LUCAS VARELA

PhD Candidate in Theoretical Physics & Statistical Modeling

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Paris, France

PERSONAL STATEMENT

As a scientist, I am trained to solve problems with an analytical approach, focusing on finding the best tools and knowledge for each particular task. These skills have lead to manage data, to statistically interpret it and to propose successful models that predict a system's behavior. All while exploiting machine learning capabilities that turn insights into actionable items. Also, I am well-versed in information visualization that provides an unbiased understanding of the underlying patterns in data. Finally, due to the inherent collaborative nature of science I am an excellent team player.

EXPERIENCE

Adjunct Professor

Universidad de los Andes

2016 - 2020

P Bogotá, Colombia

Courses: Waves and Fluids, Modern Physics, Mechanics, Thermodynamics and Electromagnetism.

Teaching Assistant

Universidad de los Andes

2013 - 2017

P Bogotá, Colombia

Courses: Statistical Mechanics, Mathematical Methods, Mechanics, Thermodynamics and Electromagnetism.

PUBLICATIONS

- L. Varela, G. Téllez, E. Trizac. One-dimensional colloidal model with dielectric inhomogeneity. Phys. Rev. E 103 (042603), 2021.
- L. Varela, G. Téllez, E. Trizac. Configurational and energy landscape in one-dimensional Coulomb systems. Phys. Rev. E 95 (022112), 2017.

CONFERENCES

- Short talk: Configurational and energy landscape in one-dimensional Coulomb systems. Rutgers Statistical Mechanics Conference. 2016. New Brunswick.
- Poster: Like charge attraction in a 1D colloid. StatPhys 27. 2019. Buenos Aires.

TECHNICAL SKILLS





















EDUCATION

PhD in Physics

Université Paris Saclav Universidad de los Andes

Sep 2019 - Present

M.Sc in Physics

Universidad de los Andes

Jan 2017 - Jul 2018

B.S. in Physics

Universidad de los Andes

Jul 2012 - Apr 2016

Data Science for All (DS4A)

Correlation One

Jun 2020 - Aug 2020

INTERESTS

Data Science | Statistics

Time Series

Machine Learning

Numerical Analysis

InfoVis | Mathematical Modeling

Probability Stochastic Processes

Computational Physics

ACHIEVEMENTS



#1 GPA

Top GPA of the physics undergraduate class of 2016-10



Time efficient bachelor's degree

Finished my bachelor's degree 1 semester before the standard time.



Graduated with honors

Top projects in the Colombian data science program DS4A 2020.

LANGUAGES

- Spanish Native
- English Advanced (C1)
- French Basic (A1)









