

Anna Y. Q. Ho

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Dept. of Astronomy, Cornell University
Ithaca NY 14850

Email: annayqho@cornell.edu
Homepage: annayqho.github.io

PRIMARY RESEARCH INTERESTS

Stellar death (supernovae, gamma-ray bursts), transients, time-domain astronomy, high-energy astrophysics, radio and sub-millimeter observations, large surveys

EDUCATION & APPOINTMENTS

2022–Present	Assistant Professor, Astronomy Department, Cornell
2020–2022	Miller Postdoctoral Fellow, Astronomy Department, U.C. Berkeley
2020–2022	Affiliate, Lawrence Berkeley National Laboratory
2020	Ph.D., California Institute of Technology, Astrophysics <ul style="list-style-type: none">• Thesis: <i>The Landscape of Relativistic Stellar Explosions</i>• Advisor: Shri Kulkarni
2017	M.S., California Institute of Technology, Astrophysics
2014–2015	Fulbright Scholar, Max Planck Institute for Astronomy, Heidelberg, Germany <ul style="list-style-type: none">• Host: Hans-Walter Rix
2014	B.S., Massachusetts Institute of Technology, Physics

AWARDS & HONORS

2024	Packard Fellowship for Science and Engineering <i>Awarded annually to 20 early-career scientists and engineers in the U.S.</i>
2024	Scialog Fellow, Research Corporation for Science Advancement: <i>Early Science with the LSST</i>
2024	Alfred P. Sloan Research Fellow in Physics <i>Annual award for early career researchers in recognition of distinguished performance and a unique potential to make substantial contributions to their field.</i>
2021	Springer Thesis Prize, <i>In recognition of outstanding Ph.D. research in the physical sciences.</i>
2020	AAS Rodger Doxsey Travel Prize
2014–9	National Science Foundation Graduate Research Fellowship
2019	Keck Institute for Space Studies Affiliate
2017	TA Award, Caltech, <i>For being one of the highest rated TAs for the Spring 2017 term.</i>
2017	France Cordova Graduate Fellowship—Gordon Garmire Scholarship, Caltech <i>Annual award for an outstanding graduate student in Physics, Math, and Astronomy.</i>
2014	MIT Karl Taylor Compton Prize <i>The highest awards presented by the Institute to students...in recognition of excellent achievements in citizenship and devotion to the welfare of MIT.</i>
2014	MIT Ida M. Green Fellowship (declined), <i>For the MIT Graduate Program in Science Writing</i>
2013	First Place, MIT DeWitt Wallace Prize for Science Writing for the Public
2012	MIT Burchard Scholar

SELECTED PUBLICITY

2024	MIT News, Alum first spots cosmic explosion
2024	Cornell Chronicle, Cornell astronomers on newly approved UVEX NASA mission
2024	National Geographic, What is causing these massive, mysterious explosions in space?
2023	Nature News, Mysterious Tasmanian devil space explosion baffles astronomers

- 2023 CNN, *Stellar corpse called ‘Tasmanian devil’ reveals phenomenon astronomers have never seen*
- 2023 Cornell Chronicle, *NASA selects Cornell astronomer for ULTRASAT observatory*
- 2023 The New York Times, *A Cow, a Camel and a Finch Exploded in Space. What Is Going On?*
- 2021 Quanta, *New Kind of Space Explosion Reveals the Birth of a Black Hole*
- 2020 Wrote the Scientific American cover article, *Extreme Supernovae*
- 2020 Science News, *A weird cosmic flare called the Cow now has company*
- 2020 Science Daily, *Astronomers discover new class of cosmic explosions*
- 2020 Sky & Telescope, *Two New Beasts for an Explosive Zoo*
- 2019 Wrote article for the Submillimeter Array Newsletter, *SMA Observations of AT2018cow: A Prototype for Millimeter Time-domain Astronomy*
- 2019 Science News, *The cosmic Cow may be a strange supernova*
- 2019 The Washington Post, *Scientists had never seen anything like this supernova*
- 2019 WIRED, *We may have finally spotted a star turning into a black hole*
- 2018 Nature News, *Holy Cow! Astronomers agog at mysterious new supernova*

PUBLICATIONS

h-index: first author 12; total 39

Total # publications: 81

[†]Projects for which I played a significant mentoring or advising role.

