

Jordan A. Goodman
University of Maryland
goodman@umd.edu

Professional Positions

Academic Appointments at UMD

2015 - present	Distinguished University Professor, Univ. of Maryland
1990 – 2015	Professor of Physics, Univ. of Maryland
1985 - 1990	Associate Professor, Univ. of Maryland
1980 - 1985	Assistant Professor, Univ. of Maryland

Administrative Appointments at UMD

1999 – 2006	Chair, Department of Physics, Univ. of Maryland
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Education

PhD, University of Maryland, 1978.

MS, University of Maryland, 1975.

BS, University of Maryland, 1973.

Pos-Doc (Post-Doctoral Research). University of Maryland, College Park, United States. September 1978 - 1980.

Professional Memberships

Fellow American Association for the Advancement of Science. (July 2009 - Present).

Fellow American Physical Society. (July 1997 - Present).

Awards and Honors

Yodh Prize, International Union of Pure and Applied Physics (IUPAP). (July 2017).

The 2016 Breakthrough Prize in Fundamental Physics, The Breakthrough Institute. (November 2015).

Distinguished University Professor, University of Maryland. (July 2015).

Distinguished Alumni Award, Department of Physics. (May 2015).

Creative Educator Award, CMNS Board of Visitors. (2013).

Founding Fellow, Joint Space Institute (UM). (2010).

Malmstrom Lecture, Hamline University. (2010).

Atlantic Coast Conference Teaching Scholar. (2009).

Faculty Excellence in Teaching Award Lecture - CTE. (2009).

University of Maryland President's Medal. (2009).

Advancement of Science, Fellowship American Association. (June 2009).

CMPS Distinguish Alumni Award, University of Maryland. (2008).

Kirwan Prize, Undergraduate Education. (2004).

Fellowship UM Academy of Excellence in Teaching and Learning. (2002).

Richtmyer Lecture Prize, American Physical Society. (2001).

UMCP Distinguished Scholar-Teacher Award. (2000).

USM Regents Award for Excellence in Teaching. (2000).

Fellow, American Physical Society. (May 1997).

University of Maryland Presidential Award for Outstanding Service to the Schools, University of Maryland. (1994).

Publications

Journal Article

1. Albert, A, R Alfaro, C Alvarez, Camacho, JR Angeles, Arteaga-Vel'azquez, JC, KP Arunbabu, D Avila Rojas, et al., 2020, "Constraints on Lorentz Invariance Violation from HAWC Observations of Gamma Rays Above 100 TeV," *Physical Review Letters (APS)* **124**, 131101.
2. Albert, A., R. Alfaro, C. Alvarez, J. C. Arteaga-Velazquez, K. P. Arunbabu, Avila Rojas, D., Solares, H. A. Ayala, et al., 2020, "Constraints on the Emission of Gamma-Rays from M31 with HAWC," *ASTROPHYSICAL JOURNAL* **893**.
3. Albert, A., R. Alfaro, C. Alvarez, J. C. Arteaga-Velazquez, K. P. Arunbabu, Avila Rojas, D., Solares, H. A. Ayala, et al., 2020, "Search for Gamma-ray Spectral Lines from Dark Matter Annihilation in Dwarf Galaxies with the High-Altitude Water Cherenkov Observatory," *PHYSICAL REVIEW D* **101**.
4. Albert, A., R. Alfaro, C. Alvarez, J. C. Arteaga-Velazquez, K. P. Arunbabu, Avila Rojas, D., Solares, H. A. Ayala, et al., 2020, "Constraining the Local Burst Rate Density of Primordial Black Holes with HAWC," *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*.
5. Abeysekara, AU, A Albert, R Alfaro, Camacho, JR, Arteaga-Vel'azquez, JC, KP Arunbabu, D Avila Rojas, et al., 2020, "Multiple Galactic Sources with Emission Above 56 TeV Detected by HAWC," *Phys.Rev.Lett.* 124 (2020) no.2, 021102.
6. Abeysekara, AU, A Albert, R Alfaro, C Alvarez, Alvarez, JD, Camacho, JR Angeles, R Arceo, et al., 2019, "Measurement of the Crab Nebula Spectrum Past 100 TeV with HAWC," *The Astrophysical Journal (IOP Publishing)* **881**, 134.
7. Abeysekara, AU, A Albert, R Alfaro, C Alvarez, R Arceo, Arteaga-Vel'azquez, JC, D Avila Rojas, et al., 2019, "Searching for Dark Matter Sub-structure with HAWC," *Journal of Cosmology and Astroparticle Physics (IOP Publishing)* **2019**, 022.
8. Abeysekara, AU, R Alfaro, C Alvarez, R Arceo, Arteaga-Vel'azquez, JC, D Avila Rojas, E Belmont-Moreno, et al., 2019, "All-sky Measurement of the Anisotropy of Cosmic Rays at 10 TeV and Mapping of the Local Interstellar Magnetic Field," *The Astrophysical Journal (IOP Publishing)* **871**, 96.
9. Ahnen, Max Ludwig, S Ansoldi, LA Antonelli, C Arcaro, D Baack, Babi'c, A, B Banerjee, et al., 2019, "MAGIC and Fermi-LAT Gamma-ray Results on Unassociated HAWC Sources," *Monthly Notices of the Royal Astronomical Society (Oxford University Press)* **485**, 356--366.
10. Aartsen, MG, R Abbasi, M Ackermann, J Adams, JA Aguilar, M Ahlers, D Altmann, et al., 2019, "Erratum To: Search for Non-relativistic Magnetic Monopoles with IceCube," *The European Physical Journal C (Springer)* **79**, 124.
11. Aartsen, MG, R Abbasi, M Ackermann, J Adams, JA Aguilar, M Ahlers, D Altmann, et al., 2019, "Search for Non-relativistic Magnetic Monopoles with IceCube: IceCube Collaboration (vol 74, 2938, 2014)," *EUROPEAN PHYSICAL JOURNAL C (SPRINGER 233 SPRING ST, NEW YORK, NY 10013 USA)* **79**.
12. Albert, A, R Alfaro, C Alvarez, R Arceo, Arteaga-Vel'azquez, JC, D Avila Rojas, HA Ayala Solares, et al., 2018, "Constraints on Spin-dependent Dark Matter Scattering with Long-lived Mediators from TeV Observations of the Sun with HAWC," *Physical Review D (APS)* **98**, 123012.
13. Albert, A, R Alfaro, C Alvarez, R Arceo, Arteaga-Vel'azquez, JC, D Avila Rojas, HA Ayala Solares, et al., 2018, "First HAWC Observations of the Sun Constrain Steady TeV Gamma-ray Emission," *Physical Review D (American Physical Society)* **98**, 123011.

