Rodrigo Malagón

Mathematician | Data Scientist | Modelling Analyst

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Experience

Erasmus Mundus Master in Geospatial Technologies, *Castelló de la Plana, Spain*
Grant holder | 09/2023 – 03/2025

- Developed workflow on the extraction, processing and Machine Learning [models](#) to forecast electricity consumption in the UN's military facilities in Sudan (**SQL**, **R**, **Git**) and flood classification [model](#) with Deep Learning (**QGIS**, **R**, **Keras**, **TensorFlow**, **Sci-kit learn**).
- Specialisations: Data Science, Machine Learning, Statistics (**Python**, **R**), Databases (**SQL**), Web Programming (**JavaScript**, **HTML**, **CSS**), visualisations (**Tableau**), and GIS (**ArcGIS**, **QGIS**, **PostGIS**).

Nielsen, *Mexico City, Mexico (Remote)*
Modelling Analyst | 10/2022– 08/2023

- Implemented **machine learning modelling** (**SAS**, **R**, **Python**) to drive insights from media and sales time series for US and EU clients leading the CPG sector through attribution models (Unilever, Johnson&Johnson, Ferrero).
- Translated model results to benchmark marketing **KPIs presented** to the client (**Power Query**, **Excel**), to measure the impact of their marketing strategies.
- Collaborated with **international teams** (data processing, modelling, and customer success teams) across multiple projects.

Universidad de Sevilla, *Seville, Spain*
Undergraduate Researcher | 09/2021– 12/2021

- Conducted undergraduate thesis **research** at the Department of Geometry and Topology.
- Presented results at a weekly seminar held at the university.

Universidad Nacional Autónoma de México, *Mexico City, Mexico*
Assistant professor | 08/2019– 09/2021

- Taught Differential & Integral Calculus I-III at the BSc. Mathematics.
- Prepared and presented class material. Graded exams and assignments.

ITAM, *Mexico City, Mexico*
Undergraduate Researcher | 06/2019– 09/2019

- Conducted **research** on Geometric Measure Theory at the Mathematics Department.
- Presented results at the 52nd National Congress of Mathematics.

Education

Universitat Jaume I, *Spain;* **Universität Münster**, *Germany;* **Universidad NOVA de Lisboa**, *Portugal*
MSc. Geospatial Technologies | 09/2023 – 03/2025

- Grade: 9.22/10.00.
- Specialisations: Data Science, Machine Learning, Geostatistics, Databases, Web Programming, and Geospatial Analysis.
- Projects:

- [Flood modelling with Convolutional Neural Networks](#) (**R**, **QGIS**)
- [Analysis of economic gender inequality in Latin America](#) (**Python**)
- [Deep Learning and Geostatistics model for energy consumption with IoT devices](#) (**SQL**, **R**).
- [Deep Learning prediction model for pollution sensors in Castelló de la Plana](#) (**R**)
- [Madrid pollution quarter-level trend assessment in 2023](#) (**R**, **ArcGIS**)
- Bejeweled Web [Videogame](#) (**Javascript**)

University of Bristol, *United Kindom*

Visiting Student | 01/2020 – 07/2020
- Grade: First.
- Specialisations: Partial Differential Equations, Logic, Number Theory.
- Membership of the Bristol Data Science Society.

Universidad Nacional Autónoma de México, *Mexico*

BSc. Mathematics | 08/2016– 10/2022
- Grade: 10.00/10.00.
- Specialisations: Mathematical Analysis, Probability, Statistics, Programming, Vectorial Mechanics, Partial and Ordinary Differential Equations, Topology.
- Thesis: [Morse Homology and its Applications](#).

Skills & Languages

- **Programming languages:** Python, R, SQL, JavaScript, HTML, CSS.
- **Software and tools:** Google Colab, Google Suite, Jupyter, Git, FME Form and Flow, Tableau, ESRI products & QGIS.
- **Skills:** ETL, data analysis, Machine Learning, Artificial Intelligence, Deep Learning, Statistics, Web Development, Geospatial Analysis, agile methodologies, data visualisation, and GIS.
- **Languages:**
  - **Spanish** (Native)
  - **English** (C1) - IELTS Academic (2022), CAE (2016)
  - **Catalan** (B2) - Institut Ramon Llull (2023)
  - **French** (B2) - DELF B2 (2023)
  - **German** (B1) - Goethe Zertifikat B1 (2023)

Certifications

- *Datacamp:*
  - Pre-processing for Machine Learning in Python (02/2025)
  - Intermediate Importing Data in Python (02/2025)
  - Introduction to PySpark (02/2025)
  - Introduction to Docker (02/2025)
  - Introduction to Git (02/2025)
  - Understanding Cloud Computing (02/2025)
- *Conterra GmbH*
  - FME Form and FME Flow (10/2023)
- *ESRI*
  - Classifying Objects Using Deep Learning in ArcGIS Pro (02/2024)
  - Visualizing Data Using ArcGIS API for Python (02/2024)
  - ArcGIS Survey123: Creating and Publishing Surveys (10/2023)
  - ArcGIS Pro Basics (10/2023)
  - Using GIS to solve problems(10/2023)