

Ernesto Charry

DATA ANALYST · PHYSICIST

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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.

Education

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

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.

e-courses

COURSERA.ORG

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

Skills

Main Python (numpy, pandas, Scikit-Learn, NLTK, Data Cleaning), R (Shiny), \LaTeX , C++

General FORTRAN, PostgreSQL

Languages Spanish (Native), English (Advanced level)

Experience

TheMadFox - Colombia

Remote Work

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

November 2020 - Present

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

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

Investigation Groups

Global and Climate Change Group

INSTITUTO DE CIENCIAS DEL MAR Y LIMNOLOGÍA - UNAM

Mexico City, Mexico

January 2018 - December 2019

Isotopic Geochemistry and Radiochronology Laboratory

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

Sinaloa, Mexico

June 2018 - August 2018

Research Stay

OAK RIDGE NATIONAL LABORATORY

Tennessee, USA

June 2016 - August 2016

Nuclear Physics Group

UNIVERSIDAD NACIONAL DE COLOMBIA

Bogota, 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 LaYbO_3 , J. Physics. Conf. Series. 687 012104 (2016)