

CONTACT
INFORMATION

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Fermi National Accelerator Laboratory
 Theoretical Astrophysics Department
The University of Chicago
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ACADEMIC
POSITIONS

Fermi National Accelerator Laboratory
 Senior Scientist July 2015 - Present
 Head, Theoretical Astrophysics Department Mar 2017 - May 2023
 Staff Scientist July 2011 - July 2015
 Associate Scientist April 2007 - July 2011
 David Schramm Fellow July 2005 - April 2007

The University of Chicago
 Professor of Astronomy & Astrophysics Mar 2018 - Present
 Associate Professor of Astronomy & Astrophysics Feb 2012 - Mar 2018
 Assistant Professor of Astronomy & Astrophysics April 2008 - Feb 2012

Oxford University
 Postdoctoral Research Fellow Aug 2003 - July 2005

EDUCATION

PhD, Physics, The University of Wisconsin, Madison Mar 2003
 Faculty Advisor: Dr. Francis Halzen

B.S., Physics, Minor in Mathematics, Saint Cloud State University May 1999

COURSES TAUGHT	The University of Chicago Particle Astrophysics (graduate) Fall 2022, Fall 2021 Cosmology II (graduate) Spring 2022 Philosophical Problems in Cosmology (undergraduate) Fall 2020, Spring 2018 The Big Bang (undergraduate) Spring 2019, Spring 2023 High Energy Astrophysics (graduate) Winter 2017 Matter, Energy, Space and Time (undergraduate) Fall 2015 The Origin of the Universe & How We Know (undergraduate) Spring 2015 Stellar Astronomy & Astrophysics (undergraduate) Winter 2014, Winter 2011 Cosmology I (graduate) Fall 2013, Spring 2012 The Origin and Evolution of the Universe (undergraduate) Spring 2013
GRADUATE STUDENTS SUPERVISED	The University of Chicago Ian Holst Current Emily Simon Current Rayne Liu Current Fei Xu PhD, 2023 (expected) Celeste Keith PhD, 2023 Olivia Bitter PSD Masters, 2021 Carlos Blanco PhD, 2019 Asher Berlin PhD, 2016 Christopher Kelso PhD, 2012 Alexander Belikov PhD, 2011
BOOKS AUTHORED	Particle Cosmology and Astrophysics , Graduate-Level Textbook Princeton University Press, 2024 At the Edge of Time: Exploring the Mysteries of our Universe's First Seconds Princeton University Press, 2019 Nature's Blueprint: Supersymmetry and the Search for a Unified Theory of Matter and Force Harper-Collins/Smithsonian, 2008 Dark Cosmos: In Search of our Universe's Missing Mass and Energy Harper-Collins/Smithsonian, 2006
OTHER MAJOR EFFORTS IN EDUCATION, OUTREACH	Podcast: Why This Universe? Co-Host and Co-Creator 71 Episodes and over 1,600,000 downloads (as of October 2023) What Einstein Got Wrong Lecture Series for The Great Courses/Wondrium, 2017

PROFESSIONAL SERVICE AND AWARDS

- Division Associate Editor, Physical Review Letters, 2020-Present
- Frequent referee for many academic journals
- Head of the International Advisory Committee for the TeV Particle Astrophysics annual conference series, 2020-Present
- Elected Fellow of the American Physical Society, 2017

MAJOR CONFERENCES ORGANIZED

- TeV Particle Astrophysics (University of Chicago, 2024)
- Next-Generation Gamma-Ray Searches for Dark Matter (University of Chicago, 2023)
- Topics in Cosmic Neutrino Physics (Fermilab, 2019)
- Identification of Dark Matter (Chicago, 2012)

- PUBLICATION STATISTICS According to the **inSPIREHEP** database (as of Nov 2023):
- 258 articles
 - Over 25,200 total citations
 - *h*-index: 73
- PUBLICATIONS
258. F. Xue and D. Hooper, *The Dark Matter Discovery Potential of the Advanced Particle-Astrophysics Telescope (APT)*, [arXiv:2308.15538 [astro-ph.HE]].
 257. D. Hooper, A. Ireland, G. Krnjaic and A. Stebbins, *Supermassive Primordial Black Holes From Inflation*, [arXiv:2308.00756 [astro-ph.CO]].
 256. C. Blanco, D. Hooper, T. Linden and E. Pinetti, *On the Neutrino and Gamma-Ray Emission from NGC 1068*, [arXiv:2307.03259 [astro-ph.HE]].
 255. D. Hooper and H. Xiao, *Dark matter is the new BBN*, Phys. Dark Univ. **42**, 101353 (2023), [arXiv:2306.07339 [hep-ph]].
 254. A. Dekker, I. Holst, D. Hooper, G. Leone, E. Simon and H. Xiao, *Diffuse Ultra-High-Energy Gamma-Ray Emission From TeV Halos*, [arXiv:2306.00051 [astro-ph.HE]].
 253. D. Hooper and K. Plant, *A Leptonic Model for Neutrino Emission From Active Galactic Nuclei*, [arXiv:2305.06375 [astro-ph.HE]].
 252. I. Holst, D. Hooper, G. Krnjaic and D. Song, *Twin Sterile Neutrino Dark Matter*, [arXiv:2305.06364 [hep-ph]].
 251. D. Hooper, J. Iguaz Juan and P. D. Serpico, *Signals of a new gauge boson from Ice-Cube and the muon $g-2$* , Phys. Rev. D **108**, no.2, 023007 (2023), [arXiv:2302.03571 [astro-ph.HE]].
 250. A. J. Evans, L. E. Strigari, O. Svenborn, A. Albert, J. P. Harding, D. Hooper, T. Linden and A. B. Pace, *On the gamma-ray emission from the core of the Sagittarius dwarf galaxy*, Mon. Not. Roy. Astron. Soc. **524**, no.3, 4574-4585 (2023), [arXiv:2212.08194 [astro-ph.HE]].
 249. C. Keith, D. Hooper and T. Linden, *Cherenkov Telescope Array will test whether pulsars generate the Galactic Center gamma-ray excess*, Phys. Rev. D **107**, no.10, 103001 (2023), [arXiv:2212.08080 [astro-ph.HE]].
 248. D. Hooper, A. Ireland and G. Krnjaic, *Cosmological Magnetic Fields From Primordial Kerr-Newman Black Holes*, Phys. Rev. D **107**, no.10, 103524 (2023), [arXiv:2206.04066 [astro-ph.CO]].
 247. O. M. Bitter and D. Hooper, *Constraining the Milky Way's Pulsar Population with the Cosmic-Ray Positron Fraction*, JCAP **10**, 081 (2022), [arXiv:2205.05200 [astro-ph.HE]].
 246. C. Keith, D. Hooper, T. Linden and R. Liu, *Sensitivity of Future Gamma-Ray Telescopes to Primordial Black Holes*, Phys. Rev. D **106**, no.4, 043003 (2022), [arXiv:2204.05337 [astro-ph.HE]].

245. R. K. Leane, S. Shin, L. Yang, G. Adhikari, H. Alhazmi, T. Aramaki, D. Baxter, F. Calore, R. Caputo and I. Cholis, *et al.* *Snowmass 2021 Cosmic Frontier White Paper: Puzzling Excesses in Dark Matter Searches and How to Resolve Them*, [arXiv:2203.06859 [hep-ph]].
244. J. Aalbers, K. Abe, V. Aerne, F. Agostini, S. A. Maouloud, D. S. Akerib, D. Y. Akimov, J. Akshat, A. K. A. Musalhi and F. Alder, *et al.* *A Next-Generation Liquid Xenon Observatory for Dark Matter and Neutrino Physics*, [arXiv:2203.02309 [physics.ins-det]].
243. F. Xu and D. Hooper, *Contribution From TeV halos to the Isotropic Gamma-Ray Background*, *Phys. Rev. D* **106**, no.2, 023005 (2022), [arXiv:2111.03646 [astro-ph.HE]].
242. I. Holst, D. Hooper and G. Krnjaic, *Simplest and Most Predictive Model of Muon $g-2$ and Thermal Dark Matter*, *Phys. Rev. Lett.* **128**, no.14, 141802 (2022), [arXiv:2107.09067 [hep-ph]].
241. D. Curtin, S. Gryba, D. Hooper, J. Scholtz and J. Setford, *Resurrecting the Fraternal Twin WIMP Miracle*, *Phys. Rev. D* **105**, no.3, 035033 (2022), [arXiv:2106.12578 [hep-ph]].
240. L. A. Anchordoqui, C. Bérat, M. E. Bertaina, A. Castellina, O. Deligny, R. Engel, G. R. Farrar, P. L. Ghia, D. Hooper and O. Kalashev, *et al.* *Hunting Superheavy Dark Matter with Ultra-high Energy Photons*, *Astropart. Phys.* **132**, 102614 (2021), [arXiv:2105.12895 [hep-ph]].
239. D. Hooper and T. Linden, *Evidence of TeV Halos Around Millisecond Pulsars*, *Phys. Rev. D* **105**, no.10, 103013 (2022), [arXiv:2104.00014 [astro-ph.HE]].
238. C. Keith and D. Hooper, *511 keV Excess and Primordial Black Holes*, *Phys. Rev. D* **104**, no.6, 063033 (2021), [arXiv:2103.08611 [astro-ph.CO]].
237. T. Sudoh, T. Linden and D. Hooper, *The Highest Energy HAWC Sources are Likely Leptonic and Powered by Pulsars*, *JCAP* **08**, 010 (2021), [arXiv:2101.11026 [astro-ph.HE]].
236. D. Hooper and G. Krnjaic, *GUT Baryogenesis With Primordial Black Holes*, *Phys. Rev. D* **103**, no.4, 043504 (2021), [arXiv:2010.01134 [hep-ph]].
235. D. Smith, D. Hooper and A. Viereg, *Revisiting AGN as the Source of IceCube's Diffuse Neutrino Flux*, *JCAP* **03**, 031 (2021), [arXiv:2007.12706 [astro-ph.HE]].
234. I. Cholis, D. Hooper and T. Linden, *Constraining the Charge-Sign and Rigidity-Dependence of Solar Modulation*, [arXiv:2007.00669 [astro-ph.HE]].
233. R. Allahverdi, M. A. Amin, A. Berlin, N. Bernal, C. T. Byrnes, M. Sten Delos, A. L. Erickcek, M. Escudero, D. G. Figueroa and K. Freese, *et al.* *The First Three Seconds: a Review of Possible Expansion Histories of the Early Universe*, [arXiv:2006.16182 [astro-ph.CO]].
232. C. Keith, D. Hooper, N. Blinov and S. D. McDermott, *Constraints on Primordial Black Holes From Big Bang Nucleosynthesis Revisited*, *Phys. Rev. D* **102**, no.10, 103512 (2020), [arXiv:2006.03608 [astro-ph.CO]].