First or Second Author

- [1] Ho, A. Y. Q. et al. 2025, *A Luminous Red Optical Flare and Hard X-ray Emission in the Tidal Disruption Event AT2024kmg*, submitted to ApJ ([arXiv:2502.07885](#))
- [2] [†]Li, M. L., Ho, A. Y. Q. et al. 2025, *The Nature of Optical Afterglows Without Gamma-ray Bursts: Identification of AT2023lcr and Multiwavelength Modeling*, submitted to ApJ ([arXiv:2411.07973](#))
- [3] Perley, D. A., Ho, A. Y. Q. et al. 2025, *AT2019pim: A Luminous Orphan Afterglow from a Moderately Relativistic Outflow*, accepted for publication in MNRAS ([arXiv:2401.16470](#))
- [4] Ho, A. Y. Q. et al. 2023, *Minutes-duration Optical Flares with Supernova Luminosities*, Nature, **623**, 927 ([arXiv:2311.10195](#))
- [5] Corsi, A., Ho, A. Y. Q. et al. 2023, *A search for relativistic ejecta in a sample of ZTF broad-lined Type Ic supernovae*, ApJ, **953**, 179 ([arXiv:2210.09536](#))
- [6] Ho, A. Y. Q. et al. 2023, *A Search for Extragalactic Fast Blue Optical Transients in ZTF and the Rate of AT2018cow-like Transients*, ApJ, **949**, 120 ([arXiv:2105.08811](#))
- [7] Ho, A. Y. Q. et al. 2022, *Cosmological Fast Optical Transients with the Zwicky Transient Facility: A Search for Dirty Fireballs*, ApJ, **938**, 85 ([arXiv:2201.12366](#))
- [8] [†]Yao, Y., Ho, A. Y. Q., et al. 2022, *The X-ray and Radio Loud Fast Blue Optical Transient AT2020mrf: Implications for an Emerging Class of Engine-Driven Massive Star Explosions*, ApJ, **934**, 104 ([arXiv:2112.00751](#))
- [9] Ho, A. Y. Q. et al. 2022, *Luminous Millimeter, Radio, and X-ray Emission from ZTF20acigmel (AT2020xnd)*, ApJ, **932**, 116 ([arXiv:2110.05490](#))
- [10] Perley, D. A., Ho, A. Y. Q. et al. 2021, *Real-time discovery of AT2020xnd: a fast, luminous ultraviolet transient with minimal radioactive ejecta*, MNRAS, **508**, 5138 ([arXiv:2103.01968](#))
- [11] Ho, A. Y. Q. et al. 2020, *ZTF20aaajnksq (AT2020blt): A Fast Optical Transient at $z \approx 2.9$ With No Detected Gamma-Ray Burst Counterpart*, ApJ, **905**, 98 ([arXiv:2006.10761](#))
- [12] Ho, A. Y. Q. et al. 2020, *SN2020bvc: a Broad-lined Type Ic Supernova with a Double-peaked Optical Light Curve and a Luminous X-ray and Radio Counterpart*, ApJ, **902**, 86 ([arXiv:2004.10406](#))

- [13] Duffell, P. C. & **Ho, A. Y. Q.** 2020, *How Dense a CSM is Sufficient to Choke a Jet?*, ApJ, **900**, 193
- [14] **Ho, A. Y. Q.** et al. 2020, *The Koala: A Fast Blue Optical Transient with Luminous Radio Emission from a Starburst Dwarf Galaxy at $z = 0.27$* , ApJ, **895**, 1 ([arXiv:2003.01222](#))
- [15] **Ho, A. Y. Q.** et al. 2020, *The Broad-lined Ic Supernova ZTF18aagjovh (SN 2018bvw): An Optically-discovered Engine-driven Supernova Candidate with Luminous Radio Emission*, ApJ, **893**, 132 ([arXiv:1912.10354](#))
- [16] **Ho, A. Y. Q.** et al. 2019, *Evidence for Late-stage Eruptive Mass-loss in the Progenitor to SN2018gep, a Broad-lined Ic Supernova: Pre-explosion Emission and a Rapidly Rising Luminous Transient*, ApJ, **887**, 169H ([arXiv:1904.11009](#))
- [17] Casey, A.R., **Ho, A. Y. Q.**, et al. 2019, *Tidal interactions between binary stars drives lithium production in low-mass red giants*, ApJ, **880**, 125 ([arXiv:1902.04102](#))
- [18] **Ho, A. Y. Q.** et al. 2019, *AT2018cow: a luminous millimeter transient*, ApJ, **871**, 73 ([arXiv:1810.10880](#))
- [19] **Ho, A. Y. Q.** et al. 2018, *iPTF Archival Search for Fast Optical Transients*, ApJL, **854**, 13 ([arXiv:1712.00949](#))
- [20] **Ho, A. Y. Q.** et al. 2017, *Masses and Ages for 230,000 LAMOST Giants, via Their Carbon and Nitrogen Abundances*, ApJ, **841**, 40 ([arXiv:1609.03195](#))
- [21] **Ho, A. Y. Q.** et al. 2017, *Label Transfer from APOGEE to LAMOST: Precise Stellar Parameters for 450,000 LAMOST Giants*, ApJ, **836**, 5 ([arXiv:1602.00303](#))

