NICHOLAS L. RODD

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Positions	Lawrence Berkeley National Laboratory Divisional Fellow	2024-present
	CERN LD Staff Member	2021-2023
	University of California, Berkeley Miller Research Fellow	2018-2021
Education	Massachusetts Institute of Technology Ph.D. Physics Advisor: Tracy Slatyer Thesis: Listening to the Universe through Indirect	2013-2018 **t Detection
	Melbourne University M.Sc. (Distinction) Physics Advisor: Raymond Volkas and Elisabetta Barber Thesis: Analysis of neutrino mass effective operatesting their signatures at the Large Hadron Collinary	tors and
	Melbourne University B.Sc. & LL.B. (Hons)	2006-2010
Select Awards	APS DAP Cecilia Payne-Gaposchkin Thesis Awa J. J. and Noriko Sakurai Dissertation Award in Theorem Prize in Cosmology and AstroParticle Physical Andrew M. Lockett III Memorial Fund Award, M. Fulbright Postgraduate Scholarship (declined) Australian Students Prize	Theoretical Particle Physics 2019 2017
Select Presentations [‡]	A Quantum Description of Wave Dark Matter, Electures on Dark Matter, TRISEP Summer Scholeserching for the heaviest and lightest particles in Public Talk for Dark Matter Day	June 2023
	Looking Beyond the Dark Matter in Axion Halos Aspen Center for Physics Colloquium	copes, August 2022
SELECT PUBLICATIONS	• D. Y. Cheong, N. L. Rodd, L. Wang A Quantum Description of Wave Dark Matte	Phys.Rev. D111 (2024) 015028 er arXiv:2408.04696
	• K. Langhoff, N. J. Outmezguine, N. L. Rodd The Irreducible Axion Background	Phys.Rev.Lett. 129 (2022) 241101 arXiv:2209.06216
	• C. W. Bauer, N. L. Rodd, B. R. Webber Dark Matter Spectra from the Electroweak to	JHEP 06 (2021) 121 the Planck Scale arXiv:2007.15001
	• F. List, N. L. Rodd, G. F. Lewis, I. Bhat The GCE in a New Light: Disentangling the with Bayesian Graph Convolutional Neural N	, , ,
	• G. N. Remmen, N. L. Rodd Flavor Constraints from Unitarity and Analy	Phys.Rev.Lett. 125 (2020) 081601 arXiv:2004.02885
	• C. Dessert, N. L. Rodd, B. R. Safdi The dark matter interpretation of the 3.5-ket inconsistent with blank-sky observations	Science 367 (2020) 6485 V line is arXiv:1812.06976

