

Lenin Del Rio Amador

CURRICULUM VITAE

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Professional Links:

Google Scholar: <https://scholar.google.com/citations?user=OzUrUOYAAAAJ>

Research Gate: <https://www.researchgate.net/profile/Lenin-Del-Rio-Amador>

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In the last few years, my work has focused on data processing, time series analysis and stochastic modelling of the atmospheric dynamics to make predictions based on the statistical properties of time series with structures spanning large ranges of scales (scaling, fractals, multifractals). The main results have led to the theoretical developing and operational set-up of the Stochastic Seasonal to Interannual Prediction System for long-range forecast of atmospheric fields: <http://www.physics.mcgill.ca/StocSIPS/>

LANGUAGES

- English (fully proficient)
 - French (fully proficient)
 - Spanish (native)
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EDUCATION

- 2013/09-2021/06: **PhD in Physics**, Department of Physics, McGill University, Canada
Thesis: “*StocSIPS, Stochastic Seasonal to Interannual Prediction System. Exploiting the atmosphere’s memory for long-term forecast*”
Supervisor: Professor Shaun Lovejoy
- 2008/11-2010/09: **MSc in Physics**, Physics Faculty, University of Havana, Cuba
Thesis: “*Transition to dissipation in heterogeneous superconducting bridges*”
Supervisor: Professor Ernesto Altshuler
- 2003/09-2008/07: **BSc in Physics**, Physics Faculty, University of Havana, Cuba
Summa Cum Laude
Thesis: “*Emergence of hotspots in superconducting micro-bridges*”
Supervisor: Professor Ernesto Altshuler
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PROFESSIONAL EXPERIENCE

- 2019/01-Present: Research Assistant, Department of Physics, McGill University
Research in Nonlinear dynamics and stochastic modeling of the atmosphere
- 2018/08-2019/01: Course Lecturer, Department of Physics, McGill University
Course imparted: Phys 559 – Advanced Statistical Mechanics, Fall 2018,
- 2013/09-2018/06: Graduate TA/Demonstrator, Department of Physics, McGill University
Research in Nonlinear dynamics and stochastic modeling of the atmosphere
- 2015/05-2016/08: Physics Instructor for Medical College Admissions Test (MCAT) (part time)
The Princeton Review, Canada
- 2010/09-2012/01: Instructor, Physics Faculty, University of Havana
Research in Superconductivity and Complex Systems

2008/09-2010/09: Teaching Assistant, Physics Faculty, University of Havana
Research in Superconductivity and Complex Systems

SCHOLARSHIPS, ACHIEVEMENTS AND AWARDS

2013-2016: Bourse de Doctorat Hydro-Québec en Sciences
2016: Award of the Science Academy of Cuba 2015
2008: First place in the “Materials Science” commission at the Student Scientific Forum, University of Havana
2006: First place in the “Theoretical Physics” commission and Absolute Winner of the Student Scientific Forum, University of Havana
2004: Honorable mention in the “Theoretical Physics” commission at the Student Scientific Forum, University of Havana
2002: **Silver medalist and Captain of the team participating in the International Physics Olympiad, Bali, Indonesia (IPhO – 2002) (corresponding to the best result of Cuba in IPhOs): <http://ipho-unofficial.org/countries/CUB/individual>**
2001: Participation in the International Physics Olympiad, Antalya, Turkey, (IPhO–2001)
2002, 2001, 2000: Gold, silver and bronze medals, respectively, at the National Physics Olympiad, Cuba

PROFESSIONAL MEMBERSHIPS

- Member of the Division on Nonlinear Processes in Geosciences, European Geosciences Union (EGU)
 - Member of the Division of Nonlinear Geophysics, American Geophysical Union (AGU)
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IT EXPERIENCE

- Experience working on Windows or Unix / Linux environments
 - Experience in scientific programming:
 - Languages: Wolfram Language (Mathematica), Python, R, C/C++, Fortran
 - Statistical software: Origin
 - Scientific image processing: ImageJ
 - Visualization software
 - NCL, GRADS, GNU PLOT, GRACE
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CONTRIBUTIONS TO RESEARCH AND DEVELOPMENT

Scientometrics data from Google Scholar, June 15, 2021:

	All	Since 2016
Citation	181	149
h-index	8	7
i10-index	6	5

- One book chapter: https://doi.org/10.1007/978-3-319-58895-7_17
- 13 articles published in refereed journals.
- More than 20 presentations in international conferences.

For a complete list of publications, visit: <https://scholar.google.com/citations?user=OzUrUOYAAAAJ>
