of eruptions past: Searching for historical Galactic supernovae using variable thermal dust echoes and machine learning*, submitted to ApJ. [arXiv:2604.08686](https://arxiv.org/abs/2604.08686)
- [30] Wang, M. et al. (including **Masterson, M.**) 2026, *Testing the Association of Supermassive Black Hole Infrared Flares and High-energy Neutrinos*, ApJL, 998, 1, L29. [doi:10.3847/2041-8213/ae3f90](https://doi.org/10.3847/2041-8213/ae3f90)
- [29] De, K. et al. (including **Masterson, M.**) 2026, *Fading into darkness: A weak mass ejection and low-efficiency fallback accompanying black hole formation in M31-2014-DS1*, submitted to ApJL. [arXiv:2601.05774](https://arxiv.org/abs/2601.05774)
- [28] Berger, V. et al. (including **Masterson, M.**) 2026, *Disk-to-Corona State Transition and Extreme X-ray Variability in the Tidal Disruption Event AT2019teq*, accepted in ApJ. [arXiv:2601.04311](https://arxiv.org/abs/2601.04311)
- [27] Zaidouni, F. et al. (including **Masterson, M.**) 2026, *XRISM finds the Changing-Look AGN NGC 1365 in an extended low state: A dense, highly ionized outflow obscures the central source*, ApJL, 997, 1, L26. [doi:10.3847/2041-8213/ae307d](https://doi.org/10.3847/2041-8213/ae307d)
- [26] Neights, E. et al. (including **Masterson, M.**) 2026, *GRB 250702B: Discovery of a Gamma-Ray Burst from a Black Hole Falling into a Star*, MNRAS, 545, 2, staf2019. [doi:10.1093/mnras/staf2019](https://doi.org/10.1093/mnras/staf2019)
- [25] Golay, W. et al. (including **Masterson, M.**) 2026, *Radio Emission from the Infrared Tidal Disruption Event WTP14adeqka: The First Directly Resolved Delayed Outflow from a TDE*, ApJ, 1007, 1, 88. [doi:10.3847/1538-4357/ae8536](https://doi.org/10.3847/1538-4357/ae8536)
- [24] Baldini, P. et al. (including **Masterson, M.**) 2025, *A new Bowen Fluorescence Flare and Extreme Coronal Line Emitter discovered by SRG/eROSITA*, A&A, 701, A224. [doi:10.1051/0004-6361/202554812](https://doi.org/10.1051/0004-6361/202554812)
- [23] Arcodia, R. et al. (including **Masterson, M.**) 2025, *SRG/eROSITA No. 5: Discovery of quasi-periodic eruptions every ~ 3.7 days from a galaxy at $z > 0.1$* , ApJ, 989, 1, 13. [doi:10.3847/1538-4357/ade9b](https://doi.org/10.3847/1538-4357/ade9b)
- [22] Grotova, I. et al. (including **Masterson, M.**) 2025, *The population of tidal disruption events discovered with eROSITA*, A&A, 697, A159. [doi:10.1051/0004-6361/202553669](https://doi.org/10.1051/0004-6361/202553669)
- [21] Chakraborty, J. et al. (including **Masterson, M.**) 2025, *Rapidly varying ionization features in a Quasi-periodic Eruption: a homologous expansion model for the spectroscopic evolution*, ApJ, 984, 2, 124. [doi:10.3847/1538-4357/ad972](https://doi.org/10.3847/1538-4357/ad972)
- [20] Chakraborty, J. et al. (including **Masterson, M.**) 2025, *Discovery of Quasi-periodic Eruptions in the Tidal Disruption Event and Extreme Coronal Line Emitter AT2022upj: implications for the QPE/TDE fraction and a connection to ECEs*, ApJL, 983, 2, L39. [doi:10.3847/2041-8213/adc2f8](https://doi.org/10.3847/2041-8213/adc2f8)
- [19] Yao, Y. et al. (including **Masterson, M.**) 2025, *Distinguishing Tidal Disruption Events and Changing-look Active Galactic Nuclei via Variation of Mid-infrared Color*, ApJS, 281, 1, 7. [doi:10.3847/1538-4365/ae047a](https://doi.org/10.3847/1538-4365/ae047a)
- [18] Earl, N. et al. (including **Masterson, M.**) 2025, *AT 2020nov: Evidence for Disk Reprocessing in a Rare Tidal Disruption Event*, ApJ, 983, 1, 28. [doi:10.3847/1538-4357/ad974](https://doi.org/10.3847/1538-4357/ad974)
- [17] Rani, B. et al. (including **Masterson, M.**) 2025, *High-Frequency Power Spectrum of AGN NGC 4051 Revealed by NICER*, ApJL, 981, 1, L18. [doi:10.3847/2041-8213/adace8](https://doi.org/10.3847/2041-8213/adace8)