 $^{^{\}ddagger}$ Talks listed in blue contain a link to a recording

Publications	63.	S. Abe, T. Inada, E. Moulin, N. L. Rodd, B. R. Safdi, W. L. Discovering the Higgsino at CTAO-North within the Decade	
	62.	C. Beadle, S. A. R. Ellis, J. M. Leedom, N. L. Rodd Dark Matter Nuclear Magnetic Resonance is Sensitive to Dark Photons and the Axion-Photon Coupling	arXiv:2505.15897
	61.	The ABRACADABRA Collaboration High-Frequency Gravitational Wave Search with ABRACAD	$ ar Xiv: 2505.02821 \\ ABRA-10~cm $
	60.	G. N. Remmen, N. L. Rodd Positively Identifying HEFT or SMEFT	arXiv:2412.07827
	59.	G. Durieux, G. N. Remmen, N. L. Rodd, O. J. P. Éboli, M. C. Gonzalez-Garcia, D. Kondo, H. Murayama, R. Okabe <i>LHC EFT WG Note: Basis for Anomalous Quartic Gauge</i>	SciPost Phys. Comm. Rep. 6 (2025) Couplings arXiv:2411.02483
	58.	D. Y. Cheong, N. L. Rodd, L. Wang A Quantum Description of Wave Dark Matter	Phys.Rev. D111 (2024) 015028 arXiv:2408.04696
	57.	V. Domcke, S. A. R. Ellis, N. L. Rodd Magnets are Weber Bar Gravitational Wave Detectors	Phys.Rev.Lett. 134 (2025) 231401 arXiv:2408.01483
	56.	N. L. Rodd, B. R. Safdi, W. L. Xu CTA and SWGO can Discover Higgsino Dark Matter Annih	Phys.Rev. D110 (2024) 043003 ilation arXiv:2405.13104
	55.	M. Baumgart, N. L. Rodd, T. R. Slatyer, V. Vaidya The Quintuplet Annihilation Spectrum	JHEP 01 (2024) 158 arXiv:2309.11562
	54.	D. Carney, V. Domcke, N. L. Rodd Graviton detection and the quantization of gravity	Phys.Rev. D109 (2024) 044009 arXiv:2308.12988
	53.	V. Domcke, C. Garcia-Cely, S. M. Lee, N. L. Rodd Symmetries and Selection Rules: Optimising Axion Haloscopes for Gravitational Wave Searches	JHEP 03 (2024) 128 arXiv:2306.03125
	52.	C. Dessert, O. Ning, N. L. Rodd, B. R. Safdi Limits from the grave: resurrecting Hitomi for decaying dark matter and forecasting leading sensitivity for XRISM	Phys.Rev.Lett. 132 (2024) 211002 arXiv:2305.17160
	51.	The ADMX Collaboration Search for the Cosmic Axion Background with ADMX	Phys.Rev.Lett. 131 (2023) 101002 arXiv:2303.06282
	50.	The VERITAS Collaboration Search for Ultraheavy Dark Matter from Observations of Dwarf Spheroidal Galaxies with VERITAS	Astrophys.J. 945 (2023) 101 arXiv:2302.08784
	49.	M. Freytsis, S. Kumar, G. N. Remmen, N. L. Rodd Multifield Positivity Bounds for Inflation	JHEP 09 (2023) 041 arXiv:2210.10791
	48.	J. A. Dror, S. Gori, J. M. Leedom, N. L. Rodd On the Sensitivity of Spin-Precession Axion Experiments	Phys.Rev.Lett. 130 (2023) 181801 arXiv:2210.06481
	47.	A. Montanari, E. Moulin, N. L. Rodd Towards the ultimate reach of current Imaging Atmospheric Cherenkov Telescopes to TeV Dark Matter	Phys.Rev. D107 (2023) 043028 arXiv:2210.03140
	46.	K. Langhoff, N. J. Outmezguine, N. L. Rodd The Irreducible Axion Background	Phys.Rev.Lett. 129 (2022) 241101 arXiv:2209.06216
	45.	D. Tak, M. Baumgart, N. L. Rodd, E. Pueschel Current and future γ -ray searches for dark-matter annihilation beyond the unitarity limit	Astrophys.J. 938 (2022) L4 arXiv:2208.11740
	44.	G. N. Remmen, N. L. Rodd Spinning Sum Rules for the Dimension-Six SMEFT	JHEP 09 (2022) 030 arXiv:2206.13524
	43.	V. Domcke, C. Garcia-Cely, N. L. Rodd A novel search for high-frequency gravitational	Phys.Rev.Lett. 129 (2022) 041101 arXiv:2202.00695

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waves with low-mass axion haloscopes