14. Albert, Alfaro, R Alfaro, C Alvarez, \Alvarez, JD, R Arceo, Arteaga-Vel'azquez, JC, D Avila Rojas, et al., 2018, "Dark Matter Limits from Dwarf Spheroidal Galaxies with the HAWC Gamma-ray Observatory," *The Astrophysical Journal* (IOP Publishing) **853**, 154.
15. Albert, Andrea, R Alfaro, C Alvarez, \Alvarez, JD, R Arceo, Arteaga-Vel'azquez, JC, D Avila Rojas, et al., 2018, "Search for Dark Matter Gamma-ray Emission from the Andromeda Galaxy with the High-Altitude Water Cherenkov Observatory," *Journal of Cosmology and Astroparticle Physics* (IOP Publishing) **2018**, 043.
16. Abeysekara, AU, A Albert, R Alfaro, C Alvarez, \Alvarez, JD, R Arceo, Arteaga-Vel'azquez, JC, et al., 2018, "Publisher Correction: Very-high-energy Particle Acceleration Powered by the Jets of the Microquasar SS 433," *Nature* (Nature Publishing Group) **564**, E38.
17. Abeysekara, AU, A Albert, R Alfaro, C Alvarez, \Alvarez, JD, R Arceo, Arteaga-Vel'azquez, JC, et al., 2018, "Very-high-energy Particle Acceleration Powered by the Jets of the Microquasar SS 433," *Nature* (Nature Publishing Group) **562**, 82.
18. Abeysekara, AU, A Albert, R Alfaro, C Alvarez, R Arceo, Arteaga-Vel'azquez, JC, D Avila Rojas, et al., 2018, "A Search for Dark Matter in the Galactic Halo with HAWC," *Journal of Cosmology and Astroparticle Physics* (IOP Publishing) **2018**, 049.
19. Abeysekara, AU, A Archer, W Benbow, R Bird, R Brose, M Buchovecky, JH Buckley, et al., 2018, "VERITAS and Fermi-LAT Observations of TeV Gamma-ray Sources Discovered by HAWC in the 2HWC Catalog," *The Astrophysical Journal* (IOP Publishing) **866**, 24.
20. Abeysekara, AU, R Alfaro, C Alvarez, \Alvarez, JD, R Arceo, Arteaga-Vel'azquez, JC, HA Ayala Solares, et al., 2018, "Data Acquisition Architecture and Online Processing System for the HAWC Gamma-ray Observatory," *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment* (Elsevier) **888**, 138--146.
21. Abeysekara, AU, R Alfaro, C Alvarez, JD Alvarez, R Arceo, Arteaga-Vel'azquez, JC, D Avila Rojas, et al., 2018, "Observation of Anisotropy of TeV Cosmic Rays with Two Years of HAWC," *The Astrophysical Journal* (IOP Publishing) **865**, 57.
22. Collaboartion, HAWC, AU Abeysekara, A Albert, R Alfaro, C Alvarez, R Arceo, Arteaga-Vel'azquez, JC, et al., 2018, "Constraining the P-/p Ratio in TeV Cosmic Rays with Observations of the Moon Shadow by HAWC," *Physical Review D* (American Physical Society) **97**.
23. Collaboartion, HAWC, AU Abeysekara, AM Albert, R Alfaro, C Alvarez, \Alvarez, JD, R Arceo, et al., 2018, "A Search for Dark Matter in the Galactic Halo with HAWC," *Journal of Cosmology and Astroparticle Physics* (Institute of Physics Pub.) **2018**.
24. Abeysekara, AU, A Albert, R Alfaro, C Alvarez, \Alvarez, JD, R Arceo, Arteaga-Vel'azquez, JC, et al., 2017, "Daily Monitoring of TeV Gamma-ray Emission from Mrk 421, Mrk 501, and the Crab Nebula with HAWC," *The Astrophysical Journal* (IOP Publishing) **841**, 100.
25. Abeysekara, AU, A Albert, R Alfaro, C Alvarez, \Alvarez, JD, R Arceo, Arteaga-Vel'azquez, JC, et al., 2017, "Extended Gamma-ray Sources Around Pulsars Constrain the Origin of the Positron Flux at Earth," *Science* (American Association for the Advancement of Science) **358**, 911--914.
26. Abeysekara, AU, A Albert, R Alfaro, C Alvarez, \Alvarez, JD, R Arceo, Arteaga-Vel'azquez, JC, et al., 2017, "The 2HWC HAWC Observatory Gamma-ray Catalog," *The Astrophysical Journal* (IOP Publishing) **843**, 40.
27. Abeysekara, AU, A Albert, R Alfaro, C Alvarez, \Alvarez, JD, R Arceo, Arteaga-Vel'azquez, JC, et al., 2017, "Observation of the Crab Nebula with the HAWC Gamma-ray Observatory," *The Astrophysical Journal* (IOP Publishing) **843**, 39.
28. Abeysekara, AU, A Albert, R Alfaro, C Alvarez, \Alvarez, JD, R Arceo, Arteaga-Vel'azquez, JC, et al., 2017, "Search for Very High Energy Gamma Rays from the Northern Fermi Bubble Region with HAWC," arXiv preprint arXiv:1703.01344.
29. Abeysekara, AU, R Alfaro, C Alvarez, \Alvarez, JD, R Arceo, Arteaga-Vel'azquez, JC, D Avila Rojas, et al., 2017, "The HAWC Real-time Flare Monitor for Rapid Detection of Transient Events," *The Astrophysical Journal* (IOP Publishing) **843**, 116.

30. Abbott, B. P., R. Abbott, T. D. Abbott, F. Acernese, K. Ackley, C. Adams, T. Adams, et al., 2017, "Multi-messenger Observations of a Binary Neutron Star Merger," *ASTROPHYSICAL JOURNAL LETTERS* **848**.
31. BAUGHMAN, BM, J BRAUN, JA GOODMAN, A IMRAN, B PATRICELLI, and J PRETZ, 2017, "HAWC Observations of the Crab Nebula," *The Sensitivity of HAWC to Steady and Transient Sources of Gamma Rays: Contributions to ICRC 2013*, 25.
32. Collaboration, HAWC, AU Abeysekara, R Alfaro, C Alvarez, \Alvarez, JD, R Arceo, Arteaga-Vel'azquez, JC, et al., 2017, "The HAWC Gamma-Ray Observatory: Design, Calibration, and Operation."
33. GOODMAN, JORDAN, and JOHN PRETZ, 2017, "Sensitivity and Status of HAWC," *The Sensitivity of HAWC to Steady and Transient Sources of Gamma Rays: Contributions to ICRC 2013* **20000**, 9.
34. Aartsen, MG, M Ackermann, J Adams, JA Aguilar, Markus Ahlers, M Ahrens, I Al Samarai, et al., 2017, "Multiwavelength Follow-up of a Rare IceCube Neutrino Multiplet," *Astronomy & astrophysics (EDP Sciences)* **607**, A115.
35. Alfaro, R, C Alvarez, \Alvarez, JD, R Arceo, Arteaga-Vel'azquez, JC, D Avila Rojas, HA Ayala Solares, et al., 2017, "All-particle Cosmic Ray Energy Spectrum Measured by the HAWC Experiment from 10 to 500 TeV," *Physical Review D (American Physical Society)* **96**, 122001.
36. Alfaro, R, C Alvarez, \Alvarez, JD, R Arceo, Arteaga-Vel'azquez, JC, D Avila Rojas, HA Ayala Solares, et al., 2017, "Search for Very-high-energy Emission from Gamma-Ray Bursts Using the First 18 Months of Data from the HAWC Gamma-Ray Observatory," *The Astrophysical Journal (IOP Publishing)* **843**, 88.
37. Marinelli, Samuel Stephens, and Jordan Goodman, 2017, "Measuring High-Energy Spectra with HAWC," arXiv preprint arXiv:1708.03502.
38. Abeysekara, AU, R Alfaro, C Alvarez, JD Alvarez, R Arceo, Arteaga-Vel'azquez, JC, HA Ayala Solares, et al., 2016, "Search for TeV Gamma-Ray Emission from Point-like Sources in the Inner Galactic Plane with a Partial Configuration of the HAWC Observatory," *The Astrophysical Journal (IOP Publishing)* **817**, 3.
39. Abdo, AA, AU Abeysekara, R Alfaro, BT Allen, C Alvarez, \Alvarez, JD, R Arceo, et al., 2015, "Milagro Limits and HAWC Sensitivity for the Rate-density of Evaporating Primordial Black Holes," *Astroparticle Physics (North-Holland)* **64**, 4--12.
40. Abeysekara, AU, R Alfaro, C Alvarez, \Alvarez, JD, \Angeles, F, R Arceo, Arteaga-Vel'azquez, JC, et al., 2015, "VAMOS: A Pathfinder for the HAWC Gamma-ray Observatory," *Astroparticle Physics (Elsevier)* **62**, 125--133.
41. Abeysekara, AU, R Alfaro, C Alvarez, \Alvarez, JD, R Arceo, Arteaga-Vel'azquez, JC, HA Ayala Solares, et al., 2015, "Search for Gamma-rays from the Unusually Bright GRB 130427A with the HAWC Gamma-ray Observatory," *The Astrophysical Journal (IOP Publishing)* **800**, 78.
42. Aartsen, M. G., K. Abraham, M. Ackermann, J. Adams, J. A. Aguilar, M. Ahlers, M. Ahrens, et al., 2015, "Evidence for Astrophysical Muon Neutrinos from the Northern Sky with IceCube," *PHYSICAL REVIEW LETTERS* **115**.
43. Aartsen, M. G., M. Ackermann, J. Adams, J. A. Aguilar, M. Ahlers, M. Ahrens, D. Altmann, et al., 2015, "Searches for Small-scale Anisotropies from Neutrino Point Sources with Three Years of IceCube Data," *ASTROPARTICLE PHYSICS* **66**, 39-52.
44. Aartsen, M. G., M. Ackermann, J. Adams, J. A. Aguilar, M. Ahlers, M. Ahrens, D. Altmann, et al., 2015, "Flavor Ratio of Astrophysical Neutrinos Above 35 TeV in IceCube," *PHYSICAL REVIEW LETTERS* **114**.
45. Aartsen, M. G., M. Ackermann, J. Adams, J. A. Aguilar, M. Ahlers, M. Ahrens, D. Altmann, et al., 2015, "Determining Neutrino Oscillation Parameters from Atmospheric Muon Neutrino Disappearance with Three Years of IceCube DeepCore Data," *PHYSICAL REVIEW D* **91**.
46. Aartsen, M. G., M. Ackermann, J. Adams, J. A. Aguilar, M. Ahlers, M. Ahrens, D. Altmann, et al., 2015, "SEARCH for PROMPT NEUTRINO EMISSION from GAMMA-RAY BURSTS with ICECUBE," *ASTROPHYSICAL JOURNAL LETTERS* **805**.
47. Aartsen, M. G., M. Ackermann, J. Adams, J. A. Aguilar, M. Ahlers, M. Ahrens, D. Altmann, et al., 2015, "Measurement of the Atmospheric Nu(e) Spectrum with IceCube," *PHYSICAL REVIEW D* **91**.