- [16] Grotova, I. et al. (including **Masterson, M.**) 2025, *eRO-ExTra: eROSITA extragalactic non-AGN X-ray transients and variables in eRASS1 and eRASS2*, A&A, 693, A62. [doi:10.1051/0004-6361/202451253](https://doi.org/10.1051/0004-6361/202451253)
- [15] Laha, S. et al. (including **Masterson, M.**) 2025, *Multi-wavelength observations of a jet launch in real time from the post-changing-look Active Galaxy 1ES 1927+654*, ApJ, 981, 2, 125. [doi:10.3847/1538-4357/adaea0](https://doi.org/10.3847/1538-4357/adaea0)
- [14] Meyer, E. et al. (including **Masterson, M.**) 2025, *Emergence of a radio jet in the changing-look AGN 1ES 1927+654*, ApJL, 979, 1, L2. [doi:10.3847/2041-8213/ad8651](https://doi.org/10.3847/2041-8213/ad8651)
- [13] García, J. et al. (including **Masterson, M.**) 2024, *The high energy X-ray probe (HEX-P): science overview*, FrASS, 11, 1471585. [doi:10.3389/fspas.2024.1471585](https://doi.org/10.3389/fspas.2024.1471585)
- [12] De, K. et al. (including **Masterson, M.**) 2024, *The disappearance of a massive star marking the birth of a black hole in M31*, accepted for publication in Science, [arXiv:2410.14778](https://arxiv.org/abs/2410.14778)
- [11] Li, R. et al. (including **Masterson, M.**) 2024, *The Interplay between the Disk and Corona of the Changing-look Active Galactic Nucleus 1ES 1927+654*, ApJ, 975, 140. [doi:10.3847/1538-4357/ad7aed](https://doi.org/10.3847/1538-4357/ad7aed)
- [10] Zhang, Z. et al. (including **Masterson, M.**) 2024, *Modeling X-Ray Multi-Reflection in Super-Eddington Winds*, ApJ, 977, 2, 157. [doi:10.3847/1538-4357/ad86c0](https://doi.org/10.3847/1538-4357/ad86c0)
- [9] Myers, C. et al. (including **Masterson, M.**) 2024, *WTP19aalnxx: Discovery of a bright mid-infrared transient in the emerging class of low luminosity supernovae revealed by delayed circumstellar interaction*, ApJ, 976, 230. [doi:10.3847/1538-4357/ad8922](https://doi.org/10.3847/1538-4357/ad8922)
- [8] Pasham, D. et al. (including **Masterson, M.**) 2024, *A Case for a Binary Black Hole System Revealed via Quasi-Periodic Outflows*, Science Advances, 10, 13. [doi:10.1126/sciadv.adj8898](https://doi.org/10.1126/sciadv.adj8898)
- [7] Wang, Y. et al. (including **Masterson, M.**) 2024, *Rapid dimming followed by a state transition: a study of the highly variable nuclear transient AT 2019avd over 1000+ days*, ApJ, 962, 78. [doi:10.3847/1538-4357/ad182b](https://doi.org/10.3847/1538-4357/ad182b)
- [6] Kammoun, E., Lohfink, A. M., **Masterson, M.**, et al. 2024, *The High Energy X-ray Probe (HEX-P): Probing the physics of the X-ray corona in active galactic nuclei*, FrASS, 10, 1308056. [doi:10.3389/fspas.2023.1308056](https://doi.org/10.3389/fspas.2023.1308056)
- [5] Brightman, M. et al. (including **Masterson, M.**) 2024, *The High Energy X-ray Probe (HEX-P): Sensitive broadband X-ray observations of transient phenomena in the 2030s*, FrASS, 10, 1292656. [doi:10.3389/fspas.2023.1292656](https://doi.org/10.3389/fspas.2023.1292656)
- [4] Panagiotou, C., De, K., **Masterson, M.**, et al. 2023, *A Luminous Dust-Obscured Tidal Disruption Event Candidate in a Star Forming Galaxy at 42 Mpc*, ApJL, 948, L5. [doi:10.3847/2041-8213/acc02f](https://doi.org/10.3847/2041-8213/acc02f)
- [3] Kara, E. et al. (including **Masterson, M.**) 2023, *UV/Optical disk reverberation lags despite a faint X-ray corona in the AGN Mrk 335*, ApJ, 947, 62. [doi:10.3847/1538-4357/acbcd3](https://doi.org/10.3847/1538-4357/acbcd3)
- [2] Xu, Y. et al. (including **Masterson, M.**) 2022, *Ejection-Accretion Connection in NLS1 AGN 1H 1934-063*, MNRAS, 513, 1910. [doi:10.1093/mnras/stac1058](https://doi.org/10.1093/mnras/stac1058)
- [1] Chakraborty, J., Kara, E., **Masterson, M.**, et al. 2021, *Possible X-ray Quasi-Periodic Eruptions in a Tidal Disruption Event Candidate*, ApJL, 921, L40, ApJL, 921, L40, [doi:10.3847/2041-8213/ac313b](https://doi.org/10.3847/2041-8213/ac313b)

