

Christina Love, PhD

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Education

- 2013 **Ph.D. Physics**, Temple University (TU), Philadelphia, PA
Thesis: “Design and Analysis for the DarkSide-10 Two-Phase Argon Time Projection Chamber” (Advisor: C.J. Martoff, DarkSide Collaboration)
- 2010 **M.A. Physics**, Temple University, Philadelphia, PA
Peter Havas Humanitarian Scholarship For Outstanding Physics Graduate Students
- 2006 **B.S. Physics Education**, West Chester University, West Chester, PA
The Robert M. Brown Endowed Scholarship for Physics, Sigma Pi Sigma,
Michael F. Martens Award for Achievement in Physics, Cum Laude, Dean’s List

Current Appointments

- 2024 – HERA (High-altitude Engineering for Research in Astrophysics) Collaboration
Co-Founder and Drexel Lead
- Developed and leads an international collaboration working on coordinated balloon launches to study cosmic radiation.
 - Currently advising 15 undergraduate students on HERA research.
 - Collaborators include the University of Melbourne, small liberal arts colleges, high schools, and community colleges.
- 2021 – IceCube Collaboration, <https://icecube.wisc.edu/collaboration/meet-the-collaboration/>
Creator and Lead for Name that Neutrino
- Developed and runs a citizen science program that works to improve IceCube analyses while also reaching thousands of people worldwide.
 - Currently advising 7 undergraduate students on Name that Neutrino research.
- 2014 – Department of Physics, Drexel University (DU), Philadelphia, PA
Associate Teaching Professor (2020 –
- Teaching all levels of introductory physics using evidence-based teaching methods and relating physics content to majors such as engineering, health sciences, and media arts.
 - Taught physics majors statistical mechanics, experimental physics, and senior research.
 - Scaling up research mentoring with a project-based learning course: Astroparticle Research.
 - Advised two senior research students and two masters’ students.
- Assistant Teaching Professor** (2014 – 2020)
- Designed eight new courses including introduction to experimental physics for physics majors, computational labs for media art majors, and a community-based learning course.
 - Standardized the physics sequence for engineering to include in-class polling and pre-lecture assignments.
 - Restructured the physics sequences for non STEM majors by working with multiple colleges, programs, and departments.
 - Advised four senior research students.

Public Interviews

- Good Day Philadelphia LIVE, FOX29, Philadelphia, PA.
February 27, 2025 - <https://www.fox29.com/video/1600053>
October 16, 2024 - <https://www.fox29.com/video/1532781>
August 27, 2024 - <https://www.fox29.com/video/1507220>
- KYW Newsradio, Philadelphia PA, 2024
- Impact Factor Podcast LIVE, Philadelphia, PA, 2022.
- The STEM Everyday Podcast, Philadelphia, PA and Grand Rapids, MI, 2015.
- WHYY’s *The Pulse*, Philadelphia, PA, 2014.
why.org/segments/the-art-of-explaining-science-and-why-its-so-hard-to-do/

Funding Received

<i>Source</i>	<i>Years</i>	<i>Awarded to</i>	<i>Drexel PIs/Leads</i>	<i>Amount</i>	<i>C. Love Funding</i>
NASA National Balloon Project	2025	<i>Devil Dragon Balloon Team</i>	C. Love R. Cairncross	\$9,550	equipment, student travel
NASA PA Space Grant Consortium	2022-2025	<i>Drexel Space Systems Laboratory (DSSL)</i>	A. Yousuff, R. Cairncross	\$46,240	equipment, student travel
NSF	2022-2025	<i>IceCube Data Analysis in the U.S. 2022-2025</i>	N. Kurahashi Neilson (Key personnel: C. Love)	\$541,879	summer salary, faculty and student travel
NSF Noyce	2018-2024	<i>Preparing Mathematics and Science Teachers for Middle School</i>	S. Vaidya, C. Love , D. McEachron, S. Moskow	\$1,199,762	summary salary
Science History Institute	2014-2024	<i>Start Talking Science</i>	C. Love	\$45,300	in-kind contributions
CHOP	2016-2024	<i>Start Talking Science</i>	C. Love	\$8,800	in-kind contributions
Penn Medicine CAREs Grant	2015-2017	<i>Start Talking Science</i>	C. Love	\$3,962	supplies
Academy of Natural Sciences	2015	<i>Start Talking Science</i>	C. Love	\$4,000	in-kind contributions
Drexel University	2014	<i>Start Talking Science</i>	C. Love	\$1,000	supplies
Temple University	2014	<i>Start Talking Science</i>	C. Love	\$1,000	supplies