231. N. Blinov, C. Keith and D. Hooper, *Warm Decaying Dark Matter and the Hubble Tension*, JCAP **06**, 005 (2020), [arXiv:2004.06114 [astro-ph.CO]].
230. D. Hooper, G. Krnjaic, J. March-Russell, S. D. McDermott and R. Petrossian-Byrne, *Hot Gravitons and Gravitational Waves From Kerr Black Holes in the Early Universe*, [arXiv:2004.00618 [astro-ph.CO]].
229. I. Cholis, T. Linden and D. Hooper, *Antideuterons and Antihelium Nuclei From Anihilating Dark Matter*, Phys. Rev. D **102**, no.10, 103019 (2020), [arXiv:2001.08749 [astro-ph.HE]].
228. D. Hooper, R. K. Leane, Y. D. Tsai, S. Wegsman and S. J. Witte, *A Systematic Study of Hidden Sector Dark Matter: Application to the Gamma-Ray and Antiproton Excesses*, JHEP **07**, no.07, 163 (2020), [arXiv:1912.08821 [hep-ph]].
227. C. Blanco, M. Escudero, D. Hooper and S. J. Witte, *'Z' Mediated WIMPs: Dead, Dying, or Soon to be Detected?*, JCAP **11**, 024 (2019), [arXiv:1907.05893 [hep-ph]].
226. C. Blanco, M. S. Delos, A. L. Erickcek and D. Hooper, *Annihilation Signatures of Hidden Sector Dark Matter Within Early-Forming Microhalos*, Phys. Rev. D **100**, no.10, 103010 (2019), [arXiv:1906.00010 [astro-ph.CO]].
225. D. Hooper, G. Krnjaic and S. D. McDermott, *Dark Radiation and Superheavy Dark Matter From Black Hole Domination*, JHEP **08**, 001 (2019), [arXiv:1905.01301 [hep-ph]].
224. D. Hooper, S. Wegsman, C. Deaconu and A. Viereg, *Superheavy Dark Matter and ANITA's Anomalous Events*, Phys. Rev. D **100**, no.4, 043019 (2019), [arXiv:1904.12865 [astro-ph.HE]].
223. I. Cholis, T. Linden and D. Hooper, *A Robust Excess in the Cosmic-Ray Antiproton Spectrum: Implications for Anihilating Dark Matter*, Phys. Rev. D **99**, no.10, 103026 (2019), [arXiv:1903.02549 [astro-ph.HE]].
222. C. Blanco, D. Hooper and P. Machado, *Constraining Sterile Neutrino Interpretations of the LSND and MiniBooNE Anomalies with Coherent Neutrino Scattering Experiments*, Phys. Rev. D **101**, no.7, 075051 (2020), [arXiv:1901.08094 [hep-ph]].
221. M. Escudero, D. Hooper, G. Krnjaic and M. Pierre, *Cosmology with A Very Light $L_\mu - L_\tau$ Gauge Boson*, JHEP **03**, 071 (2019), [arXiv:1901.02010 [hep-ph]].
220. D. Hooper, *TASI Lectures on Indirect Searches For Dark Matter*, PoS **TASI2018**, 010 (2019), [arXiv:1812.02029 [hep-ph]].
219. C. Blanco and D. Hooper, *Constraints on Decaying Dark Matter From the Isotropic Gamma-Ray Background*, JCAP **03**, 019 (2019), [arXiv:1811.05988 [astro-ph.HE]].
218. D. Hooper, T. Linden and A. Viereg, *Active Galactic Nuclei and the Origin of IceCube's Diffuse Neutrino Flux*, JCAP **02**, 012 (2019), [arXiv:1810.02823 [astro-ph.HE]].
217. D. Hooper, G. Krnjaic, A. J. Long and S. D. McDermott, *Can the Inflaton Also Be a Weakly Interacting Massive Particle?*, Phys. Rev. Lett. **122**, no.9, 091802 (2019), [arXiv:1807.03308 [hep-ph]].

216. D. Hooper, *Life Versus Dark Energy: How An Advanced Civilization Could Resist the Accelerating Expansion of the Universe*, Phys. Dark Univ. **22**, 74-79 (2018), [arXiv:1806.05203 [astro-ph.CO]].
215. D. Hooper and T. Linden, *Millisecond Pulsars, TeV Halos, and Implications For The Galactic Center Gamma-Ray Excess*, Phys. Rev. D **98**, no.4, 043005 (2018), [arXiv:1803.08046 [astro-ph.HE]].
214. A. Berlin, D. Hooper, G. Krnjaic and S. D. McDermott, *Severely Constraining Dark Matter Interpretations of the 21-cm Anomaly*, Phys. Rev. Lett. **121**, no.1, 011102 (2018), [arXiv:1803.02804 [hep-ph]].
213. D. Hooper and S. D. McDermott, *Robust Constraints and Novel Gamma-Ray Signatures of Dark Matter That Interacts Strongly With Nucleons*, Phys. Rev. D **97**, no.11, 115006 (2018), [arXiv:1802.03025 [hep-ph]].
212. C. Blanco, J. P. Harding and D. Hooper, *Novel Gamma-Ray Signatures of PeV-Scale Dark Matter*, JCAP **04**, 060 (2018), [arXiv:1712.02805 [hep-ph]].
211. D. Hooper and T. Linden, *Measuring the Local Diffusion Coefficient with H.E.S.S. Observations of Very High-Energy Electrons*, Phys. Rev. D **98**, no.8, 083009 (2018), [arXiv:1711.07482 [astro-ph.HE]].
210. R. Bartels, D. Hooper, T. Linden, S. Mishra-Sharma, N. L. Rodd, B. R. Safdi and T. R. Slatyer, *Comment on “Characterizing the Population of Pulsars in the Galactic Bulge with the Fermi Large Area Telescope” [arXiv:1705.00009v1]*, Phys. Dark Univ. **20**, 88-94 (2018), [arXiv:1710.10266 [astro-ph.HE]].
209. T. L. Chou, D. Tanoglidis and D. Hooper, *Resolving Dark Matter Subhalos With Future Sub-GeV Gamma-Ray Telescopes*, Phys. Dark Univ. **21**, 1-7 (2018), [arXiv:1709.08562 [hep-ph]].
208. M. Escudero, S. J. Witte and D. Hooper, *Hidden Sector Dark Matter and the Galactic Center Gamma-Ray Excess: A Closer Look*, JCAP **11**, 042 (2017), [arXiv:1709.07002 [hep-ph]].
207. C. Blanco and D. Hooper, *High-Energy Gamma Rays and Neutrinos From Nearby Radio Galaxies*, JCAP **12**, 017 (2017), [arXiv:1706.07047 [astro-ph.HE]].
206. D. Hooper, I. Cholis and T. Linden, *TeV Gamma Rays From Galactic Center Pulsars*, Phys. Dark Univ. **21**, 40-46 (2018), [arXiv:1705.09293 [astro-ph.HE]].
205. T. Linden, K. Auchettl, J. Bramante, I. Cholis, K. Fang, D. Hooper, T. Karwal and S. W. Li, *Using HAWC to Discover Invisible Pulsars*, Phys. Rev. D **96**, no.10, 103016 (2017), [arXiv:1703.09704 [astro-ph.HE]].
204. D. Hooper, I. Cholis, T. Linden and K. Fang, *HAWC Observations Strongly Favor Pulsar Interpretations of the Cosmic-Ray Positron Excess*, Phys. Rev. D **96**, no.10, 103013 (2017), [arXiv:1702.08436 [astro-ph.HE]].
203. I. Cholis, D. Hooper and T. Linden, *Possible Evidence for the Stochastic Acceleration of Secondary Antiprotons by Supernova Remnants*, Phys. Rev. D **95**, no.12, 123007 (2017), [arXiv:1701.04406 [astro-ph.HE]].

202. D. Haggard, C. Heinke, D. Hooper and T. Linden, *Low Mass X-Ray Binaries in the Inner Galaxy: Implications for Millisecond Pulsars and the GeV Excess*, JCAP **05**, 056 (2017), [arXiv:1701.02726 [astro-ph.HE]].
201. M. Escudero, D. Hooper and S. J. Witte, *Updated Collider and Direct Detection Constraints on Dark Matter Models for the Galactic Center Gamma-Ray Excess*, JCAP **02**, 038 (2017), [arXiv:1612.06462 [hep-ph]].
200. D. Hooper and S. J. Witte, *Gamma Rays From Dark Matter Subhalos Revisited: Refining the Predictions and Constraints*, JCAP **04**, 018 (2017), [arXiv:1610.07587 [astro-ph.HE]].
199. A. Berlin and D. Hooper, *Axion-Assisted Production of Sterile Neutrino Dark Matter*, Phys. Rev. D **95**, no.7, 075017 (2017), [arXiv:1610.03849 [hep-ph]].
198. M. Escudero, A. Berlin, D. Hooper and M. X. Lin, *Toward (Finally!) Ruling Out Z and Higgs Mediated Dark Matter Models*, JCAP **12**, 029 (2016), [arXiv:1609.09079 [hep-ph]].
197. A. Berlin, D. Hooper and G. Krnjaic, *Thermal Dark Matter From A Highly Decoupled Sector*, Phys. Rev. D **94**, no.9, 095019 (2016), [arXiv:1609.02555 [hep-ph]].
196. D. Hooper, *The Density of Dark Matter in the Galactic Bulge and Implications for Indirect Detection*, Phys. Dark Univ. **15**, 53-56 (2017), [arXiv:1608.00003 [astro-ph.HE]].
195. D. Hooper and T. Linden, *The Gamma-Ray Pulsar Population of Globular Clusters: Implications for the GeV Excess*, JCAP **08**, 018 (2016), [arXiv:1606.09250 [astro-ph.HE]].
194. D. Hooper, *A Case for Radio Galaxies as the Sources of IceCube's Astrophysical Neutrino Flux*, JCAP **09**, 002 (2016), [arXiv:1605.06504 [astro-ph.HE]].
193. G. Bertone and D. Hooper, *History of Dark Matter*, Rev. Mod. Phys. **90**, no.4, 045002 (2018), [arXiv:1605.04909 [astro-ph.CO]].
192. D. Hooper, T. Linden and A. Lopez, *Radio Galaxies Dominate the High-Energy Diffuse Gamma-Ray Background*, JCAP **08**, 019 (2016), [arXiv:1604.08505 [astro-ph.HE]].
191. A. Berlin, P. J. Fox, D. Hooper and G. Mohlabeng, *Mixed Dark Matter in Left-Right Symmetric Models*, JCAP **06**, 016 (2016), [arXiv:1604.06100 [hep-ph]].
190. A. Berlin, D. Hooper and G. Krnjaic, *PeV-Scale Dark Matter as a Thermal Relic of a Decoupled Sector*, Phys. Lett. B **760**, 106-111 (2016), [arXiv:1602.08490 [hep-ph]].
189. B. Bertoni, D. Hooper and T. Linden, *Is The Gamma-Ray Source 3FGL J2212.5+0703 A Dark Matter Subhalo?*, JCAP **05**, 049 (2016), [arXiv:1602.07303 [astro-ph.HE]].
188. D. Hooper and G. Mohlabeng, *The Gamma-Ray Luminosity Function of Millisecond Pulsars and Implications for the GeV Excess*, JCAP **03**, 049 (2016), [arXiv:1512.04966 [astro-ph.HE]].

187. A. A. Kaurov, D. Hooper and N. Y. Gnedin, *The Effects of Dark Matter Annihilation on Cosmic Reionization*, *Astrophys. J.* **833**, no.2, 162 (2016), [arXiv:1512.00526 [astro-ph.CO]].
186. I. Cholis, D. Hooper and T. Linden, *A Predictive Analytic Model for the Solar Modulation of Cosmic Rays*, *Phys. Rev. D* **93**, no.4, 043016 (2016), [arXiv:1511.01507 [astro-ph.SR]].
185. A. Berlin, D. Hooper and S. D. McDermott, *Dark matter Elastic Scattering Through Higgs Loops*, *Phys. Rev. D* **92**, no.12, 123531 (2015), [arXiv:1508.05390 [hep-ph]].
184. H. Davoudiasl, D. Hooper and S. D. McDermott, *Inflatable Dark Matter*, *Phys. Rev. Lett.* **116**, no.3, 031303 (2016), [arXiv:1507.08660 [hep-ph]].
183. A. DiFranzo and D. Hooper, *Searching for MeV-Scale Gauge Bosons with IceCube*, *Phys. Rev. D* **92**, no.9, 095007 (2015), [arXiv:1507.03015 [hep-ph]].
182. I. Cholis, C. Evoli, F. Calore, T. Linden, C. Weniger and D. Hooper, *The Galactic Center GeV Excess From a Series of Leptonic Cosmic-Ray Outbursts*, *JCAP* **12**, 005 (2015), [arXiv:1506.05119 [astro-ph.HE]].
181. A. M. Taylor, M. Ahlers and D. Hooper, *Indications of Negative Evolution for the Sources of the Highest Energy Cosmic Rays*, *Phys. Rev. D* **92**, no.6, 063011 (2015), [arXiv:1505.06090 [astro-ph.HE]].
180. B. Bertoni, D. Hooper and T. Linden, *Examining The Fermi-LAT Third Source Catalog In Search Of Dark Matter Subhalos*, *JCAP* **12**, 035 (2015), [arXiv:1504.02087 [astro-ph.HE]].
179. D. Hooper and T. Linden, *On The Gamma-Ray Emission From Reticulum II and Other Dwarf Galaxies*, *JCAP* **09**, 016 (2015), [arXiv:1503.06209 [astro-ph.HE]].
178. A. Berlin, A. DiFranzo and D. Hooper, *3.55 keV Line From Exciting Dark Matter Without a Hidden Sector*, *Phys. Rev. D* **91**, no.7, 075018 (2015), [arXiv:1501.03496 [hep-ph]].
177. D. Hooper, *Z' Mediated Dark Matter Models for the Galactic Center Gamma-Ray Excess*, *Phys. Rev. D* **91**, 035025 (2015), [arXiv:1411.4079 [hep-ph]].
176. D. Hooper, T. Linden and P. Mertsch, *What Does The PAMELA Antiproton Spectrum Tell Us About Dark Matter?*, *JCAP* **03**, 021 (2015), [arXiv:1410.1527 [astro-ph.HE]].
175. E. Carlson, D. Hooper and T. Linden, *Improving the Sensitivity of Gamma-Ray Telescopes to Dark Matter Annihilation in Dwarf Spheroidal Galaxies*, *Phys. Rev. D* **91**, no.6, 061302 (2015), [arXiv:1409.1572 [astro-ph.HE]].
174. I. Cholis, D. Hooper and T. Linden, *A Critical Reevaluation of Radio Constraints on Annihilating Dark Matter*, *Phys. Rev. D* **91**, no.8, 083507 (2015), [arXiv:1408.6224 [astro-ph.HE]].
173. I. Cholis, D. Hooper and T. Linden, *A New Determination of the Spectra and Luminosity Function of Gamma-Ray Millisecond Pulsars*, [arXiv:1407.5583 [astro-ph.HE]].

