CURRICULUM VITAE

Daniel E. Lopez-Fogliani

- ***Investigador independiente CONICET,*** IFIBA/DF, Universidad de Buenos Aires & CONICET
- ***Profesor protitular*** (Prof. asociado, regular, simple), Pontificia Universidad Católica Argentina

Author with: more than 35 published articles, h=19 (INSPIRE), h=15 (SCOPUS)
more than 1000 citations in inSPIRE (more than 750 in SCOPUS)

May 2023

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Dr. Daniel LOPEZ
IFIBA (Universidad de Buenos Aires & CONICET)
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Responsible of the *Astroparticle and Particle Physics Group APgroup*, IFIBA/DF UBA-CONICET http://apgroup.df.uba.ar/

Major Field Research

Theoretical Physics (Phenomenology)

- *Particle Physics*
  Supersymmetric Standard Model Phenomenology: Collider Physics, Neutrino Physics, Higgs Physics.
- *Astroparticle Physics*
  Dark Matter candidates: Direct and Indirect Detection Searches.

2007: *PhD in theoretical Physics* at the "Universidad Autónoma de Madrid", Spain.

2007-2010: Research Associate (three years STFC postdoctoral contract, 2007-2010 north hemisphere academic years) at the Department of Physics & Astronomy, University of Sheffield, United Kingdom.

*2010-2012: Research Associate (*two years CNRS postdoctoral contract, 2010-2012 north hemisphere academic years *)* at the "Laboratoire de Physique Théorique", "Université de Paris-Sud XI", France.

Since 2012 CONICET researcher at IFIBA/DF, Universidad de Buenos Aires & CONICET.
Professor since 2016 at Pontificia Universidad Católica Argentina, UCA.

Rank since 2022: "investigador independiente", IFIBA/DF, UBA & CONICET
Associate professor, "profesor protitular, regular, simple", UCA

Summary of most relevant lines of research

Physics beyond the standard model: Theoretical search for new particles and fundamental interactions. Proposal for new physics searches at the LHC and dark matter experiments. Particularly in the context of well-motivated extensions of the standard model, as for instance the μ-from-ν supersymmetric standard model, μνSSM.

Five articles selected by the author as the most important or representative:

- D. E. Lopez-Fogliani, C. Muñoz, *"Searching for Supersymmetry: The μνSSM"* , A short review of the *μνSSM*, *Eur. Phys. J. Spec. Top.* ***229,*** 3263–3301 (2020) [arXiv:2009.01380 [hep-ph]].

- J. A. Aguilar–Saavedra , D. E. López-Fogliani, C. Muñoz, "Novel signatures for vector-like quarks", JHEP **1706** (2017) 095 [arXiv:1705.02526 [hep-ph]].

- G. A. Gomez-Vargas, D. E. Lopez-Fogliani, C. Munoz, A. D. Perez, R. Ruiz de Austri, "Search for sharp and smooth spectral signatures of μνSSM gravitino dark matter with Fermi-LAT", JCAP **03** (2017) 047 [arXiv:1608.08640 [hep-ph]].

- D. E. López-Fogliani, L. Roszkowski, R. Ruiz de Austri, T. A. Varley, *"A Bayesian Analysis of the Constrained NMSSM"*, *Phys. Rev.* **D80** (2009) 095013 [arXix:0906.4911 [hep-ph]].

- Daniel E. López-Fogliani and C. Muñoz, *"Proposal for a Supersymmetric Standard Model"*, *Phys. Rev. Lett.* **97** 041801 (2006) [arXix: hep-ph/0508297] (the article where we propose the *μνSSM*').

Citation Summary (inSPIRE)*:* *https://inspirehep.net/authors/1066278?ui-citation-summary=true*
(SCOPUS)*:* *https://www.scopus.com/authid/detail.uri?authorId=8672960700*

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Note: very brief version of the CV, for a complete CV please contact Dr. Daniel E. LOPEZ-Fogliani