Dim but not entirely dark: Extracting the Galactic Center

Excess' source-count distribution with neural nets

42. F. List, N. L. Rodd, G. F. Lewis

Publications (cont.)	41.	G. H. Collin, N. L. Rodd, T. Erjavec, K. Perez A Compound Poisson Generator approach to Point-Source Inference in Astrophysics	Astrophys.J. 260 (2022) 29 arXiv:2104.04529
	40.	The ABRACADABRA Collaboration The search for low-mass axion dark matter with ABRACAD	Phys.Rev.Lett. 127 (2021) 081801 0ABRA-10cm arXiv:2102.06722
	39.	J. W. Foster, M. Kongsore, C. Dessert, Y. Park, N. L. Rodd, K. Cranmer, B. R. Safdi A deep search for decaying dark matter with XMM-Newton blank-sky observations	Phys.Rev.Lett. 127 (2021) 051101 arXiv:2102.02207
	38.	J. A. Dror, H. Murayama, N. L. Rodd The Cosmic Axion Background	Phys.Rev. D103 (2021) 115004^{\dagger} arXiv:2101.09287
	37.	G. N. Remmen, N. L. Rodd Signs, Spin, SMEFT: Sum Rules at Dimension Six	Phys.Rev. D105 (2022) 036006 arXiv:2010.04723
	36.	J. W. Foster, Y. Kahn, R. Nguyen, N. L. Rodd, B. R. Safdi Dark Matter Interferometry	Phys.Rev. D103 (2021) 076018 † arXiv:2009.14201
	35.	L. Rinchiuso, O. Macias, E. Moulin, N. L. Rodd, T. R. Slaty Prospects for Heavy WIMP Dark Matter with CTA: the Win	
	34.	C. W. Bauer, N. L. Rodd, B. R. Webber Dark Matter Spectra from the Electroweak to the Planck Sca	JHEP 06 (2021) 121 arXiv:2007.15001
	33.	I. Baldes, F. Calore, K. Petraki, V. Poireau, N. L. Rodd Indirect searches for dark matter bound state formation and level transitions	SciPost Phys. 9 (2020) 068 arXiv:2007.13787
	32.	F. List, N. L. Rodd, G. F. Lewis, I. Bhat The GCE in a New Light: Disentangling the γ -ray Sky with Bayesian Graph Convolutional Neural Networks	Phys.Rev.Lett. 125 (2020) 241102 arXiv:2006.12504
	31.	C. Dessert, N. L. Rodd, B. R. Safdi Response to a comment on Dessert et al. "The dark matter of the 3.5 keV line is inconsistent with blank-sky observation	
	30.	G. N. Remmen, N. L. Rodd Flavor Constraints from Unitarity and Analyticity	Phys.Rev.Lett. 125 (2020) 081601 arXiv:2004.02885
	29.	M. Buschmann, N. L. Rodd, B. R. Safdi, L. J. Chang, S. Mishra-Sharma, M. Lisanti, O. Macias Foreground Mismodeling and the Point Source Explanation of the Fermi Galactic Center Excess	Phys.Rev. D102 (2020) 023023 arXiv:2002.12373
	28.	The IceCube Collaboration A Search for Neutrino Point-Source Populations in 7 Years of IceCube Data with Neutrino-count Statistics	Astrophys.J. 893 (2020) 102 arXiv:1909.08623
	27.	L. J. Chang, S. Mishra-Sharma, M. Lisanti, M. Buschmann, N. L. Rodd, B. R. Safdi Characterizing the Nature of the Unresolved Point Sources in the Galactic Center	Phys.Rev. D101 (2020) 023014 arXiv:1908.10874
	26.	G. N. Remmen, N. L. Rodd	JHEP 12 (2019) 032

Consistency of the Standard Model Effective Field Theory

Design and Implementation of the ABRACADABRA-10 cm

The dark matter interpretation of the 3.5-keV line is

25. The ABRACADABRA Collaboration

23. The ABRACADABRA Collaboration

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First Results from ABRACADABRA-10 cm: A Search for Sub- μ eV Axion Dark Matter

Axion Dark Matter Search
24. C. Dessert, N. L. Rodd, B. R. Safdi

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(CONT.)

- 22. M. Baumgart, T. Cohen, E. Moulin, I. Moult, L. Rinchiuso, N. L. Rodd, T. R. Slatyer, I. W. Stewart, V. Vaidya Precision Photon Spectra for Wino Annihilation
- L. Rinchiuso, N. L. Rodd, I. Moult, E. Moulin, M. Baumgart,
 T. Cohen, T. R. Slatyer, I. W. Stewart, V. Vaidya
 Hunting for Heavy Winos in the Galactic Center

 Phys.Rev. D98 (2018) 123014
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- M. Baumgart, T. Cohen, I. Moult, N. L. Rodd,
 T. R. Slatyer, M. P. Solon, I. W. Stewart, V. Vaidya
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- 19. J. W. Foster, N. L. Rodd, B. R. Safdi
 Revealing the Dark Matter Halo with Axion Direct Detection

