Ricardo Ruiz Sánchez

Data Analyst
specialized in geospatial data from MSc GIMA

Work experience

2024/11
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2024/06

Intern Geo-Analytics
Heidelberg Institute for Geoinformation Technology (DE)
- Conducted transport networks applying spatial data of road systems using OSM data, focusing on resilience and accessibility using PostGIS and R.
- Designed data processing workflows, automating steps using SQL code (PostGIS) and R scripts integrated with GIS software (QGIS) for spatial analysis.
- Publish paper in Agile 2025 (Dresden);
  Changes in Road Centrality and Hospital Access Redundancy: Impacts of the 2024 Flood in the Metropolitan Core of Porto Alegre, Brazil (DOI) including comprehensive process documentation in Quarto

2022/10
↑
2022/02

Environmental and Quality Technician
Air Europa, Palma de Mallorca
- Supported ISO 9001 and 14001 external audits and lead the Sustainable Flight event coordinating the project meetings and data across departments.
- Applied strong data handling, and analysis skills to support reporting based on 20 indicators across 16 work centers using common software (MS Office) for over 3145 employees.

Education

2024
↑
2022

MSc in Geographical Information Management and Applications
GIMA[a], The Netherlands
- **Dissertation (8.5/10):** Developed a multi-object tracking framework for livestock using machine learning foundation models in Python, visualised data in R, and acquired original video and photographic data from UAV. Co-authored a conference paper submitted to AgEng2024.
- **Internship (9/10):** Worked as geoanalytics intern in Heidelberg submitting a full paper for the Agile GIS 2025 conference as first author.

[a]Joint programme:
Univeristy of Utrecht,ITC Entschede, Wageningen and Delft

2023
↑
2022

Master's Degree, Teacher Training specialized in Biology and Geology
UNED, Madrid
- **Dissertation (9.3/10):** Applied R and SQL to assess the carbon footprint of travel for various vehicles based on the shortest route.
- **Internship (9.7/10):** Worked as a biology and geology teaching intern at Platero Green School in Málaga

2021
↑
2016

BSc in Environmental Sciences
UNED, Madrid
- **Dissertation: (10/10):** Analysed real-world data representing air pollutant levels during the COVID-19 lockdown in Edinburgh using R and the Openair package.
- **Subjects:** Key courses included Environmental Statistics, Economics and Strategy, Environmental Project Management and Geographic Information Systems.

About me

Started as a lab technician collecting samples, then earned a BSc in Environmental Sciences while working abroad in Scotland or Germany, recognising the importance of data on decision-making. Later completed a Master of Education in Biology and Geology and a MSc in GIS and Project Management, driven by a growing interest in data.

Courses

2024	QGIS - Advanced Level (30h)
2022	PostGIS: Spatial DM (120h)
2020	Environmental Data wrangling and Analysis in R (50h)
2020	ISO 9001 and 14001 (120h)
2018	English Course C1 (240h)
2018	Introduction to statistical analysis in scientific research with Rstudio 100h

Contact

Email
ricardo.ruiz.sanchez@gmail.com

Phone
+34 652 30 63 73

Linkedin
linkedin.com/in/ricardo-r-s

Code Skills

R: ●●●●●
PostGIS: ●●●●◐
QGIS: ●●●◐○
Python: ●●●◐○○
Git: ●●○○○○
Latex: ●●◐○○○

Languages

Spanish — Native

English — Advance C1

German — Intermediate B1