Selected Co-author

- [1] [†]Srinivasaragavan, G. P., Perley, D. A., **Ho, A. Y. Q.** et al. 2025, *Multi-Wavelength Analysis of AT 2023sva: a Luminous Orphan Afterglow With Evidence for a Structured Jet*, accepted for publication in MNRAS ([arXiv:2501.03337](#))
- [2] Fryer, C. L., Burns, E., **Ho, A. Y. Q.** et al. 2024, *Explaining Non-Merger Gamma-Ray Bursts and Broad-Lined Supernovae with Close Binary Progenitors with Black Hole Central Engine*, submitted to ApJ ([arXiv:2410.10378](#))
- [3] Soumagnac, M. T., Nugent, P., Knop, R. A., **Ho, A. Y. Q.** et al. 2024, *The MOST Hosts Survey: spectroscopic observation of the host galaxies of $\sim 40,000$ transients using DESI*, ApJS, **275**, 22 ([arXiv:2405.03857](#))
- [4] [†]Srinivasaragavan, G. et al. 2024, *Optical and Radio Analysis of Systemically Classified Broad-lined Type Ic Supernovae from the Zwicky Transient Facility*, ApJ, **976**, 71 ([arXiv:2408.14586](#))
- [5] Hervías-Caimapo et al. 2024, *The Atacama Cosmology Telescope: Flux Upper Limits from a Targeted Search for Extragalactic Transients*, MNRAS, **529**, 3 ([arXiv:2301.07651](#))
- [6] Berger, E. et al. 2023, *Millimeter Observations of the Type II SN 2023ixf: Constraints on the Proximate Circumstellar Medium*, ApJL, 951, L31 ([arXiv:2306.09311](#))
- [7] Vink, J., Thomas, B. P., Wheeler, J. C., **Ho, A. Y. Q.** et al. 2023, *Searching for Supernovae in HETDEX Data Release 3*, ApJ, **946**, 31V ([arXiv:2212.08444](#))
- [8] Andreoni, I. et al. 2022, *A very luminous jet from the disruption of a star by a massive black hole*, Nature, **612**, 7940 ([arXiv:2211.16530](#))
- [9] Martsen, A. R. et al. 2022, *Radio Pulse Profiles and Polarization of the Terzan 5 Pulsars*, ApJ, **941**, 22 ([arXiv:2204.06158](#))

- [10] [†]Yurk, N., Ravi, V., & **Ho, A. Y. Q.** 2022, *Models of Millimeter and Radio Emission from Interacting Supernovae*, ApJ, **934**, 5 ([arXiv:2206.03518](#))
- [11] Margalit, B., Quataert, E., & **Ho, A. Y. Q.** 2022, *Optical to X-Ray Signatures of Dense Circumstellar Interaction in Core-collapse Supernovae*, ApJ, **928**, 122 ([arXiv:2109.09746](#))
- [12] Dong, D. Z., et al. 2021, *A transient radio source consistent with a merger-triggered core collapse supernova*, Science, 373, 1125 ([arXiv:2109.01752](#))
- [13] Andreoni, I., et al. 2021, *Fast-transient Searches in Real Time with ZTFReST: Identification of Three Optically Discovered Gamma-Ray Burst Afterglows and New Constraints on the Kilonova Rate*, ApJ, 918, 63 ([arXiv:2104.06352](#))
- [14] De, K., et al. 2020, *The Zwicky Transient Facility Census of the Local Universe I: Systematic search for Calcium rich gap transients reveal three related spectroscopic sub-classes*, ApJ, **905**, 58 ([arXiv:2004.09029](#))
- [15] Perley, D. A., et al. 2020, ApJ, *The Zwicky Transient Facility Bright Transient Survey. II. A Public Statistical Sample for Exploring Supernova Demographics*, ApJ, **904**, 35 ([arXiv:2009.01242](#))
- [16] Szkody, P., Diczynski, B., **Ho, A. Y. Q.**, et al. 2020, *Cataclysmic Variables from the First Year of the Zwicky Transient Facility*, AJ, **159**, 198 ([arXiv:2002.08447](#))
- [17] Graham, M. J. et al. 2019, *The Zwicky Transient Facility: Science Objectives*, PASP, 131, 078001 ([arXiv:1902.01945](#))
- [18] Bellm, E. C. et al. 2019, *The Zwicky Transient Facility: System Overview, Performance, and First Results*, PASP, 131, 018002 ([arXiv:1902.01932](#))
- [19] Ness, M., et al. 2015, *The Cannon: A data-driven approach to stellar label determination*, ApJ, **808**, 16 ([arXiv:1501.07604](#))