Pending Grant Proposals

<i>Source</i>	<i>Years</i>	<i>Proposal</i>	<i>Submitted</i>	<i>Drexel PIs</i>	<i>Amount</i>
NSF PAARE	2025-2028	<i>Balloon Experiments for Advancing STEM Education</i>	Feb 2025	C. Love	\$581,554
NSF AISL	2025-2030	<i>IceCube Science for Everyone</i>	Jan 2025	C. Love	\$1,388,892
NSF AISL	2025-2026	<i>Pilot Expansion of Start Talking Science</i>	Jan 2025	C. Love , M. Dolinski	\$143,341
NASA PA Space Grant Consortium	2025-2028	<i>Drexel Space Systems Laboratory (DSSL)</i>	Nov 2024	M. McCarthy, A. Yousuff, R. Cairncross (to be replaced by C. Love)	\$46,240
NSF Physics	2025-2028	<i>IceCube Data Analysis in the U.S. 2025-2028</i>	Nov 2024	N. Kurahashi Neilson, C. Love	\$928,594

Teaching Appointments

- 2016 – **Adjunct Professor**, College of Medicine, DU (DUCOM)
- Developed and taught hybrid courses for post baccalaureate pre-med students.
 - Created a connection between DUCOM and the Department of Physics for sharing laboratory equipment, space, and instructions.
- 2012 – 2024 **Adjunct Professor**, Rowan University, Glassboro, NJ
- 2012 **Adjunct Instructor**, Burlington County College, Mount Laurel, NJ
- 2007 – 2009 **Teaching Assistant**, Physics Department, Temple University, Philadelphia, PA
- 2006 – 2007 **High School Teacher**, Physics, Moorestown High School, Moorestown, NJ
- 2006 **High School Student Teacher**, Octorara Area High School, Atglen, PA

Leadership Appointments

- 2023 – **Associate Director**, Arts and Sciences Undergraduate Research Support (ASURS) Fund, College of Arts and Sciences, DU
- Designing and running a program to engage undergraduate students in research.
- 2013 – **Founder and Director**, *Start Talking Science*
- Annually organizing a public outreach event where STEM researchers present non-technical posters to area students and the general public.
 - Secured funding for 10 years totaling over **\$64,000**.
- 2019 **Director**, Drexel Engineering Leadership Transformation Academy (DELTA) College of Engineering, DU
- Coordinated a program for incoming freshmen from underrepresented groups in STEM.
- 2015 – 2018 **President-Elect, President, and Past-President** Association for Women in Science (AWIS), Philadelphia Chapter
- Planned programs and coordinated resources to provide networking, mentoring, and leadership opportunities for women in STEM at all levels.

Research Appointments

- 2013 – 2014 **Visiting Scientist and Postdoctoral Fellow**, Transportation Security Laboratory, Oak Ridge Institute for Science and Education (ORISE), Pomona, NJ
- Researched image quality and image reconstruction with X-ray tomography for bulk explosives detection.
 - Secured funding for an undergraduate physics major at Rowan University.
- 2010 **Research Associate**, NASA's Goddard Space Flight Center, Greenbelt, MD
- Simulated the electrostatics of the X-ray detector for the GEMS mission.
- 2009 – 2013 **Research Assistant**, Physics Department, Temple University, Philadelphia, PA DarkSide Collaboration, Gran Sasso National Laboratory, Assergi, Italy
- Designed, simulated, and built high voltage systems and electric field configurations.
 - Searched for funding and assisted in writing the NSF grant: “*Green*” *Aqueous Liquid Scintillator for Nuclear Materials*. PI: C. J. Martoff, **\$377,067**.
- 2009 **Research Associate**, Fermi National Accelerator Laboratory, Batavia, IL
- Engineered muon veto detectors and pursued an aqueous scintillation solution.

