

Félix Ernesto Charry Pastrana

DATA ANALYST · MASTER OF SCIENCE · PHYSICIST

Viaducto 38, 101, Benito Juárez, PC 03010, Mexico City, Mexico · Willing to relocate? Yes!

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"Many years later as he faced the firing squad, Colonel Aureliano Buendía was to remember that distant afternoon when his father took him to discover ice" — Gabriel García Márquez.

Profile

I am a data analyst and **Python** programmer with a background in **simulation** and **modelling**. I have acquired this experience throughout my working career (**Machine Learning** models: the probability of drop-out - Python, records in web pages - Python), academic (detector modelling - C ++, simulation of nuclear reactions - FORTRAN, creation elemental composition - R) and numerous courses.

At present, I am looking to expand my experience as a data analyst - Back End, willing to learn new knowledge and provide the most reliable programming and statistical level. I am a committed and team worker (Graduated with Honors and Outstanding TeamWork, Ministry of Information Technologies and Communications of Colombia).

Experience _____

TheMadFox - Colombia Remote Work

COLLABORATION IN THE DEVELOPMENT OF SOFTWARE AND DATA SCIENCE PROJECTS

April 2021 - May 2021

- Download data from API, merge it, filter it and create a end-point using Django
- Extract information from html files and create features
- Analyze and interpret the data and build-optimize the machine learning model

TheMadFox - Colombia Remote Work

FREELANCE: TRANSLATE OF AUTONOMOUS ROUTINES BUILT IN R INTO PYTHON. THIS INCLUDES

November 2020 - January 2021

- Download and merge data using API.
- Extrapolate data.
- Create plot reports using Python Plotly.

Data Science for All (DS4A) - Remington University (Colombia)

Remote Work

Data Analyst: Predict the dropout probability of a student using data from 1996 to 2020. Python and R.

August 2020 - November 2020

- Define and extract the dropout variable.
- Clean and merge the data.
- Define the Machine Learning Model (Random Forest).
- Locate the data and the model into AWS (EC2).
- Show and use the model in a Front End (Shiny R).

UNAM

Mexico City, Mexico

Science Programmer: Simulation of the efficiency ϵ of an HPGe detector using MonteCarlo (C++) and experimental data.

January 2018 - June 2018

Skills

Main Python, R, &TeX, C++, Git, Django

General FORTRAN, PostgreSQL

Languages Spanish (Native), English (Advanced level)



Ministry of Information Technologies and Communications of Colombia and Correlation One

Colombia

FALL 2020 DATA SCIENCE FOR ALL

August 2020 - November 2020

• Graduated with Honors and Outstanding Teamwork.

UNAM (Universidad Nacional Autónoma de México)

Mexico City, Mexico

MASTER OF SCIENCE DEGREE (PHYSICS), HONORABLE MENTION

January.2017 - June.2019

• Thesis: Unification of gamma, beta and carbon-nitrogen spectrometry measurements for composition simulation and efficiency correction of aquatic sediments, R.

Universidad Nacional de Colombia

Bogota, Colombia

BACHELOR'S DEGREE IN PHYSICS

July.2010 - June.2016

• Thesis: Systematic analysis of nuclear reactions of alpha particles, FORTRAN.

Coursework .

e-courses

COURSERA.ORG

- Applied Data Science with Python: Introduction. University of Michigan
- Applied Data Science with Python: Machine Learning. University of Michigan
- Applied Data Science with Python: **Text Mining**. University of Michigan
- Fundamentals of Scalable Data Science. PySpark. IBM
- Introduction to Structured Query Language (SQL). University of Michigan
- (In process) Applied Data Science with Python: Plotting, Charting & Data Representation and Social Network Analysis. University of Michigan

Investigation Groups

Global and Climate Change Group

Mexico City, Mexico

INSTITUTO DE CIENCIAS DEL MAR Y LIMNOLOGÍA - UNAM

January 2018 - December 2019

Isotopic Geochemistry and Radiochronology Laboratory

Sinaloa, Mexico

INSTITUTO DE CIENCIAS DEL MAR Y LIMNOLOGÍA, CAMPUS MAZATLAN - UNAM

June 2018 - August 2018

Tennessee, USA

OAK RIDGE NATIONAL LABORATORY

Research Stay

June 2016 - August 2016

Nuclear Physics Group

Bogota, Colombia

Universidad Nacional de Colombia

June 2014 - December 2016

Articles

- Systematic analysis of α elastic scattering with the Sao Paulo potencial, AIP Conference Proceedings 1753 (2016)
- Synthesis, structural and morphological characterization of the perovskite LaYbO₃, J. Physics. Conf. Series. 687 012104 (2016)