White Papers, Science Books

- [1] [The Simons Observatory: Science Goals and Forecasts for the Enhanced Large Aperture Telescope](#) (Time-domain Section)
- [2] Burns, E. et al. 2025, *Multidisciplinary Science in the Multimessenger Era* ([arXiv:2502.03577](#)) (FBOT Section)
- [3] [Gamma-ray Transient Network Science Analysis Group Report](#) (Dirty Fireballs, FBOTs)
- [4] CfA Decadal White Paper, *Time-domain Astrophysics with the Submillimeter Array*
- [5] [PRIMA General Observer Science Book](#) (Relativistic Stellar Explosions)

FUNDING

2025–2026	Research Corporation for Science Advancement Scialog Award (\$60,000)
2024–2029	Packard Fellowship for Science and Engineering (\$875,000)
2024	PCCW Frank H.T. Rhodes Leadership Grant and Mission Grant (\$5,000)
2024–2026	HST Cycles 31 & 32 (\$37,593)
2024–2026	Sloan Fellowship (\$75,000)
2023–2026	NASA Ultraviolet Transient Astronomy Satellite Participating Scientists Program (PI; \$210,000)
2023–2024	NASA <i>Swift</i> Cycle 19 (PI; \$36,000)
2023	Cornell Roger and Mary Lou West Undergraduate Research Fellowship (for undergraduate mentee Maggie Li; \$6,500)

PRINCIPAL INVESTIGATOR TELESCOPE PROPOSALS

Millimeter	29 proposals: 13 SMA (453 hr), 11 NOEMA (149.1 hr), 7 ALMA (22.4 hr; 2 joint VLA) <ul style="list-style-type: none">• SMA Regular: ten (18B, 19A&B, 20A&B, 21A&B, 22A&B, 24B), 47 tracks (≈ 237 hrs)• SMA DDT: three ($2\times 18A$, 21B), 36 tracks (≈ 216 hrs)• NOEMA Regular: nine (19B, 20B, 21A&B, 22B, 23A, 23B, $2\times 24B$), 123.1 hrs• NOEMA DDT: two ($2\times 20A$), 12.0 hrs• ALMA Regular: one (Cycle 7), 9.7 hr; two (Cycle 10, 11), $6.9\text{ hr}\times 2$ through joint VLA• ALMA DDT: four (Cycles 5 & 9×3), 2.6 hr, 5.6 hr, 2.4 hr, 2.4 hr
Radio	25 proposals: 21 VLA (255 hr), 2 VLBA (48 hr), 1 GMRT (3 hr), 1 ATCA (40 hr) <ul style="list-style-type: none">• VLA Regular: 13 (13A, 19A, $2\times 20A$, 20B, 21A, 21B, 22B, 23A, 23B, $2\times 25A$) totaling 230.74 hrs• VLA DDT: 8 (17A, 17B, 19B, $23A\times 3$, $24A\times 2$) totaling 24 hrs• VLBA DDT: 2 (18A, 20A) totaling 48 hrs• GMRT DDT: 1 (Cycle 36), totaling 3 hrs
UV/Optical	9 proposals: 1 HST (6 orb.), 7 Gemini (39.6 hrs), 2 P60 (11.95 hrs), 1 P48 (3 nights) <ul style="list-style-type: none">• HST: 6 orbits (Cycle 32 DDT)• Gemini: 7 (21A, 22A, 22B, 24A, 24B, $25A\times 2$), 26.8 hr GMOS-S & 12.8 hr GMOS-N• Palomar 60-inch (P60): two (2019, 2020), totaling 11.95 hrs• P48: 3-night high-cadence observations of ULTRASAT high-cadence field
X-ray	<i>Swift</i> GI proposal (Cycle 19, 42 ks) 55 <i>Swift</i> ToO observations (each 3–5 ks; total ≈ 200 ks) 3 <i>Chandra</i> DDT proposals (Cycle 21, 22, 23) totaling 80 ksec