48. Aartsen, Mark G, R Abbasi, Markus Ackermann, Jenni Adams, Juan Antonio Aguilar, Markus Ahlers, David Altmann, et al., 2015, "The IceProd Framework: Distributed Data Processing for the IceCube Neutrino Observatory," *Journal of parallel and distributed computing* (Elsevier) **75**, 198--211.
49. Aartsen, MG, K Abraham, M Ackermann, J Adams, JA Aguilar, M Ahlers, M Ahrens, et al., 2015, "Evidence for Astrophysical Muon Neutrinos from the Northern Sky with IceCube," *Physical review letters* (American Physical Society) **115**, 081102.
50. Aartsen, MG, K Abraham, M Ackermann, J Adams, Juan A Aguilar, M Ahlers, M Ahrens, et al., 2015, "A Combined Maximum-likelihood Analysis of the High-energy Astrophysical Neutrino Flux Measured with IceCube," *The Astrophysical Journal* (IOP Publishing) **809**, 98.
51. Aartsen, MG, M Ackermann, J Adams, JA Aguilar, M Ahlers, M Ahrens, D Altmann, et al., 2015, "Atmospheric and Astrophysical Neutrinos Above 1 TeV Interacting in IceCube," *Physical Review D* (APS) **91**, 022001.
52. Aartsen, MG, M Ackermann, J Adams, JA Aguilar, M Ahlers, M Ahrens, D Altmann, et al., 2015, "Development of a General Analysis and Unfolding Scheme and Its Application to Measure the Energy Spectrum of Atmospheric Neutrinos with IceCube," *The European Physical Journal C* (Springer) **75**, 116.
53. Aartsen, MG, M Ackermann, J Adams, JA Aguilar, M Ahlers, M Ahrens, D Altmann, et al., 2015, "Flavor Ratio of Astrophysical Neutrinos Above 35 TeV in IceCube," *Physical review letters* (American Physical Society) **114**, 171102.
54. Aartsen, MG, M Ackermann, J Adams, JA Aguilar, M Ahlers, M Ahrens, D Altmann, et al., 2015, "Multipole Analysis of IceCube Data to Search for Dark Matter Accumulated in the Galactic Halo," *The European Physical Journal C* (Springer Berlin Heidelberg) **75**, 20.
55. Aartsen, MG, M Ackermann, J Adams, JA Aguilar, M Ahlers, M Ahrens, D Altmann, et al., 2015, "Search for Prompt Neutrino Emission from Gamma-ray Bursts with IceCube," *The Astrophysical Journal Letters* (IOP Publishing) **805**, L5.
56. Aartsen, MG, M Ackermann, J Adams, JA Aguilar, M Ahlers, M Ahrens, D Altmann, et al., 2015, "Measurement of the Atmospheric ν E Spectrum with IceCube," *Physical Review D* (American Physical Society) **91**, 122004.
57. Aartsen, MG, M Ackermann, J Adams, JA Aguilar, M Ahlers, M Ahrens, D Altmann, et al., 2015, "Searches for Time-dependent Neutrino Sources with Icecube Data from 2008 to 2012," *The Astrophysical Journal* (IOP Publishing) **807**, 46.
58. Aartsen, MG, M Ackermann, J Adams, JA Aguilar, M Ahlers, Maryon Ahrens, D Altmann, et al., 2015, "Determining Neutrino Oscillation Parameters from Atmospheric Muon Neutrino Disappearance with Three Years of IceCube DeepCore Data," *Physical Review D* (American Physical Society) **91**, 072004.
59. Abdo, AA, AU Abeysekara, BT Allen, T Aune, AS Barber, D Berley, J Braun, et al., 2014, "The Study of TeV Variability and the Duty Cycle of Mrk 421 from 3 Yr of Observations with the Milagro Observatory," *The Astrophysical Journal* (IOP Publishing) **782**, 110.
60. Abdo, AA, AU Abeysekara, BT Allen, T Aune, AS Barber, D Berley, J Braun, et al., 2014, "Milagro Observations of Potential TeV Emitters," *Astroparticle Physics* (Elsevier) **57**, 16--25.
61. Abeysekara, AU, R Alfaro, C Alvarez, \Alvarez, JD, R Arceo, Arteaga-Vel\azquez, JC, HA Ayala Solares, et al., 2014, "Observation of Small-scale Anisotropy in the Arrival Direction Distribution of TeV Cosmic Rays with HAWC," *The Astrophysical Journal* (IOP Publishing) **796**, 108.
62. Abeysekara, AU, R Alfaro, C Alvarez, \Alvarez, JD, R Arceo, Arteaga-Vel\azquez, JC, HA Ayala Solares, et al., 2014, "Sensitivity of HAWC to High-mass Dark Matter Annihilations," *Physical Review D* (APS) **90**, 122002.
63. Collaboration, I, MG Aartsen, R Abbasi, Y Abdou, M Ackermann, J Adams, JA Aguilar, et al., 2014, "The IceCube Neutrino Observatory Part V: Neutrino Oscillations and Supernova Searches."
64. Aartsen, MG, M Ackermann, J Adams, JA Aguilar, M Ahlers, M Ahrens, D Altmann, et al., 2014, "Observation of High-energy Astrophysical Neutrinos in Three Years of IceCube Data," *Physical review letters* (American Physical Society) **113**, 101101.