 Phys.Rev. D97 (2018) 123006
 arXiv:1711.10489
- 18. The HAWC Collaboration JCAP **1802** (2018) 049
 A Search for Dark Matter in the Galactic Halo with HAWC arXiv:1710.10288
- R. Bartels, D. Hooper, T. Linden, S. Mishra-Sharma,
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 Comment on "Characterizing the population of pulsars in the Galactic bulge with the Fermi Large Area Telescope" [arXiv:1705.00009v1]
- 16. R. E Keeley, S. N. Abazajian, A. Kwa, N. L. Rodd, B. R. Safdi Phys.Rev. **D97** (2018) 103007 What the Milky Way's Dwarfs tell us about arXiv:1710.03215 the Galactic Center extended excess
- M. Lisanti, S. Mishra-Sharma, N. L. Rodd,
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 Mapping Extragalactic Dark Matter Annihilation with Galaxy Surveys:
 A Systematic Study of Stacked Group Searches
- M. Lisanti, S. Mishra-Sharma, N. L. Rodd, B. R. Safdi
 A Search for Dark Matter Annihilation in Galaxy Groups

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- 13. P. Ilten, N. L. Rodd, J. Thaler, M. Williams

 Disentangling Heavy Flavor at Colliders

 Phys.Rev. **D96** (2017) 054019

 arXiv:1702.02947
- 12. T. Cohen, K. Murase, N. L. Rodd, B. R. Safdi, Y. Soreq

 Gamma-ray Constraints on Decaying Dark Matter

 arXiv:1612.05638

 and Implications for IceCube
- 11. G. Ovanesyan, N. L. Rodd, T. R. Slatyer, I. W. Stewart

 The One-Loop Correction to Heavy Dark Matter Annihilation

 Phys.Rev. **D95** (2017) 055001

 arXiv:1612.05638
- 10. S. Mishra-Sharma, N. L. Rodd, B. R. Safdi

 NPTFit: A code package for Non-Poissonian Template Fitting

 Astron.J. 153 (2017) 253

 arXiv:1612.03173
- 9. T. Linden, N. L. Rodd, B. R. Safdi, T. R. Slatyer Phys.Rev. **D94** (2016) 103013 The High-Energy Tail of the Galactic Center Gamma-Ray Excess arXiv:1604.01026
- 8. G. Elor, N. L. Rodd, T. R. Slatyer, W. Xu

 Model-Independent Indirect Detection Constraints
 on Hidden Sector Dark Matter

 JCAP 1606, 024 (2015)
 arXiv:1511.08787
- 7. G. Elor, N. L. Rodd, T. R. Slatyer

 Multi-Step Cascade Annihilations of Dark Matter

 and the Galactic Center Excess

 Phys.Rev. **D91** (2015) 103531

 arXiv:1503.01773
- 6. T. Daylan, D. P. Finkbeiner, D. Hooper, T. Linden, Phys.Dark Univ. 12 (2016) 1-23 S. K. N. Portillo, N. L. Rodd, T. R. Slatyer arXiv:1402.6703 The Characterization of the Gamma-Ray Signal from the Central Milky Way:

 A Case for Annihilating Dark Matter
- 5. P. W. Angel, Y. Cai, N. L. Rodd, M. A. Schmidt, R. R. Volkas

 Testable two-loop radiative neutrino mass model

 based on an LLQd^cQd^c effective operator

 JHEP 10 (2013) 118

 arXiv:1308.0463
- 4. A. Kobakhidze, N. L. Rodd Int.J.Theor.Phys. **52** (2013) 2636

