

# A. SYLVIA BISCOVEANU

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## EXPERIENCE

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<b>Assistant Professor of Physics</b> Department of Physics, Princeton University	Sept. 2025– <i>Princeton, NJ</i>
<b>NASA Einstein Fellow</b> CIERA, Northwestern University	Sept. 2023–Aug. 2025 <i>Evanston, IL</i>
<b>Research Specialist</b> <b>Graduate Research Fellow</b> LIGO Laboratory, Massachusetts Institute of Technology	May 2023–July 2023 Sept. 2018–May 2023 <i>Cambridge, MA</i>
<b>Fulbright Postgraduate Fellow</b> Monash University OzGrav: The ARC Centre of Excellence for Gravitational-Wave Discovery	Sept. 2017–June 2018 <i>Clayton, VIC</i>

## RESEARCH INTERESTS

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Gravitational-wave data analysis, black holes, neutron stars, multimessenger astronomy, compact-object binaries, stochastic gravitational-wave backgrounds, next-generation gravitational-wave detectors

## EDUCATION

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<b>Massachusetts Institute of Technology, <i>Cambridge, MA</i></b> Ph.D. in Physics, June 2023 <i>From black holes to the Big Bang: astrophysics and cosmology with gravitational waves and their electromagnetic counterparts</i> , advisor Salvatore Vitale	2018–2023
<b>The Pennsylvania State University, <i>State College, PA</i></b> B.S. in Physics and B.A. in Spanish, May 2017 Schreyer Honors Scholar and Paterno Fellow Minors in Mathematics and Music Performance (violin and viola) <i>Determining the Mass Composition of Ultra High Energy Cosmic Rays Using the Principle of Shower Universality and Data from the Pierre Auger Observatory</i> , advisor Miguel Mostafá	2013–2017 GPA: 4.0

## FELLOWSHIPS AND HONORS

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Forbes 30 Under 30 in Science, North America	2025
NASA Hubble Fellowship Program - Einstein Fellowship	2023–2026
Northwestern CIERA Fellowship	2026–2029
APS Cecilia Payne-Gaposchkin Doctoral Dissertation Award in Astrophysics Finalist	2024
GWIC-Braccini Thesis Prize	2023
IAU Division D Thesis Prize Honorable Mention	2023
NSF Astronomy and Astrophysics Postdoctoral Fellowship (declined)	2023
Charlotte Mateer Obert Named PEO Scholar Award	2022
MIT Physics Department Alan H. Barrett Prize	2021
NSF Graduate Research Fellowship	2018–2023
Paul And Daisy Soros Fellowship for New Americans	2018–2020

Monash University Faculty of Science Young Leader Award	2018
Fulbright Postgraduate Scholarship – Australia	2017–2018
Student Marshal – Penn State Eberly College of Science	2017
Student Marshal – Penn State Department of Spanish, Italian, and Portuguese	2017
Penn State Schreyer Honors College Channa and Usharani Reddy Mission Award	2017
Barry Goldwater Scholarship Award	2016
Astronaut Scholarship Foundation Award	2016
Caltech Summer Undergraduate Research Fellowship	2016
NSF International REU - University of Florida & Monash University	2015
Penn State University and Physics Department Honors	2013-2017
NASA Space Grant for Women in Science and Engineering Research	2013-2014

## SELECT PUBLICATIONS

As a member of the LIGO Scientific Collaboration since 2015, I am a co-author on over 100 full-collaboration papers. Highlighted below are those to which I have made a direct personal contribution.