172. I. Cholis, D. Hooper and T. Linden, *Challenges in Explaining the Galactic Center Gamma-Ray Excess with Millisecond Pulsars*, JCAP **06**, 043 (2015), [arXiv:1407.5625 [astro-ph.HE]].
171. A. Berlin, P. Gratia, D. Hooper and S. D. McDermott, *Hidden Sector Dark Matter Models for the Galactic Center Gamma-Ray Excess*, Phys. Rev. D **90**, no.1, 015032 (2014), [arXiv:1405.5204 [hep-ph]].
170. P. Agrawal, B. Batell, D. Hooper and T. Lin, *Flavored Dark Matter and the Galactic Center Gamma-Ray Excess*, Phys. Rev. D **90**, no.6, 063512 (2014), [arXiv:1404.1373 [hep-ph]].
169. A. Berlin, D. Hooper and S. D. McDermott, *Simplified Dark Matter Models for the Galactic Center Gamma-Ray Excess*, Phys. Rev. D **89**, no.11, 115022 (2014), [arXiv:1404.0022 [hep-ph]].
168. T. Daylan, D. P. Finkbeiner, D. Hooper, T. Linden, S. K. N. Portillo, N. L. Rodd and T. R. Slatyer, *The Characterization of the Gamma-Ray Signal From the Central Milky Way: A Case for Annihilating Dark Matter*, Phys. Dark Univ. **12**, 1-23 (2016), [arXiv:1402.6703 [astro-ph.HE]].
167. J. L. Feng, S. Ritz, J. J. Beatty, J. Buckley, D. F. Cowen, P. Cushman, S. Dodelson, C. Galbiati, K. Honscheid and D. Hooper, *et al.*, *Planning the Future of U.S. Particle Physics (Snowmass 2013): Chapter 4: Cosmic Frontier*, [arXiv:1401.6085 [hep-ex]].
166. L. A. Anchordoqui, V. Barger, I. Cholis, H. Goldberg, D. Hooper, A. Kusenko, J. G. Learned, D. Marfatia, S. Pakvasa and T. C. Paul, *et al.* *Cosmic Neutrino Pevatrons: A Brand New Pathway to Astronomy, Astrophysics, and Particle Physics*, JHEAp **1-2**, 1-30 (2014), [arXiv:1312.6587 [astro-ph.HE]].
165. I. Cholis and D. Hooper, *Constraining the Origin of the Rising Cosmic Ray Positron Fraction with the Boron-to-Carbon Ratio*, Phys. Rev. D **89**, no.4, 043013 (2014), [arXiv:1312.2952 [astro-ph.HE]].
164. I. Cholis, D. Hooper and S. D. McDermott, *Dissecting the Gamma-Ray Background in Search of Dark Matter*, JCAP **02**, 014 (2014), [arXiv:1312.0608 [astro-ph.CO]].
163. S. Arrenberg, H. Baer, V. Barger, L. Baudis, D. Bauer, J. Buckley, M. Cahill-Rowley, R. Cotta, A. Drlica-Wagner and J. L. Feng, *et al.*, *Snowmass Working Group Report: Dark Matter Complementarity*, [arXiv:1310.8621 [hep-ph]].
162. C. He, K. Bechtol, A. P. Hearin and D. Hooper, *Prospects for Detecting Gamma Rays From Annihilating Dark Matter in Dwarf Galaxies in the Era of the Dark Energy Survey and Large Synoptic Survey Telescope*, Phys. Rev. D **91**, no.6, 063515 (2015), [arXiv:1309.4780 [astro-ph.HE]].
161. A. Berlin and D. Hooper, *Stringent Constraints on the Dark Matter Annihilation Cross Section From Subhalo Searches with the Fermi Gamma-Ray Space Telescope*, Phys. Rev. D **89**, no.1, 016014 (2014), [arXiv:1309.0525 [hep-ph]].

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POPULAR SCIENCE PUBLICATIONS	<i>What is the Standard Model of Particle Physics and why are Scientists Looking Beyond it?</i> Astronomy	19 May, 2022
	<i>The Beginning of the End of the Universe: It Started With a Bang</i> Astronomy	7 Jan, 2021
	<i>Four Puzzles That Tell Us a Cosmological Revolution is Coming</i> New Scientist	22 July, 2020
	<i>Is the Big Bang in Crisis?</i> Astronomy	14 May, 2020
	<i>To Understand Our Universe, Look to its First Moments</i> BBC Science Focus	8 Feb, 2020
	<i>Will We Ever Find Dark Matter in the Universe?</i> Time Magazine	6 Dec, 2019
	<i>Why Dark Matter's No-Show Could Mean a Big Bang Rethink</i> New Scientist	13 Nov, 2019
	<i>A Well-Deserved Physics Nobel</i> Scientific American	12 Oct, 2019
	<i>How Will Our Species Survive in an Ever-Expanding Universe?</i> Scientific American	11 July, 2018
	<i>The Relentless Hunt for Dark Matter</i> Physics	30 Oct, 2017
	<i>The Mystery Substance Physics Still Can't Identify That Makes Up the Majority of Our Universe</i> The Conversation	13 Oct, 2017
	<i>Spot marks the "X"</i> The Economist	11 Nov, 2015
	<i>Instant Expert: Dark Matter</i> New Scientist	2 Nov, 2011

CONFERENCE TALKS	<i>The Status of the Galactic Center Gamma-Ray Excess</i> TeV Particle Astrophysics Workshop (TeVPA) 2023 Naples, Italy	Sept 2023
	<i>Pondering Cosmic Rays with Subir</i> SubirFest University of Oxford, UK	Sept 2023
	<i>The Status of the Galactic Center Gamma-Ray Excess</i> Nobel Symposium on Dark Matter Ranas Slott, Sweden	Aug 2023
	<i>The Status of the Galactic Center Gamma-Ray Excess</i> LCTP Symposium on Astrophysical Signatures of Dark Matter University of Michigan, Ann Arbor, USA	May 2023
	<i>The Status of the Galactic Center Gamma-Ray Excess</i> New Lampposts for Dark Matter and BSM Workshop Simons Center for Geometry and Physics, Stony Brook, USA	March 2023
	<i>The Status of the Galactic Center Gamma-Ray Excess</i> TeV Particle Astrophysics Workshop (TeVPA) 2022 Queens University, Kingston, Canada	Aug 2022
	<i>Signals of Annihilating Dark Matter</i> Invited Talk, PASCOS 2022 Max Planck Institute for Nuclear Physics, Heidelberg, Germany	July 2022
	<i>The Status of the Galactic Center Gamma-Ray Excess</i> Identification of Dark Matter 2022 Vienna, Germany	July 2022
	<i>Signals of Annihilating Dark Matter</i> Invited Talk, Particle Physics and Cosmology (PPC) 2022 Washington University, Saint Louis, USA	June 2022
	<i>New Eras in Astro-Particle Physics</i> Invited Talk, Pheno 2022 Symposium University of Pittsburg, USA	May 2022
	<i>Dark Matter, Pulsars, and the Galactic Center Gamma-Ray Excess</i> Invited Talk, Beyond the Standard Model Workshop (Virtual) Chung-Ang University, Seoul, Korea	Feb 2022
	<i>Dark Matter, Pulsars, and the Galactic Center Gamma-Ray Excess</i> Invited Talk, AstroDark 2021 (Virtual) Workshop IMPU, Tokyo, Japan	Dec 2021

<i>Dark Matter and Dark Radiation from Black Holes in the Early Universe</i> Invited Talk, Astrophysical Windows on Dark Matter Workshop The Royal Society, London, UK	Nov 2021
<i>Hidden Sector WIMPs</i> Invited Talk, New Directions in Heavy Dark Matter Workshop DESY, Hamburg, Germany	Feb 2020
<i>Revisiting the Status of WIMP Dark Matter</i> Antideuteron Workshop UCLA, Los Angeles, USA	Oct 2019
<i>Dark Radiation and Dark Matter from Primordial Black Holes</i> Invited Talk, GGI Dark Matter Workshop GGI Institute, Florence, Italy	Sept 2019
<i>Hidden Sector WIMPs</i> Invited Talk, Signals of Dark Matter in its Natural Habitat Workshop TRIUMF, Vancouver, Canada	Mar 2019
<i>Signals of Dark Matter</i> Invited Talk, Workshop on Direct Detection Peking University, Beijing, China	Feb 2019
<i>The WIMP is Dead! Long Live the WIMP!</i> Invited Talk, Light Dark World Workshop 2018 KAIST, Daejeon, Korea	Dec 2018
<i>The Galactic Center Gamma-Ray Excess and its Interpretations</i> TeV Particle Astrophysics Workshop (TeVPA) 2018 Berlin, Germany	Aug 2018
<i>The Galactic Center Gamma-Ray Excess and its Interpretations: A Status Report</i> Identification of Dark Matter (IDM) Workshop 2018 Providence, USA	July 2018
<i>In Defense of Dark Matter</i> Invited Talk, KITP Conference on Dark Matter Detection & Detectability Santa Barbara, USA	April 2018
<i>Pulsars and the Galactic Center Gamma-Ray Excess</i> UCLA Dark Matter Meeting UCLA, Los Angeles, USA	Feb 2018
<i>The WIMP is Dead! Long Live the WIMP!</i> Invited Talk, Lake Louise Winter Institute Lake Louise, Canada	Feb 2018

<i>The Status of WIMP Dark Matter</i> Developing New Tools for Dark Matter Searches Workshop Aspen Center for Physics, Aspen, USA	Aug 2017
<i>Nearby Pulsars and the Cosmic-Ray Positron Excess</i> TeV Particle Astrophysics Workshop 2017 Columbus, USA	Aug 2017
<i>Conference Summary</i> Invited Talk, Particle Physics and Cosmology (PPC) 2017 Corpus Christi, USA	May 2017
<i>Nearby Pulsars and the Cosmic-Ray Positron Excess</i> IceCube Particle Astrophysics Symposium Madison, USA	May 2017
<i>The Status of the Indirect Detection of Dark Matter</i> Invited Talk, Origin of Mass Workshop Odense, Denmark	May 2017
<i>The Future of the Indirect Detection of Dark Matter</i> Invited Talk, Royal Society Workshop on Dark Matter Chicheley Hall, UK	May 2017
<i>The Status of the Indirect Detection of Dark Matter</i> Invited Talk, Bethe Center Particle Physics Meets Cosmology Workshop Bad Honef, Germany	Oct 2016
<i>Dark Matter Annihilation in the Galactic Center</i> Invited Talk, IAU Workshop on the Galactic Center Cairns, Australia	July 2016
<i>Dark Matter Annihilation in the Galactic Center</i> UCLA Dark Matter Workshop Los Angeles, USA	Feb 2016
<i>Dark Matter Annihilation in the Galactic Center</i> Invited Talk, Dark Matter Cairo Workshop Cairo, Egypt	Dec 2015
<i>The Case for a Dark Matter Interpretation of the Galactic Center Excess</i> Invited Talk, Gamma Rays and Dark Matter Workshop Obergurgl, Austria	Dec 2015
<i>Searching for Dark Matter Subhalos with Fermi</i> University of Chicago Dark Matter Hub Meeting Chicago, USA	Nov 2015

