A. SYLVIA BISCOVEANU

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EDUCATION

Massachusetts Institute of Technology, Cambridge, MA Ph.D. in Physics Field: Cravitational wave astrophysics	Expected: 2023
Field: Gravitational-wave astrophysics	
The Pennsylvania State University , <i>State College</i> , <i>PA</i> B.S. in Physics and B.A. in Spanish Schreyer Honors Scholar and Paterno Fellow	2013–2017 GPA: 4.0
Minors in Mathematics and Music Performance (violin and viola) Determining the Mass Composition of Ultra High Energy Cosmic Rays Us Universality and Data from the Pierre Auger Observatory, advisor Miguel	sing the Principle of Shower Mostafá
EXPERIENCE	
Graduate Research Assistant LIGO Laboratory, Massachusetts Institute of Technology Thesis advisor: Salvatore Vitale	Sept. 2018–present Cambridge, MA
Graduate Teaching Assistant Department of Physics, Massachusetts Institute of Technology Introduction to Special Relativity	Jan. 2022 Cambridge, MA
Associate Investigator OzGrav: The ARC Centre of Excellence for Gravitational-Wave Discovery	Sept. 2017–present Melbourne, VIC
Fulbright Postgraduate Fellow Monash University Gravitational-wave data analysis with LIGO Advisor: Eric Thrane	Sept. 2017–June 2018 Clayton, VIC
Undergraduate Research Assistant The Pennsylvania State University NASA Space Grant for Women in Science and Engineering Research Ultra high-energy cosmic ray mass composition with the Pierre Auger Obs Advisor: Miguel Mostafá	Jan. 2014–May 2017 State College, PA
Summer Undergraduate Research Fellow LIGO Laboratory, The California Institute of Technology Searching for non-tensorial polarizations in the stochastic gravitational-wa	June 2016–Sept. 2016 Pasadena, CA ve background
Undergraduate Research Assistant Universidad Complutense de Madrid Ultra high-energy cosmic ray mass composition with the Pierre Auger Obs Advisor: Fernando Arqueros	Sept. 2015–Dec. 2015 Madrid, Spain servatory
Summer Undergraduate Research Assistant	June. 2015–Aug. 2015

Monash Unviersity

June. 2015–Aug. 2015 Clayton, VIC Correlated Magnetic Noise in the Advanced LIGO Detector Advisor: Eric Thrane

Learning Assistant

Jan. 2014-Dec. 2016 State College, PA

The Pennsylvania State University Introductory Mechanics (Spring 2014) Introduction to Quantum Mechanics I (Fall 2016)

SELECT PUBLICATIONS

- 1. A.S. Biscoveanu, P. Landry, S. Vitale, Population properties and multimessenger prospects of neutron star-black hole mergers following GWTC-3, (2022), arXiv:2207.01568
- 2. A.S. Biscoveanu, K. Kremer, E. Thrane, Constraining white dwarf tides from gravitational waves with LISA, (2022), arXiv:2206.15390
- 3. 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
- S. Vitale, A.S. Biscoveanu, and C. Talbot, The orientations of the binary black holes in GWTC-3, (2022), arXiv:2204.00968
- 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
- 6. 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
- 7. R. Abbott et al., The population of merging compact binaries inferred using gravitational waves through GWTC-3, (2021), arXiv:2111.03634
- 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
- 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
- V. Varma, M. Isi, A.S. Biscoveanu, W.M. Farr, S. Vitale, Measuring binary black hole orbitalplane spin orientations, Phys. Rev. D 105, 024045 (2022), arXiv:2107.09692
- 11. A.S. Biscoveanu, Characterizing gravitational-wave sources with likelihood reweighting, Nat. Rev. Phys. 4, 5 (2022), DOI: 10.1038/s42254-021-00404-4
- 12. 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
- 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
- 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
- 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
- 16. 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
- 17. 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
- 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
- 19. 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

- 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
- 21. 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
- 22. 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
- G. Ashton et al., Bilby: A user-friendly Bayesian inference library for gravitational-wave astronomy, ApJS 241, 27 (2019), arXiv:1811.02042
- 24. 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
- 25. B. P. Abbott et al., Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGO's First Observing Run, Phys. Rev. Lett., 118, 121101 (2017), arXiv:1612.02029
- 26. B. P. Abbott et al., Directional limits on persistent gravitational waves from Advanced LIGO's first observing run, Phys. Rev. Lett., 118, 121102 (2017) arXiv:1612.02030

SCHOLARSHIPS AND AWARDS

Charlotte Mateer Obert Named PEO Scholar Award National award recognizing academic excellence and achievement by women in doctoral-level pro-	2022 grams
Alan H. Barrett Prize Department of Physics award for exceptional research in astrophysics at MIT	2021
Ragnar and Margaret Naess Award MIT Music and Theater Arts award in recognition of creative accomplishments in music	2021
NSF Graduate Research Fellowship 2018National fellowship for outstanding graduate students in STEM fields2018	8–2023
MIT Emerson Scholarship2020To support private lessons for outstanding MIT student musicians2020)–2022
Paul And Daisy Soros Fellowship for New Americans 2018 National fellowship recognizing the top immigrants and children of immigrants pursuing graduate 2018 ies in the US 2018	8–2020 e stud-
Monash University Faculty of Science Young Leader Award Recognized for my work to improve the climate for women in Physics and Astronomy at Monas	2018 h
Ford Foundation Fellowship Honorable Mention National fellowship aiming to increase the diversity of the nation's college and university faculty	2018
Fulbright Postgraduate Scholarship – Australia 2017 Fellowship designed to promote international relations through research and teaching exchange	7–2018
APS LeRoy Apker Award for Undergraduate Research Finalist	2017
Student Marshal – Penn State Eberly College of Science Student Marshal – Penn State Department of Spanish, Italian, and Portuguese Honors the top graduating student in the college or department	$\begin{array}{c} 2017\\ 2017\end{array}$
Channa and Usharani Reddy Mission Award	2017