 Time-symmetric quantization in spacetimes with event horizons arXiv:1307.5126

Publications	3. P. W. Angel, N. L. Rodd, R. R. Volkas	Phys.Rev. D87 (2013) 073007
(CONT.)	Origin of neutrino masses at the LHC:	arXiv:1212.6111
	$\Delta L = 2$ effective operators and their ultraviolet completions	
	2. The ATLAS Collaboration	JHEP 12 (2012) 7
	Search for anomalous production of prompt like-sign lepton pairs at $\sqrt{s} = 7$ TeV with the ATLAS detector	arXiv:1210.4538
	1. The ATLAS Collaboration	Eur.Phys.J. C72 (2012) 2244
	Search for doubly charged Higgs bosons in like-sign dilepton final states with the ATLAS detector	arXiv:1210.5070
	(Only listed as internal author on this paper due to ATLAS regulations allobefore service work has been completed.)	wing a maximum of one publication
WHITE PAPERS	8. M. Baumgart, N. L. Rodd, et al. Snowmass Theory Frontier: Effective Field Theory	arXiv:2210.03199
	7. D. Green, N. L. Rodd, et al. Snowmass Theory Frontier: Astrophysics and Cosmology	arXiv:2209.06854
	 K. K. Boddy, M. Lisanti, S. D. McDermott, N. L. Rodd,* C. Weniger, et al. Astrophysical and Cosmological Probes of Dark Matter 	JHEAp 35 (2022) 112 arXiv:2203.06380
		SciPost Phys.Core 6 (2023) 075 arXiv:2203.06508
	4. S. Ando, N. L. Rodd, et al.	arXiv:2203.06781
	Synergies between dark matter searches and multiwavelength/mul	
	3. R. Leane, N. L. Rodd, et al. Puzzling Excesses in Dark Matter Searches and How to Resolve To	arXiv:2203.06859 <i>Them</i>
	2. K. Engel, N. L. Rodd, et al. The Future of Gamma-Ray Experiments in the MeV-EeV Range	arXiv:2203.07360
	1. M. Baumgart, N. L. Rodd, et al. Effective Field Theories for Dark Matter Phenomenology	arXiv:2203.08204
Plenaries &	University of California, Santa Cruz	November 2024
Colloquia	San Francisco State University	September 2024
	TeV Particle Astrophysics 2024, Chicago	August 2024
	LNS Colloquium, MIT	May 2024
	University of Toronto Max Planck Institute for Physics, Munich	March 2024 November 2023
	Oskar Klein Center, Stockholm University	October 2023
	Progress on Old and New Themes in cosmology (PONT) 2023, Avign	
	Novel approaches to characterise the Galactic Centre Excess, Annecy	
	University of California, Davis	March 2023
	Aspen Center for Physics	August 2022
	University of Amsterdam GRAPPA	June 2022
	Exploring the Dark Universe 33rd Rencontres de Blois, Blois, France	May 2022
	Snowmass Theory Frontier Conference, Santa Barbara, USA	February 2022
	XIX International Workshop on Neutrino Telescopes, Virtual	February 2021
	Melbourne University	December 2019
	Nort Eventions in the Court for Doub Motter Element Italy	C

