Miguel Mostafá — Curriculum Vitae

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Education

- **Ph.D. in Physics**, 2005
  Universidad Nacional de Cuyo – Instituto Balseiro, San Carlos de Bariloche, Argentina.
- **M.S. in Nuclear Engineering**, 1996
  Universidad Nacional de Cuyo – Instituto Balseiro, San Carlos de Bariloche, Argentina.

Experience

- **Dean**, School of Science and Engineering, University of Missouri-Kansas City (2026 – present)
- **Professor of Physics and Astronomy**, Division of Energy, Matter, and Systems, University of Missouri-Kansas City (2026 – present)
- **Dean**, College of Science and Technology, Temple University (2023 – 2026)
- **Professor of Physics**, Physics Department, Temple University (2023 – 2026)
- **Affiliate Faculty**, Department of Physics, Pennsylvania State University (2023 – present)
- **Associate Dean for Research and Innovation**, Eberly College of Science, Pennsylvania State University (2022 – 2023)
- **Associate Director**, Institute for Gravitation and the Cosmos, Pennsylvania State University (2023)
- **Director of the Center for Multimessenger Astrophysics**, Institute for Gravitation and the Cosmos, Pennsylvania State University (2021 – 2023)
- **Professor of Physics**, and **Professor of Astronomy and Astrophysics**, Pennsylvania State University (2017 – 2023)
- **Associate Professor of Physics**, Pennsylvania State University (2013 – 2017)
- **Associate Professor of Astronomy and Astrophysics**, Pennsylvania State University (2015 – 2017)
- **Associate Professor**, Colorado State University (2012 – 2013)
- **Assistant Professor**, Colorado State University (2008 – 2012)
- **Assistant Professor**, University of Utah (2006 – 2008)
- **Postdoctoral Research Associate**, University of New Mexico (2003 – 2005)
- **Postdoctoral Research Associate**, Università degli Studi di Torino, Italy (2001 – 2002)
- **Graduate Research Assistant**, Fermi National Accelerator Laboratory (1997 – 2000)
- **Undergraduate Research Assistant**, TANDAR Linear Accelerator Laboratory, Argentina (1996 – 1997)

Honors & Awards

- *2025 Lifetime Achievement and Scientific Research Award* and the *"Lumen et Magister" for Scientific Research*, Scuola Medica Salernitana.
- *2023 Faculty Scholar Medal for Outstanding Achievement in the Physical Sciences*, Penn State.
- *2022-23 BTAA Academic Leadership Program Fellow*, Penn State.
- *2022 Eberly College of Science Distinguished Mentoring Award*, Penn State.
- Elected *Fellow of the American Physical Society* in 2016.
- 2016 *C.I. Noll Award for Excellence in Teaching*, Penn State.

- ◇ 2009 *Outstanding Mentor Award*, Colorado State University.
- ◇ *Student Choice Award 2007*, University of Utah.
- ◇ *Istituto Nazionale di Fisica Nucleare* postdoctoral fellowship for non–Italian citizens (2001 – 2003).
- ◇ *Fondo para el mejoramiento de la calidad educativa* scholarship from the *InterAmerican Bank for Development* (1997 – 2000).
- ◇ *Comisión Nacional de Energía Atómica* scholarship (1996 – 1997).
- ◇ *Instituto Balseiro* scholarship (1992 – 1996).

Recent Publications

"Constraints on axion-like particles from ultra-high-energy observations of 3HWC J1908+063 with HAWC," R. Alfaro *et al.* [HAWC Collaboration], Journal of Cosmology and Astroparticle Physics **05** (2026) 024

"Search for TeV emission from spider millisecond pulsars with HAWC," R. Alfaro *et al.* [HAWC Collaboration], Physical Review **D 113** (2026) 083016

"Constraints on axion-like particles from ultra-high-energy observations of M87 with the HAWC observatory," R. Alfaro *et al.* [HAWC Collaboration], Physics of the Dark Universe **52** (2026) 102260

"Search for Signatures of Dark Matter Annihilation in the Galactic Center with HAWC," R. Alfaro *et al.* [HAWC Collaboration], Physical Review Letters **136** (2026) 191001

"Combined dark matter search towards dwarf spheroidal galaxies with Fermi-LAT, HAWC, H.E.S.S., MAGIC, and VERITAS," S. Abdollahi *et al.* [*Fermi*-LAT, HAWC, H.E.S.S., MAGIC, and VERITAS collaborations], Journal of Cosmology and Astroparticle Physics **03** (2026) 035