ATels.....

- [2] Hamada, R., et al. (including **M. Masterson**) 2024, *PRIME discovery of a heavily reddened classical nova PRIME24aadwvh at the Galactic center*, [ATel#16824](https://arxiv.org/abs/2408.16824)
- [1] Pasham, D., et al. (including **M. Masterson**) 2022, *AT2019cuk/SDSSJ1430/ZTF18aarippg: High-cadence NICER and NuSTAR X-ray observations of the potential supermassive black hole binary with imminent merger (the tick-tock source)*, [ATel#15225](https://arxiv.org/abs/2208.15225)

Accepted Observing Proposals (as PI in bold)

Total grant money obtained as PI: \$341.4k

Swift (AO22) , 52 ks, \$40k, The QPO-Corona Connection in the Enigmatic AGN 1ES 1927+654	2025
Swift (AO22) , 116 targets, 232 ks, fill-in proposal, A Late-Time X-ray View of Mid-IR TDE Candidates	2025
XMM-Newton (AO25) , 82 ks, \$85.5k, Probing the Origin of the mHz X-ray QPO in 1ES 1927+654	2025
JWST (AO4) , co-PI, 3.6 hours, \$80k, Mid-IR overview of turn-on AGN and X-ray QPE SDSS1335+0728	2025
NICER (AO7) , 104 ks, \$38.5k, X-ray QPOs and the corona-jet connection in 1ES 1927+654	2024
Swift (AO21) , 116 targets, 232 ks, fill-in proposal, A Late-Time X-ray View of Mid-IR TDE Candidates	2024

XMM-Newton (AO24) , 30 ks, Constraining the Central Engine & Dust Geometry in Mid-IR TDEs	2024
IRTF (2024B) , 16.5 hours, SpeX Spectroscopy of eROSITA-detected Mid-IR Nuclear Flares	2024
IRTF (2024A) , 22.5 hours, SpeX spectroscopy of luminous IR echoes of extreme accretion phenomena	2024
XMM-Newton (AO23) , 5 × 30 ks, Late-Time X-ray Emission in Mid-IR TDEs	2023
JWST (AO2) , 19 hours, A Population of Hidden TDEs with JWST	2023
NICER (AO5) , 52 ks (NICER), 26 ks (Swift), \$43k, Post-Outburst State of 1ES 1927+654	2022
XMM-Newton (AO21) , 70 ks (XMM-Newton & NuSTAR), \$54.4k, Post-Outburst State of 1ES 1927+654	2021
XMM-Newton DDT Observations , Total of 315 ks over 11 observations	2024–
Swift ToO Observations , Total of 77 ks over 18 observations	2021–2026
NICER ToO Observations , Total of 19 ks over 4 observations	2021–2025
Magellan (MIT Internal Review) , Total of 12 nights over 5 semesters	2023–2025