Awards and Honors

- 2025 **Emerging Scholar**, *Diverse: Issues in Higher Education* ([link](#))
- 2024 **Provost Award for Undergraduate Teaching Impact**, DU
- 2023 – 2024 **Teagle Fellow**, Pennoni Honors College, DU
- 2023 **Travel Award**, Office of Research & Innovation, DU
- 2020 – 2021 **Faculty Fellow**, Center for the Advancement of STEM Teaching and Learning Excellence (CASTLE), DU
- 2020 **Barbara G. Hornum Award for Teaching Excellence**, DU
- 2018 **Evidence Based Teaching Award in STEM Education**, DU
- 2017 **Teaching and Learning Conference Travel Award**, DU
- 2016-2018 **AWIS Star Chapter Award**, President of Philadelphia Chapter
- 2015 **Outstanding Faculty Mentor**, Graduate Student Association, DU
- 2015 **Sciences & Medicine Alumni Award**, Foundation for Education, Somers Point, NJ
- 2008; 2012 **Division of Nuclear Physics Travel Award**, American Physical Society (APS)
- 2009 **Award for Outstanding Teaching**, Graduate Award, Temple University

Outreach and Service

Community

2024 Speaker, La Salle College High School, Philadelphia, PA
2024 Speaker, Springside Chestnut Hill Academy, High School, Philadelphia, PA
2024 Invited Speaker, Conferences for Undergraduate Women in Physics (CUWiP),
University of Pennsylvania
2020 – 2022 Member-at-Large, Executive Committee
Forum on Outreach and Engaging the Public (FOEP), American Physical Society
2020 Speaker, Jordan Road School, K-8 School, Somers Point, NJ
2020 Invited Speaker, Conferences for Undergraduate Women in Physics, TU
2019 Speaker, Our Lady of Mercy Academy, High School, Newfield, NJ
2017 Panelist, Career Pathways Panel, AWIS Philadelphia, DU
2016 – 2018 Director, Board of Directors, Challenger Learning Center of Philadelphia
2016 Judge, Student Inventions through Education, Gifted and Talented Services, NJ
2016 Panelist, Professional Women in STEM Round Table, Rowan University
2014 – 2016 Co-organizer, AWIS Philadelphia Chapter Mentoring Circle
2014 – 2015 Reviewer, AWIS Travel Awards
2013 – 2015 Scientist, Philadelphia Area Girls Enjoying Science (PAGES) Mini Conference
2013 – 2015 Mentor, Owl-to-Owl Mentoring Program, Temple University
2013 – 2014 Interviewer, Delaware Valley Science Council
2011 – 2012 Volunteer, Philadelphia Science Festival
2008 – 2011 Science Presenter, The Franklin Institute

Drexel

2024 – Member, LMS University Advisory Committee
2014 – Member and Chair, Kaczmarczik Committee, Physics Department
2014 – Colloquia Host, Physics Department
2024 Member, Drexel Teaching Academy, Teaching and Learning Center
2024 Presenter, ASURS Fund Event, College of Arts and Sciences
2022 – 2023 Member, Intro Physics Workgroup, Physics Department
2023 Web Committee, Physics Department
2021 – 2022 Member, Program and Curricular Innovation Team,
Experiential Learning in the Classroom Environment Subcommittee
2022 Co-Chair, DEI Committee, Physics Department
2021 Invited Speaker, Freshman Physics Majors, UNIV 101, Physics Department
2017 – 2021 Member, Undergraduate Committee, Physics Department
2020 Invited Speaker, DELTA program, College of Engineering
2019; 2021-2022 Panelist, Women in Physics Society, DU
2017 Member, Graduate Common Good and Mentorship Award Committee,
College of Arts and Sciences
2016 – 2018 Co-facilitator, Astroparticle Physics Workshops, Masterman High School
2016 Member, Evidence-based Teaching Committee, College of Arts and Sciences
2016 Member, FAR Rubric Committee, Physics Department
2015 Member, Course Assessment Committee, Physics Department
2015 Member, University Health Professions Committee, College of Arts & Sciences
2015 Judge, University Research Day

