

Danilo Chamorro Riascos

danilochamorro11@gmail.com ❖ +966 500248506 ❖ Thuwal, Saudi Arabia

EDUCATION

King Abdullah University of Science and Technology

2022 - Present

M.Sc. in Earth Sciences and Engineering with track in Machine Learning

Thuwal, KSA

- GPA: 3.84/4
- Career percentage: 65%.

Universidad Nacional de Colombia

07, 2022

B.S. with Major in Geological Engineering

Medellín, CO

- Honours: Summa cum laude | GPA: 4.4/5.0.

SENA

08, 2022

Technical degree in Information Systems Analysis and Development

Pasto, CO

- Studies offered through virtual means.

CERTIFICATIONS

Yale

08, 2020

Financial Markets

- 6 weeks course. Offered through Coursera.
- Certified with honors.

ESRI

06, 2019

Cartography

- 6 weeks course. Offered through Esri Training.

COMPLEMENTARY EDUCATION

IRIS

06, 2020 – 08, 2020

Seismology Skill Building Workshop for Undergraduates

Offered virtually

- Learning about data science applied to seismology, application to real contexts. Proficiency in handling large volumes of seismic information.

PIERIAN DATA

2020

Complete Python Bootcamp

Offered virtually

- Learning about advanced Python usage.

KAUST-Iraya Energies

06, 2021

Virtual Summer School: Utilizing unstructured data in geoscience

Offered virtually

- Learning about Machine Learning for Natural Language Processing (NLP).

Imperial College London

06, 2021

GUIs for Python - improving the accessibility of research software

Offered virtually

- Learning about Graphical User Interfaces (GUI) and applications to research software.

ACADEMICAL RESEARCH

King Abdullah University of Science and Technology (KAUST)

02, 2022 – 07, 2022

Visiting Research Student on Earth Sciences and ML

Thuwal, KSA

- Application of convolutional neural networks to the determination of dispersion curves in MASW method surveys. Under the direction of Prof. Matteo Ravasi and the DIG (Deep Imaging Group) research group.

Universidad Nacional de Colombia

03, 2020 – 10, 2020

Seismology and Python applied to seismic research

Medellín, CO

- Under Professor PhD Gaspar Monsalve guidance.

Universidad Nacional de Colombia

09, 2020 – 07, 2022

Geoelectrical, Seismic Refraction and Surface Wave analysis applied to slope characterization

Medellín, CO

- Under Professor PhD Gaspar Monsalve guidance.

ACADEMICAL EXPERIENCE

Universidad Nacional de Colombia

03, 2019 – 04, 2020

Multivariable Calculus teaching assistant

Medellín, CO

- 20 hr/week hourly dedication.

Universidad Nacional de Colombia

08, 2017 – 11, 2018

Mineralogy teaching assistant

Medellín, CO

- 6 hr/week hourly dedication.

PROFESSIONAL EXPERIENCE

Ecopetrol S.A.

06, 2021 – 01, 2022

Intern at exploration and geophysical services region

Bogotá, CO

- 48 hr/week hourly dedication. Experience in use of software ProMAX and skimage, aimed at the study of MASW technique applied to oil exploration.

GEMMA

03, 2021 – 12, 2021

Research Intern.

Medellín, CO

- 20 hr/week hourly dedication.

AGG – Applied Geology and Geophysics

08, 2021 – 02, 2022

Assistant geophysicist.

Remote

- 48 hr/week hourly dedication. Processing and inversion of geoelectric and seismic data, in resistivity, induced potential, and electromagnetism measurements. Analysis and interpretation of data quality obtained with Python.

SKILLS & INTERESTS

- **Skills:** Handling of Python programming language oriented to data science, use of libraries such as Matplotlib, Scipy, Pytorch, Obspy; Experience working with seismological data using Fourier transform analysis; Handling of Adobe suite design software; Handling of GIS software: ArcGIS, QGIS; Proficiency in information presentation: Keynote/Powerpoint; Proactivity; Efficient task management; Responsibility; Creativity in problem solving.
- **Interests:** Geology, seismology, data science, project management.

ACHIEVEMENTS

- First place winner of EAGE 2022 Hackaton on Explainable A.I.
- Honours degree obtained in bachelor studies.
- Presenter at Second EAGE Subsurface Intelligence Workshop in Manama, Bahrein.