65. Aartsen, MG, M Ackermann, J Adams, JA Aguilar, M Ahlers, M Ahrens, D Altmann, et al., 2014, "Searches for Extended and Point-like Neutrino Sources with Four Years of IceCube Data," *The Astrophysical Journal* (IOP Publishing) **796**, 109.
66. Aartsen, MG, M Ackermann, J Adams, JA Aguilar, M Ahlers, M Ahrens, D Altmann, et al., 2014, "IceCube-Gen2: A Vision for the Future of Neutrino Astronomy in Antarctica," arXiv preprint arXiv:1412.5106.
67. Aartsen, MG, Markus Ackermann, J Adams, JA Aguilar, M Ahlers, M Ahrens, D Altmann, et al., 2014, "Multimessenger Search for Sources of Gravitational Waves and High-energy Neutrinos: Initial Results for LIGO-Virgo and IceCube," *Physical Review D* (American Physical Society) **90**, 102002.
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69. Aartsen, MG, R Abbasi, M Ackermann, J Adams, JA Aguilar, M Ahlers, D Altmann, et al., 2014, "Search for Non-relativistic Magnetic Monopoles with IceCube," *The European Physical Journal C* (Springer Berlin Heidelberg) **74**, 2938.
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71. Abbasi, R, Y Abdou, T Abu-Zayyad, M Ackermann, J Adams, JA Aguilar, M Ahlers, et al., 2014, "IceCube Sensitivity for Low-energy Neutrinos from Nearby Supernovae (Corrigendum)," *Astronomy & Astrophysics* (EDP Sciences) **563**, C1.
72. Abeyssekara, AU, R Alfaro, C Alvarez, \Alvarez, JD, R Arceo, Arteaga-Vel\azquez, JC, HA Ayala Solares, et al., 2013, "Sensitivity of the High Altitude Water Cherenkov Detector to Sources of Multi-TeV Gamma Rays," *Astroparticle Physics* (Elsevier) **50**, 26--32.
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75. Collaboration, I, MG Aartsen, R Abbasi, Y Abdou, M Ackermann, J Adams, JA Aguilar, et al., 2013, "The IceCube Neutrino Observatory Part IV: Searches for Dark Matter and Exotic Particles."
76. Aartsen, M. G., R. Abbasi, Y. Abdou, M. Ackermann, J. Adams, J. A. Aguilar, M. Ahlers, et al., 2013, "Measurement of Atmospheric Neutrino Oscillations with IceCube," *PHYSICAL REVIEW LETTERS* **111**.
77. Aartsen, M. G., R. Abbasi, Y. Abdou, M. Ackermann, J. Adams, J. A. Aguitar, M. Alders, et al., 2013, "Evidence for High-Energy Extraterrestrial Neutrinos at the IceCube Detector," *SCIENCE* **342**, 947-+.
78. Aartsen, MG, R Abbasi, M Ackermann, J Adams, JA Aguilar, M Ahlers, D Altmann, et al., 2013, "Probing the Origin of Cosmic Rays with Extremely High Energy Neutrinos Using the IceCube Observatory," *Physical Review D* (American Physical Society) **88**, 112008.
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80. Aartsen, MG, R Abbasi, Yasser Abdou, M Ackermann, J Adams, JA Aguilar, M Ahlers, et al., 2013, "First Observation of PeV-energy Neutrinos with IceCube," *Physical review letters* (American Physical Society) **111**, 021103.
81. Aartsen, MG, R Abbasi, Yasser Abdou, M Ackermann, J Adams, JA Aguilar, M Ahlers, et al., 2013, "Measurement of the Atmospheric ν E Flux in IceCube," *Physical review letters* (American Physical Society) **110**, 151105.

82. Aartsen, MG, R Abbasi, Yasser Abdou, M Ackermann, J Adams, JA Aguilar, M Ahlers, et al., 2013, "South Pole Glacial Climate Reconstruction from Multi-borehole Laser Particulate Stratigraphy," *Journal of Glaciology* **59**, 1117--1128.
83. Aartsen, MG, R Abbasi, Yasser Abdou, M Ackermann, J Adams, JA Aguilar, M Ahlers, et al., 2013, "Observation of Cosmic-ray Anisotropy with the IceTop Air Shower Array," *The Astrophysical Journal (IOP Publishing)* **765**, 55.
84. Aartsen, MG, R Abbasi, Yasser Abdou, M Ackermann, J Adams, JA Aguilar, M Ahlers, et al., 2013, "Search for Galactic PeV Gamma Rays with the IceCube Neutrino Observatory," *Physical Review D (American Physical Society)* **87**, 062002.
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407. Abbasi, R, N van Eijndhoven, K Meagher, S Sarkar, J Blumenthal, J Posselt, J Daughhetee, et al., 2011, *IceCube-Astrophysics and Astroparticle Physics at the South Pole*.
408. Abdo, AA, B Allen, D Berley, E Blaufuss, S Casanova, C Chen, DG Coyne, et al., 2006, *Discovery of TeV Gamma-Ray Emission from the Cygnus Region* (Stanford Linear Accelerator Center (SLAC)).
409. Dios-Zornoza-Gomez, De, KD Hoffman, A Van Overloop, D'iaz-Vel'ez, JC, Pe'na-Garay, C, A Gross, T De Young, et al., 2006, *High-energy Gallas from the Giant Flare of SGR-1806-20 of Dec 2004 in AMANDA*.
410. Resconi, E, KD Hoffman, A Van Overloop, D'iaz-Vel'ez, JC, Pe'na-Garay, C, A Gross, T De Young, et al., 2006, *IceCube: Multiwavelength Search for Neutrinos from Transient Point Sources*.
411. Gaisser, TK, KD Hoffman, A Van Overloop, D'iaz-Vel'ez, JC, Pe'na-Garay, C, A Gross, T De Young, et al., 2006, *Air Showers in a Three-dimensional Array: Recent Data from IceCube/IceTop*.
412. Achterberg, A, AC Pohl, K Rawlins, Elisa Bernardini, JW Nam, G Yodh, P Berghaus, et al., 2005, *The Icecube Collaboration: Contributions to the 29th International Cosmic Ray Conference (icrc 2005), Pune, India, Aug. 2005*.
413. Gross, A, KD Hoffman, Pe'na-Garay, C, M Krasberg, SW Barwick, GC Hill, K Rawlins, et al., 2005, *A Source Stacking Analysis of AGN as Neutrino Point Source Candidates with AMANDA* (astro-ph/0509330).
414. Silvestri, A, KD Hoffman, Pe'na-Garay, C, M Krasberg, SW Barwick, GC Hill, K Rawlins, et al., 2005, *Performance of Amanda-ii Using Transient Waveform Recorders* (astro-ph/0509330).
415. Chirkin, D, KD Hoffman, Pe'na-Garay, C, M Krasberg, SW Barwick, GC Hill, K Rawlins, et al., 2005, *IceCube: Initial Performance* (astro-ph/0509330).
416. Hubert, Daan, KD Hoffman, Pe'na-Garay, C, M Krasberg, SW Barwick, P'erez de los Heros, C, K Rawlins, et al., 2005, *Search for Neutralino Dark Matter with the AMANDA Neutrino Detector* (astro-ph/0509330).
417. Miyamoto, Hiroko, KD Hoffman, Pe'na-Garay, C, M Krasberg, SW Barwick, GC Hill, K Rawlins, et al., 2005, *Calibration and Characterization of Photomultiplier Tubes of the IceCube Neutrino Detector* (astro-ph/0509330).
418. Hodges, J, KD Hoffman, Pe'na-Garay, C, M Krasberg, SW Barwick, GC Hill, K Rawlins, et al., 2005, *Search for Diffuse Flux of Extraterrestrial Muon Neutrinos Using AMANDA-II Data from 2000 to 2003* (astro-ph/0509330).
419. Muenich, K, KD Hoffman, Pe'na-Garay, C, M Krasberg, SW Barwick, GC Hill, K Rawlins, et al., 2005, *Search for a Diffuse Flux of Non-terrestrial Muon Neutrinos with the AMANDA Detector* (astro-ph/0509330).
420. Gerhardt, L, KD Hoffman, Pe'na-Garay, C, M Krasberg, SW Barwick, GC Hill, K Rawlins, et al., 2005, *Sensitivity of AMANDA-II to UHE Neutrinos*.