Invited and Plenary Talks

3. C. Love. *Name that Neutrino*. IceCube Collaboration Meeting. Plenary. Madison, WI. Sept. 2024.
2. C. Love. *Public Engagement: IceCube Citizen Science and Start Talking Science*. Annual Meeting of the APS Mid-Atlantic Section, Newark, DE. Invited. Nov. 2023.
1. B. Prefontaine, N. Kurahashi Neilson, C. Love. *The Development and Assessment of Particle Physics Summer Program for High School Students*. Annual Meeting of the APS Mid-Atlantic Section, Newark, DE. Invited. Oct. 2016.

Colloquia and Seminars

6. C. Love. *Citizen Science with the IceCube Neutrino Observatory*. Colloquium, Rowan University, Glassboro, NJ. Feb. 2025. ([link](#))
5. C. Love. *Citizen Science with the IceCube Neutrino Observatory*. Colloquium, Arcadia University, Glenside, PA. Apr. 2024.
4. C. Love. *Evidence-based Methods for Teaching and STEM Major Education*. Department of Physics Colloquium, DU. Invited. Apr. 2016.
3. C. Love. *Dark Matter and the DarkSide-10 Two-Phase Argon Time Projection Chamber*. Transportation Security Laboratory Seminar, Pomona, NJ. Jan. 2013.
2. C. Martin, et al. *Preliminary Analysis from DarkSide-10 and Simulations for SCENE*. Temple University Colloquium, Philadelphia, PA. Feb. 2012.
1. C. Martin, et al. *Design of the HHV System for a Prototype Dark Matter Detector*. Temple University Colloquium, Philadelphia, PA. Sept. 2010.

Other Conference Talks

13. M. Lee and C. Love, *Name that Neutrino: Citizen Science Meets Machine Learning at IceCube*, American Association of Physics Teachers (AAPT) Winter Meeting, Saint Louis, MO. Jan. 2025. Anticipated.
12. M. Lee and C. Love, *Name that Neutrino: Citizen Science Meets Machine Learning at IceCube*, Meeting of the American Astronomical Society (AAS), National Harbor, MD. Jan. 2025. Anticipated.
11. L. Akirtha and C. Love, *Preliminary Results for HERA: High-altitude Engineering for Research in Astrophysics*, APS Mid-Atlantic Meeting, Philadelphia, PA. Nov. 2024.
10. C. Love. *Civic Science Program with the IceCube Neutrino Observatory*. APS Joint Network for Informal Physics Education and Research (JNIPER) Virtual Coffee Hour. July 2024. ([link](#))
9. C. Love. *Updates for Name that Neutrino*. IceCube Mid-Atlantic Meeting. University of Delaware, Newark, DE. June 2024.
8. S. Warnock, C. Love, A. Dickinson. *Launching an Arts and Sciences Research Support Fund to Connect Undergraduate Researchers and Faculty Mentors*. ConnectUR 2024 Annual Conference. Online. June 2024.
7. C. Love and N. Kurahashi Neilson. *Observing Black Holes and Our Universe at the South Pole using Neutrinos*. Table Talk, 2023 American Association for the Advancement of Science (AAAS) Annual Meeting, Washington D.C. Mar. 2023.
6. E. Warrick, C. Love, N. Kurahashi Neilson. *Citizen Science Zooniverse Project*. IceCube Collaboration Meeting, Madison, WI. Sept. 2022.
5. N. Wurbach, C. Love, N. Sfiroudis. *Introducing Particle Physics to High School Students*. AAPT Winter Meeting, Atlanta, GA. Feb. 2017.
4. C. Love, B. Prefontaine, N. Kurahashi Neilson, E. Brew. *An Immersive Research Program for High School Students*. AAPT Winter Meeting, Atlanta, GA. Feb. 2017.
3. B. Prefontaine, N. Kurahashi Neilson, C. Love. *The Development and Assessment of Particle Physics Summer Program for High School Students*. APS April Meeting, Washington D.C. Jan. 2017.
2. C. Martin, for the DarkSide Collaboration. *Preliminary Analysis of Electroluminescence from DarkSide-10 Dark Matter Detector*. APS April Meeting, Atlanta, GA. Apr. 2012.
1. C. Martin, et al. *Measured Nuclear Recoil Discrimination for HPGS, a Proposed Ton-Scale Dark Matter Search in Room Temperature Gas*. APS April Meeting, Denver, CO. May 2009.

