

PATRICIO ORDEN ISLAS

PHYSICAL GEOGRAPHER & GEOSPATIAL ANALYST

Mexico City, Mexico

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Geospatial analyst with a strong background in **environmental** and **climate sciences**, and extensive experience in **data-driven decision-making** and the **resolution** of **complex, multidisciplinary problems**. Proven experience in **developing automated data pipelines**, as well as extensive **fieldwork experience**, including **field data collection**, **drone-based photogrammetry**, and **topographical surveying**.

EDUCATION

MSc in Environmental Geology
Universidad Complutense de Madrid
2023 - 2024 | Madrid, Spain

BSc in Physical Geography
Durham University
2016 - 2019 | Durham, UK

WORK EXPERIENCE

Geospatial Analyst | **Isla Urbana**

>>> January 2022 - Present | Mexico City, Mexico

Geospatial data analysis and cartographic design for rainwater harvesting projects including automated Python workflows integrating field and institutional datasets to support technical reporting, project design, and alignment with official climate change and water policy objectives.

GIS Developer | **Horizonte A**

>>> January 2025 - December 2025 | Mexico City, Mexico

Development of an automated high-resolution tool for analyzing local physicochemical, climatic conditions and future climate change trends to improve agricultural resilience. Design and implementation of an automated Python-based geospatial pipeline for topographical analysis to inform sustainable agricultural land management.

Geospatial Data Processor | **WhereIsMyTransport**

>>> May 2021 - October 2021 | Remote

Validation, processing, and maintenance of informal public transport geospatial data, including the development of automated Python-based tools for GTFS analysis and quality control. Contributed to the creation of the first GTFS dataset for Lima, Peru, and ongoing maintenance of GTFS datasets for Mexico City, Lima, and Gauteng (South Africa).

Independent Researcher | **Through UpWork app**

>>> August 2020 - April 2021 | Remote

Conducted research, data analysis, and technical editing across a diverse portfolio of private-sector projects, and authored two research-style papers on flood dynamics and relative sea-level change in Bangladesh.

Environmental Technician | **ASES Ecological and Sustainable Services**

>>> August 2020 - April 2021 | Remote

Designed, developed, and implemented a methodology to estimate solar glare risk from photovoltaic installations; contributed to the implementation of a carbon footprint analysis project; and collaborated in the development of a national-scale predictive precipitation model for France.

Geospatial Analyst | **Instituto Nacional de los Pueblos Indígenas**

>>> September 2019 - March 2020 | Mexico City, Mexico

Developed an electromagnetic wave propagation simulation to estimate the coverage of 21 indigenous-language radio stations, and produced statistical reports and detailed maps of the indigenous population within each station's broadcast reach.

Audiovisual Producer | **Freelance**

>>> June 2016 - August 2020 | Mexico City, Mexico

Developed an electromagnetic wave propagation simulation to estimate the coverage of 21 indigenous-language radio stations, and produced statistical reports and detailed maps of the indigenous population within each station's broadcast reach.

SOFTWARES

Python | ArcGIS | QGIS | Agisoft Metashape | Microsoft Office
package | Processing MODFLOW | Iber

LANGUAGES

Spanish - Native | English - C2 | Italian - B1

COURSES & CERTIFICATIONS

Geo Data Scientist | **Geodojo**

>>> Present

Hydrological Design and GIS | **MásHumus** / **La Restauradora**

>>> 2025

Keyline Design: Soil regeneration and water retention | **Humberto Moro**

>>> 2023

Drone photogrammetry and Agisoft Metashape | **CYSDEP**

>>> 2022

Mexican Environmental Legislation | **Centro de capacitación MCG**

>>> 2022

Data Analysis and Machine Learning | **BEDU**

>>> 2021