421. Ackermann, M, KD Hoffman, Peñna-Garay, C, M Krasberg, SW Barwick, GC Hill, K Rawlins, et al., 2005, *An Investigation of Seasonal Variations in the Atmospheric Neutrino Rate with the AMANDA-II Neutrino Telescope* (astro-ph/0509330).
422. Ackermann, M, KD Hoffman, Peñna-Garay, C, M Krasberg, SW Barwick, GC Hill, K Rawlins, et al., 2005, *Multiwavelength Comparison of Selected Neutrino Point Source Candidates* (astro-ph/0509330).
423. Ackermann, M, KD Hoffman, Peñna-Garay, C, M Krasberg, SW Barwick, GC Hill, K Rawlins, et al., 2005, *Search for High Energy Neutrino Point Sources in the Northern Hemisphere with the AMANDA-II Neutrino Telescope* (astro-ph/0509330).
424. Parkinson, PM Saz, DE Dorfan, E Blaufuss, G Sinnis, R Fleysler, GW Sullivan, RS Miller, et al., 2005, *Detection of TeV Gamma-Rays from Extended Sources with Milagro*.
425. Messarius, T, KD Hoffman, Peñna-Garay, C, M Krasberg, SW Barwick, GC Hill, K Rawlins, et al., 2005, *A Software Trigger for the AMANDA Neutrino Detector* (astro-ph/0509330).
426. Gaisser, TK, KD Hoffman, Peñna-Garay, C, M Krasberg, SW Barwick, GC Hill, K Rawlins, et al., 2005, *Air Showers with IceCube: First Engineering Data* (astro-ph/0509330).
427. Trilling, George H, R Field, S Kobayashi, CW Einolf, HM Spinka, RL Talaga, BA Barnett, et al., 1992, *Technical Design of a Detector (Solenoidal Detector) April 1, 1992 to Be Operated at the Superconducting Super Collider*.
428. Alexandreas, DE, S Biller, GM Dion, XQ Lu, GB Yodh, D Berley, CY Chang, et al., 1991, *CYGNUS Collaboration Contributions to the Twenty-second ICRC* (Los Alamos National Lab., NM (United States)).
429. Amos, N, Martin M Block, WF Baker, JP Negret, Gómez, B, CM Guss, I Veronesi, et al., 1991, *Elastic p p Scattering At $\sqrt{S} = 1.8$ TeV*.
430. Adams, A, R Steinberg, G Sembroski, AE Chudakov, M Cherry, W Kropp, A Rollefson, et al., 1990, *Proposal to Construct the First Stage of the GRANDE Facility for the Study of Astrophysical Sources and High-energy Particle Interactions*.
431. Adams, A, R Steinberg, G Sembroski, AE Chudakov, M Cherry, W Kropp, RJ Wilkes, et al., 1990, *Expression of Interest in a Very Long Baseline Neutrino Oscillation Experiment*.
432. Alexandreas, DE, RC Allen, SD Biller, GM Dion, XQ Lu, PR Vishwanath, GB Yodh, et al., 1990, *Astronomy at Ultra-high Energies: Results from the CYGNUS Experiment* (Los Alamos National Lab., NM (USA)).
433. Trilling, George H, R Field, S Kobayashi, CW Einolf, HM Spinka, RL Talaga, BA Barnett, et al., 1990, *Letter of Intent by the Solenoidal Detector Collaboration to Construct and Operate a Detector at the Superconducting Super Collider*.
434. Trilling, George H, R Field, S Kobayashi, R Kadyrov, HM Spinka, RL Talaga, BA Barnett, et al., 1990, *Expression of Interest by the Solenoidal Detector Collaboration to Construct and Operate a Detector at the Superconducting Super Collider*.
435. Burman, RL, CM Hoffman, DE Nagle, ME Potter, V Sandberg, D Berley, BL Dingus, et al., 1990, *A Low Threshold EAS (extensive-air-shower) Array for Gamma-ray Astronomy at Los Alamos* (Los Alamos National Lab., NM (USA)).
436. Berley, D, CY Chang, BL Dingus, JA Goodman, TJ Haines, M Stark, RL Burman, et al., 1989, *Status of the Expansion of the CYGNUS Array at Los Alamos* (Los Alamos National Lab., NM (USA)).
437. Alexandreas, DE, RC Allen, S Biller, G Dion, XQ Lu, PR Vishwanath, GB Yodh, et al., 1989, *Relative Muon Content of UHE Showers Associated with Hercules X-1* (Los Alamos National Lab., NM (USA)).
438. Haines, Todd J, D Berley, CY Chang, BL Dingus, JA Goodman, M Stark, RL Burman, et al., 1989, *The Status of CYGNUS Experiment: Past, Present, and Future* (Los Alamos National Lab., NM (USA)).
439. Bratton, C, R Steinberg, G Sembroski, M Cherry, A Szentgyorgyi, W Kropp, J Learned, et al., 1988, *Proposal to Construct the GRANDE Facility for the Study of Astrophysical Sources and High-energy Particle Interactions*.

440. Amos, N, Martin M Block, WF Baker, JP Negret, A Manarin, CM Guss, DA Dimitroyannis, et al., 1988, *Measurement of B , the Nuclear Slope Parameter of the P Elastic Scattering Distribution At $\sqrt{S} = 1800$ GeV.*
441. Haines, Todd, A Adams, R Bond, CB Bratton, V Chaloupka, M Cherry, L Coleman, R Ellsworth, J Gaidos, and J Goodman, 1988, *A Novel Approach to Gamma-ray and Neutrino Astro-particle Physics: The GRANDE Experiment* (Los Alamos National Lab., NM (USA)).
442. Goodman, MC, GB Ellsworth, J Bofill, D Bogert, H Freudenreich, JA Goodman, W Buzza, T Eldridge, M Abolins, and SC Gupta, 1987, *A Measurement of the Hadronic Component of Air Showers in a Fine Grained Calorimeter* (Argonne National Lab., IL (USA); George Mason Univ., Fairfax, VA (USA)~...).
443. Gabriel, TA, BL Bishop, AI Mincer, HT Freudenreich, JA Goodman, SC Tonwar, GB Yodh, D Berley, and RW Ellsworth, 1985, *Monte Carlo Simulation of the Response of a Hadronic Calorimeter to Protons of Momentum 3.5 to 200 GeV/c* (Oak Ridge National Lab.).
444. Yodh, GB, RG Glasser, JA Goodman, S Gupta, and RW Ellsworth, 1984, *Study of Hadron-hadron Collisions at High E /sub T and/or High Mass Di-muon Production in Open Geometry at 800 GeV/c.*
445. Haggerty, H, C Halliwell, S Margulies, R Heinz, John R Albright, R Crittenden, B Brabson, et al., 1981, *A Study of Hadronic Final States Produced in Association with High PT Jets and High-mass Dimuons.*
446. Ellsworth, RW, J Goodman, A Ito, J MacFall, F Siohan, RE Streitmatter, SC Tonwar, and GB Yodh, 1975, *Particle Albedo from Hadrons of 100 to 1000 GeV Interacting in a Calorimeter.*

Presentations

- Goodman, J., High Energy Physics Seminar, "Recent Results from the HAWC Gamma Ray Observatory," Stony Brook University, Stony Brook, NY, United States. (March 2020).
- Goodman, J., SWGO Workshop, "Recent Results from the HAWC Gamma Ray Observatory," University of Lisbon, Lisbon, Portugal. (May 2019).
- Goodman, J., Space Sciences Colloquium, "Recent Results from the HAWC Gamma Ray Observatory," University of Maryland, College Park, MD, United States. (April 2019).
- Goodman, J., COSPAR Meeting, "Recent Results from the HAWC Gamma Ray Observatory," COSPAR, Pasadena Civiv Center, Pasadena, CA, United States. (June 2018).
- Goodman, J., Pacific 2018, "A New Look at the TeV Sky with the HAWC Gamma Ray Observatory," UCLA/ University of Tokyo, Hokkaido, Japan. (February 2018).
- Goodman, J., Yodh Prize Lecture, "A New Look at the TeV Sky with the HAWC Gamma Ray Observatory," University of California, Irvine, UCI, Irvine, CA, United States. (January 2018).
- Goodman, J., Space Sciences Colloquium, "A New Look at the TeV Sky with the HAWC Gamma Ray Observatory," University of Maryland, College Park, MD, United States. (October 2017).
- Goodman, J., "Multi-Messenger Astronomy," University of Guadalajara, Guadalajara Opera House, Guadalajara, Mexico. (October 2017).
- Goodman, J., "Physics 105
Physics for Decision Makers: The Global Energy Crisis," NIST, NIST Gaithersburg, Gaithersburg, MD, United States. (June 2017).
- Goodman, J., VERITAS 10-year Celebration, "The HAWC Gamma Ray Observatory," VERITAS Collaboration, Tuscon, AZ, United States. (June 2017).
- Goodman, J., APS Seniors, "A New Look at the TeV Sky with the HAWC Gamma Ray Observatory," APS, APS Physics Center, College Park, MD, United States. (February 2017).
- Goodman, J., Astronomy Colloquium, "A New Look at the TeV Sky with the HAWC Gamma Ray Observatory," University of Maryland, College Park, MD, United States. (October 2016).
- Goodman, J., "Multi-Messenger Astronomy," Riderwood Community, Riderwood Community Theater, Silver Spring, MD, United States. (October 2016).
- Goodman, J., Aspen Winter Physics Conference, "HAWC Status and UHE Cosmic Rays." (January 2016).