Poster Presentations

9. K. Ahmari and C. Love, *High-Altitude Engineering for Research in Astrophysics (HERA)*, CoAS Research Involvement Fair, DU, Feb. 2025.
8. A. Scholl and C. Love, *Engaging Students in IceCube Citizen Science*, Conferences for Undergraduate Women and Gender Minorities in Physics, Syracuse University, Jan. 2025.
7. M. Lee and C. Love, *Name that Neutrino: Citizen Science Meets Machine Learning at IceCube*, American Physical Society Mid-Atlantic Meeting, Nov. 2024.
6. C. Love. *Improving STEM Education: Start Talking Science*. Academic Affairs Assembly Research Fair, DU. Feb. 2016.
5. N. Sfiroudis and C. Love. *Increasing knowledge and interest of high school students by using a complete teaching toolkit for particle physics*. DU Research Day. May 2015.
4. J. Iannello, C. Love, R. Krauss, and R. Klueg. *Modeling System Parameters for Dual-Energy Computed Tomography Contraband Detection*. Rowan University STEM Student Research Symposium. Apr. 2014.
3. Z. Dziembowski, C. Martin, and M. Luehrmann. *Googling for Physics Homework*. AAPT Summer Meeting. University of Michigan, Ann Arbor, MI. Jul. 2009.
2. C. Martin, et al. *Identifying WIMP recoils in Xenon Gas Scintillation*. National Nuclear Physics Summer School, Michigan State University, East Lansing, MI. Jun. 2009.
1. C. Martin, et al. *LET dependence of Pulse Shape for Xenon Gas Scintillation*. Student Research Poster Symposium. TU, Philadelphia, PA. Mar. 2009.

Non-Technical Presentations

15. "Citizen Science for IceCube." M. Lee, G. Amin, C. Shaw, and C. Love. *Start Talking Science*, Nov. 2024.
14. "Citizen Science at the South Pole," C. Love and E. Warrick. *Start Talking Science*, Sept. 2022.
13. "Science Communication and More," C. Love. Senior Seminar, Dept. of Bio., DU. Oct. 2020/Nov. 2021.
12. "Panel Discussion on Audience Response Mechanisms," C. Love. CASTLE Pedagogical Happy Hour, DU. Oct. 2017.
11. "Development and Assessment of a Particle Physics Summer Program for High School Students," B. Prefontaine et al. *Start Talking Science*, Chemical Heritage Foundation, Philadelphia, PA. Sept. 2017.
10. "Start Talking Science and STEM Connections" C. Love. CASTLE Pedagogical Happy Hour, DU. 2017.
9. "Dark Matter Matters," C. Love. IceCube Program for High School Students, DU. Aug. 2016.
8. "Dark Matter Matters," C. Love. Workshop for High School Students, DU. Sept. 2016.
7. "Join the DarkSide: Dark Matter Matters," C. Love. Science on Tap, Philadelphia, PA. Jun. 2015.
6. "Women In STEM Careers," C. Woods, M. Leary, C. Love. STEM Everyday Podcast. Jun. 2015.
5. "Join the DarkSide: Dark Matter Matters," C. Love. Nerd Nite, Philadelphia, PA. Dec. 2014.
4. "STEM Communication and AWIS," C. Love. English Language Center, DU. Nov. 2014.
3. "What is Dark Matter?" C. Love. Kaczmarczik Day 2014, Philadelphia, PA. Oct. 2014.
2. "What is Dark Matter and How Can We Detect it?" C. Love. *Start Talking Science*, Aug. 2014.
1. "Explosives Detection for Airport Baggage Scanners," C. Love et al. *Start Talking Science*, Aug. 2014.