LEADERSHIP & PROFESSIONAL SERVICE

Scientific leadership and membership roles; WG=Working Group

2024–Present	BlackCAT X-ray CubeSat (Science Team Member)
2024–Present	Africa Millimetre Telescope (Science Team Member)
2024–Present	South Pole Telescope (Provisional Senior Member)
2023–Present	Ultraviolet Transient Astronomy Satellite (ULTRASAT; Participating Scientist) <ul style="list-style-type: none">• (2023–Present) Co-chair, Gamma-ray Bursts (GRB) WG
2023–Present	Atacama Cosmology Telescope (Senior Member)
2023–Present	Simons Observatory (Senior Member)
2022–Present	CCAT Observatory <ul style="list-style-type: none">• (2022–Present) Co-lead, Time-domain Astrophysics WG
2022–Present	CMB-S4 (Senior Member) <ul style="list-style-type: none">• (2021–2023) Co-chair, Sources & Transients WG
2021–Present	UltraViolet EXplorer (UVEX) Mission (Co-I). <i>NASA MIDEX: launch 2030</i>
2018–Present	Zwicky Transient Facility (ZTF; Member) <ul style="list-style-type: none">• (2025–Present) Co-chair, Supernova & Relativistic Explosions WG

Invited positions for service external to Cornell

2025	NSF Review Panel
2025	Internal Reviewer, Simons Observatory time-resolved pipeline
2025	External Examiner, Viva at University College Dublin
2023–Present	Member, ZTF Publication Board
2023–Present	Member, ZTF Science Steering Committee

2022–Present	Member, Science Advisory Council, DSA-2000
2019–Present	Referee/reviewer for ApJ, ApJL, MNRAS, Nature Astronomy, A&A
2023–2024	Member, SOC, Workshop on Fast Extragalactic Transients, Bormio, Italy
2023	Review Panelist, NASA ROSES Program
2023	Reviewer, James Webb Space Telescope DD proposal
2023	Reviewer, Hubble Space Telescope DD proposal
2023	Member, SOC, CMB-S4 Collaboration Meeting
2022–2023	Member, Science Organizing Committee, “Scientific Frontiers and Synergies for the DSA-2000 Radio Camera” Conference
2022	Member, Miller Annual Symposium Organizing Committee
2022	Member, SOC, CMB-S4 Collaboration Meeting
2022	Member, SOC, Workshop on “Astrophysics with the CMB-S4 Survey”

Other external service

2021–2022	Co-organizer, Theoretical Astrophysics Center Seminar Series, UC Berkeley
2021–2022	Organizer, Explosive Astronomy Seminar Series, UC Berkeley
2021	Co-organizer, Session on Transients with CMB-S4, CMB-S4 Summer Workshop
2021	Reviewer, NASA FINESST Program
2021	Time Allocation Committee: Gemini, Chandra
2021	Peer Reviewer, ALMA proposals
2021	Co-organizer, Cal-URSA Research Program
2021	Organizer, Workshop on Status of Millimeter-Transient Searches (virtual)