Goodman, J., Brown University Colloquium, "Status and Results from the HAWC Gamma Ray Observatory." (November 2015).

Goodman, J., Aachen University Colloquium, "Status and Results from the HAWC Gamma Ray Observatory." (June 2015).

Goodman, J., Carnegie Mellon University/Pitt Colloquium, "Status and Results from the HAWC Gamma Ray Observatory." (April 2015).

Goodman, J., The HAWC Inaugural Symposium, "Status and Results from the HAWC Gamma Ray Observatory." (March 2015).

Goodman, J., 2014 ISGRA in Erice, "Cosmic Ray Anisotropy at TeV Energies." (July 2014).

Goodman, J., Air Shower Detection at High Altitude, "Physics with HAWC." (May 2014).

Goodman, J., IPA Symposium, "First Light in HAWC." (May 2013).

Goodman, J., Centenary Symposium 2012: Discovery of Cosmic Rays, "The HAWC Gamma-Ray Observatory." (June 2012).

Goodman, J., Joint Space-Sciences Mini-Symposium, "Cosmic Rays, from Galactic to Ultra High Energy; What Do We Know About Their Sources?." (April 2012).

Goodman, J., University of Delaware Colloquium, "Our Changing View of the TeV Sky." (February 2012).

Goodman, J., Astrophysical Multimessenger Observatory Network – Inaugural Workshop, "The HAWC Observatory." (October 2011).

Goodman, J., University of Maryland President's Tailgate, "Neutrino Astronomy in 7 Minutes." (September 2011).

Goodman, J., Seminar Shanghai Jiao Tong University, "Our Changing View of the TeV Sky." (August 2011).

Goodman, J., Guillermo Haro Workshop, "Cosmic Ray Anisotropy at TeV Energies." (July 2011).

Goodman, J., Goddard – Maryland Interaction Day, "The Status of HAWC." (June 2011).

Goodman, J., University of Maryland Alumni Board of Governors, "Neutrino Astronomy at the South Pole." (May 2011).

Goodman, J., Marquee Public Lecture, "The Future of Global Energy and Climate." (April 2011).

Goodman, J., SnowPAC Conference on High Energy Astrophysics Snowbird, "AGN with HAWC." (February 2011).

Goodman, J., "Gamma-Ray Astronomy with Milagro and HAWC." (October 2010).

Goodman, J., "Neutrino Astronomy at the South Pole." (October 2010).

Goodman, J., XVI International Symposium on Very High Energy Cosmic Ray Interactions (ISVHECRI 2010), "Cosmic Ray Anisotropy at TeV Energies." (June 2010).

Goodman, J., Malmstrom Lecture – Hamline University, "Neutrino Astronomy at the South Pole." (May 2010).

Goodman, J., Snowpac Conference on High Energy Astrophysics Snowbird, "Galactic Sources with Milagro and HAWC." (March 2010).

Goodman, J., Defense Intelligence Agency, "Neutrino Astronomy with IceCube." (December 2009).

Goodman, J., ACC Teaching Scholar Presentation, "Marquee Science Courses." (November 2009).

Goodman, J., "Recent Results from Milagro and the Future wit HAWC." (November 2009).

Goodman, J., 31st International Cosmic Ray Conference, "Recent Results from Milagro." (July 2009).

Goodman, J., Public Lecture - Neutrino Astronomy at the South Pole. (April 2009).

Goodman, J., Seminar - Neutrino Astronomy at the South Pole. (April 2009).

Goodman, J., CTE Faculty Excellence in Teaching Lecture, "Marquee Science Courses – A Successful Example of Cross-Disciplinary Course Development." (March 2009).

Goodman, J., "Recent Results from Milagro." (February 2009).

Goodman, J., Karlsruhe Laboratory, "Recent Results from Milagro." (February 2009).

Goodman, J., 4th Heidelberg International Symposium on High Energy Gamma-Ray Astronomy, "Physics with HAWC." (July 2008).

Goodman, J., Naval Research Laboratory, "Neutrino Astrophysics with IceCube." (April 2008).

Goodman, J., April APS Meeting, "TeV Cosmic Ray and Gamma Ray Astrophysics." (April 2008).

Goodman, J., Symposium on Neutrino Physics and Neutrino Cosmology, "Neutrino Astrophysics with IceCube." (January 2007).

Goodman, J., 12th Mexican School on Particles and Fields and 6th Latin American Symposium on High Energy Physics (VI-Silafae/XII-MSPF), "Recent results from Milagro." (November 2006).

Goodman, J., 2nd Workshop on TeV Particle Astrophysics, "Study of galactic gamma ray sources with Milagro." (August 2006).

Goodman, J., Ettore Majorana Centre, "Astrophysics at Ultra-high Energies." (June 2006).

Goodman, J., Workshop on Future PRC-U.S. Cooperation in High Energy Physics, "MiniHAWC – A New Detector for Gamma-Ray Astronomy." (June 2006).

Goodman, J., MEPHI-Volga Summer School, "Neutrino Astrophysics with IceCube." (May 2006).

Goodman, J., Maryland Day, "150 Years of Physics." (April 2006).

Goodman, J., "Neutrino Astronomy." (April 2006).

Goodman, J., "MiniHAWC – A New Detector for Gamma-Ray Astronomy." (January 2006).

Goodman, J., "MiniHAWC – A New Detector for Gamma-Ray Astronomy." (January 2006).

Goodman, J., "MiniHAWC – A New Detector for Gamma-Ray Astronomy." (January 2006).

Goodman, J., 29th International Cosmic Ray Conference, "Recent Results from MILAGRO." (August 2005).

Goodman, J., "Neutrinos, Dark Matter and the Cosmological Constant - The Dark Side of the Universe." (May 2005).

Goodman, J., "Neutrinos, Dark Matter and the Cosmological Constant - The Dark Side of the Universe." (April 2005).

Goodman, J., Recontre de Moriond - La Theile, "Neutrino Astronomy." (March 2005).

Goodman, J., "Neutrinos, Dark Matter and the Cosmological Constant - The Dark Side of the Universe." (January 2005).

Goodman, J., "Neutrinos, Dark Matter and the Cosmological Constant - The Dark Side of the Universe." (October 2004).

Goodman, J., "Neutrinos, Dark Matter and the Cosmological Constant - The Dark Side of the Universe." (September 2004).

Goodman, J., XIII International Symposium on Very High Energy Cosmic Ray Interactions, "Recent Results from Milargo." (September 2004).

Goodman, J., Ettore Majorana Centre, "Astrophysics at Ultra-high Energies." (June 2004).

Goodman, J., "Super-k Atmospheric and Solar Neutrino Results." (March 2000).

Goodman, J., Recent Super-K Results. (May 1999).

Goodman, J., Department Graduate Seminar on Particle Astrophysics. (1998).

Goodman, J., 6th International Conference on Advanced Technology and Particle Physics. (October 1998).

Goodman, J., Space Physics Group. (October 1997).

Goodman, J., Thomas Johnson Laboratory. (April 1997).

Goodman, J., U.S. Physics Olympics Team, "Super-Kamiokande." (May 1996).

Goodman, J., High Energy Physics Seminar. (October 1995).

Goodman, J., Department of Physics. (October 1994).

Goodman, J., Department of Physics. (April 1994).

Goodman, J., "CYGNUS - The Other Air Shower." (October 1991).

Goodman, J., High Energy Physics Seminar, U. of MD Physics Dept., "Review of UHE and VHE Gamma Ray Astronomy." (January 1991).

Goodman, J., High Energy Physics Seminar, U. of MD. Physics Dept., "MILAGRO - A New for TeV Gamma Ray Astronomy." (November 1990).

Goodman, J., Joint Institute of Theoretical Physic/Brookhaven National Laboratory Seminar, "Status of Anomalous Muon Observations from Astro Physics Objects." (October 1990).

Goodman, J., Seminar at Boston University Physics Department, "UHE gamma Ray Astronomy-Recent Results from CYGNUS Experiment." (May 1990).