Non-Technical Publications

11. Christy Martin. "Crystal Clear." *Chemical Heritage*. Vol. 30. No. 1. 2012.
10. Christy Martin. "Full Boyle." *Chemical Heritage*. Vol. 30. No. 1. 2012
9. Christy Martin. "Mesmerized." *Chemical Heritage*. Vol. 29. No. 3. 2011/2012.
8. Christy Martin. "Bridging the Gaps." *Chemical Heritage*. Vol. 29. No. 3. 2011/2012.
7. Christy Martin et al. "Making the Process." *Chemical Heritage*. Vol. 29. No. 3. 2011/2012.
6. Christy Martin. "The Platonic Solids." *Chemical Heritage*. Vol. 29. No. 3. 2011/2012.
5. Christy Martin. "What Teaching Taught Me." *Periodic Tabloid*, CHF. 2011.
4. Christy Martin. "Current Research by Future Scientists." *Periodic Tabloid*, CHF. 2011.
3. Christy Martin. "The (Prehistoric) History of the Elements." *Periodic Tabloid*, CHF. 2011.
2. Christy Martin. "Revealing MRIs." *Periodic Tabloid*, CHF. 2011.
1. Christy Martin. "Dark Matters and the Periodic Table." *Periodic Tabloid*, CHF. 2011.