Next Frontiers in the Search for Dark Matter, Florence, Italy

In Pursuit of New Particles and Paradigms, Aspen, USA

September 2019

 $March\ 2019$

No Stone Unturned, Salt Lake City, USA Sth General Mecting of the LHC EFT Working Group, Geneva, Switzerland Fundamental physics and gravitational wave detectors, Pollica, Italy 2024 Scoul Particle Theory Workshop, Scoul, South Korea May 20	
TALKS What is Particle Theory? Santa Barbara, USA 8th General Meeting of the LHC EFT Working Group, Geneva, Switzerland Fundamental physics and gravitational wave detectors, Pollica, Italy 2024 Seoul Particle Theory Workshop, Seoul, South Korea The Mitchell Conference 2024, College Station, USA Axions 2024, Gaineswille, USA Dark Wave Lab Workshop, Batavia, USA Dark Wave Lab Workshop, Batavia, USA Ultra-high frequency gravitational waves: where to next? Geneva, Switzerland CERN EP Physics Workshop, Crozet, France LHC EFT Working Group: positivity constraints, Geneva, Switzerland Axions across boundaries, Florence, Italy Novel approaches to characterise the Galactic Centre Excess, Annecy, France 17th IAXO Collaboration Meeting, DESY 19th Rencontres du Vietnam, Quy Nhon, Vietnam Particle Avenues in the Dark Universe Arena (PADUA), Padua, Italy CERN-CKC workshop, Jeju Island, South Korea Novel Hidden Sectors: From Colliders to Cosmology, Munich, Germany Computational Tools for High Energy Physics and Cosmology, Virtual New Physics from The Sky, Florence, Italy APS April Meeting, Virtual Electroweak effects at high energy, Virtual Electroweak effects at high energy, Virtual New Techniques for Dark Matter Discovery, Vancouver, Canada APS April Meeting, Denver, USA Berkeley week at IPMU, Kashiwa, Japan 16V Particle Astrophysics 2019, Sydney, Australia TeV Particle Astrophysics 2018, Berlin, Germany TeV Particle Astrophysics 2018, Berlin, Germany TeV Particle Astrophysics 2017, Columbus, USA Cosmic Rays, Pulsars & Dark Matter, Santa Fe, USA Cosmic Rays, Pulsars & Dark Matter, Santa Fe, USA Cosmic Rays, Pulsars & Dark Matter, Santa Fe, USA Gamma Rays & Dark Matter, Obergurgl, Austria TeV Particle Astrophysics 2016, Geneva, Switzerland LoopFest XV, Buffalo, USA Gamma Rays & Dark Matter, Obergurgl, Austria Intense Electron Beams Workshop, Ithaca, USA Astroparticle Physics 2014, Amsterdam, Netherlands	125
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Australian-Italian Symposium, Melbourne, Australia April 20	
CoEPP Workshop, Lorne, Australia February 20	
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Invited UC Davis, Harvard, Cornell, University of Oregon, Brigham Young University, Seminars Perimeter Institute, Fermilab, University of Melbourne)25
University of Melbourne, ARC Centre of Excellence for Dark Matter, Sydney CPPC, UC San Diego, Caltech, JPL, McGill)24
Tel Aviv University, Weizmann, ICTP, EPFL, LAPTh, Boston University, The University of British Columbia, UC Davis, Chung-Ang University, Cambridge University, Sapienza University of Rome, CERN Quantum Technology Initiative, Universitat Autònoma de Barcelona, Copernicus Webinar)23

2022

Universitat Autònoma de Barcelona, Copernicus Webinar

UIUC, Stanford, UC Berkeley, LBNL, University of Victoria and TRIUMF (joint),

University of Floria and Florida State University (joint), DESY, University of Geneva (Cosmology department), University of Geneva (Particle Physics department), Technion,

Hebrew University

Invited Seminars (CONT.)	Miller Lunch Talk, University of Cambridge, University of Michigan, Rutgers University, CERN, University of Sydney, Kavli IPMU, ARC Centre of Excellence for Dark Matter, University of Melbourne, KASI, McGill University, UC Santa Cruz	
	LHC Results Forum, UC Santa Cruz, INPA LBNL, UC Davis, University of Maryl BSM PANDEMIC, Brown University, KICP, University of Minnesota, Technical University of Munich, Korea Institute for Advanced Study, University of	•
	UC San Diego, UC Davis, University of Washington, UC Santa Cruz, SLAC	2019
	Stanford, University of Melbourne, UC Berkeley	2018
	Harvard, University of Michigan, Princeton, The Ohio State University (Price Prize UC Berkeley, UC Irvine, University of Oregon, Fermilab, New York University, The Ohio State University, Perimeter Institute, Virginia Tech, Pennsylvania State	,.
	Monash University, University of Melbourne, McGill University	2016
Teaching	Schools and Lectures	
	* 2023 Tri-Institute Summer School on Elementary Particles (TRISEP)	June 2023
	* BCVSPIN-2021: Probing the Mysteries of the Universe	January 2022
	* IPMU Pedagogical Seminar Series	November 2021
	Quantum Field Theory 1 (TA and delivered 4 lectures), MIT (6.3/7)	Spring 2018
	Relativity (TA), MIT $(6.0/7)$	Fall 2017
	Relativity (TA), MIT	Fall 2014
	Quantum Field Theory (TA), Melbourne University	2013
	Physics for Biomed (Recitation Instructor), Melbourne University	2012
	Introductory physics laboratory (Demonstrator), Melbourne University	2011
	(Student evaluation scores are given in parentheses where available.)	
STUDENTS	Joey Takach	2024-present
	Eve Schoen	2024-present
Mentoring	Dhong Yeon Cheong (graduate)	2023
	Yunha Lee (graduate)	2022-2024
	Sung Mook Lee (graduate)	2022-2023
	Gongjun Choi (postdoc)	2021-2023
	Florian List (graduate)	2020-2021
	Chris Dessert (graduate)	2018-2019
	Josh Foster (graduate)	2017-2018
	Michael Toomey (undergraduate)	2017-2018
SERVICE	Referee: Physical Review Letters, Physical Review D, Journal of High Energy Physics Letters B, SciPost, Journal of Cosmology and Astroparticle Physics,	ysics,
	The Astrophysical Journal, Computer Physics Communication, New Astronomy	A
	Convener for SUSY 2025	August 2025
	Organised the Berkeley Axion Workshop	May 2025
	Organised the <i>Third EuCAPT Annual Symposium</i> Organised 34 th Rencontres de Blois	May 2023 May 2023
	Organised 19 th Rencontres du Vietnam	January 2023
	Management Committee, COST Action COSMIC WISPers in the Dark Universe	2022-2023
	Organised the Second EuCAPT Annual Symposium	May 2022
	Organised New Methods and Ideas at the Frontiers of Particle Physics (Winter Asj	*
	Organiser of the HEP/Astro Results Forum	2021-
	Convener for COSMO'21, University of Illinois and Online	August 2021
	Convener for TeVPA 2019, Sydney, Australia	December 2019
	Co-organiser of mini-workshop on the Galactic Center excess, Columbus, OH	August 2017
	Organised a summer school on the NPTF, MIT	June 2017
	LBNL Particle Seminar Organiser, Lawrence Berkeley National Laboratory	2019-2020