<i>The Search for Dark Matter's Particle Identity (Circa 2015)</i> Invited Talk, DESY Theory Workshop Workshop Hamburg, Germany	Sept 2015
<i>Dark Matter Annihilation in the Galactic Center</i> Invited Talk, Invisibles15 Workshop Madrid, Spain	June 2015
<i>The Search for Dark Matter's Particle Identity (Circa 2015)</i> Invited Talk, 48th Annual Fermilab Users Meeting Batavia, USA	June 2015
<i>The Case for a Dark Matter Interpretation of the Galactic Center Excess</i> Invited Talk, Extended Workshop on Identification of Dark Matter Madrid, Spain	May 2015
<i>Dark Matter Annihilation in the Galactic Center</i> Fermi Symposium Nagoya, Japan	Oct 2014
<i>The Search for Annihilating Dark Matter</i> Invited talk, IBS-MultiDark Joint Focus Program on WIMPs and Axions Daejeon, South Korea	Oct 2014
<i>Dark Matter Annihilation in the Galactic Center</i> Invited talk, Michigan Dark Matter Workshop University of Michigan, Ann Arbor, US	Sept 2014
<i>Anomalies in the Indirect Detection of Dark Matter</i> SLAC Summer Institute, Shining Light on Dark Matter SLAC, Menlo Park, USA	Aug 2014
<i>Conference Summary</i> Invited Summary Talk, Joint TeV Particle Astrophysics/Identification of Dark Matter Workshop Amsterdam, Netherlands	June 2014
<i>Dark Matter Annihilation in the Galactic Center</i> Invited Talk, Dark Interactions Workshop Brookhaven National Laboratory, USA	June 2014
<i>Dark Matter Annihilation in the Galactic Center</i> Invited talk, CIFIR Cosmology and Gravity Program Meeting Quebec City, Canada	May 2014
<i>Dark Matter Annihilation in the Galactic Center</i> Invited talk, Sackler Debates on the Nature of Dark Matter Harvard/CfA, Boston, USA	May 2014

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- Dark Matter Annihilation in the Galactic Center*
Invited talk, New Perspectives on Dark Matter
Fermilab, Batavia, USA April 2014
- Anomalous Gamma-Ray Emission from the Central Milky Way: A Compelling Case for Annihilating Dark Matter*
UCLA Dark Matter Workshop
UCLA, Los Angeles, USA Feb 2014
- Dark Matter Annihilation in the Galactic Center and Inner Galaxy*
Invited talk, Violent Universe Workshop
Institute for Physics, London, England Nov 2013
- Dark Matter Annihilation in the Galactic Center and Inner Galaxy*
Invited talk, The Dark Matter Paradigm, Status and Challenges Workshop
Princeton, USA Oct 2013
- Dark Matter Annihilation in the Galactic Center and Inner Galaxy*
Invited talk, What are we Learning from the Gamma-Ray Sky Workshop
Minneapolis, USA Oct 2013
- Dark Matter in the Coming Decade: Complementary Paths to Discovery and Beyond*
Community Summer Study (Snowmass 2013), CF4 Summary Talk
Minneapolis, USA Aug 2013
- Dark Matter in the Discovery Age*
Invited talk, Planck 2013 Workshop
Bonn, Germany May 2013
- Gamma Rays From Dark Matter in the Galactic Center and in the Inner Galaxy*
Invited talk, University of Michigan Dark Matter Workshop
University of Michigan, Ann Arbor, USA April 2013
- Indirect Searches for Dark Matter in the Discovery Age*
Closing in on Dark Matter Workshop
Aspen, USA Jan 2013
- Dark Matter and Galactic Center Gamma Rays*
TeV Particle-Astrophysics 2012 Workshop
Mumbai, India Dec 2012
- Searching for Dark Matter in the Discovery Age*
7th TeV Scale Physics Workshop, Tshinghua Univeristy
Beijing, China Nov 2012
- Lectures on Particle Dark Matter*
DPG School on Heavy Particles at the LHC
Bad Honef, Germany Sept 2012
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<i>Searching for Dark Matter in the Discovery Age</i> Aspen Center for Physics, Physics Colloquium Aspen, USA	Aug 2012
<i>Lectures on Particle Dark Matter</i> SLAC Summer Institute SLAC, Menlo Park, USA	July 2012
<i>Dark Forces and Light Dark Matter</i> PATRAS Workshop Chicago, USA	July 2012
<i>Indirect Evidence For Light WIMPs</i> SnowDOG Workshop Salt Lake City, USA	April 2012
<i>Dark Matter in the Discovery Age</i> Fermilab Dark Matter Workshop, Opening Talk, Fermilab, Batavia, USA	April 2012
<i>Indirect Evidence For Light WIMPs</i> UCLA Dark Matter Workshop, Marina Del Ray, USA	Feb 2012
<i>Indirect Evidence For Light Dark Matter</i> University of Pittsburg Light Dark Matter Workshop Pittsburg, USA	Nov 2011
<i>Light WIMPs!</i> SUSY 2011 Workshop Chicago, USA	Sept 2011
<i>Closing In On Dark Matter</i> Dark Workshop Copenhagen, Denmark	Aug 2011
<i>Light WIMPs!</i> TeV Particle Astrophysics 2011 Workshop Stockholm, Sweden	Aug 2011
<i>Closing In On Dark Matter</i> April Americal Physical Society, Plenary Talk Annaheim, USA	May 2011
<i>The Observational Case For 8-10 GeV Dark Matter</i> Princeton Dark Matter Direct Detection Workshop Princeton, USA	Nov 2010

<i>Indirect Searches For Dark Matter</i> Darkness Visible Workshop Cambridge, England	Aug 2010
<i>Dark Matter Subhalos In The First Fermi Source Catalog</i> Identification of Dark Matter (IDM) 2010 Workshop Montpellier, France	July 2010
<i>Dark Matter Subhalos In The First Fermi Source Catalog</i> TeV Particle-Astrophysics IV Workshop Paris, France	July 2010
<i>Gamma Ray Searches For Dark Matter</i> 2010 UCLA Dark Matter Workshop UCLA, Los Angeles, USA	Feb 2010
<i>Recent Developments in the Indirect Detection of Dark Matter</i> Focus Week on Indirect Dark Matter Searches University of Tokyo (IPMU), Japan	Dec 2009
<i>Did Dark Matter Annihilations Reionize The Universe?</i> New Lights on Dark Matter Conference Perimeter Institute, Waterloo, Canada	June 2009
<i>Direct and Indirect Searches For Particle Dark Matter (The discovery era begins)</i> Invited Talk, Pheno 2007 Symposium University of Wisconsin, Madison, USA	May 2009
<i>Direct and Indirect Searches For Particle Dark Matter (The discovery era begins)</i> Invited Talk, American Physical Society Meeting Denver, USA	May 2009
<i>Particle Dark Matter and Charged Cosmic Rays</i> Understanding the Dark Sector: Dark Matter and Dark Energy Aspen Center for Physics, Aspen, USA	April 2009
<i>Opening Talk/Introduction</i> Detecting Dark Matter in the Milky Way Workshop Case Western Reserve University, Cleveland, USA	April 2009
<i>Particle Dark Matter and Charged Cosmic Rays</i> Shedding Light on Dark Matter Workshop University of Maryland, College Park, USA	Mar 2009
<i>Particle Dark Matter and Charged Cosmic Rays</i> International Linear Collider Workshop University of Illinois, Chicago, USA	Nov 2008

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- Particle Dark Matter and Charged Cosmic Rays*
KICP Workshop on High Energy Astrophysics Experiments & Cosmological Physics
University of Chicago, Chicago, USA Oct 2008
- Direct and Indirect Searches For Particle Dark Matter*
Invited Talk, COSMO 2008
University of Wisconsin, Madison, USA Aug 2008
- Dark Matter Annihilations in the WMAP Sky*
Identification of Dark Matter 2008 Conference
University of Stockholm, Sweden Aug 2008
- Dark Matter Annihilations in the WMAP Sky*
UCLA Dark Matter 2008 Conference
University of California, Los Angeles (UCLA), USA Feb 2008
- Dark Matter Annihilations in the WMAP Sky*
Royal Astronomy Society Meeting on Dark matter
Royal Astronomy Society, London, England Nov 2007
- Dark Matter Annihilations in the WMAP Sky*
Dark Matter and Colliders Ultra-Mini Workshop
University of Edinburgh, Scotland Nov 2007
- The First Extragalactic High Energy Neutrinos*
TeV Astroparticle Physics III Workshop
Istituto Veneto, Venice, Italy Aug 2007
- Indirect Searches For Particle Dark Matter*
Invited talk, SUSY 2007
University of Karlsruhe, Germany July 2007
- The Hunt For The Identity of Dark Matter*
Fermilab User's Meeting
Fermilab, USA May 2007
- Exotic Physics With The First High Energy Cosmic Neutrinos*
Invited talk, PPC 2007 Workshop
Texas A&M University, College Station, USA May 2007
- The Hunt For Dark Matter: Conference Summary*
The Hunt For Dark Matter Workshop
Fermilab, USA May 2007
- The Small Scale Structure of MeV Dark Matter*
Pheno 2007 Symposium,
University of Wisconsin, Madison, USA May 2007
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<i>The Small Scale Structure of MeV Dark Matter</i> Midwest Theory Conference University of Kansas, Lawrence, USA	April 2007
<i>Ultrahigh Energy Cosmic Ray Nuclei and Neutrinos</i> Aspen Workshop on Cosmic Rays April 2007 Aspen, USA	April 2007
<i>The Small Scale Structure of MeV Dark Matter</i> Astrophysical Probes of the Nature of Dark Matter Workshop University of California, Irvine, USA	Mar 2007
<i>Exotic Physics With The First High Energy Neutrinos</i> Aspen 2007 Meeting on Neutrinos in Physics and Astrophysics Aspen, USA	Jan 2007
<i>The Hunt For Dark Matter</i> XII-th IFT-Christmas Workshop Instituto de Fisica Teorica, Madrid, Spain	Dec 2006
<i>Kaluza-Klein Dark Matter</i> Exotic Neutrino Workshop Uppsala, Sweden	Sept 2006
<i>Direct and Indirect Detection and Supersymmetry</i> Identification of Dark Matter 2006 Rhodes, Greece	Sept 2006
<i>Neutrino Astronomy Working Group Summary Talk</i> TeV Particle-Astrophysics II Workshop University of Wisconsin, Madison, USA	Aug 2006
<i>Determining SUSY Parameters Using Dark Matter</i> TeV Particle-Astrophysics II Workshop University of Wisconsin, Madison, USA	Aug 2006
<i>Cosmology and the International Linear Collider, Summary Talk</i> Vancouver Linear Collider Workshop University of British Columbia, Vancouver, Canada	July 2006
<i>What Can We Learn About Supersymmetry From Astrophysics Experiments?</i> Cosmo/Astro Mini-Workshop University of Oregon, Eugene, USA	May 2006
<i>Implications of Direct Dark Matter Experiments for MSSM Higgs Searches at the Tevatron</i> Pheno 2006 Symposium University of Wisconsin, Madison, USA	May 2006