Refereed Publications

51. R. Abbasi, (C. Love) et al., “Probing the PeV Region in the Astrophysical Neutrino Spectrum using ν_{μ} from the Southern Sky” arXiv: 2502.19776 (2025).
50. R. Abbasi, (C. Love) et al., “Seasonal Variations of the Atmospheric Muon Neutrino Spectrum measured with IceCube” arXiv: 2502.17890 (2025).
49. R. Abbasi, (C. Love) et al., “Measurement of the inelasticity distribution of neutrino-nucleon interactions for $80 \text{ GeV} < E_{\nu} < 560 \text{ GeV}$ with IceCube DeepCore” arXiv: 2502.13299 (2025).
48. R. Abbasi, (C. Love) et al., “Search for Heavy Neutral Leptons with IceCube DeepCore” arXiv: 2502.09454 (2025).
47. R. Abbasi, (C. Love) et al., “VERITAS and multiwavelength observations of the Blazar B3 2247+381 in response to an IceCube neutrino alert” arXiv: 2502.03853 (2025).
46. R. Abbasi, (C. Love) et al., “A search for extremely-high-energy neutrinos and first constraints on the ultra-high-energy cosmic-ray proton fraction with IceCube” arXiv: 2502.01963 (2025).
45. R. Abbasi, (C. Love) et al., “Time-Integrated Southern-Sky Neutrino Source Searches with 10 Years of IceCube Starting-Track Events at Energies Down to 1 TeV” arXiv: 2501.16440 (2025).
44. R. Abbasi, (C. Love) et al., “Search for neutrino doublets and triplets using 11.4 years of IceCube data” arXiv: 2501.09276 (2025).
43. R. Abbasi, (C. Love) et al., “Observation of Cosmic-Ray Anisotropy in the Southern Hemisphere with Twelve Years of Data Collected by the IceCube Neutrino Observatory” arXiv: 2412.05046 (2025).
42. R. Abbasi, (C. Love) et al., “Search for joint multimessenger signals from potential Galactic PeVatrons with HAWC and IceCube” arXiv: 2405.03817 (2024).
41. R. Abbasi, (C. Love) et al., “Probing the connection between IceCube neutrinos and MOJAVE AGN” arXiv: 2407.01351 (2024).
40. R. Abbasi, (C. Love) et al., “Search for a light sterile neutrino with 7.5 years of IceCube DeepCore data” arXiv: 2407.01314 (2024).
39. R. Abbasi, (C. Love) et al., “Acceptance Tests of more than 10 000 Photomultiplier Tubes for the multi-PMT Digital Optical Modules of the IceCube Upgrade” arXiv: 2404.19589 (2024).
38. R. Abbasi, (C. Love) et al., “Methods and stability tests associated with the sterile neutrino search using improved high-energy event reconstruction in IceCube” arXiv: 2405.08077 (2024).
37. R. Abbasi, (C. Love) et al., “A search for an eV-scale sterile neutrino using improved high-energy event reconstruction in IceCube” arXiv: 2405.08070 (2024).
36. R. Abbasi, (C. Love) et al., “Exploration of mass splitting and muon/tau mixing parameters for an eV-scale sterile neutrino with IceCube” arXiv: 2406.00905 (2024).
35. R. Abbasi, (C. Love) et al., “Search for neutrino emission from hard X-ray AGN with IceCube” arXiv: 2406.06684 (2024).
34. R. Abbasi, (C. Love) et al., “IceCube Search for Neutrino Emission from X-ray Bright Seyfert Galaxies” arXiv: 2406.07601 (2024).
33. R. Abbasi, (C. Love) et al., “Observation of Seven Astrophysical Tau Neutrino Candidates with IceCube” arXiv: 2403.02516 (2024).
32. R. Abbasi, (C. Love) et al., “Improved modeling of in-ice particle showers for IceCube event reconstruction” arXiv: 2403.02470 (2024).
31. R. Abbasi, (C. Love) et al., “Citizen Science for IceCube: Name that Neutrino” arXiv: 2401.11994 (2024). Invited.
30. R. Abbasi, (C. Love) et al., “Characterization of the Astrophysical Diffuse Neutrino Flux using Starting Track Events in IceCube” arXiv: 2402.18026 (2024).
29. R. Abbasi, (C. Love) et al., “Search for 10--1,000 GeV neutrinos from Gamma Ray Bursts with IceCube” arXiv: 2312.11515 (2023).
28. R. Abbasi, (C. Love) et al., “All-Sky Search for Transient Astrophysical Neutrino Emission with 10 Years of IceCube Cascade Events” arXiv: 2312.05362 (2023).
27. R. Abbasi, (C. Love) et al., “Search for Continuous and Transient Neutrino Emission Associated with IceCube's Highest-Energy Tracks: An 11-Year Analysis.” Submitted to ApJ. arXiv: 2309.12130 (2023)

Refereed Publications (continued)