\* indicates student advisee

1. L. Szemraj<sup>\*</sup>, **A.S. Biscoveanu**, *Disentangling spinning and nonspinning binary black hole populations with spin sorting*, submitted to CQG (2025), arXiv:2507.23663
2. J. Cotturone<sup>\*</sup>, M. Zevin, **A.S. Biscoveanu**, *Characterizing Compact Object Binaries in the Lower Mass Gap with Gravitational Waves*, submitted to ApJ (2025), arXiv:2507.01189
3. N. Bers<sup>\*</sup>, **A.S. Biscoveanu**, *Probing the peak of star formation with the stochastic background of binary black hole mergers*, submitted to ApJ (2025), arXiv:2506.21868
4. **A.S. Biscoveanu**, *Probing Spin-Orbit Resonances with the Binary Black Hole Population*, submitted to ApJ (2025), arXiv:2502.04278
5. F. Kiroğlu, K. Kremer, **A.S. Biscoveanu**, et al., *Black Hole Accretion and Spin-up Through Stellar Collisions in Dense Star Clusters*, ApJ 979, 237 (2025), arXiv:2410.01879
6. E. Sängers et al., *Tests of General Relativity with GW230529: a neutron star merging with a lower mass-gap compact object*, submitted to PRD (2024), arXiv:2406.03568
7. S. Ronchini et al., *Constraining possible  $\gamma$ -ray burst emission from GW230529 using Swift-BAT and Fermi-GBM*, ApJL 970 L20 (2024), arXiv:2405.10752
8. The LIGO-Virgo-KAGRA Collaboration including **A.S. Biscoveanu** as paper manager, *Observation of Gravitational Waves from the Coalescence of a 2.5-4.5  $M_{\odot}$  Compact Object and a Neutron Star*, ApJL 970, L34 (2024), arXiv:2404.04248
9. K. Krishna et al., *Accelerated parameter estimation in Bilby with relative binning*, (2023), arXiv:2312.06009
10. J. Heinzl, **A.S. Biscoveanu**, S. Vitale, *Probing Correlations in the Binary Black Hole Population with Flexible Models*, Phys. Rev. D 109, 103006 (2024), arXiv:2312.00993
11. I. Gupta et al., *Characterizing Gravitational Wave Detector Networks: From A# to Cosmic Explorer*, Class. Quant. Grav. 41, 245001 (2024), arXiv:2307.10421
12. **A.S. Biscoveanu**, E. Burns, P. Landry, and S. Vitale, *An observational upper limit on the rate of gamma-ray bursts with neutron star-black hole merger progenitors*, RNAAS 7 136 (2023), arXiv:2306.14974
13. M. Evans et al., *Cosmic Explorer: A Submission to the NSF MPSAC ngGW Subcommittee*, (2023), arXiv:2306.13745
14. A. Renzini et al., *pygwb: A Python-based Library for Gravitational-wave Background Searches*, ApJ 952 25 (2023), arXiv:2303.15696
15. S. Vitale, **A.S. Biscoveanu**, and C. Talbot, *Spin it as you like: the (lack of a) measurement of the spin tilt distribution with LIGO-Virgo-KAGRA binary black holes*, A&A 668 L2 (2022), arXiv:2209.06978
16. **A.S. Biscoveanu**, P. Landry, S. Vitale, *Population properties and multimessenger prospects of*

