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Date of birth: 14/04/1985

Nationality: Spanish

CONTACT

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europass

WORK EXPERIENCE

01/04/2023 – 30/09/2024 Almayate Bajo, Spain

Geologist Freelancer

Conducted geological surveys utilizing remote sensing technologies, including satellite imagery and UAVs equipped with multispectral cameras (DJI Matrice 600 Pro, MicaSense RedEdge-MX), complemented by field validation using differential GPS. Proficient in photogrammetry software such as Pix4D Mapper and Metashape for advanced point cloud analysis.
Executed geological risk assessments related to infrastructure in the Antarctic Peninsula, incorporating geotechnical and geophysical analyses in high-risk areas.
Developed 3D models and executed 3D printing (using Fusion 360 and Prusa Slicer) based on photogrammetric data for enhanced visualization and planning.

01/03/2022 – 31/07/2022 Lisbon, Portugal

Earth science lecturer Instituto de Geografía e Ordenamento do Território (IGOT), Universidade de Lisboa

Lecturer for courses in Geomorphology and Dynamic and Applied Geomorphology.
Responsibilities included teaching methodologies for geomorphological and geological mapping, as well as guiding students in deriving independent variables from topographic maps. These variables were utilized for modeling and analyzing risk and hazard susceptibility.

07/08/2019 – 06/02/2022 Lisbon, Portugal

Remote sensing technician Centro de Recursos Naturais e Ambiente – Instituto Superior Técnico, Universidade de Lisboa

Enhanced results obtained from low-cost drone surveys (DJI Phantom 4 Pro) in areas with different vegetation density and cover, optimizing data utilization. Proficient in the use of photogrammetry software (Pix4D Mapper, Metashape) and point cloud analysis tools (Cloud Compare, R) to process and interpret geospatial information.
Worked with LiDAR systems, including Phoenix and Velodyne H32e, to gather data and process it using Spatial Explorer and TopoLidar.
Developed 3D models based on UAV photogrammetry and implemented 3D printing to create accessible geosites within natural parks, enabling interaction for individuals with reduced mobility or disabilities that limit physical access.
Conducted geological risk analyses based on UAV surveys for various infrastructures in the Antarctic Peninsula.

23/02/2019 – 04/08/2019 Málaga, Spain

Handyman Ilunion Hotels S.A.

Various maintenance tasks: electricity, home automation, plumbing, etc., to ensure the proper functioning of the establishment.

02/05/2012 – 28/12/2016 Buenos Aires, Argentina

Earth science lecturer Departamento de Ciencias Geológicas, FCEyN, Universidad de Buenos Aires

Instructor for practical sessions in the courses of Geomorphology and Geology and Environmental Ecology of Coastal Areas. Responsibilities included teaching the interpretation of aerial photographs and satellite images for the creation of geomorphological/geological maps and the analysis of risk and hazards.

01/12/2010 – 01/03/2016 Buenos Aires, Argentina

Geologist Instituto Antártico Argentino – Dirección Nacional del Antártico

Maintenance and installation tasks for weather stations and various types of humidity and temperature sensors powered by photovoltaic systems. Conducted shallow drilling (up to 16 m) and high-precision topographic surveys using DGPS and total stations. Performed UAV surveys and subsequent data processing in extreme environments such as the Antarctic Peninsula and the Andes Mountains (Argentina).

01/04/2010 – 31/03/2015 Buenos Aires, Argentina

Geologist CONICET – Instituto de Estudios Andinos "Don Pablo Groeber"

Analysis of the interactions between meteorological variables, landforms, volcanic eruptions, and topographic variables, applied to the study of landforms distribution on Deception Island, Antarctic Peninsula, in a GIS environment.
This work would likely involve using geographic information systems (GIS) to explore the relationships between environmental factors and their influence on the distribution of geoforms (landforms and geological features) in the specific region of Deception Island. The analysis could involve integrating datasets on weather patterns, volcanic activity, and topography to assess their impact on the local landscape and formations, aiding in the understanding of processes like erosion, deposition, and volcanic activity.

EDUCATION AND TRAINING

14/07/2010 – 18/03/2015 Buenos Aires, Argentina

PhD in Geological Sciences Departamento de Ciencias Geológicas, FCEyN, Universidad de Buenos Aires

Level in EQF EQF level 8

17/03/2004 – 01/04/2010 Buenos Aires, Argentina

Geological Sciences degree Departamento de Ciencias Geológicas, FCEyN, Universidad de Buenos Aires

Level in EQF EQF level 7

09/10/2024 – 03/11/2024 Spain, Spain

Specialized course on Soil Mechanics Escuela de Formación Geotecnia Fácil

Level in EQF EQF level 4

29/09/2024 – CURRENT Estados Unidos, United States

IBM DataScience IBM SkillsBuild

Level in EQF EQF level 3

29/09/2024 – 23/11/2024 Estados Unidos, United States

Introduction to Python Programming IBM SkillBuild

Level in EQF EQF level 3

13/09/2024 – 31/10/2024 Vigo, Spain

"Environmental Impact Assessment Course" Academia Postal 3 Vigo S.L.

Level in EQF EQF level 1

12/09/2016 – 18/12/2016 Madrid, Spain

III ON-LINE COURSE IN APPLIED HYDROGEOLOGY Ilustre Colegio Oficial de Geólogos

Level in EQF EQF level 4

08/02/2017 – 17/12/2018 Barcelona, Spain

Technician in Electrical and Automatic Installations CEAC

Level in EQF EQF level 2

29/08/2022 – 28/10/2022 Buenos Aires, Argentina

Optical Remote Sensing Comisión Nacional de Actividades Espaciales (CONAE)

Level in EQF EQF level 1

02/04/2023 – 01/05/2023 Buenos Aires, Argentina

SAR Remote Sensing Comisión Nacional de Actividades Espaciales (CONAE)

Level in EQF EQF level 1

MANAGEMENT & LEADERSHIP SKILLS

Team lead

Participation in 10 field campaigns to the Antarctic Peninsula, in most of them as the on-site manager responsible for tasks related to various research projects, both for the Argentine Antarctic Program and the Portuguese Polar Program.

LANGUAGE SKILLS

MOTHER TONGUE(S): Spanish

Other language(s):

English

Listening B1
Spoken production B1
Reading B1
Spoken interaction B1
Writing B1

Portuguese

Listening B2
Spoken production B1
Reading B2
Spoken interaction B1
Writing B1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

DIGITAL SKILLS

Hard Worker | Team worker | Happy worker- Productive worker | Self-Motivated and Self-Learning | Motivated | Microsoft Office | Quik learning

DRIVING LICENCE

Driving Licence: A2

Driving Licence: B