Goodman, J., Physics and Astronomy Seminar. (January 1990).

Goodman, J., U. of Delaware Astrophysics Seminar, "UHE Gamma Ray Astronomy--Past, Present and Future." (September 1989).

Goodman, J., "Anomalous Muon Content of UHE Air Showers from Hercules X-1." (May 1989).

Goodman, J., High Energy Physics Seminar, "Hercules X-1 New Physics above 100 TeV?." (January 1989).

Goodman, J., "Anomalous Muon Content of Ultra High Energy Air Showers from HER X-1." (November 1988).

Goodman, J., Brookhaven National Laboratory, "Muons from Hercules X-1." (July 1988).

Goodman, J., Goddard Space Center Astrophysics Seminar, GSFC, "New Results on Hercules X-1 and Cygnus X-3." (January 1988).

Goodman, J., High Energy Physics Seminar. (April 1987).

Goodman, J., High Energy Physics Seminar, "Hercules X-1 Results from the CYGNUS Experiment." (March 1987).

Goodman, J., Goddard Space Center Astrophysics Seminar, GSFC, "Results from the CYGNUS Experiment at Los Alamos." (September 1986).

Goodman, J., Nuclear Physics Seminar. (September 1985).

Goodman, J., Goddard Space Flight Center and University of Maryland Seminar, "Composition at the Knee." (1984).

Goodman, J., High Energy Seminar, "Report on Leipz International High Energy Physics Conference." (1984).

Goodman, J., High Energy Cosmic Ray Seminar. (February 1984).

Goodman, J., University of Maryland HE Seminar, "Results from the Maryland Cosmic Ray Experiments." (September 1983).

Goodman, J., High Energy Physics Seminar, "High Energy Cosmic Ray Air Showers." (1982).

Goodman, J., High Energy Seminar, "Unusual Events in Cosmic Ray Interactions." (February 1982).

Goodman, J., High Energy Seminar, "Search for Exotic Phenomena in Cosmic Rays." (1980).

Teaching Experience

PHYS272, section 0201, Introductory Physics: Fields. 36 enrolled.

PHYS798, section 0123, Special Problems in Advanced Physics. 1 enrolled.

PHYS898, section 0123, Pre-Candidacy Research. 1 enrolled.

PHYS899, section I246, Doctoral Dissertation Research. 1 enrolled.

PHYS499A, section 0123, Special Problems in Physics. 1 enrolled.

PHYS499P, section 0101, Special Problems in Physics - Particle Astrophysics. 14 enrolled.

PHYS798, section 0123, Special Problems in Advanced Physics. 1 enrolled.

PHYS898, section 0123, Pre-Candidacy Research. 1 enrolled.

PHYS899, section 0123, Doctoral Dissertation Research. 1 enrolled.

PHYS272, section 0201, Introductory Physics: Fields. 78 enrolled.

PHYS898, section 0123, Pre-Candidacy Research. 2 enrolled.

PHYS899, section 0123, Doctoral Dissertation Research. 1 enrolled.

HONR378N, section 0101, Advanced Honors Seminar - Research in Science and Public Policy for the U.S. National Security Agency. 4 enrolled.

PHYS106, section 0101, Light, Perception, Photography, and Visual Phenomena. 98 enrolled.

PHYS299, section 0123, Special Problems in Physics. 1 enrolled.

PHYS898, section 0123, Pre-Candidacy Research. 1 enrolled.

PHYS899, section 0123, Doctoral Dissertation Research. 1 enrolled.

PHYS174, section 0103, Physics Laboratory Introduction. 26 enrolled.

PHYS174, section 0105, Physics Laboratory Introduction. 26 enrolled.

PHYS174, section 0106, Physics Laboratory Introduction. 26 enrolled.

PHYS299, section 0123, Special Problems in Physics. 1 enrolled.

PHYS898, section 0123, Pre-Candidacy Research. 1 enrolled.

PHYS299, section 0123, Special Problems in Physics. 1 enrolled.

PHYS898, section 0123, Pre-Candidacy Research. 1 enrolled.

PHYS898, section 0123, Pre-Candidacy Research. 1 enrolled.

PHYS899, section 0195, Doctoral Dissertation Research. 1 enrolled.

PHYS899, section 0123, Doctoral Dissertation Research. 1 enrolled.

HONR378N, section 0101, Advanced Honors Seminar - Research in Science and Public Policy for the U.S. National Security Agency. 17 enrolled.

PHYS299, section 0123, Special Problems in Physics. 1 enrolled.

PHYS899, section 0123, Doctoral Dissertation Research. 1 enrolled.

PHYS499P, section 0101, Special Problems in Physics - Particle Astrophysics. 15 enrolled.

PHYS898, section 0123, Pre-Candidacy Research. 1 enrolled.

HONR378N, section 0101, Advanced Honors Seminar - Research in Science and Public Policy for the U.S. National Security Agency. 11 enrolled.

PHYS898, section 0123, Pre-Candidacy Research. 1 enrolled.

PHYS106, section 0101, Light, Perception, Photography, and Visual Phenomena. 64 enrolled.

PHYS898, section 0123, Pre-Candidacy Research. 1 enrolled.

HONR378N, section 0101, Advanced Honors Seminar - Research in Science and Public Policy for the U.S. National Security Agency. 11 enrolled.

PHYS299, section 0123, Special Problems in Physics. 1 enrolled.

PHYS898, section 0123, Pre-Candidacy Research. 1 enrolled.

PHYS105, section 0101, Physics for Decision Makers: Global Energy Crisis. 36 enrolled.

HONR378N, section 0101, Advanced Honors Seminar - Research in Science and Public Policy for the U.S. National Security Agency. 14 enrolled.

HONR238W, section 0101, Honors Seminar: Physics for Decision Makers: The Global Energy Crisis - Physics For Decision Makers: The Global Energy Crisis. 20 enrolled.

PHYS898, section 0123, Pre-Candidacy Research. 1 enrolled.

PHYS105, section 0101, Physics for Decision Makers: Global Energy Crisis. 70 enrolled.

PHYS174, section 0101, Physics Laboratory Introduction. 10 enrolled.

PHYS174, section 0201, Physics Laboratory Introduction. 14 enrolled.

PHYS174, section 0301, Physics Laboratory Introduction. 14 enrolled.

PHYS174, section 0401, Physics Laboratory Introduction. 13 enrolled.

PHYS174, section 0501, Physics Laboratory Introduction. 11 enrolled.

PHYS174, section 0601, Physics Laboratory Introduction. 10 enrolled.

PHYS899, section 0123, Doctoral Dissertation Research. 1 enrolled.

PHYS105, section 0101, Physics for Decision Makers: Global Energy Crisis. 69 enrolled.

PHYS899, section 0123, Doctoral Dissertation Research. 1 enrolled.

PHYS174, section 0101, Physics Laboratory Introduction. 14 enrolled.

PHYS174, section 0201, Physics Laboratory Introduction. 14 enrolled.

PHYS174, section 0301, Physics Laboratory Introduction. 13 enrolled.

PHYS174, section 0401, Physics Laboratory Introduction. 12 enrolled.

PHYS174, section 0501, Physics Laboratory Introduction. 11 enrolled.

PHYS174, section 0601, Physics Laboratory Introduction. 5 enrolled.

PHYS899, section 0123, Doctoral Dissertation Research. 1 enrolled.

Directed Student Learning

Advisor. (September 2019 - Present).

Advised: Jason Fan

Mentor. (August 2019 - Present).

Advised: Chad Brisbois

Mentor. (July 2019 - Present).

Advised: Israel Martinez-Castellanos

Advisor. (September 2017 - Present).

Advised: Elijah Tabachnick

Mentor. (September 2017 - Present).

Advised: Luca Riitano

Advisor. (September 2016 - Present).

Advised: Kristi Engle

Advisor. (September 2015 - July 2019).

Advised: Israel Martinez-Castellanos

Mentor. (March 2015 - March 2019).

Advised: Colas Rivière

Mentoring

Non-Credit Instruction Taught

Teaching Innovation and Curriculum Development

Curriculum Development. Creating Videos for Physics 174. January 2019 - August 2019.