- neutron star-black hole mergers following GWTC-3*, MNRAS 518, 5298 (2022), arXiv:2207.01568
17. **A.S. Biscoveanu**, K. Kremer, E. Thrane, *Probing the efficiency of tidal synchronization in outspiral double white dwarf binaries with LISA*, ApJ 949, 95 (2023), arXiv:2206.15390
  18. **A.S. Biscoveanu**, T.A. Callister, C.-J. Haster, K.K.Y. Ng, S. Vitale, W.M. Farr, *The binary black hole spin distribution likely broadens with redshift*, ApJL 932 L19 (2022), arXiv:2204.01578
  19. S. Vitale, **A.S. Biscoveanu**, and C. Talbot, *The orientations of the binary black holes in GWTC-3*, (2022), arXiv:2204.00968
  20. V. Varma, **A.S. Biscoveanu**, T. Islam, F.H. Shaik, C.-J. Haster, M. Isi, W.M. Farr, S.E. Field, S. Vitale, *Evidence of large recoil velocity from a black hole merger signal*, Phys. Rev. Lett. 128, 191102 (2022), arXiv:2201.01302
  21. **A.S. Biscoveanu**, C. Talbot, S. Vitale, *The effect of spin mismodeling on gravitational-wave measurements of the binary neutron star mass distribution*, MNRAS 511, 4350 (2022), arXiv:2111.13619
  22. The LIGO-Virgo-KAGRA Collaboration, *The population of merging compact binaries inferred using gravitational waves through GWTC-3*, Phys. Rev. X 13, 011048 (2023), arXiv:2111.03634
  23. D. Frostig, **A.S. Biscoveanu** et al., *An Infrared Search for Kilonovae with the WINTER Telescope. I. Binary Neutron Star Mergers*, ApJ 926, 152 (2022), arXiv:2110.01622
  24. M. Evans et al., *A Horizon Study for Cosmic Explorer: Science, Observatories, and Community*, (2021), arXiv:2109.09882
  25. V. Varma, **A.S. Biscoveanu**, M. Isi, W.M. Farr, S. Vitale, *Hints of spin-orbit resonances in the binary black hole population*, Phys. Rev. Lett. 128, 031101 (2022), arXiv:2107.09693
  26. V. Varma, M. Isi, **A.S. Biscoveanu**, W.M. Farr, S. Vitale, *Measuring binary black hole orbital-plane spin orientations*, Phys. Rev. D 105, 024045 (2022), arXiv:2107.09692
  27. **A.S. Biscoveanu**, *Characterizing gravitational-wave sources with likelihood reweighting*, Nat. Rev. Phys. 4, 5 (2022), DOI: 10.1038/s42254-021-00404-4
  28. C. Talbot, E. Thrane, **A.S. Biscoveanu**, R. Smith, *Inference with finite time series: Observing the gravitational Universe through windows*, Phys. Rev. Research 3, 043049 (2021), arXiv:2106.13785
  29. **A.S. Biscoveanu**, M. Isi, V. Varma, S. Vitale, *Measuring the spins of heavy binary black holes*, Phys. Rev. D 104, 103018 (2021), arXiv:2106.06492
  30. **A.S. Biscoveanu**, C. Talbot, E. Thrane, R. Smith, *Measuring the primordial gravitational-wave background in the presence of astrophysical foregrounds*, Phys. Rev. Lett. 125, 241101 (2020), arXiv:2009.04418
  31. **A.S. Biscoveanu**, M. Isi, S. Vitale, V. Varma, *New spin on LIGO-Virgo binary black holes*, Phys. Rev. Lett. 126, 171103 (2021), arXiv:2007.09156
  32. Y. Huang et al., *Statistical and systematic uncertainties in extracting the source properties of neutron star - black hole binaries with gravitational waves*, Phys. Rev. D 103, 083001 (2021), arXiv:2005.11850
  33. I. Romero-Shaw, C. Talbot, **A.S. Biscoveanu** et al., *Bayesian inference for compact binary coalescences with BILBY: Validation and application to the first LIGO-Virgo gravitational-wave transient catalogue*, MNRAS 499, 3 (2020), arXiv:2006.00714
  34. M. Safarzadeh, **A.S. Biscoveanu**, A. Loeb, *Constraining the delay time distribution of compact binary objects from the stochastic gravitational wave background searches*, ApJ 901, 2 (2020), arXiv:2004.12999
  35. **A.S. Biscoveanu**, C.-J. Haster, S. Vitale, J. Davies, *Quantifying the Effect of Power Spectral Density Uncertainty on Gravitational-Wave Parameter Estimation for Compact Binary Sources*, Phys. Rev. D 102, 023008 (2020), arXiv:2004.05149
  36. V. Varma, M. Isi, **A.S. Biscoveanu**, *Extracting the Gravitational Recoil from Black Hole Merger Signals*, Phys. Rev. Lett. 124, 101104 (2020), arXiv:2002.00296
  37. **A.S. Biscoveanu**, E. Thrane, S. Vitale, *Constraining short gamma-ray burst jet properties with gravitational waves and gamma rays*, ApJ 893, 38 (2020), arXiv:1911.01379
  38. **A.S. Biscoveanu**, S. Vitale, C.-J. Haster, *The reliability of the low-latency estimation of binary neutron star chirp mass*, ApJL 884, L32 (2019), arXiv:1908.03592
  39. G. Ashton et al., *Bilby: A user-friendly Bayesian inference library for gravitational-wave astron-*

- omy, ApJS 241, 27 (2019), arXiv:1811.02042
40. The LIGO-Virgo-KAGRA Collaboration, *Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background*, Phys. Rev. Lett. 120, 201102 (2018), arXiv:1802.10194
  41. T.A. Callister, **A.S. Biscoveanu** et al., *Polarization-based Tests of Gravity with the Stochastic Gravitational-Wave Background*, Phys. Rev. X 7, 041058 (2017), arXiv:1704.08373
  42. The LIGO-Virgo-KAGRA Collaboration, *Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGO's First Observing Run*, Phys. Rev. Lett., 118, 121101 (2017), arXiv:1612.02029
  43. The LIGO-Virgo-KAGRA Collaboration, *Directional limits on persistent gravitational waves from Advanced LIGO's first observing run*, Phys. Rev. Lett., 118, 121102 (2017) arXiv:1612.02030