Ground-Based Observing

Magellan Clay/LDSS3, 8 nights, In person & remote	2023-2024
IRTF/SpeX, 12 nights, Remote	2023-2025
Magellan Baade/FIRE, 4 nights, In person & remote	2023-2025
Magellan Baade/IMACS, 3 nights, Remote	2024
Magellan Baade/MagE, 1 night, Remote	2023
1m class telescopes, > 10 nights, In person	2022-2024

Talks & Presentations

Summary: 28 talks (20 invited, 8 contributed)

Invited Talks	
High Energy Astrophysical Transients (HEAT) Seminar, University of Maryland, College Park, MD	2026
CIERA Observer Group Meeting, Northwestern University, Evanston, IL	2026
Carnegie Lunch Seminar, Carnegie Observatories, Pasadena, CA	2025
KIPAC Tea Talk, Stanford Kavli Institute for Particle Astrophysics and Cosmology (KIPAC), Virtual	2025
MPE High-Energy Seminar, Max Planck Institute for Extraterrestrial Physics (MPE), Virtual	2025
Theoretical Astrophysics Center (TAC) Seminar, University of California at Berkeley, Berkeley, CA	2025
Friday Lunch Seminar, University of Colorado at Boulder, Boulder, CO	2025
Institute for Fundamental Sciences Seminar, University of Oregon, Eugene, OR	2025
X-ray Quasi-Periodic Eruptions and Repeating Nuclear Transients, ESAC, Madrid, Spain	2025
AXIS TDAMM Science Working Group Community Day, Virtual	2025
UMBRELA Dialogues, Center for Astrophysics, Cambridge, MA	2025
IASF Seminar, INAF/IASF-Palermo, Virtual	2024
Tidal Disruption Events and Nuclear Transients: Entering the Data-Rich Era, Crete, Greece	2024
Towards a Physical Understanding of Tidal Disruption Events, UCSB KITP Workshop, Santa Barbara, CA	2024
21st HEAD Meeting TDE Special Session, Horseshoe Bay, TX	2024
Boston Area Black hole Accretion Meeting (BABAM), Center for Astrophysics, Cambridge, MA	2023
AAS HEAD Frontiers Seminar, Virtual	2023
Astro Seminar, Tufts University, Department of Physics & Astronomy, Somerville, MA	2023
CfA Seminar, Center for Astrophysics, Cambridge, MA	2023
Extreme Astrophysics Seminar, University of Michigan, Department of Astronomy, Virtual	2022

Contributed Talks	
Caltech Seminar, Caltech, Pasadena, CA	2025
Transients from Space, Space Telescope Science Institute, Baltimore, MD	2025
245th AAS Meeting, National Harbor, MD	2025
Anticipating the Rising Tide of Tidal Disruption Events, UCSB KITP Conference, Santa Barbara, CA	2024
Black holes Across Space and Time (BLAST) Workshop, Virtual	2022
COSPAR 2022, 44th Scientific Assembly, Virtual	2022
XMM-Newton Workshop: Black Hole Accretion Under the X-ray Microscope, ESAC, Madrid, Spain	2022
19th HEAD Meeting, Pittsburgh, PA	2022

Contributed Posters	
20th HEAD Meeting, Waikaloa, HI	2023
<i>Awarded Graduate Student Poster Award</i>	
233rd AAS Meeting, Seattle, WA	2019
<i>Awarded Chambliss Undergraduate Student Prize</i>	

Research Supervision

Bernard Leal, MIT MSRP Undergraduate Student (co-supervised with Joheen Charkraborty)	2025
Multi-Wavelength Analysis of the Changing-Look AGN RHS 10	
Taisiia Karasova, MIT Undergraduate Research Student	2024–2025
Host Galaxy Properties of a New Population of Infrared-Selected Tidal Disruption Events	
Kylee Carden, MIT Undergraduate Research Student (co-supervised with Erin Kara)	2022–2023
Probing the Circumnuclear Environment and Ionized Wind in the Changing-Look AGN NGC 1365 with Chandra HETG	
<i>Currently an Astrophysics PhD student at Ohio State</i>	
Isabella Guilherme, MIT MSRP Undergraduate Student (co-supervised with Erin Kara)	2021–2022
Investigating the Late-Time X-ray Emission in the Tidal Disruption Event AT2019azh	
<i>Currently a Physics PhD student at Caltech</i>	