SERVICE (CONT.)	Beyond the Standard Model Journal Club Organiser, MIT Ph.D. Thesis Committee	2015-2017
	* Carl Beadle, "Phenomenological Aspects of Feebly Interacting Physics from (Francesco Riva & Sebastian Ellis, University of Geneva)	m Axions to Gravity" July 2025
	* Harrison Ploeg, "The Galactic Millisecond Pulsar Population – Implicat Center Excess" (Chris Gordon, University of Canterbury)	ions for the Galactic August 2021
Outreach	Presentation to the Galesville Astrophysical Society	2025
	KITP Teachers' Conference, presentation to high school teachers	2025
	Quarknet 2024, presentation to visiting high school students, LBNL	2024
	Aspen Center for Physics - Public Lecture	2024
	Interviewed to outline the work of a theorist for the CERN Science Gateway	2022
	Dark matter presentations to school students visiting CERN from the UK and	
	Public talk for Dark Matter Day at CERN – recording available here	2022
	Interview on Radio Physics	2022
	Interview with The Scientist Reach Out Group – recording available here	2022
	Presentation at the Berkeley High School Physics Club – recording available he Organised and Presenter at "Meet a Miller Fellow," El Cerrito High School	ere 2021 2020-2021
	Adopt-a-Physicist	2020-2021
	Presentation to PHYS 153 transfer students, UC Berkeley	2020
Awards	APS DAP Cecilia Payne-Gaposchkin Thesis Award	2020
	J. J. and Noriko Sakurai Dissertation Award in Theoretical Particle Physics	2019
	Miller Research Fellowship	2018
	Price Prize in Cosmology and AstroParticle Physics	2017
	Andrew M. Lockett III Memorial Fund Award, MIT	2016
	American Australian Association's ConocoPhillips Fellowship	2015
	Acevedo Fellowship, MIT	2015
	Kerman Fellowship, MIT	2013
	Fulbright Postgraduate Scholarship (declined)	2013
	Henry James Williams Scholarship, Melbourne University Dean's Honours List in MSc Physics, Melbourne University	2012 2012
	Bryan Scholarship in Natural Science, Melbourne University	2012
	Master of Science National Scholarship, Melbourne University	2011
	Raynes Dickson Memorial Exhibition in Deals, Melbourne University	2010
	Dean's Honours List in BSc/LLB, Melbourne University	2008
	Dean's Honours List in BSc/LLB, Melbourne University	2006
	VCE Premiers All Round High Achiever	2005
	Australian Students Prize	2005
	Dux of Melbourne Grammar School	2005
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