<i>Probing Supersymmetric Parameters With Astrophysical Observations</i> Dark Matter 2006 Conference UCLA, Los Angeles, USA	Feb 2006
<i>Lecture Series on Particle Dark Matter and its Detection</i> 4th KAIST-KIAS Workshop on Particle Physics and Cosmology Korea Institute for Advanced Study (KIAS), Seoul, South Korea	Oct 2005
<i>Probing Exotic Physics With Cosmic Neutrinos</i> From Colliders to Cosmic Rays 2005 Workshop Prague, Czech Republic	Sept 2005
<i>Annihilation of Heavy Dark Matter in the Galactic Center</i> GLAST Collaboration Workshop SLAC, Menlo Park, USA	Aug 2005
<i>Lecture Series on Particle Dark Matter and its Detection</i> 6th APC Summer School Paris, France	June 2005
<i>Annihilation of Heavy Dark Matter in the Galactic Center</i> 5th International APC Workshop Paris, France	June 2005
<i>Hot on the Trail of Particle Dark Matter: Indirect Searches</i> Invited Talk, UK High Energy Physics Forum - Dark Matter Abingdon, UK	May 2005
<i>Unexplained Astrophysics? Hints of Dark Matter?</i> Invited Talk, SUSY Research Meeting (GDR) Grenoble, France	April 2005
<i>Particle Dark Matter: Alternatives to Superpartners</i> European Network of Theoretical Astroparticle Physics Dark Matter Visitor's Programme CERN, Switzerland	Jan 2005
<i>Recent Developments in Indirect Searches for Dark Matter</i> The Search for Dark Matter and Dark Energy in the Universe: Royal Society Meeting Royal Society, London, UK	Nov 2004
<i>Neutrino Telescopes and Dark Matter: Beyond Neutralinos</i> IceCube/AMANDA collaboration meeting Uppsala, Sweden	Oct 2004
<i>Indirect Searches for Kaluza-Klein Dark Matter</i> Identification of Dark Matter 2004 Edinburgh, Scotland	Sept 2004

<i>Indirect Searches for Kaluza-Klein Dark Matter</i> New Trends in Particle Physics and Cosmology Summer Workshop University of Sheffield, UK	Sept 2004
<i>Kaluza-Klein Dark Matter and the Positron Excess</i> Pheno 2004 Symposium University of Wisconsin, Madison, USA	April 2004
<i>High-Energy Neutrino Astrophysics</i> Invited Talk, Cracow Epiphany Conference on Astroparticle Physics Cracow, Poland	Jan 2004
<i>Dark Matter in Little Higgs Models</i> Oxford-Princeton Cosmology Workshop University of Oxford, UK	Jan 2004
<i>Detection of MeV Dark Matter? Astrophysics and Particle Physics Implications</i> Workshop on Dark Matter and Dark Energy Physikzentrum in Bad Honnef, Germany	Dec 2003
<i>The Possibility of MeV Dark Matter</i> UK Cosmology Meeting University of Portsmouth, UK	Nov 2003
<i>Limits on Supersymmetric Dark Matter From EGRET Observations Of The Galactic Center Region</i> COSMO 2003 Lake District, UK	Aug 2003
<i>Limits on Supersymmetric Dark Matter From EGRET Observations Of The Galactic Center Region</i> Pheno 2003 Symposium University of Wisconsin, Madison, USA	May 2003
<i>Limits on Supersymmetric Dark Matter From EGRET Observations of the Galactic Center Region</i> 34th COSPAR Scientific Assembly Houston, USA	Oct 2002
<i>Neutrinos Associated With Cosmic Rays of Top-Down Origin</i> COSMO 2002 University of Chicago, Chicago, USA	Sept 2002
<i>Observing Microscopic Black Holes In Neutrino Telescopes</i> Pheno 2002 Symposium University of Wisconsin, Madison, USA	April 2002

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- Neutrinos From The Decay Or Annihilation Of Superheavy Dark Matter Particles*
Dark Matter 2002 Conference
UCLA, Los Angeles, USA Feb 2002
- Supersymmetry And Extra Dimensions With Neutrino Telescopes*
SUSY and Extra Dimensions Workshop
Argonne National Lab, USA June 2001
- Phenomenology Of High-Energy Neutrinos In Models With Low Energy Quantum Gravity*
Pheno 2001 Symposium
University of Wisconsin, Madison, USA May 2001
- High-Energy Neutrino Signals From Gamma-Ray Bursts*
Frontiers In Contemporary Physics II Workshop
Vanderbilt University, Nashville, USA March 2001
- TeV Supersymmetric Dark Matter And Indirect Detection*
30 Years of Supersymmetry Workshop
University of Minnesota, Minneapolis, USA Oct 2000

SEMINARS AND COLLOQUIA	<i>The Galactic Center Gamma-Ray Excess</i> Caltech, Physics Colloquium	April 2023
	<i>The Galactic Center Gamma-Ray Excess</i> University of California, Davis, Physics Colloquium	Jan 2023
	<i>Dark Matter, Pulsars, and the Galactic Center Gamma-Ray Excess</i> University of Michigan, Physics Colloquium	March 2022
	<i>Dark Matter, Pulsars, and the Galactic Center Gamma-Ray Excess</i> Copernicus (Virtual) Colloquium Series	Nov 2022
	<i>Black Holes in the Early Universe</i> Peking University Center for High Energy Physics, (Virtual) Colloquium	Oct 2021
	<i>Why I'm Excited About WIMPs</i> Texas A&M, Physics Colloquium	Sept 2021
	<i>Black Holes in the Early Universe</i> Texas A&M, Theory Seminar	Sept 2021
	<i>Why I'm Excited About WIMPs</i> LZ Collaboration All Hands Meeting (Virtual)	Apr 2021
	<i>Dark Matter, Pulsars, and the Galactic Center Gamma-Ray Excess</i> SLAC EPP Theory Seminar	Apr 2021
	<i>Black Holes in the Early Universe</i> Gran Sasso Science Institute, Astroparticle Colloquium (Virtual)	Feb 2021
	<i>Black Holes in the Early Universe</i> Northern Illinois University, Physics Colloquium (Virtual)	Feb 2021
	<i>Black Holes in the Early Universe</i> University of Texas, Austin, Theory Seminar (Virtual)	Sept 2020
	<i>Black Holes in the Early Universe</i> Fermilab, Colloquium (Virtual)	April 2020
	<i>The WIMP is Dead! Long Live the WIMP!</i> DESY Hamburg, Particle and Astroparticle Physics Colloquium	Feb 2020
	<i>Dark Radiation and Dark Matter from Black Holes in the Early Universe</i> Rutgers University, High-Energy Physics Seminar	Dec 2019
	<i>Dark Radiation and Dark Matter from Black Holes in the Early Universe</i> New York University, High-Energy Physics Seminar	Nov 2019

<i>The WIMP is Dead! Long Live the WIMP!</i> Indiana University, Physics Colloquium	Feb 2019
<i>The WIMP is Dead! Long Live the WIMP!</i> University of Oregon, ITS/CHEP Seminar	Feb 2019
<i>Could the Inflaton also be the Dark Matter</i> Wichita State University, Physics Seminar	Oct 2018
<i>Could the Inflaton also be the Dark Matter</i> University of Michigan, Physics Colloquium	Sept 2018
<i>The WIMP is Dead! Long Live the WIMP!</i> Case Western Reserve University, Physics Colloquium	Sept 2018
<i>The WIMP is Dead! Long Live the WIMP!</i> Brown University, Physics Colloquium	April 2018
<i>The WIMP is Dead! Long Live the WIMP!</i> Carnegie Observatories, Colloquium	Jan 2018
<i>HAWC, Nearby Pulsars and Implications for the High-Energy Universe</i> Penn State, High-Energy Physics Seminar	Dec 2017
<i>The WIMP is Dead! Long Live the WIMP!</i> University of Chicago, Astronomy and Astrophysics Colloquium	Nov 2017
<i>The WIMP is Dead! Long Live the WIMP!</i> Lawrence Berkeley National Laboratory, High-Energy Theory Seminar	Oct 2017
<i>The WIMP is Dead! Long Live the WIMP!</i> Harvard Center for Astrophysics, Colloquium	Oct 2017
<i>HAWC, Pulsars and the Cosmic-Ray Positron Excess</i> Harvard University, ITC Luncheon Talk	Oct 2017
<i>HAWC, Pulsars and the Cosmic-Ray Positron Excess</i> Los Alamos National Laboratory, Physics and Theory Division Colloquium	Oct 2017
<i>The Galactic Center Gamma-Ray Excess</i> University of Oxford, Particle Theory Seminar	April 2017
<i>New Insights Into the Cosmic-Ray Positron Excess</i> Fermilab, Particle-Astrophysics Seminar	April 2017
<i>New Insights Into the Cosmic-Ray Positron Excess</i> Fermilab, Particle-Astrophysics Seminar	April 2017

<i>Making Sense of Recent Results from Cosmic-Ray Experiments</i> Fermilab, LHC Physics Center (LPC) Forum	March 2017
<i>New Insights Into the Cosmic-Ray Positron Excess</i> University of California, Irvine, Joint Particle Seminar	March 2017
<i>Dark Matter Annihilation in the Gamma-Ray Sky</i> University of North Carolina, Physics Colloquium	Feb 2017
<i>Dark Matter Annihilation in the Gamma-Ray Sky</i> University of Maryland, Physics Colloquium	Feb 2016
<i>Dark Matter Annihilation in the Gamma-Ray Sky</i> LPTHE Campus Jussieu, Paris, Theory Seminar	Dec 2015
<i>Dark Matter Annihilation in the Gamma-Ray Sky</i> University of Wisconsin, Physics Colloquium	Oct 2015
<i>Dark Matter Annihilation in the Galactic Center</i> Laboratory Astroparticule et Cosmologie, Paris, Theory Seminar	May 2015
<i>Dark Matter Annihilation in the Galactic Center (and Dwarf Galaxies?)</i> Princeton Institute for Advanced Study, Seminar	March 2015
<i>Dark Matter Annihilation in the Galactic Center</i> Washington University, Theory Seminar	Dec 2014
<i>Dark Matter Annihilation in the Galactic Center</i> Massachusetts Institute of Technology, Astrophysics Division Colloquium	Nov 2014
<i>Dark Matter Annihilation in the Galactic Center</i> KEK, Theory Seminar	Oct 2014
<i>Dark Matter Annihilation in the Galactic Center</i> Argonne National Laboratory, High Energy Physics Seminar	June 2014
<i>Dark Matter Annihilation in the Galactic Center</i> Florida Institute of Technology, Physics Colloquium	Jan 2014
<i>Searching for Dark Matter in the Discovery Age</i> Purdue University, Physics Colloquium	Nov 2013
<i>Searching for Dark Matter in the Discovery Age</i> Indiana University, Physics Colloquium	Nov 2013
<i>Particle Dark Matter</i> Lectures at International PhD Course, Niels Bohr Institute, Copenhagen	Oct 2013

<i>Gamma Rays from Dark Matter in the Galactic Center and Inner Galaxy</i> University of Chicago, Physics Colloquium	Oct 2013
<i>Searching for Dark Matter in the Discovery Age</i> University of Illinois, Urbana-Champaign, Physics Colloquium	April 2013
<i>Gamma Rays from Dark Matter in the Galactic Center and Inner Galaxy</i> Fermilab Particle-Astrophysics Seminar	March 2013
<i>Searching for Dark Matter in the Discovery Age</i> Syracuse University, Physics Colloquium	Feb 2013
<i>Searching for Dark Matter in the Discovery Age</i> University of Washington, Physics Colloquium	Dec 2013
<i>Searching for Dark Matter in the Discovery Age</i> Carnegie Mellon University, High-Energy Physics Seminar	Oct 2012
<i>Dark Matter in the Discovery Age</i> Argonne National Laboratory, Astrophysics Lunch Talk	April 2012
<i>Dark Matter in the Discovery Age</i> McGill University, Physics Colloquium	March 2012
<i>Dark Matter in the Discovery Age</i> New York University, Physics Colloquium	March 2012
<i>The Empirical Case For 10 GeV Dark Matter</i> New York University, High-Energy Physics Seminar	Feb 2012
<i>The Empirical Case For 10 GeV Dark Matter</i> University of Wisconsin, Phenomenology Seminar	Feb 2012
<i>The Empirical Case For 10 GeV Dark Matter</i> Princeton Institute for Advanced Study, Astrophysics Seminar	Jan 2012
<i>The Hunt For Dark Matter</i> University of North Florida, Physics Colloquium	Jan 2012
<i>Light WIMPs!</i> Harvard University, High-Energy Physics Seminar	Dec 2011
<i>Closing in on Dark Matter</i> Case Western Reserve University, Physics Colloquium	Nov 2011
<i>Closing in on Dark Matter</i> University of Alberta, Physics Colloquium	Oct 2011

