

# 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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## Education

**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.

## Software skills

### R

- 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

- 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

- Proficiency with the React library for building web applications.

## Languages

### English

› TOEFL : 91/120

### German

## Academic interests

Climate Dynamics

Remote sensing

Forest modeling

Spatial analysis

Data visualization

🐙 @jsmendozap

## 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.

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

From August 2023 to December 2023

Contributed to the development of algorithms for the acquisition and manipulation of satellite imagery in a project aimed to classify land cover using deep learning techniques.