## INVITED PRESENTATIONS

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1. Penn State Physics Colloquium, <i>State College, PA</i>	Oct. 2025
2. Harvard ITC Colloquium, <i>Cambridge, MA</i>	Oct. 2025
3. Taking Black Hole Spin Measurements for a Spin Workshop, <i>Winston-Salem, NC</i>	Sept. 2025
4. Niels Bohr Institute Current Themes Workshop, <i>Copenhagen, Denmark</i>	Aug. 2025
5. GR24/Amaldi16 GWIC-Braccini Thesis Prize Plenary, <i>Glasgow, Scotland</i>	July 2025
6. Brown University ICERM Workshop, <i>Providence, RI</i>	June 2025
Scientific Machine Learning for Gravitational Wave Astronomy Discussion Leader	
7. Harvard Black Hole Initiative Annual Conference, <i>Cambridge, MA</i>	April 2025
8. LSST Discovery Alliance Data Science Fellowship Program Lecturer, <i>Pittsburgh, PA</i>	April 2025
9. Ohio State Physics Department Colloquium, <i>Columbus, OH</i>	Nov. 2024
10. Penn State Gravity, Astroparticle and Particle Physics Seminar, <i>State College, PA</i>	Oct. 2024
11. Minnesota Institute for Astrophysics Colloquium, <i>Minneapolis, MN</i>	Oct. 2024
12. IAU 389: Gravitational Wave Astrophysics Plenary, <i>Cape Town, South Africa</i>	Aug. 2024
13. Next-Generation Detectors Mock Data Challenge Workshop, <i>State College, PA</i>	June 2024
14. AAS 244: Astronomy with Neutrinos and other Messengers, <i>Madison, WI</i>	June 2024
15. CIFAR Gravity & Extreme Universe Meeting, <i>Whitehorse, Canada</i>	June 2024
16. HEAD 21: Illuminating the Formation Channels of Compact Binaries with Gravitational Waves <i>Horseshoe Bay, TX</i>	April 2024
17. APS April 2024: CPG Dissertation Award Finalist Session, <i>Sacramento, CA</i>	April 2024
18. APS April 2024: Multi-“Messengers” from Future Facilities, <i>Sacramento, CA</i>	April 2024
19. Notre Dame Astrophysics Seminar, <i>Notre Dame, IN</i>	Nov. 2023
20. University of Mississippi Physics and Astronomy Colloquium, <i>Oxford, MI</i>	Oct. 2023
21. Gravitational-wave populations: what's next? <i>Milan, Italy</i>	July 2023
22. Princeton Gravity Initiative Seminar, <i>Princeton, NJ</i>	Nov. 2022
23. Johns Hopkins Particle Theory Seminar, <i>Baltimore, MD</i>	Nov. 2022
24. Perimeter Institute Strong Gravity Seminar, <i>Waterloo, Canada</i>	Oct. 2022
25. Caltech TAPIR Seminar, <i>Pasadena, CA</i>	Oct. 2022
26. UC Berkeley Explosive Astro Seminar, <i>Berkeley, CA</i>	Oct. 2022
27. Northwestern CIERA Theory Seminar, <i>Evanston, IL</i>	Oct. 2022
28. UChicago KICP Seminar, <i>Chicago, IL</i>	Oct. 2022
29. AEI Astrophysical and Cosmological Relativity Seminar, <i>Potsdam, Germany</i>	Sept. 2022
30. Physics and Astrophysics at the eXtreme (PAX-VIII) Panelist, <i>Cambridge, MA</i>	Aug. 2022
31. Harvard LPPC Seminar, <i>Cambridge, MA</i>	May 2022
32. UWM CGCA Seminar, <i>virtual</i>	March 2022
33. IPAM Workshop: Mathematical and Computational Challenges in the Era of GW Astronomy Workshop III, <i>Los Angeles, CA</i>	Nov. 2021
Tutorial Workshop, <i>virtual</i>	Sept. 2021
34. Perimeter Institute Strong Gravity Seminar, <i>virtual</i>	Nov. 2021
35. Gravitational Wave Astronomy Northwest Student Workshop, <i>virtual</i>	June 2021
36. MIT Kavli Institute Brown Bag Lunch Seminar, <i>virtual</i>	March 2021