<i>Light WIMPs!</i> Northwestern University, Astrophysics Seminar	Sept 2011
<i>Light WIMPs!</i> University of Maryland, High Energy Physics Seminar	Sept 2011
<i>Light WIMPs!</i> Argonne National Laboratory, High Energy Physics Seminar	Sept 2011
<i>Light WIMPs!</i> CERN, Theory Division Seminar	May 2011
<i>Light WIMPs!</i> Ohio State, CCAPP Seminar	April 2011
<i>Light WIMPs!</i> University of California, Particle Theory Seminar.	April 2011
<i>Closing In On Dark Matter</i> University of Illinois, Urbana-Champaign, Astrophysics Colloquium	March 2011
<i>Closing In On Dark Matter</i> Illinois Institute of Technology, Physics Colloquium	Jan 2011
<i>The Observational Case For 8-10 GeV Dark Matter</i> University of California, High Energy Physics Seminar	Dec 2010
<i>The Observational Case For 8-10 GeV Dark Matter</i> Virginia Tech, Physics Colloquium	Dec 2010
<i>The Hunt For Dark Matter Continues</i> Aspen Center for Physics Colloquium	June 2010
<i>The Hunt For Dark Matter Continues</i> Uppsala University, Physics and Astronomy Colloquium	May 2010
<i>The Hunt For Dark Matter Continues</i> University of Stockholm, Joint Physics Colloquium	May 2010
<i>The Hunt For Dark Matter Continues</i> University of Texas, Austin, High Energy Physics Seminar	March 2010
<i>The Hunt For Dark Matter Continues</i> University of Chicago, Physics Colloquium	March 2010
<i>Charged Cosmic Rays And Dark Matter</i> University of Chicago, KICP Seminar	Jan 2010

<i>The Hunt For Dark Matter's Particle Identity</i> University of Notre Dame, Physics Colloquium	Sept 2009
<i>Charged Cosmic Rays And Dark Matter</i> University of Notre Dame, High Energy Physics Seminar	Sept 2009
<i>Did Dark Matter Annihilations Reionize The Universe?</i> University of Toronto (CITA), Cosmology Seminar	June 2009
<i>Particle Dark Matter and Charged Cosmic Rays</i> Rutgers University, High Energy Physics Seminar	April 2009
<i>Particle Dark Matter and Charged Cosmic Rays</i> Fermi National Accelerator Laboratory, Colloquium	April 2009
<i>Particle Dark Matter and Charged Cosmic Rays</i> Michigan State University, Astrophysics Seminar	March 2009
<i>Particle Dark Matter and Charged Cosmic Rays</i> Stanford University, Fermi/GLAST Seminar	March 2009
<i>The Hunt For Dark Matter</i> Stanford University, Theoretical Physics Seminar	March 2009
<i>Particle Dark Matter and Charged Cosmic Rays</i> University of Chicago, KICP Colloquium	Jan 2009
<i>The Hunt For Dark Matter</i> Argonne National Laboratory, Physics Colloquium	Nov 2008
<i>The Hunt For Dark Matter</i> University of Kentucky, Lexington, Physics Colloquium	Nov 2008
<i>Hot on the Trail of Particle Dark Matter</i> University of Arizona, Tuscon, Physics Colloquium	Nov 2008
<i>Particle Dark Matter</i> University of Colorado, Boulder, TASI Lectures	July 2008
<i>Hot on the Trail of Particle Dark Matter</i> Lawrence Berkeley National Laboratory, Astrophysics Colloquium	June 2008
<i>Hot on the Trail of Particle Dark Matter</i> Brookhaven National Laboratory, High Energy Physics Seminar	May 2008
<i>Hot on the Trail of Particle Dark Matter</i> Arizona State University, Particle Physics and Astrophysics Seminar	April 2008

<i>Hot on the Trail of Particle Dark Matter</i> Los Alamos National Laboratory, Astrophysics Seminar	April 2008
<i>Hot on the Trail of Particle Dark Matter</i> Cornell University, High Energy Physics Seminar	April 2008
<i>Hot on the Trail of Particle Dark Matter</i> University of Wisconsin, Madison, Physics Colloquium	Feb 2008
<i>Hot on the Trail of Particle Dark Matter</i> Carleton University, Ottawa, Physics Colloquium	Jan 2008
<i>Hot on the Trail of Particle Dark Matter</i> University of Chicago, Astronomy and Astrophysics Colloquium	Dec 2007
<i>Hot on the Trail of Particle Dark Matter</i> Harvard University, Astronomy Colloquium	Oct 2007
<i>Dark Matter Annihilations in the WMAP Sky</i> Harvard University, Particle Physics Seminar	Oct 2007
<i>Dark Matter Annihilations in the WMAP Sky</i> University of Wisconsin, Madison, Astrophysics Seminar	Oct 2007
<i>Dark Matter Annihilations in the WMAP Sky</i> Argonne National Laboratory, Particle Physics Seminar	Oct 2007
<i>Dark Matter Annihilations in the WMAP Sky</i> University of Edinburgh, Particle Physics Colloquium	Aug 2007
<i>The Hunt For The Identity Of Dark Matter</i> Ohio University, Athens, Particle/Nuclear/Astrophysics Seminar	April 2007
<i>The Hunt For The Identity Of Dark Matter</i> Brown University, Theoretical Physics Seminar	March 2007
<i>The Hunt For The Identity Of Dark Matter</i> Columbia University, Special Seminar	March 2007
<i>Studing Supersymmetry With Dark Matter</i> DESY, Hamburg, Particle-Cosmology Seminar	Dec 2006
<i>Studing Supersymmetry With Dark Matter</i> University of Illinois, Urbana-Champaign, High-Energy Physics Seminar	Dec 2006
<i>The Hunt For Dark Matter</i> University of Wisconsin, Milwaukee, Physics Colloquium	Dec 2006

<i>Kaluza-Klein Dark Matter</i> University of Wisconsin, Milwaukee, Gravity/Particle Physics Seminar	Dec 2006
<i>Studing Supersymmetry With Dark Matter</i> Vanderbilt University, Particle-Cosmology Seminar	Nov 2006
<i>Studing Supersymmetry With Dark Matter</i> New York University, High Energy Physics Seminar	Nov 2006
<i>Studing Supersymmetry With Dark Matter</i> Perimeter Institute, Cosmology Seminar	Oct 2006
<i>Studing Supersymmetry With Dark Matter</i> University of Oxford, BIPAC Particle-Astrophysics Seminar	Sept 2006
<i>Studing Supersymmetry With Dark Matter</i> Fermi National Accelerator Laboratory, Wine and Cheese Seminar	Sept 2006
<i>Probing Exotic Physics With High-Energy Neutrinos</i> University of Kansas, Lawrence, Seminar	April 2006
<i>Hot on the Trail of Particle Dark Matter</i> University of Kansas, Lawrence, Physics Colloquium	April 2006
<i>Searching for Dark Matter</i> Massachusetts Institute of Technology, Nuclear/Particle Theory Seminar	March 2006
<i>In Search of Particle Dark Matter</i> Case Western Reserve University, Particle Astrophysics Seminar	Feb 2006
<i>In Search of Particle Dark Matter</i> University of Maryland, College Park, Seminar	Feb 2006
<i>In Search of Particle Dark Matter</i> SLAC/Stanford University, KIPAC Seminar	Feb 2006
<i>Searching for the Identity of Dark Matter</i> California Institute of Technology, Theory Seminar	Feb 2006
<i>Searching for the Identity of Dark Matter</i> Northwestern University, High Energy Physics Seminar	Jan 2006
<i>Searching for the Identity of Dark Matter</i> University of Rochester, High Energy/Nuclear Physics Seminar	Dec 2005
<i>Searching for the Identity of Dark Matter</i> University of Maryland, College Park, Elementary Particle Theory Seminar	Nov 2005

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- Hot on the Trail of Particle Dark Matter*
Cambridge Institute of Astronomy, Cambridge University, Colloquium May 2005
- Particle Dark Matter: Alternatives to Superpartners*
University of Sussex, Particle Physics/Cosmology Seminar March 2005
- Particle Dark Matter: Alternatives to Superpartners*
University of Lancaster, Cosmology Seminar Feb 2005
- Hot on the Trail of Particle Dark Matter: Indirect Searches*
University of Wisconsin, Madison, Phenomenology Seminar Dec 2004
- Hot on the Trail of Particle Dark Matter: Indirect Searches*
University of California, Davis, High-Energy Physics Seminar Dec 2004
- Hot on the Trail of Particle Dark Matter: Indirect Searches*
Institute for Advanced Study, Princeton, Astrophysics Seminar Dec 2004
- The Particle Physics Reach of High-Energy Neutrino Astronomy*
University of Sheffield, Astroparticle Physics and Cosmology Seminar Nov 2004
- The Particle Physics Reach of High-Energy Neutrino Astronomy*
University of Liverpool, Particle Physics Seminar Oct 2004
- Recent Developments in the Indirect Detection of Particle Dark Matter*
Imperial College, London, Astrophysics Group Seminar May 2004
- Recent Developments in the Indirect Detection of Particle Dark Matter*
Fermi National Accelerator Laboratory, Theoretical Astrophysics Seminar May 2004
- Indirect Detection of Particle Dark Matter*
Massachusetts Institute of Technology, Joint Theoretical Physics Seminar April 2004
- Indirect Detection of Particle Dark Matter*
Uppsala University, High-Energy Physics Seminar Feb 2004
- Indirect Detection of Particle Dark Matter*
Stockholm University, Astro-Particle Physics Seminar Feb 2004
- Direct and Indirect Searches For Supersymmetric Dark Matter*
Fermi National Accelerator Laboratory, Astrophysics Lunch Seminar June 2003
- Limits on Supersymmetric Dark Matter From EGRET Observations Of The Galactic Center Region*
CERN, Phenomenology Journal Club Jan 2003
- Neutrinos From Gamma-Ray Bursts and Gamma-Rays From The Galactic Center*
Osservatorio Astrofisico di Arcetri, Florence, Astrophysics Theory Seminar Jan 2003
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High-Energy Neutrino Astrophysics

University of Wisconsin, Milwaukee, Theory Seminar

Nov 2002

Searches For Supersymmetry And Extra Dimensions With High-Energy Neutrino Telescopes

Fermi National Accelerator Laboratory, Astrophysics Seminar

May 2001

SELECTED PUBLIC LECTURES AND EVENTS	<i>Life Beyond Earth (Panel Moderator)</i> Chicago Humanities Festival	Nov 2023
	<i>Alan Lightman on Spirituality and Science (Panel Moderator)</i> Chicago Humanities Festival	May 2023
	<i>At the Edge of Time</i> Naperville Astronomical Society	July 2022
	<i>Saturday Morning Physics Program</i> Fermilab	2016-2021
	<i>The Biggest Mysteries in Physics</i> Online event, through New Scientist Magazine	Oct 2020
	<i>At the Edge of Time</i> Fermilab Arts and Lecture Series (Virtual)	July 2020
	<i>At the Edge of Time</i> Royal Institution, London	Feb 2020
	<i>At the Edge of Time</i> Uncommon Core, University of Chicago Alumni Event, St. Petersburg	Jan 2020
	<i>At the Edge of Time</i> Town Hall Seattle	Nov 2019
	<i>At the Edge of Time</i> Oregon Museum of Science and Industry, Portland	Nov 2019
	<i>At the Edge of Time</i> Hayden Planetarium, New York	Nov 2019
	<i>At the Edge of Time</i> Smithsonian Associates, Hirshhorn Museum, Washington	Oct 2019
	<i>Our Dark Universe</i> Science Cafe, Dark Matter Coffee, Chicago	Oct 2017
	<i>Our Evolving Universe</i> Fermilab Physics Slam	Dec 2016
	<i>Revealing the Nature of Dark Matter</i> International Conference on High Energy Physics (ICHEP), Physics Slam	Aug 2016
	<i>Revealing the Nature of Dark Matter</i> Aspen Center for Physics	Aug 2015

