



Bogotá, Colombia

22 years old

STUDIES

Bachelor's degree in Mathematics

National University of Colombia

Grade Average: 4.7 / 5.0

Summa Cum Laude

2018 - 2022

Certificate program in Artificial Intelligence and Deep Learning

National University of Colombia

2022

AWARDS

Scholarship «Initiation to research»

Scholarship to develop a research project in France, awarded by the National University of Colombia and the governments of both countries.

Academic Performance Scholarship

Scholarship covering the total tuition cost during my bachelor's degree due to my Grade Average.

LANGUAGES

- Spanish: First Language
- English: B2 (no certification).
- French: B2 (DELF certificated).

JUAN PABLO ORTEGA

MATHEMATICIAN

Applied mathematician with experience in analysing and modeling social, ecological and cultural related problems using data, dynamic systems and artificial intelligence. Currently, I am searching for a junior data analyst position. I have experience with Python, R and SQL.

PROJECTS AND EXPERIENCE

Predicting the next 'Despacito'

Bogotá, Colombia

2022-2023

I am currently working on a machine learning algorithm that predicts songs popularity based on musical and contextual features. I have tried different architectures such as Random Forests and Neuronal Networks using Python, numpy, pandas, scikit-learn and tensorflow.

Impact of Road Verge Management

Nancy, France

2022

Research internship in the ERPI (Research team on innovation processes), in collaboration with NOREMAT S.A.S., an enterprise of road verge management. There, I designed a dynamic model that found a management strategy that reduced the ecological impact their activities by 19%.

Models of Political Corruption

Bogotá, Colombia

2021 - 2022

I designed predictive models of political corruption data and worked as an assistant professor in the topic at the National Chair in Integrity and Fight against Corruption. Our models reflected some dynamics that were never explored quantitatively but were known in the Social Studies Literature (e.g., corruption's self-fulfilling nature and stability).

TEACHING

Assistant professor

Bogotá, Colombia

2022

I worked as an assistant professor on two courses throughout this year: «Mathematical Models of Political Corruption», as part of the National Chair in Integrity and Fight against Corruption, and «Fundamentals of Mathematics».