

Alex Crespillo López

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BRIEF INTRODUCTION

I am a professional specialized in meteorology and climate science, with a background in climate data analysis and environmental modelling. My training includes a solid foundation in the study of atmospheric phenomena and their impact on the environment, especially in mountain areas. Throughout my career, I have participated in projects related to air pollution and its relationship with specific weather conditions, demonstrating a great interest in the analysis and understanding of climate processes. I am committed to the development and implementation of sustainable solutions in the meteorological field.

EDUCATION

University of Barcelona, Barcelona

2022 - 2024

Master's degree in meteorology. Grade: 7.5

Master's thesis: 'Analysis of thermal inversions in the Andorran Central Valley and their relationship with episodes of atmospheric pollution and meteorological variables'.

Grade: 8.5

Autonomous University of Barcelona, Barcelona

2018 - 2022

Degree in Geology. Grade: 7

Final degree project: 'Native hydrogen, the future of energies'.

Grade: 7

PROFESSIONAL EXPERIENCE

Pyrenean Institute of Ecology (IPE) – CSIC

2025 - present

Predoctoral researcher

- Climate and hydrological data analysis
- Machine/Deep Learning approach
- Data science and IA applications on climate projections

Andorra + Research (AR+I), Andorra la Vella

2023-2024

Internship student

- Climate Data Analysis
- Support for environmental impact assessments
- Climate predictions

Catalan Futsal Federation, Catalonia

2022 - 2023

Futsal referee and assistant

- Applying league rules and regulations for proper play
- To generate trust between players, coaches and the public for the proper functioning of the game
- Arbitration committee management

TR215 Geological Engineering Catalonia

2021 - 2022

Internship student

- Assistance in fieldwork and soil sampling
- Software Development (AutoCAD)
- Data analysis and mapping

Self-employed, Mataró

2018 - 2021

Private teacher

- Review of school content for people with academic difficulties
- Mathematics, Physics, Chemistry and History at ESO and Baccalaureate level

CERTIFICATES

Level B2 English (Cambridge certificate)

2023

- Grade: 169
- 4-month stay in Norway to improve English (03/2024 – 07/2024)

French B2 level (DELF)

2018

- Obtained by completing the Baccalaureate in French (Baccalauréat)

Courses of Python and RStudio on Udemy

2024

- 'The Complete Python Developer'
- 'Complete course in R for Data Science and Machine Learning'

SKILLS

Programming languages: Python and RStudio oriented to the analysis of climate and meteorological data mainly. Other data types as well (NetCDF4, RDS, CSV, XLSX...)

Software or team frameworks: Microsoft Office, Excel, Data Science, Machine Learning, Deep Learning, ARCGIS Pro

Others: Data analysis and modelling, climate study, geographical-spatial knowledge, geological formations, air pollution and environmental safety

Languages: English (professional), French (intermediate), Spanish (native), Catalan (native)