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| 37. Brown University ICERM Workshop, <i>virtual</i>  | Nov. 2020  |
| Statistical Methods for the Detection, Classification, and Inference of Relativistic Objects |            |
| 38. Harvard Black Hole Initiative Colloquium, <i>virtual</i>                                 | Nov. 2020  |
| 39. Gravitational-Wave Open Data Workshop #3, <i>virtual</i>                                 | May 2020   |
| 40. TEDxFulbrightCanberra, <i>Canberra, ACT</i>  | May 2018   |
| “The Cosmic Gravitational-Wave Symphony”   |            |
| 41. Penn State Primordial Universe and Gravity Seminar, <i>State College, PA</i>             | April 2017 |
| 42. University of Melbourne Astrophysics Colloquium, <i>Melbourne, VIC</i>                   | July 2015  |

## CONTRIBUTED PRESENTATIONS

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| 1. <b>GR24/Amaldi16</b> , <i>Glasgow, Scotland</i>   | July 2025  |
| Probing Spin-Orbit Resonances with the Binary Black Hole Population  |            |
| 2. <b>246<sup>th</sup> Meeting of American Astronomical Society</b> <i>Anchorage, AL</i>                                     | June 2025  |
| Probing the peak of star formation with the stochastic background of binary black hole mergers                               |            |
| 3. <b>33<sup>rd</sup> Midwest Relativity Meeting</b> , <i>Chicago, IL</i>  | Nov. 2023  |
| Probing Correlations in the Binary Black Hole Population with Flexible Models  |            |
| 4. <b>American Physical Society April Meeting</b> , <i>Minneapolis, MN</i>   | April 2023 |
| Population properties and multimessenger prospects of neutron star-black hole mergers following GWTC-3                       |            |
| 5. <b>AAS High Energy Astrophysics Division Meeting</b> , <i>Waikoloa, HI</i>  | March 2023 |
| Probing the effect of tides in outspiralng double white dwarf binaries with LISA   |            |
| 6. <b>241<sup>st</sup> Meeting of the American Astronomical Society</b> , <i>Seattle, WA</i>                                 | Jan. 2023  |
| From black holes to the Big Bang: astrophysics and cosmology with gravitational waves and their electromagnetic counterparts |            |
| 7. <b>Gravitational Wave Physics and Astronomy Workshop</b> , <i>Melbourne, AU</i>   | Dec. 2022  |
| Population properties and multimessenger prospects of neutron star-black hole mergers following GWTC-3                       |            |
| 8. <b>International Workshop on AM CVn binaries 4.5</b> , <i>virtual</i>   | Aug. 2022  |
| Probing the effect of tides in outspiralng double white dwarf binaries with LISA   |            |
| 9. <b>American Physical Society April Meeting</b> , <i>New York, NY</i>  | April 2022 |
| Sources of systematic error in gravitational-wave measurements of the binary neutron star mass distribution                  |            |
| 10. <b>14<sup>th</sup> Edoardo Amaldi Conference on Gravitational Waves</b> , <i>virtual</i>                                 | July 2021  |
| Measuring the spins of heavy binary black holes  |            |
| 11. <b>European Astronomical Society Meeting</b> , <i>virtual</i>  | July 2021  |
| The Multimessenger Discovery Potential of the Wide-Field Infrared Transient Explorer   |            |
| 12. <b>American Physical Society April Meeting</b> , <i>virtual</i>  | April 2021 |
| Simultaneous Measurement of a Cosmological Stochastic Background and an Astrophysical Foreground                             |            |
| 13. <b>237<sup>th</sup> Meeting of the American Astronomical Society</b> , <i>virtual</i>                                    | Jan. 2021  |
| A new spin on LIGO-Virgo binary black holes  |            |
| 14. <b>235<sup>th</sup> Meeting of the American Astronomical Society</b> , <i>Honolulu, HI</i>                               | Jan. 2020  |
| The Reliability of the Low-Latency Estimation of Binary Neutron Star Chirp Mass  |            |
| 15. <b>American Physical Society April Meeting</b> , <i>Denver, CO</i>   | April 2019 |
| Constraining Short Gamma-Ray Burst Jet Properties Using Coincident Gravitational-Wave and Electromagnetic Detections         |            |
| 16. <b>American Physical Society New England Section Meeting</b> , <i>Dartmouth, MA</i>                                      | Nov. 2018  |
| Constraining the Jet Properties of GRBs with Multimessenger Astronomy  |            |
| 17. <b>9<sup>th</sup> ACGRG</b> , <i>Gingin, WA</i>  | Nov. 2017  |
| Constraining GRB Jet Properties Using Coincident GW/EM Detections  |            |
| 18. <b>LIGO-Virgo Collaboration Meeting</b> , <i>Pasadena, CA</i>  | March 2017 |

