LUCAS VARELA

PhD Candidate

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PERSONAL STATEMENT

As a scientist I am trained to solve problems with an analytical approach that focuses on finding the best tools and knowledge for each particular task. Due to the inherent collaborative nature of science I am an excellent team player that knows how to aid with his strengths and constantly improve on his weaknesses. These skills have lead to manage data, statistically interpret it and propose successful models in physical systems.

EXPERIENCE

Adjunct Professor

Universidad de los Andes

2016 – 2020 Bogotá, Colombia

Courses: Waves and Fluids, Modern Physics, Physics I (Mechanics) and Physics II (Thermodynamics and Electromagnetism).

Teaching Assistant

Universidad de los Andes

2013 – 2017 Bogotá, Colombia

Courses: Statistical mechanics, Mathematical methods, Physics I (Mechanics) and Physics II (Thermodynamics and Electromagnetism).

PUBLICATIONS

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

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

Python, C/C++, CUDA, PostgreSQL, Mathematica, AWS, Docker, Julia, Plotly, Pandas, Git, Oracle SQL, Slurm, R, LaTeX, Linux

EDUCATION

PhD in Physics

Université Paris Saclay & 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 | Stochastic Processes | Statistics | Computational Physics | Statistical Mechanics | Colloid Physics | Soft Condensed Matter

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)