26. R. Abbasi, (C. Love) et al., “Searching for Decoherence from Quantum Gravity at the IceCube South Pole Neutrino Observatory.” arXiv: 2308.00105 (2023).
25. R. Abbasi, (C. Love) et al., “The IceCube-Gen2 Collaboration -- Contributions to the 38th International Cosmic Ray Conference (ICRC2023)” arXiv: 2307.13048 (2023).
24. R. Abbasi, (C. Love) et al., “The IceCube Collaboration -- Contributions to the 38th International Cosmic Ray Conference (ICRC2023)” arXiv: 2307.13047 (2023).
23. R. Abbasi, (C. Love) et al., “Search for Extended Sources of Neutrino Emission in the Galactic Plane with IceCube” arXiv: 2307.07576 (2023).
22. R. Abbasi, (C. Love) et al., “Search for correlations of high-energy neutrinos detected in IceCube with radio-bright AGN and gamma-ray emission from blazars” arXiv: 2304.12675 (2023).
22. R. Abbasi, (C. Love) et al., “Measurement of Atmospheric Neutrino Mixing with Improved IceCube DeepCore Calibration and Data Processing” arXiv: 2304.12236 (2023).
20. R. Abbasi, (C. Love) et al., “IceCat-1: the IceCube Event Catalog of Alert Tracks” arXiv: 2304.01174 (2023).
19. R. Abbasi, (C. Love) et al., “A Search for IceCube sub-TeV Neutrinos Correlated with Gravitational-Wave Events Detected By LIGO/Virgo” arXiv: 2303.15970 (2023).
18. R. Abbasi, (C. Love) et al., “Search for neutrino lines from dark matter annihilation and decay with IceCube” arXiv: 2303.13663 (2023).
17. R. Abbasi, (C. Love) et al., “Observation of Seasonal Variations of the Flux of High-Energy Atmospheric Neutrinos with IceCube” arXiv: 2303.04682 (2023).
16. R. Abbasi, (C. Love) et al., “Constraining High-Energy Neutrino Emission from Supernovae with IceCube” arXiv: 303.03316 (2023).
15. R. Abbasi, (C. Love) et al., “Limits on Neutrino Emission from GRB 221009A from MeV to PeV using the IceCube Neutrino Observatory” arXiv: 2302.05459 (2023).
14. R. Abbasi, (C. Love) et al., “Constraining High-Energy Neutrino Emission from Supernovae with IceCube” arXiv: 2303.03316 (2023).
13. R. Abbasi, (C. Love) et al., “D-Egg: a Dual PMT Optical Module for IceCube.” arXiv: 2212.14526 (2023).
12. R. Abbasi, (C. Love) et al., “IceCube search for neutrinos coincident with gravitational wave events from LIGO/Virgo run O3” Submitted to The Astrophysical Journal, arXiv:2208.09532 (2022).
11. R. Abbasi, (C. Love) et al., “Graph Neural Networks for Low-Energy Event Classification & Reconstruction in IceCube.” Submitted to JINST, arXiv: 2209.03042 (2022).
10. E. Edkins, (C. Love) et al., “The DarkSide Direct Dark Matter Search with Liquid Argon.” AIP Conference Proceedings (2017).
9. P. Agnes, (C. Love) et al., “Direct Search for Dark Matter with DarkSide.” Journal of Physics Conference Series (2015).
8. P. Agnes, (C. Love) et al., “First Results from the DarkSide-50 Experiment at Laboratori Nazionali del Gran Sasso.” *Physics Letters B*, **743**, pp. 456-466 (2015).
7. J. Xu, (C. Love) et al., “A study of the trace ^{39}Ar content in argon from deep underground sources.” *Astroparticle Physics*, **66**, pp. 53-60 (2015).
6. H. Cao, (C. Love) et al., “Measurement of Scintillation and Ionization Yield and Scintillation Pulse Shape from Nuclear Recoils in Liquid Argon.” *Phys. Rev. D* **91**, 092007 (2015).
5. L. Pagani, (C. Love) et al., “The DarkSide veto: muon and neutron detectors.” *Il Nuovo Cimento* **38 C** (2015).
4. P. Agnes, (C. Love) et al., “The Electronics and Data Acquisition System of the DarkSide Dark Matter Search.” arXiv:1412.2969 (2014).
3. T. Alexander, (C. Love) et al., “DarkSide search for dark matter”, *JINST*, **8**, pp. C11021 (2013).
2. T. Alexander, (C. Love) et al., “Observation of the Dependence of Scintillation from Nuclear Recoils in Liquid Argon on Drift Field.” *Phys. Rev. D* **88**, 092006 (2013).
1. D. Akimov, (C. Love) et al., “Light Yield in DarkSide-10: a Prototype Two-phase Liquid Argon TPC for Dark Matter Searches.” *Astroparticle Physics* **49**, pp. 44-51 (2013).