Ian Jordy Lopez Diaz

Data Scientist / Data Analyst

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Professional Summary

Physicist with a Ph.D. in Statistical Mechanics and solid experience in computational modeling, Monte Carlo simulations, and data analysis. Recent work includes data science and machine learning projects applied to the energy sector. Proficient in Python, statistics, and data visualization, with a strong analytical background and a focus on transforming data into insights and decision support.

Technical Skills

Programming Languages	Python, R, C/C++, SQL
Analysis and Modeling	Pandas, NumPy, SciPy, Scikit-Learn, TensorFlow, PyTorch, Statsmodels
Visualization	Matplotlib, Seaborn, Plotly
Databases	SQLite, PostgreSQL
Other	Git, Linux, LaTeX, Monte Carlo Simulations, Data Cleaning, Feature Engineering

Experience

2022–2023 **Data Scientist / Data Analyst**, *Lima Brain Technology*, Florianópolis, Brazil.
- Designed and implemented data pipelines for the ENIA project (EDP, 2022–2023).

2021–2024 **Simulation Developer**, *Lima Brain Technology*, Florianópolis, Brazil.
- Developed Monte Carlo simulations and numerical algorithms for the ANGRA project, integrating physical modeling and data science.

2008–2025 **Physics Lecturer**.
- UFSC, Florianópolis, Brazil: 08/2008–07/2010; 02/2013–12/2014; 02/2018–12/2019; 08/2023–07/2025.
- UDESC, Ibirama, Brazil: 02/2020–07/2022.
- UFFS, Cerro Largo, Brazil: 01/2011–02/2013.

Education

2015–2017 **Ph.D. in Physics (Statistical Mechanics)**, *Federal University of Santa Catarina (UFSC)*, Florianópolis, Brazil.

2007–2009 **M.Sc. in Physics (Statistical Mechanics)**, *Federal University of Santa Catarina (UFSC)*, Florianópolis, Brazil.

2003–2006 **B.Sc. in Physics**, *Federal University of Santa Catarina (UFSC)*, Florianópolis, Brazil.

Peer-Reviewed Publications

Author of 5 peer-reviewed papers in Statistical Physics and Monte Carlo simulations, published in journals such as *Physica A*, *Physica B*, and *Physical Review E*.