- Stochastic Search for Non-GR Polarizations  
Best Data Analysis Poster
19. **American Physical Society April Meeting, Salt Lake City, UT** April 2016  
Determining the Mass Composition of Cosmic Rays Using Shower Universality
  20. **Pierre Auger Collaboration Meeting, Malargüe, Argentina** March 2016  
Elongation Rate Using the El Universal Reconstruction
  21. **American Physical Society April Meeting, Baltimore, MD** April 2015  
Extending the Measurement of Shower Maximum to the Highest Energies Using Universality and Data from the Surface Detector of the Pierre Auger Observatory
  22. **American Physical Society Mid-Atlantic Section Meeting, State College, PA** Oct. 2014  
Determining the Particle Identity of Ultra-High Energy Cosmic Rays

## TEACHING AND MENTORSHIP

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**Graduate Teaching Assistant** Jan. 2022  
Department of Physics, Massachusetts Institute of Technology *Cambridge, MA*  
Introduction to Special Relativity

**Learning Assistant** Jan. 2014-Dec. 2016  
The Pennsylvania State University *State College, PA*  
Introductory Mechanics (Spring 2014)  
Introduction to Quantum Mechanics I (Fall 2016)

**Research Mentorship**  
Lillie Szemraj, Princeton Summer 2024-present  
Jessica Cotturone, Augustana College Summer 2024-present  
Nico Bers, Northwestern Fall 2023-present  
Darsan Bellie, Northwestern (PhD student) Fall 2023–Spring 2024  
Nadia Qutob, Georgia Tech Summer 2022  
Claire Williams, Carleton College (PhD - UCLA) Summer and Fall 2020  
Kaylee de Soto, MIT (PhD - Penn State) Summer 2020  
Jonathan Davies, Imperial College London (PhD - University of Manchester) Summer 2019

**Mentor**, Gravitational-Wave Open Data Workshop May 2020, 2021, 2023  
Develop and lead a series of tutorials introducing gravitational-wave data analysis techniques using open data

**Career Mentorship**  
CIERA Mentorship Program AYs 2023, 2024  
Goldwater Scholarship Mentorship Program AY 2022  
MIT Women in Physics Mentorship Program AY 2018

## SERVICE AND OUTREACH

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**Astronomy Conversations Volunteer**, Adler Planetarium April 2024–Aug. 2025  
Lead discussion and presentation sessions on a broad range of astrophysics topics with museum guests

**Chair, Code of Conduct Committee**, Northwestern CIERA May 2024–Aug. 2025  
Lead the development of a CIERA Community Values Statement and serve as the representative on the Justice, Equity, Diversity, and Inclusion Committee

**Student Representative**, LIGO Academic Advisory Committee Sept. 2021–Nov. 2023

Advocate for early career scientists in the LIGO Collaboration through career development and social programming

**Reviewer**

2020–present

ApJ, ApJL, Phys. Rev. Lett., Phys. Rev. D, JCAP, NASA ATP

**Research Project Leader, Warrior-Scholar Project**

July 2020, 2021, 2022

Design and lead a gravitational-wave research project for veterans transitioning from active service to an academic setting

**Student organizer, MIT Kavli Institute Journal Club**

AYs 2019, 2020

Arrange and introduce weekly speakers to present on new papers and preprints to the MIT Kavli community