

# LUCAS VARELA

Data Scientist | PhD in Statistical Physics

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## PERSONAL STATEMENT

I am a data-driven professional. I can statistically interpret data and propose successful models that predict a system's behavior. All while exploiting machine learning capabilities that turn insights into actionable items. I am well-versed in information visualizations that provide unbiased understandings of any underlying patterns. 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. Due to the inherent collaborative nature of research I am an excellent team player.

## EXPERIENCE

Data Scientist

Clipboard health

2022 March - 2022 June

Remote

- Contributed to 30% decrease in low-fill experience of health facilities.
- Designed metrics to track churn.
- Uncovered business insights and turned them into pricing algorithms.
- Reviewed code and implemented unit tests.

Adjunct Professor

Universidad de los Andes

2016 - 2020

Bogotá, Colombia

Taught: Electromagnetism, Mechanics, Modern Physics, Thermodynamics and Waves & Fluids.

## PUBLICATIONS

- Like-charge attraction at short distances in a charge-asymmetric two-dimensional two-component plasma: exact results. J. Stat. Mech. Theory Exp. (083206), 2021.
- Relaxation dynamics of two interacting electrical double-layers in a 1D Coulomb system. J. Phys. Condens. Matter (394001), 2021.
- One-dimensional colloidal model with dielectric inhomogeneity. Phys. Rev. E 103 (042603), 2021.
- Configurational and energy landscape in one-dimensional Coulomb systems. Phys. Rev. E 95 (022112), 2017.

## TECHNICAL SKILLS

Python

C/C++

CUDA

Mathematica

R

PostgreSQL

Oracle SQL

AWS

Docker

Pandas

Scikit-Learn

Plotly

Linux

Git

MongoDB

Metabase

XGBoost

## EDUCATION

PhD in Physics

Université Paris-Saclay

Sep 2019 - Nov 2021

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

## ACHIEVEMENTS

Graduated with honors

Top projects in the Colombian data science program DS4A 2020.

#1 GPA

Top GPA of the physics undergraduate class of 2016-10

Quick learner

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

## LANGUAGES

- Spanish - Native
- English - Advanced (C1)
- French - Conversational (B1)