TEACHING: CLASSROOM & WORKSHOPS

Spring 2025	ASTRO 4432/6530: Astrophysical Processes (joint undergraduate+graduate course) <ul style="list-style-type: none"> • 18 students.
Fall 2024	ASTRO 2211: Stars, Galaxies, and Cosmology (undergraduate course) <ul style="list-style-type: none"> • 34 students. Course rating: 4.52/5. Instructor rating: 4.72/5
Spring 2024	ASTRO 6530: Astrophysical Processes (graduate course) <ul style="list-style-type: none"> • 10 students. Course rating: 5.00/5. Instructor rating: 4.90/5 ASTRO 4940: Independent Study (undergraduate; 1 student) PHYS 4499: Senior Thesis (undergraduate; 1 student)
Fall 2023	ASTRO 2211: Stars, Galaxies, and Cosmology (undergraduate course) <ul style="list-style-type: none"> • 41 students. Course rating: 4.79/5. Instructor rating: 4.87/5 PHYS 2298: Independent Study (undergraduate; 1 student) PHYS 4498: Senior Thesis (undergraduate; 1 student)
Spring 2023	ASTRO 7683: Seminal Papers in Astronomy and Planetary Science (graduate course) <ul style="list-style-type: none"> • 10 students. Course rating: 5.00/5. Instructor rating: 5.00/5 ASTRO 4940: Independent Study (undergraduate; 2 students)
Fall 2022	ASTRO 4940: Independent Study (undergraduate; 2 students)
2018	Instructor, ZTF Summer School
2016	Lead Instructor, Gemini Observatory Workshop on Data-Driven Modeling of Spectra

ADVISING AND MENTORING

Postdoctoral Associates

Fall 2024–	Genevieve Schroeder: radio observations of GRBs and engine-driven supernovae
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Graduate Students

Fall 2023–	Jason Sevilla (2nd year): fast blue optical transients with ZTF & ULTRASAT
Fall 2024–	Michael Camilo (1st year): synchrotron modeling for trans-relativistic explosions

Undergraduate Students

2024–	Harlan Phillips (REU student): A catalog of all ZTF extragalactic transients
2024–	Marquice Sanchez-Fleming (Cornell sophomore, physics): SN mm-wave counterparts
2024–	Jack Pope (Cornell junior, physics & data science): SN cm-wave counterparts
2023–	Jada Vail (Cornell senior, math & physics): Ic-BL supernova optical light curves <ul style="list-style-type: none">• McNair Scholar; 2023 Nexus Scholar
2022–2024	Maggie Li (Cornell physics → PhD student at Caltech): orphan afterglow modeling <ul style="list-style-type: none">• 2023 Roger & Mary Lou West Fellow; 2024 AAS Chambliss Award; 2024 Shelley Undergraduate Research Award in Astronomy; 2024 Bethe Thesis Prize in Physics
Summer 2023	Joshua Grajales (REU student, Columbia senior): ML identification of FBOTs
2022–2023	Kailai Wang (Cornell physics): photometry of early GRB optical afterglows
2022–2023	William Hohensee (UC Berkeley astrophysics): DESI observations of ZTF host galaxies
Summer 2022	Mary Gerhart (UC Berkeley astrophysics): FBOT identification in survey data
Summer 2021	Alexis Andersen, Autumn Awbrey, Ruby Wong (UC Berkeley physics/astrophysics): DESI observations of transient host galaxies (co-advised with Peter Nugent)
Summer 2021	Caitlin King (Northern Arizona University): orphan afterglow model predictions DOE Science Undergraduate Laboratory Internship (SULI) program

SELECTED RECENT INVITED TALKS

2025	Plenary Talk, “Shaping the Future of Time-Domain Astronomy with LSST” Conference, Brazil
2025	Colloquium, Goddard Space Flight Center, Greenbelt MD
2025	Trottier Space Institute Astronomy Seminar, McGill University, Montreal QC
2025	Colloquium, Syracuse University, Syracuse NY
2025	Seminar, University College Dublin, Dublin Ireland
2025	Colloquium, Herzberg Astronomy and Astrophysics Research Centre, Victoria BC
2025	Colloquium, University of British Columbia, Vancouver BC
2024	Plenary Talk, “MAXI 15 Year Workshop for the Time Domain Astronomy,” Tokyo
2024	Colloquium, Pennsylvania State University, College Park PA
2024	Colloquium, Aspen Center for Physics, Aspen CO (recording)
2024	Plenary Talk, Current Themes Workshop, Niels Bohr Institute, Copenhagen
2024	Plenary Talk, “Cosmic Transients in the Era of Large Surveys” Symposium, Swedish Royal Academy of Sciences, Stockholm
2024	Plenary on Transient Science, CMB-S4 Spring Collaboration Meeting (virtual)
2024	Colloquium, Princeton/IAS, Princeton NJ
2023	Plenary Talk, 32nd Texas Symposium on Relativistic Astrophysics, Shanghai
2023	Colloquium, MIT Astrophysics, Cambridge MA
2023	Colloquium, UVA/NRAO, Charlottesville VA
2023	Plenary Talk, The Transient and Variable Universe Conference, UIUC, Illinois
2023	Talk, CMB-S4 Spring Collaboration Meeting (virtual)
2023	Colloquium, Columbia University, New York NY
2023	Review Talk on X-ray and Radio Observations of LFBOTs, MIAPbP “Interacting Supernovae” Workshop, Garching, Germany
2023	Colloquium, University of Toronto, Toronto ON
2022	Colloquium, Caltech, Pasadena CA
2022	Talk, Time Domain and Multi-Messenger Astrophysics NASA Workshop
2022	Plenary Talk for the Sources & Transients Working Group, CMB-S4 Collab. Meeting
2022	Talk, AAS Special Session on “An Update on Astrophysics and Cosmology from Cosmic Microwave Background Measurements in the Next Decade”
2022	Colloquium, Radboud University, Nijmegen, Netherlands
2022	Colloquium, Carnegie Observatories, Pasadena CA
2022	Talk, APS April Meeting, Cecilia Payne-Gaposchkin Dissertation Award Finalist