Renowned Publications

"Multi-messenger Observations of a Binary Neutron Star Merger," (4400+)
B. P. Abbott *et al.* [GROND, SALT Group, OzGrav, DFN, INTEGRAL, Virgo, Insight-Hxmt, MAXI Team, Fermi-LAT, J-GEM, RATIR, IceCube, CAASTRO, LWA, ePESSTO, GRAWITA, RIMAS, SKA South Africa/MeerKAT, H.E.S.S., 1M2H Team, IKI-GW Follow-up, Fermi GBM, Pi of Sky, DWF (Deeper Wider Faster Program), Dark Energy Survey, MASTER, AstroSat Cadmium Zinc Telluride Imager Team, Swift, Pierre Auger, ASKAP, VINROUGE, JAGWAR, Chandra Team at McGill University, TTU-NRAO, GROWTH, AGILE Team, MWA, ATCA, AST3, TOROS, Pan-STARRS, NuSTAR, ATLAS Telescopes, BOOTES, CaltechNRAO, LIGO Scientific, High Time Resolution Universe Survey, Nordic Optical Telescope, Las Cumbres Observatory Group, TZAC Consortium, LOFAR, IPN, DLT40, Texas Tech University, HAWC, ANTARES, KU, Dark Energy Camera GW-EM, CALET, Euro VLBI Team, ALMA Collaborations], The Astrophysical Journal Letters **848** (2017) L12

"The upgraded DØ detector" (1200+)
V. M. Abazov *et al.* [DØ Collaboration], Nucl. Instrum. Meth. A **565**, 463 (2006)

"The Pierre Auger Cosmic Ray Observatory," (1200+)
A. Aab *et al.* [Pierre Auger Collaboration], Nuclear Instruments and Methods in Physics Research **A 798** (2015) 172-213

"Multimessenger observations of a flaring blazar coincident with high-energy neutrino IceCube-170922A," (1100+)
M. G. Aartsen *et al.* [The IceCube Collaboration, Fermi-LAT, MAGIC, AGILE, ASAS-SN, HAWC, H.E.S.S., INTEGRAL, Kanata, Kiso, Kapteyn, Liverpool Telescope, Subaru, Swift/NuSTAR, VERITAS, and VLA/17B-403 teams], Science **361**, Issue 6398, eaat1378

"Properties and performance of the prototype instrument for the Pierre Auger Observatory," (900+)

J. Abraham et al. [Pierre Auger Collaboration], Nuclear Instruments and Methods in Physics Research **A 523** (2004) 50

"Observation of the suppression of the flux of cosmic rays above 4×10^{19} eV," (800+)
J. Abraham et al. [Pierre Auger Collaboration], Physical Review Letters **101** (2008) 061101

"Observation and properties of the $X(3872)$ decaying to $J/\psi\ \pi^+\pi^-$ in $\overline{p}p$ collisions at $\sqrt{s} = 1.96$ TeV" (800+)
V. M. Abazov *et al.* [DØ Collaboration], Phys. Rev. Lett. **93**, 162002 (2004)

"Correlation of the highest energy cosmic rays with nearby extragalactic objects," (800+)
J. Abraham et al. [Pierre Auger Collaboration], Science **318**, 939 (9 November 2007)

"Measurement of the Depth of Maximum of Extensive Air Showers above 10^{18} eV," (700+)
J. Abraham et al. [Pierre Auger Collaboration], Physical Review Letters **104** (2010) 091101

"Measurement of the energy spectrum of cosmic rays above 10^{18} eV using the Pierre Auger Observatory," (600+)
J. Abraham et al. [Pierre Auger Collaboration], Physics Letters B **685** (2010) 239

"Depth of maximum of air-shower profiles at the Pierre Auger Observatory. I. Measurements at energies above $10^{17.8}$ eV," (500+)
A. Aab *et al.* [Pierre Auger Collaboration], Physical Review **D 90** (2014) 122005

"Extended gamma-ray sources around pulsars constrain the origin of the positron flux at Earth," (500+)
A. U. Abeysekara *et al.* [HAWC Collaboration], Science **358**, 911-914 (17 November 2017)

"Observation of a Large-scale Anisotropy in the Arrival Directions of Cosmic Rays above 8×10^{18} eV," (500+)
A. Aab *et al.* [Pierre Auger Collaboration], Science **357**, 1266–1270 (22 September 2017)

"The Fluorescence Detector of the Pierre Auger Observatory," (500+)
J. Abraham et al. [Pierre Auger Collaboration], Nuclear Instruments and Methods in Physics Research **A 620** (2010) 227

"Correlation of the highest-energy cosmic rays with the positions of nearby active galactic nuclei," (500+)
J. Abraham et al. [Pierre Auger Collaboration], Astroparticle Physics **29** (2008) 188

(N+) Paper with more than N citations.