<i>The Mysteries of Dark Matter, Dark Energy, and the Accelerating Universe</i> Chicago Science Festival	June 2015
<i>Revealing the Nature of Dark Matter</i> Fermilab Arts and Lecture Series	Jan 2015
<i>In Search of our Universe's Missing Mass and Energy</i> Chicago Astronomical Society Meeting, Adler Planetarium	March 2014
<i>Forum on Dark Matter and Dark Energy</i> Aspen Ideas Festival	June 2013
<i>In Search of our Universe's Missing Mass and Energy</i> First Annual Duncan Lecture, Auburn University	April 2013
<i>The Higgs Boson</i> TED-X Event Talk, Naperville, IL	Nov 2012
<i>Symmetry and Beauty In Particle Physics</i> Pecha Kucha Event, RTKL Architects, Chicago	May 2012
<i>Origins</i> Zygon Center Epic of Creation Lecture Series, University of Chicago	Sept 2011
<i>Our Dark Universe</i> Mid-Atlantic Planetarium Society Annual Conference, Warminster, PA	May 2011
<i>Our Dark Universe</i> Maryland Science Center, Lanham, MD	May 2011
<i>Our Dark Universe</i> Science Cafe, The Maproom Bar, Chicago	April 2011
<i>Our Dark Universe</i> Astrofest, Chicago Astronomical Society	Sept 2010
<i>Origins</i> Zygon Center Epic of Creation Lecture Series, University of Chicago	Sept 2010
<i>In Search of our Universe's Missing Mass and Energy</i> Naperville Astronomical Society	Oct 2009
<i>Origins</i> Zygon Center Epic of Creation Lecture Series, University of Chicago	Sept 2009
<i>In Search of our Universe's Missing Mass and Energy</i> Chicago Astronomical Society	May 2009

<i>In Search of our Universe's Missing Mass and Energy</i> St. Cloud State University	Feb 2009
<i>In Search of our Universe's Missing Mass and Energy</i> Great Lakes Planetarium Association Annual Meeting, Milwaukee	Oct 2008
<i>In Search of our Universe's Missing Mass and Energy</i> Naperville Astronomical Society	May 2008
<i>In Search of our Universe's Missing Mass and Energy</i> University of South Dakota, Vermillion	May 2008
<i>In Search of our Universe's Missing Mass and Energy</i> University of Wisconsin, Madison	Feb 2008
<i>In Search of our Universe's Missing Mass and Energy</i> Fermilab Arts and Lecture Series	Nov 2007

- PUBLICATION STATISTICS According to the **inSPIREHEP** database (as of Nov 2023):
- 258 articles
 - Over 25,200 total citations
 - *h*-index: 73
- PUBLICATIONS
258. F. Xue and D. Hooper, *The Dark Matter Discovery Potential of the Advanced Particle-Astrophysics Telescope (APT)*, [arXiv:2308.15538 [astro-ph.HE]].
 257. D. Hooper, A. Ireland, G. Krnjaic and A. Stebbins, *Supermassive Primordial Black Holes From Inflation*, [arXiv:2308.00756 [astro-ph.CO]].
 256. C. Blanco, D. Hooper, T. Linden and E. Pinetti, *On the Neutrino and Gamma-Ray Emission from NGC 1068*, [arXiv:2307.03259 [astro-ph.HE]].
 255. D. Hooper and H. Xiao, *Dark matter is the new BBN*, Phys. Dark Univ. **42**, 101353 (2023), [arXiv:2306.07339 [hep-ph]].
 254. A. Dekker, I. Holst, D. Hooper, G. Leone, E. Simon and H. Xiao, *Diffuse Ultra-High-Energy Gamma-Ray Emission From TeV Halos*, [arXiv:2306.00051 [astro-ph.HE]].
 253. D. Hooper and K. Plant, *A Leptonic Model for Neutrino Emission From Active Galactic Nuclei*, [arXiv:2305.06375 [astro-ph.HE]].
 252. I. Holst, D. Hooper, G. Krnjaic and D. Song, *Twin Sterile Neutrino Dark Matter*, [arXiv:2305.06364 [hep-ph]].
 251. D. Hooper, J. Iguaz Juan and P. D. Serpico, *Signals of a new gauge boson from IceCube and the muon $g-2$* , Phys. Rev. D **108**, no.2, 023007 (2023), [arXiv:2302.03571 [astro-ph.HE]].
 250. A. J. Evans, L. E. Strigari, O. Svenborn, A. Albert, J. P. Harding, D. Hooper, T. Linden and A. B. Pace, *On the gamma-ray emission from the core of the Sagittarius dwarf galaxy*, Mon. Not. Roy. Astron. Soc. **524**, no.3, 4574-4585 (2023), [arXiv:2212.08194 [astro-ph.HE]].
 249. C. Keith, D. Hooper and T. Linden, *Cherenkov Telescope Array will test whether pulsars generate the Galactic Center gamma-ray excess*, Phys. Rev. D **107**, no.10, 103001 (2023), [arXiv:2212.08080 [astro-ph.HE]].
 248. D. Hooper, A. Ireland and G. Krnjaic, *Cosmological Magnetic Fields From Primordial Kerr-Newman Black Holes*, Phys. Rev. D **107**, no.10, 103524 (2023), [arXiv:2206.04066 [astro-ph.CO]].
 247. O. M. Bitter and D. Hooper, *Constraining the Milky Way's Pulsar Population with the Cosmic-Ray Positron Fraction*, JCAP **10**, 081 (2022), [arXiv:2205.05200 [astro-ph.HE]].
 246. C. Keith, D. Hooper, T. Linden and R. Liu, *Sensitivity of Future Gamma-Ray Telescopes to Primordial Black Holes*, Phys. Rev. D **106**, no.4, 043003 (2022), [arXiv:2204.05337 [astro-ph.HE]].

245. R. K. Leane, S. Shin, L. Yang, G. Adhikari, H. Alhazmi, T. Aramaki, D. Baxter, F. Calore, R. Caputo and I. Cholis, *et al.* *Snowmass 2021 Cosmic Frontier White Paper: Puzzling Excesses in Dark Matter Searches and How to Resolve Them*, [arXiv:2203.06859 [hep-ph]].
244. J. Aalbers, K. Abe, V. Aerne, F. Agostini, S. A. Maouloud, D. S. Akerib, D. Y. Akimov, J. Akshat, A. K. A. Musalhi and F. Alder, *et al.* *A Next-Generation Liquid Xenon Observatory for Dark Matter and Neutrino Physics*, [arXiv:2203.02309 [physics.ins-det]].
243. F. Xu and D. Hooper, *Contribution From TeV halos to the Isotropic Gamma-Ray Background*, *Phys. Rev. D* **106**, no.2, 023005 (2022), [arXiv:2111.03646 [astro-ph.HE]].
242. I. Holst, D. Hooper and G. Krnjaic, *Simplest and Most Predictive Model of Muon $g-2$ and Thermal Dark Matter*, *Phys. Rev. Lett.* **128**, no.14, 141802 (2022), [arXiv:2107.09067 [hep-ph]].
241. D. Curtin, S. Gryba, D. Hooper, J. Scholtz and J. Setford, *Resurrecting the Fraternal Twin WIMP Miracle*, *Phys. Rev. D* **105**, no.3, 035033 (2022), [arXiv:2106.12578 [hep-ph]].
240. L. A. Anchordoqui, C. Bérat, M. E. Bertaina, A. Castellina, O. Deligny, R. Engel, G. R. Farrar, P. L. Ghia, D. Hooper and O. Kalashev, *et al.* *Hunting Superheavy Dark Matter with Ultra-high Energy Photons*, *Astropart. Phys.* **132**, 102614 (2021), [arXiv:2105.12895 [hep-ph]].
239. D. Hooper and T. Linden, *Evidence of TeV Halos Around Millisecond Pulsars*, *Phys. Rev. D* **105**, no.10, 103013 (2022), [arXiv:2104.00014 [astro-ph.HE]].
238. C. Keith and D. Hooper, *511 keV Excess and Primordial Black Holes*, *Phys. Rev. D* **104**, no.6, 063033 (2021), [arXiv:2103.08611 [astro-ph.CO]].
237. T. Sudoh, T. Linden and D. Hooper, *The Highest Energy HAWC Sources are Likely Leptonic and Powered by Pulsars*, *JCAP* **08**, 010 (2021), [arXiv:2101.11026 [astro-ph.HE]].
236. D. Hooper and G. Krnjaic, *GUT Baryogenesis With Primordial Black Holes*, *Phys. Rev. D* **103**, no.4, 043504 (2021), [arXiv:2010.01134 [hep-ph]].
235. D. Smith, D. Hooper and A. Vieregge, *Revisiting AGN as the Source of IceCube's Diffuse Neutrino Flux*, *JCAP* **03**, 031 (2021), [arXiv:2007.12706 [astro-ph.HE]].
234. I. Cholis, D. Hooper and T. Linden, *Constraining the Charge-Sign and Rigidity-Dependence of Solar Modulation*, [arXiv:2007.00669 [astro-ph.HE]].
233. R. Allahverdi, M. A. Amin, A. Berlin, N. Bernal, C. T. Byrnes, M. Sten Delos, A. L. Erickcek, M. Escudero, D. G. Figueroa and K. Freese, *et al.* *The First Three Seconds: a Review of Possible Expansion Histories of the Early Universe*, [arXiv:2006.16182 [astro-ph.CO]].
232. C. Keith, D. Hooper, N. Blinov and S. D. McDermott, *Constraints on Primordial Black Holes From Big Bang Nucleosynthesis Revisited*, *Phys. Rev. D* **102**, no.10, 103512 (2020), [arXiv:2006.03608 [astro-ph.CO]].

231. N. Blinov, C. Keith and D. Hooper, *Warm Decaying Dark Matter and the Hubble Tension*, JCAP **06**, 005 (2020), [arXiv:2004.06114 [astro-ph.CO]].
230. D. Hooper, G. Krnjaic, J. March-Russell, S. D. McDermott and R. Petrossian-Byrne, *Hot Gravitons and Gravitational Waves From Kerr Black Holes in the Early Universe*, [arXiv:2004.00618 [astro-ph.CO]].
229. I. Cholis, T. Linden and D. Hooper, *Antideuterons and Antihelium Nuclei From Anihilating Dark Matter*, Phys. Rev. D **102**, no.10, 103019 (2020), [arXiv:2001.08749 [astro-ph.HE]].
228. D. Hooper, R. K. Leane, Y. D. Tsai, S. Wegsman and S. J. Witte, *A Systematic Study of Hidden Sector Dark Matter: Application to the Gamma-Ray and Antiproton Excesses*, JHEP **07**, no.07, 163 (2020), [arXiv:1912.08821 [hep-ph]].
227. C. Blanco, M. Escudero, D. Hooper and S. J. Witte, *'Z' Mediated WIMPs: Dead, Dying, or Soon to be Detected?*, JCAP **11**, 024 (2019), [arXiv:1907.05893 [hep-ph]].
226. C. Blanco, M. S. Delos, A. L. Erickcek and D. Hooper, *Annihilation Signatures of Hidden Sector Dark Matter Within Early-Forming Microhalos*, Phys. Rev. D **100**, no.10, 103010 (2019), [arXiv:1906.00010 [astro-ph.CO]].
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Teaching Experience and Background

I consider classroom teaching and the mentorship of students and junior researchers to be incredibly important aspects of my profession. I take these roles extremely seriously and derive great personal satisfaction from performing them well.

I have significant teaching experience, at both the undergraduate and graduate levels. I have taught undergraduate courses that introduce cosmology, physics, and astronomy in various combinations to students of different backgrounds and interests. In preparation for such courses, I prepare detailed lecture notes which enable me to cover the material in a way that is as clear and easy to understand as possible. In addition, I read supplementary material beforehand which I use to make the subject matter more interesting to my students. This could be a book about the history of the subject, or other contextual information that might otherwise not make it into a typical physics lecture. I have always found that orbital mechanics is more interesting if one injects the occasional story about Tycho Brahe's extravagances, or about how Neptune was discovered through its gravitational perturbation of Uranus. This kind of preparation takes time and effort, but it also makes for a more impactful learning experience.