2022 CCAT-Prime/FYST Collaboration Meeting (virtual)
 2022 Tor Vergata Astrophysics Seminar (virtual)
 2022 Special Physics & Astronomy Seminar, Northwestern University, Evanston IL
 2022 Colloquium, U.T. Austin, Austin TX
 2022 Colloquium, Cornell University, Ithaca NY
 2021 Colloquium, Max Planck Institute for Astronomy, Heidelberg, Germany (virtual)
 2021 Colloquium, U.C. Santa Cruz
 2021 Talk, SuperVirtual (virtual)
 2021 Seminar, Kavli Institute for Cosmological Physics, U. Chicago
 2021 Astro Seminar, Center for Cosmology and Particle Physics, NYU
 2021 Colloquium, Jodrell Bank Centre for Astrophysics (virtual)
 2021 Seminar, Princeton Gravity Initiative (virtual)
 2021 Colloquium, Centre of Astrophysics and Supercomputing, Swinburne Univ. of Tech. (virtual)

COMMUNITY ENGAGEMENT

2025 Interviewed for Diaries of the Cosmos, part of NASA's Universe of Learning
 2025 Lecture for Astronomy Section, Rochester Academy of Science
 2024 Interviewed for class project, Irvine Valley College
 2024 Lecture for Cornell Friends of Astronomy
 2024 Lecture for North Jersey Astronomical Society ([recording](#))
 2023 Interviewed for Hotel Mars CBS Eye On The World podcast
 2023 Interviewed for Science Review magazine, American School in London
 2023 Member, Career Panel, 4-H Camp at Cornell
 2023 Interviewed for graduate student podcast [Cosmos Crusaders](#)
 2022 Keynote Speaker, Annual Cray User Group Meeting, Monterey CA
 2017–2022 Interviewer, MIT Admissions
 2021 Compass Lecture, UC Berkeley
 2021 Speaker, Riverside Astronomical Society (virtual)
 2019 Speaker, Greenway Talk Series, Palomar Observatory
 2019 Speaker, Owens Valley Radio Observatory Lecture Series
 2019 Speaker, Caltech Graduate Research Spotlight
 2019 Speaker, Ventura County Astronomical Society
 2019 Speaker, Greenway Talk Series, Palomar Observatory
 2018 Contributing Writer, Caltech Letters
 2018 Speaker, College of the Canyons Star Party
 2018 Visitor, 8th-grade class, St. Philip the Apostle School, Pasadena CA
 2017 Volunteer, Orbit Deep Learning Days, Huntington Library, Pasadena CA
 2017 Speaker, Astro on Tap, Pasadena CA
 2017 Speaker, Riverside Astronomical Society
 2017 Speaker, Ventura County Astronomical Society
 2017 Speaker, High School Summer Camp, Culver City CA
 2016 Speaker, Santa Monica Astronomy Club
 2016 Volunteer, Field Trip, iChicas After-school Program
 2015 Speaker, St. Philip Reverse Science Fair, Pasadena CA
 2015 Volunteer, Webster Elementary Science and Stargazing Night, Pasadena CA
 2015–2020 Volunteer, Caltech Astronomy Outreach program
 2014–2015 Volunteer, Center for Astronomy Education and Outreach, Heidelberg, Germany
 2014 AAS Astronomy Ambassadors Workshop, AAS 223rd Meeting
 2012–2013 Volunteer, McCormick Public Observatory, Charlottesville VA