Teaching

Subject Design Teaching Certificate, MIT's Teaching + Learning Lab	Spring 2026
<i>Program that taught how to design a college-level course and culminated in the creation of a learner-centered syllabus</i>	
Mentor, 8.02 (Introductory Electricity and Magnetism)	Spring 2025
<i>Mentored 2 students, assisting with problem sets, exam preparation, and time management skills</i>	
TA for 12.411 (Astronomy Field Camp), senior undergraduate course at MIT	Jan. 2024
<i>Assisted with observations for three weeks at Teide Observatory in Tenerife, Spain</i>	
TA for 12.411 (Astronomy Field Camp), senior undergraduate course at MIT	Jan. 2023
<i>Assisted with observations for three weeks at Teide Observatory in Tenerife, Spain</i>	
Mentor, MIT Physics Directed Reading Program	Jan. 2023
<i>Supervised student in 3 week project learning the basics of black hole accretion physics</i>	
TA for 8.287 (Observational Techniques in Optical Astronomy), senior undergraduate course at MIT	Fall 2022
<i>Supervised weekly observing, assisted with data reduction and analysis, gave a specialty lecture on X-ray astronomy</i>	
Student Evaluation Score: 6.8/7	
Teacher for Educational Studies Program, MIT	2021
<i>Designed and taught two classes on black holes, designed for middle school and high school students</i>	

Professional Service

Departmental Service	
Chair, Graduate Student Search Committee, MIT Kavli Institute Faculty Hiring Committee	2025
Graduate Student Representative, MIT Kavli Institute Public Engagement Officer Hiring Committee	2024

Collaborations & Working Groups	
Community Member, LISA Consortium	2025–
Member, LSST Transients and Variable Stars Collaboration, TDE Working Group	2025–
Member, Roman Science Collaboration, Explosive Transients Science Group	2025–
Member, HEX-P Coronal Physics Working Group	2023–2024
Graduate Student Member, NICER Observatory Science Working Group	2021–2025
Peer Review	
Referee, <i>Astrophysical Journal</i> , <i>Astrophysical Journal Letters</i>	2023–
Conference Organization	
SOC Member, 25th Anniversary of XMM-Newton, Baltimore, MD	2025
Selected Press Coverage	
Star-Shredding Black Holes Hiding in Dusty Galaxies, Masterson et al., <i>ApJL</i> Covered by MIT News , Columbia News , Science News , CBS Eyes on the World Podcast	2025
Millihertz Oscillations Near the Innermost Orbit of a Supermassive Black Hole, Masterson et al., <i>Nature</i> Featured in a press conference at the 245th AAS Meeting in January 2025 – watch here! Covered by NASA , ESA , MIT News , Scientific American , USA Today , Reuters , Smithsonian Magazine , Swedish National TV +	2025
A New Population of Mid-Infrared-Selected Tidal Disruption Events, Masterson et al., <i>ApJ</i> Covered by MIT News , the Boston Globe , Newsweek , AAS Nova , +	2024
Advocacy & Outreach	
Advocacy	
Grads Advising Grad Admissions Committee Member, MIT Physics Graduate Student Council Co-lead of organization during 2024-2025 academic year	2022–
Mentor, MIT Physics Graduate Application Assistance Program	2021–
Advocacy Board Member, MIT Physics Graduate Student Council	2021–2022
Mentor, MIT Graduate & Undergraduate Womxn in Physics	2021–2024
Outreach	
Invited Talk, MIT List Visual Arts Center Watch here: https://listart.mit.edu/calendar/graduate-student-talk-megan-masterson	April 2025
Graduate Student Writer, Astrobites Find my articles here: https://astrobites.org/author/mmasterson/	2023–2025
Event Organizer, Boston Astronomy on Tap	2023–2024
Member, MIT Sidewalk Astrogazers Co-lead of organization during 2023-2024 academic year	2021–
Logistics Officer, Cambridge University Girls in STEM	2019–2020
Institute of Astronomy Open Evenings Volunteer, University of Cambridge	2019–2020
Public Outreach Volunteer, Astrophysics Research Lab at the NC Museum of Natural Sciences	2017, 2019