

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

March 2022 - June 2022

Clipboard Health

USA - Remote

- Designing and tracking KPIs (e.g. churning rate).
- Creation of pricing algorithms based on data analysis.
- Implementation of unit test.
- Contributed to 30% decrease in low-fill experience of health facilities.
- **Tools:** AWS, Git, MongoDB, Metabase, Python, Pandas, PostgreSQL, Scikit-Learn, XGBoost

PhD Student

2019 - 2021

Université Paris-Saclay

France - Orsay

- Implementation of computational simulations.
- Statistical analysis of data and its visualization.
- Assimilation and writing of academic literature.
- **Tools:** C/C++, CUDA, Git, Pandas, Python, Plotly

TECHNICAL SKILLS



EDUCATION

PhD in Physics

2019 - 2021

Université Paris-Saclay - France

M.Sc in Physics

2017 - 2018

Universidad de los Andes - Colombia

B.S. in Physics

2012 - 2016

Universidad de los Andes - Colombia

Data Science for All (DS4A): Data science course. Topics: data visualization, exploratory data analysis (EDA) and ML algorithms (e.g. random forests, kNNs, CNNs, NLP, etc.).

INTERESTS

- Data Science
- Statistics
- Time Series
- Machine Learning
- Numerical Analysis
- Information visualization (InfoVis)
- Mathematical Modeling
- Probability
- Stochastic Processes

SOFT SKILLS

- Autonomy
- Teamwork
- Adaptability
- Creativity
- Communication

LANGUAGES

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

PUBLICATIONS

- JSTAT (083206), 2021.
- J. Phys. Condens. Matter (394001), 2021.
- Phys. Rev. E 103 (042603), 2021.
- Phys. Rev. E 95 (022112), 2017.