

Sebastian Forero

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EDUCATION

BSc Mechanical Engineering, *Universidad Nacional de Colombia*

2019 - 2024

- Thesis: Experimental study of a Diesel generator running on Hydrogen-Diesel-Biodiesel fuel blends including a review of the actual implemented technologies, searching for applications in the transport sector.

Applied Data Science with Python Specialization, *University of Michigan (Coursera)*

Nov 2023 - Mar 2024

- Five courses on data analysis using machine learning, text mining, data visualization, etc.
- Project: combustion chamber model using machine learning to validate experimental data.

Statistical Thermodynamics Specialization, *University of Colorado Boulder (Coursera)*

Nov 2023 - May 2024

- Five courses in advanced thermodynamics focused on combustion and high temperature gas dynamics, using *python* and computational fluid mechanics software such as *Ansys-Chemkin* and *Converge*.
- Project: Combustion reaction kinetic model for methane using *python*, comparison of simulation data with *Ansys-Chemkin* using different reactor's models.

WORK EXPERIENCE

Service and Maintenance Engineer, *Ecoimagen*

April 2023 - July 2024

- Diagnosis and repairment of +30 ultrasound equipment for diagnostic tests using corrective and preventive maintenance methodologies proposed by the technical service of the manufacturers.
- Closing of +15 sales of ultrasound equipment for medical diagnosis in +5 cities around the country with emphasis on technical support and personalized advice.

Research Assistant, *Universidad Nacional de Colombia*

May 2022 - May 2023

- Characterization of the renewable energy potential of Bogotá's rural area, analyzing S5P satellite data for 20-year time series (2000- 2020) including wind and photovoltaic potential, data analysis with python and data obtaining implementing Google Earth Engine API.

VOLUNTEERING

Bilingual Nature Guide Volunteer, *Natural Reserve Hato La Aurora*

Dec 2023 - Feb 2024

- Interpreter in English and German for +20 foreign visitors in different activities within the reserve.
- Development of 3 presentations about mammals, birds and geography of the Colombian Orinoco.

Volunteer in garbage collection and microplastics sampling, *CeroPlastic*

Summer 2022, 2023

- Participation in +20 garbage collection days for microplastic sampling on the beaches of Guajira and organization of +10 classes to disseminate the plastic problem in the communities.

COMPETENCES

English C1, German B1, Communication, Sales, Problem Solving, Data Analysis, Programming.