In addition to these pre-existing undergraduate courses, I have also developed and taught a course called Philosophical Problems in Cosmology. This course has been quite popular and attracts undergraduate students from a wide range of majors. It covers the philosophy and history of science in the Western tradition, from the ancient Greeks to the contemporary era, exploring a wide range of topics in epistemology and metaphysics. Essential to this course is not only what astronomers and physicists have learned about the universe, but *how* they learned it and why they think it is true (and well as what it means to make such claims). I have had great success in facilitating active debate and discussion in this course and thoroughly enjoy the opportunities it offers me to think outside of my normal modes of academic thought.

At the graduate level, I have taught courses that are part of the astrophysics core curriculum (Cosmology I, High-Energy Astrophysics) as well as courses on more advanced and specialized topics (Cosmology II, Particle Astrophysics). These courses have each been among the most popular of those taught in my department's graduate program and have been consistently well received. Like undergraduate courses, I realize that it takes time and effort to teach these classes well. I also know that a good course can significantly impact the future of a young scientist, making me entirely willing to go the extra mile. I also apply this enthusiasm to summer and winter school lectures, and to other similar opportunities that might arise.

The effort that I have put into preparing graduate courses and lectures ultimately motivated me to write my first textbook, *Particle Cosmology and Astrophysics*, which

will be published this spring by Princeton University Press. My aspiration for this book is that it will play a role similar to that once played by Kolb and Turner's *The Early Universe*, presenting the reader with an approachable but challenging introduction to these topics, while bridging some of the many gaps between cosmology, particle physics, and high-energy astrophysics.

If you would like to see copies of my course evaluations from the University of Chicago, please let me know. I would also be happy to provide an advanced copy of my textbook if you would find that useful.

Mentorship and Supervision

I take great pleasure in watching graduate students transform from enthusiastic novices into subject matter experts with their own capacity for original scientific research. Stewarding this progression, however, requires not only instruction in science, but also attention to human factors. On their own, students can be uncertain of how they fit into the academic world, of the expectations of others, and of how they can become the scientist (or other professional) that they wish to become. Thoughtful and empathetic mentorship can help to alleviate – or at least mitigate – these issues, enabling students to make better choices, to feel more motivated about their research, and to progress more rapidly in their academic development.

I do not adopt a one-size-fits-all approach to mentorship. Some students benefit from frequent and regular conversations about their progress and performance, while others require less attention of this kind. In some instances, a student might be dealing with problems that would benefit from mental health, medical, or other professional services, and a mentor can help them to access those resources. While I meet at least weekly with every graduate student and postdoc in my research group, I try to be available more often for those who would benefit from a greater degree of supervision.

In the case of postdocs and more senior graduate students, mentors play an important role in helping to navigate job applications, grant proposals, talk preparation, and other professional activities. As the academic job market has grown increasingly competitive in recent years, this kind of information has become only more important. I strive to provide every student and postdoc that I mentor with all the tools that they will need to reach their goals – whatever those goals may be.

Commitment to Diversity, Equity, and Inclusion

I am fully and wholeheartedly committed to the values of diversity, equity, and inclusion (DEI). My colleagues recognize me as someone who is dedicated to the promotion of these values and have placed me in positions which reflect that fact. Between 2020 and 2023, I served as a deputy co-chair for DEI in my department at the University of Chicago. At Fermilab, I have served on the Scientific Hiring Task Force, whose goal is to diversify the lab's scientific workforce. I am also on the committee at Fermilab that oversees the awarding of the Gates Fellowship, which “prioritizes the inclusion of first-generation

college graduates, and the representation of historically and contemporarily minoritized individuals underrepresented in theoretical physics.”

Throughout my adult life, I considered myself to be a supporter of civil rights, a feminist, and someone who was on the right side of history, recognizing America’s legacy of slavery and segregation as abhorrent. As time went on, I have come to view these stances as well intentioned, but insufficient. Like many Americans, I have been deeply moved by events of recent years, including the murder of George Floyd at the hands of the Minneapolis police. This ultimately motivated me to revisit my thinking on race, and to change from being merely not racist, into an anti-racist. I am determined to apply conscious effort and deliberate action toward the goal of ensuring that equal opportunities are available to people of all races and all backgrounds. On a personal note, my daughter and two granddaughters are black. My interactions with them have taught me a great deal about the black experience in America and have left me unable to ignore racism in any of its forms.

I believe that it is possible to make substantive progress on DEI issues as they pertain to the fields of physics and astronomy. When I started graduate school, only 12% of the PhDs awarded in physics were earned by women. Today, that number has risen to 21%. This reflects a meaningful, but unacceptably slow, rate of change. At this pace, we will attain gender parity only around the year 2100, illustrating just how imperative it is that we do everything we can to accelerate this progress.

At the University of Chicago, I have worked to implement several initiatives intended to advance DEI issues. I was part of a small group that commissioned our department’s first climate survey. I also worked to implement a mentorship program, and to reform the graduate admissions process. While individual steps such as these are unlikely to dramatically change the culture of our field, they can collectively increase the rate of this change, moving us incrementally closer to building the kind of academic culture that we all deserve.

Public Outreach

When it comes to science communication and outreach, I am an unabashed enthusiast. To date, I have written three books for non-technical audiences (*Dark Cosmos*, *Nature’s Blueprint*, and *At the Edge of Time*), as well as numerous articles for popular magazines, including *Scientific American*, *the Economist*, *Astronomy*, *New Scientist*, and *Time*. For the last three years, I have co-hosted the podcast *Why This Universe*, which over its run of 72 episodes has received more than 1,600,000 downloads. I have also given many public lectures and rarely turn down an invitation to communicate my enthusiasm for science to the public.

Statement of Research

Dan Hooper

Executive Summary

For many years, I have been running a world-class research group at Fermilab and at the Kavli Institute for Cosmological Physics at the University of Chicago. These efforts have included the supervision of approximately 10 graduate students and close collaboration with dozens of postdocs and other junior researchers. Scientifically, my research program has been and continues to be broader than most, spanning a diversity of topics within the fields of high-energy astrophysics, dark matter phenomenology, early universe cosmology, and particle physics theory. I am most well known for my work in the areas of high-energy neutrino astronomy, gamma-ray astronomy, and direct and indirect searches for particle dark matter.

The directions of my research have long been driven by the anticipation and realization of new data. As new experiments and telescopes come online, the focus of my science adjusts. The breadth of my scientific interests and background have made it possible for me to adapt more easily than most to a changing scientific landscape. Although I have worked on a wide variety of projects ranging from data analysis to pure theory, I most frequently perform research that is situated near the mid-point along this axis. This allows me to fully engage and interact with experimentalists, observers, phenomenologists, and more formal theorists.

I have taken on a variety of leadership roles over the years, in addition to those directly related to the management of my research group. I was the head of my department at Fermilab for six years (2017-23), was active in the Snowmass community planning exercise, and have organized several major international conferences. I have also served as the chair of several committees at the University of Chicago, including one that conducted a successful faculty search.

High-Energy Astrophysics

I began my scientific career as a theorist working primarily in the area of high-energy neutrino astronomy, and this subject continues to be close to my heart. We are currently living in an exciting time in which the IceCube Neutrino Observatory has been making the first detections of high-energy astrophysical neutrinos, and the first identifications of their sources. I have authored papers about many prospective sources of high-energy neutrinos, including active galactic nuclei (AGN) [1–5], gamma-ray bursts (GRB) [6–10], cosmogenic production [11,12], and dark matter annihilation or decay [13–23]. I consider

the origin of IceCube’s diffuse neutrino flux to be one of the most interesting outstanding questions in all of modern astrophysics.

More broadly speaking, neutrino astronomy is but one part of the modern program of multimessenger astrophysics, which utilizes photons, cosmic rays, neutrinos, and gravitational waves to probe our universe’s most extreme environments. I have been deeply involved in many of the facets of this research, including efforts to understand the origin, propagation, and composition of Galactic [24–29] and ultra-high energy [30–35] cosmic rays. I have also worked extensively in the field of gamma-ray astronomy, having studied the high- and very high-energy emission from AGN, pulsars, TeV halos, and other such sources [36–40]. In the case of TeV halos, my collaborators and I played a central role in identifying and understanding this strange class of objects [41–47]. With additional data anticipated from existing experiments and telescopes (IceCube, ARA, AMS, Fermi, HAWC, LHAASO, etc.), as well as from new high-energy neutrino telescopes (IceCube-Gen2, RNO-G, GRAND, POEMMA, PUEO, etc.) and ground- and space-based gamma-ray telescopes (CTA, AMIGO, e-ASTROGAM, APT, etc.), I can predict with confidence that high-energy multimessenger astrophysics will continue to be a central part of my research program for many years to come.

I have also done seminal work on how neutrino and gamma-ray telescopes can be used to test the limits of the Standard Model, and to search for evidence of exotic physics. In particular, I have authored pioneering papers proposing that neutrino telescopes could be used to search for a neutrino absorption feature from a new MeV-scale gauge boson [48–50], and that the propagation of gamma rays could be impacted by interactions with an axion-like particle [51–53]. I also wrote the first papers describing how neutrino telescopes could be used to measure the cross section for neutrino-nucleon scattering at very high-energies [54–59], and to measure the flavor ratios of astrophysical neutrinos [60–66], allowing us to probe a wide range of exotic physics scenarios.

Searches for Particle Dark Matter

Despite the diversity of compelling evidence in favor of dark matter’s existence and abundance in the universe, the particle identity of this substance remains unknown. Much of my career has been centered around this important outstanding question. My work on dark matter has covered an exceptionally broad range of topics, and includes studies related to its direct detection in underground laboratories [67–74], searches for dark matter at the Large Hadron Collider (LHC) and other accelerator experiments [75–79], the impact of dark matter on various astrophysical observables [80–88], and efforts to detect the dark matter’s annihilation and decay products using cosmic-ray detectors [89–105], neutrino telescopes [13–23, 106], gamma-ray telescopes [107–138], and instruments capable of detecting photons at other wavelengths [139–143].

My most well-known scientific contributions have been connected to the discovery and analysis of the signal known as the Galactic Center Gamma-Ray Excess. With Lisa Goodenough, I discovered this excess in 2009 in the publicly available data collected

by the Fermi Gamma-Ray Space Telescope [144], and coauthored many of the seminal papers describing its characteristics [145–148]. The spectral shape, angular distribution, and overall intensity of this signal are each in good agreement with that expected from annihilating dark matter (in the form of a ~ 50 GeV thermal relic), and this has resulted in a great deal of interest from the broader scientific community. I have also worked to determine how future observations and other information could be used to confirm or rule out dark matter interpretations of this signal [149–158].

Early Universe Cosmology

In recent years, I have become more interested in the physics of the early universe, motivated in large part by anticipated measurements of the cosmic microwave background (CMB) by telescopes such as SPT-3G, the Simons Observatory, and Stage IV CMB. These instruments will offer unprecedented sensitivity to B -mode polarization, the spectrum of primordial density perturbations, and the energy density in radiation at early times (i.e. N_{eff}), each of which carry valuable information about our universe’s early composition and evolution. My work in this area has included studies exploring the possibility that our universe may have experienced a matter-dominated era prior to Big Bang nucleosynthesis [159–161], that there could be a connection between inflation and the origin of dark matter [162, 163], and that inflation could have led to the formation of supermassive primordial black holes [164]. My collaborators and I have also considered the role that primordial black holes may have played in generating the dark matter [165], or the baryon asymmetry of our universe [166], as well as other related signals [167, 168] and constraints [169] that could pertain to such scenarios. I have also collaborated on a number of studies exploring the cosmological signals that would be associated with a variety of exotic physics scenarios [170–172].

Particle Theory and Phenomenology

Most of my work on particle physics theory and phenomenology has been focused on dark matter candidates and related model building. This includes my work on supersymmetric dark matter [173–186], dark matter in Twin Higgs theories [187, 188], Kaluza-Klein dark matter [189–191], hidden sector dark matter models [192–195], and other such scenarios [196–204]. I closely follow the latest results from the LHC and other particle physics experiments and allow that information to inform the future directions of my research. I am enthusiastic about collaborating with particle physicists, astrophysicists, and cosmologists alike, as required by the research problem at hand.

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