Recognizes a graduating Schreyer Scholar who best exemplifies the honors college mission

Barry Goldwater Scholarship Award Astronaut Scholarship Foundation Award National scholarships for undergraduate excellence in STEM	2016 2016
John and Elizabeth Holmes Teas Scholarship in Physics Bert Elsbach Honors Scholarship in Physics Penn State Provost Award Merit scholarships for top students in the Physics department and top incoming fr	2016-2017 2015-2016 2013-2015 reshmen
Penn State Evan Pugh, President Sparks, and President's Freshman Av For students in the top 0.5% at Penn State	wards 2014-2017
NASA Space Grant for Women in Science and Engineering Research Funding award for undergraduate research	2013-2014

INVITED PRESENTATIONS

1.	Physics and Astrophysics at the eXtreme (PAX-VIII) Panelist. Cambridge. MA	Aug. 2022
2.	Harvard LPPC Seminar, Cambridge, MA	May 2022
3.	UWM CGCA Seminar, virtual	March 2022
4.	IPAM Workshop: Mathematical and Computational Challenges in the Era of GW	Astronomy
	Workshop III, Los Angeles, CA	Nov. 2021
	Tutorial Workshop, <i>virtual</i>	Sept. 2021
5.	Perimeter Institute Strong Gravity Seminar, virtual	Nov. 2021
6.	Gravitational Wave Astronomy Northwest Student Workshop, virtual	June 2021
7.	MIT Kavli Institute Brown Bag Lunch Seminar, virtual	March 2021
8.	Brown University ICERM Workshop, virtual	Nov. 2020
	Statistical Methods for the Detection, Classification, and Inference of Relativistic	Objects
9.	Harvard Black Hole Initiative Colloquium, virtual	Nov. 2020
10.	Gravitational-Wave Open Data Workshop $#3$, virtual	May 2020
11.	TEDxFulbrightCanberra, Canberra, ACT	May 2018
	"The Cosmic Gravitational-Wave Symphony"	
12.	Penn State Primordial Universe and Gravity Seminar, State College, PA	April 2017
13.	University of Melbourne Astrophysics Colloquium, Melbourne, VIC	July 2015

CONTRIBUTED PRESENTATIONS

1.	American Physical Society April Meeting, New York, NY	April	2022
	Sources of systematic error in gravitational-wave measurements of the binary neutron		
	star mass distribution		
2.	14th Edoardo Amaldi Conference on Gravitational Waves, virtual	July	2021
	Measuring the spins of heavy binary black holes		
3.	European Astronomical Society Meeting, virtual	July	2021
	The Multimessenger Discovery Potential of the Wide-Field Infrared Transient Explore	er	
4.	American Physical Society April Meeting, virtual	April	2021
	Simultaneous Measurement of a Cosmological Stochastic Background and an Astro-		
	physical Foreground		
5.	237 th Meeting of the American Astronomical Society, <i>virtual</i>	Jan.	2021
	A new spin on LIGO-Virgo binary black holes		
6.	235 th Meeting of the American Astronomical Society, Honolulu, HI	Jan.	2020
	The Reliability of the Low-Latency Estimation of Binary Neutron Star Chirp Mass		

1	Constraining Short Commo Pay Burgt Let Properties Using Coincident Cr	April 2019
	Wave and Electromagnetic Detections	avitational-
8	American Physical Society New England Section Meeting. Darts	nouth MA Nov 2018
	Constraining the Jet Properties of GRBs with Multimessenger Astronomy	/
ç	9 th ACGRG, <i>Gingin</i> , <i>WA</i>	Nov. 2017
	Constraining GRB Jet Properties Using Coincident GW/EM Detections	
10	. LIGO-Virgo Collaboration Meeting, Pasadena, CA	March 2017
	Stochastic Search for Non-GR Polarizations	
	Best Data Analysis Poster	
11	. American Physical Society April Meeting, Salt Lake City, UT	April 2016
10	Determining the Mass Composition of Cosmic Rays Using Shower University	sality
12	Pierre Auger Collaboration Meeting, Malargue, Argentina	March 2016
19	Liongation Rate Using the El Universal Reconstruction	A
13	Extending the Measurement of Shower Maximum to the Highest Energies	April 2015 Using Uni-
	versality and Data from the Surface Detector of the Pierre Auger Observa	otory
14	American Physical Society Mid-Atlantic Section Meeting. State	College PA Oct 2014
	Determining the Particle Identity of Ultra-High Energy Cosmic Rays	oonogo, 111 000. 2011
SERV	ICE AND OUTREACH	
Sta	ident Representative LIGO Academic Advisory Committee	Sept 2021–present
Ad	vocate for early career scientists in the LIGO Collaboration through caree	r
dev	relopment and social programming	
Re	feree, ApJ, ApJL, Phys. Rev. Lett., Phys. Rev. D	2020–present
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Re	search Project Leader, Warrior-Scholar Project	July 2020, 2021, 2022
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