Curriculum Development. Honors 378N, Developed New Research Course for the NSA. September 2012 - May 2018.
Fall 2012 - present

Curriculum Development. Physics/Astro 499P. January 2015.
Developed and taught a new course in Particle Astrophysics

Curriculum Development. Physics 105, Developed New Marquee Course -2008. 2008 - 2011.
2008, 2009, 2010, 2011

Curriculum Development. Physics 104, Developed New Course -1999. January 1999 - May 1999.
Spring 1999

Curriculum Development. Physics 174, Developed New Course -1997. January 1997 - May 1997.
Spring 1997- Spring 1998, 2010

Faculty Development Activities Attended

Public Service

Intel (& formerly Westinghouse) Science Talent Search. (1983 - 2018).

Chair, Campus Senate. (2016 - 2017).

Judge, Society for Science & the Public. (2016).

Campus Senate. (2015 - 2016).

Flower Valley PTA Executive Committee. (1989 - 2015).

Montgomery Blair High School, Rockville, MD. (October 2015).

Walt Whitman High School. (February 2015).

Committee Member, DOE Early Career Awards. (2013 - 2014).

Montgomery Blair HS, Rockville, MD. (2013).

Chair, Dean Review for the School of Public Policy. (2013).

Joint Space-Sciences Institute. (2011 - 2012).

Presenter, Watkins Mill High School. (2011 - 2012).

Departmental APT Committee. (2010 - 2012).

Chair, University Research Council. (September 2011 - August 2012).

DOE BigBOSS experiment. (2011).

Rockville High School, Rockville, MD. (2011).

DoE Non-Accelerator Programs at DoE Laboratories. (2010).

MIT High Energy Physics DoE Program. (2010).

Chair, ORAA Review Committee. (2009 - 2010).

Member, Senate Merit Review Committee. (2009 - 2010).

Presenter, Clarksburg High School. (2007 - 2010).

Quarknet - program for high school teachers. (2003 - 2010).

Review Panel for DoE Early Career Awards. (2009).

Chair, CMPS Development Officer Search Committee. (2008 - 2009).

Presenter, Blake, High School. (May 2007 - February 2009).

Chair, Virginia Tech Physics Department Review Committee. (2008).

Departmental Priorities Committee. (2007 - 2008).

HEPAP Sub-panel on University Programs. (2006 - 2008).

Chair, University of Utah Physics Department Review Committee. (2006).

Presenter, Quince Orchard High School. (2004 - 2006).

Chair, Department of Physics. (1999 - 2006).

Board for the HIRES experiment. (2002 - 2005).

Stuyvesant High School (NYC), NYC, NY. (2001 - 2005).

Judge, Montgomery County Science Fair. (1985 - 2005).

Guest Speaker. (November 2005).

Churchill High School. (2003).

Richard Montgomery High School. (2003).

Head of Organizing committee for NeSS2002 meeting for the NSF. (2002 - 2003).

Member, SAGENAP. (2002 - 2003).

Bronx High School of Science. (2001 - 2003).

Course for High School Teachers. (November 2003).

IceCube review panel. (2001 - 2002).

Thomas Jefferson High School. (May 2002).

Underground Science. (2001).

Chair, University of Maryland Alumni Advocates Committee. (2000 - 2001).

Chair, Campus Senate Research Committee. (1998 - 1999).

National Organizing Committee for 1999 International Cosmic Ray Conference. (1997 - 1999).

Chair, Physics Majors Laboratory Committee. (1996 - 1999).

Travel Grant for International Cosmic Ray Conference. (1995 - 1999).

Physics Department Laboratory Committee. (1994 - 1999).

Chair, Physics Faculty Assembly. (1994 - 1999).

Campus APT Committee. (1997 - 1998).

Organizing Committee, Terrapin Pride Day. (1997 - 1998).

Presenter, Col. Zadok Magruder High School, Montgomery Blair High School, Walt Whitman High School, Thomas Jefferson High School. (1996 - 1998).

Borexino Experiment. (1997).

Physics Undergraduate Education Committee. (1994 - 1997).

Guest Speaker, Hyattsville Middle School, Hyattsville, MD. (March 1997).

Presenter, Rockville High School, MD. (1996).

Technical Committee for High Energy Computer. (1984 - 1996).
Presenter, Walt Whitman High School. (October 1996).
Thomas Jefferson High School. (April 1996).
Judge, Blair, Einstein, Kennedy, Springbrook High Schools. (March 1996).
Hoover Middle School. (December 1995).
Guest Speaker. (1995).
Chair, Assistant Professor Search Committee. (1994 - 1995).
Priorities Committee. (1992 - 1995).
Transfer Student Initiative Committee. (1992 - 1995).
Presenter, Germantown Elementary School, MD. (October 1995).
Judge, Piney Branch Elementary School. (April 1995).
Global Access for Schools. (1994).
Presenter, Blair High School. (1994).
Presenter, Fields Road Elementary School. (1994).
Hyattsville Middle School, MD. (1994).
State Task Force on Teachers Education. (1993 - 1994).
Guest Speaker. (October 1994).
Laytonsville Elementary School. (May 1994).
(March 1994).
Howard County Public School Physics Teachers. (1993).
Wood Middle School. (1993).
Laytonsville Elementary School. (1993).
Wood Middle School. (1993).
Campus Committee to review instructors/Lecturers. (1992 - 1993).
Physics Salary Committee. (1992 - 1993).
Chair, Student Affairs Committee - Campus Senate. (1991 - 1993).
Graduate Education Committee. (1987 - 1993).
Flower Elementary School. (1992).
Chair, Physics Colloquium Committee. (1991 - 1992).
Judge. (1990 - 1992).
Flower Valley School. (1991).
Magruder High School. (1991).
Brook Grove Elementary School. (1991).
Subcommittee on Course and Program Evaluation, General Education Committee. (1989 - 1991).
National Science Foundation Review Committee for Calculus Reform Proposals. (1990).
Scientific Advising Committee for Michigan Workshop on UHE and VHE X-ray Astronomy. (1990).
National Research Council, Particles Panel of Astronomy and Astrophysics. (1989 - 1990).

Presenter, UMCP residence halls, MD. (1988 - 1990).

American-Soviet Exchange Students, AAPT, Univ. of MD. (1989).

Organizing Committee for Utah Cascade Simulation Workshop, University of Utah, Salt Lake City, Utah. (1989).

Scientific Advising Committee for Little Rock Workshop on Physics and Experimental Techniques of High Energy and VHE and UHE Gamma Ray Particle Astrophysics, Univ. of Arkansas, Little Rock, Arkansas. (1989).

Lecturer, Montgomery County Magnet students at Montgomery-Blair High School, MD. (March 1989).

National Science Foundation Science and Technology Center Site Visit Team, Princeton University, Univ. of Penn. (1988).

Search Committee for Dean of Undergraduate Education. (1987 - 1988).

Honors Committee. (1986 - 1988).

Lecturer, Montgomery and Prince George's County Public Schools, MD. (1986 - 1988).

Teaching Evaluation. (1980 - 1988).

Physics Olympics. (1979 - 1988).

Research Presentation of AAPT Workshops. (1985 - 1987).

Member, FULCRUM project. (1984 - 1987).

Member, MUPPET project. (1984 - 1987).

Montgomery County Physics Teachers Association. (1982 - 1987).

Light and Optics for Gifted and Talented Montgomery County Public Schools. (1986).

Montgomery County Public Schools Science Convocation, MD. (1986).

Presentation of Councilors for Gifted and Talented Students. (1986).

Middle States Evaluation Curriculum Committee. (1985 - 1986).

Member, Science, Math and Computer Science Magnet Program Oversight Committee of the Montgomery Board of Education. (1983 - 1986).

Student Physics Society. (1981 - 1986).

JFK High School. (1985).

Research tutorial to American Association of Physics Teachers. (1984).

Departmental Review Committee. (1982 - 1983).

Intramural Athletics. (1977 - 1982).

Consulting

Governmental, National Academy of Science, United States. (May 2019 - January 2021).

Non-Profit, Society for Science & the Public. (March 1982 - March 2018).

Governmental, National Security Agency. (December 2014).