



# Adrián Hinojosa Calleja

## Data Scientist

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A certified Data Scientist with +5 years of international experience researching in Probability and Statistics. Knowledge of Machine Learning, Time Series Forecasting, and Gaussian Noises Analysis. +10 years teaching Mathematics courses at different educational levels.

### Educational Background

#### PhD Mathematics

Universitat de Barcelona, 2022  
Cum Laude

#### Master Mathematical Sciences

TU Berlin, Germany, 2016  
GPA: 1.9 Good

#### Degree Mathematics

UNAM, Mexico, 2013  
GPA: 9.75 Graduated with honors

### Certificates

#### Business Intelligence

Barcelona Activa, 2022

#### Data Science with Python

Barcelona Activa, 2022

#### Functional Data Analysis

UAB, 2018

### Technical Skills

- Python, R, Java
- MySQL
- Power BI

### Soft Skills

- Communication
- Critical thinking
- Leadership
- Problem resolution
- Teamwork

### Work Experience

#### Predoctoral Researcher

Universitat de Barcelona  
April 2017 to January 2022

- Research in Gaussian Noises Analysis related topics. Two articles published in Q1-ranked journals.
- Scientific Committee Chair of the 3rd Bringing Young Mathematicians Together Conference.
- Teacher's assistant of Calculus, Probability, and Statistics undergraduate courses.

#### Teacher

Logos Middle School  
August 2012 to June 2014

- Six groups were in charge. Teacher of Mathematics I and III middle school courses.

### Projects

#### Barcelona Air

Time Series Forecasting of NO2 and PM10 mean daily concentrations in a neighborhood of Barcelona.  
*Python: matplotlib, pandas; R: fpp2, tseries*

#### Zero Deforestation Mission

Image Classification model fitted to measure the deforestation level in Indonesia from a set of satellite images.  
*Python: basemap, keras, matplotlib, pandas, tensorflow*

#### Space X, 3rd Place Talent Squad-Data Science Challenge

Classification model to predict the states of turbulence from a space rocket.  
*Python: pandas, seaborn, sklearn*

#### CDMX Salaries

Salaries analysis distribution of the Mexico City Government public servants.  
*PowerBI*