

# Juan Sebastián Mendoza Páez

*Forest engineer with passion for forest and climate dynamics.  
Proficient in R, Python and GIS software, leveraging them alongside  
statistical techniques to extract valuable insights.*

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## Work experience

### Voluntary research associate — [KU Leuven](#) Online

Since May 2024

- Support of the project on automation, statistical analysis and chemometrics for the oxidative dehydrogenation of propane at the Dusselier group.
- Development of a web platform to integrate and analyze data coming from the reactor, gas chromatograph (GC) and mass spectrometer (MS) in a unified system.

### Satellite Imagery Analyst — [Universidad de Antioquia](#) Medellín

From August 2023 to December 2023

- Contributed to the development of Python scripts for acquiring and processing satellite imagery from cloud services, as part of a project focused on land cover classification using deep learning techniques.

## Education

### M.Sc. Earth and Climate System Science — [University of Hohenheim](#) Stuttgart, BW, Germany

Since October 2024

### Forest Engineering — [Universidad Nacional de Colombia](#) Medellín

From August 2016 to June 2023

## Complementary education

### General English — [New College Group](#) Manchester, England, United Kingdom

From February 2024 to March 2024

- Level: Upper Intermediate

### Certified course in programming skills with emphasis in web development — [Universidad de Antioquia](#) Online

From March 2021 to December 2021

Training in the programming languages Python, Java, JavaScript and web development libraries such as React.

### Certified course in artificial intelligence — [Universidad Sergio Arboleda](#) Online

From May 2022 to July 2022

Introduction to artificial intelligence techniques with emphasis in machine learning methods.

## Languages

### English

› TOEFL : 91/120

### German

## Academic interests

Climate Dynamics

Remote sensing

Forest modeling

Spatial analysis

Data visualization

🐙 @jsmendozap

## Software skills

### R

A horizontal progress bar for the R skills section, consisting of a blue segment followed by a grey segment.

- Solid knowledge of importing, manipulating, analyzing, modeling, and communicating processed information in this language.
- Ability to manipulate and process spatial data and integrate it with other GIS tools such as QGIS.
- Capacity to build dashboards using shiny package.

### Python

A horizontal progress bar for the Python skills section, consisting of a blue segment followed by a grey segment.

- Proficiency with geopandas and rioxtarray libraries for working with geospatial data.
- Familiarity with scikit-learn and TensorFlow libraries to implement machine and deep learning techniques.

### JavaScript

A horizontal progress bar for the JavaScript skills section, consisting of a blue segment followed by a grey segment.

- Proficiency with the React library for building web applications.