Maria Maily

Geospatial Data Analyst

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My expertise in spatial data analysis, politics, communication, and environmental protection has ignited my passion for visualizing and analyzing data to improve decision-making and create a better, more sustainable future. I aim to apply the knowledge I build into practice in a career that allows me to be creative, curious and confident.

Education

2022 – 2023   **MSc Geographic Information Science**   *University of Edinburgh*
- visualisation and analysis   (ArcGIS, QGIS, R, Python)
- web development/mapping   (HTML, CSS, JavaScript, ESRI StoryMap)
- data management   (Python, SQL, OpenRefine)

Dissertation: Recreating the historical Icelandic landscape through multidisciplinary sources and analysing GIS software 3D modelling capabilities to increase public engagement.

Projects: Reusable parser for unstructured data in Python; Self-Organising Map analysis of Edinburgh census data in R; Uncertainty analysis of a pollution flow model using Python.

2015 – 2016   **MSc Marine Resource Development and Protection**   *Heriot-Watt University*
Dissertation: Development of Shark Conservation and Species Action Plans for the Cayman Islands, based on collected local spatial data, to inform policies and implementation roadmaps.

Projects: Mapping priority marine features and estimating the carbon budget for a Blue Carbon Study of the Gutter Sound (Orkney); Analysis of socio-economic, environmental and technological factors of replacing the Churchill Barriers (Orkney) with bridges and tidal turbines.

2012 – 2015   **BA Politics and International Relations, and**
Media, Culture and in Communication   *Macquarie University*
Subjects: Global Environmental Politics, Global Political Economy, Science, Society and Environment; Migration, Human Rights and Diversity

Experience

2023 – present   **GIS Technician – BSG Ecology**
Ecological survey data digitisation (QGIS), validation and management in cloud database (PostgreSQL with PostGIS), including metadata and data versioning.
Spatial analysis and visualisation (e.g., Biodiversity Net Gain) for environmental reports aiding planned energy and infrastructure projects.
Effective communication with my team and ecologists to deliver reports under tight deadlines.

Certificate

2022   **Professional Certificate - Python Data Science**   *IBM, edX*
- data management (SQL, Pandas)   • data visualisation (Folium, Plotly)

Skills

Technical
Visualisation: ggplot, seaborn, matplotlib, plotly, folium, leaflet
Programming: Python, R, SQL   **Analysis**: ArcGIS, QGIS, RStudio
Web development: HTML, CSS, JavaScript   **Database**: PostgreSQL with PostGIS, Oracle
Office Software: LaTeX, MS Office   **Programming Software**: GitHub, VSCode
Graphics: Blender, GIMP, Inkscape   **Operating System**: Linux, Windows

Personal   Attention to detail, Communication, Creativity, Curiosity, Problem Solving, Time Management
Languages   English (fluent), German (native), French (beginner)

Interests

Contributing to humanitarian OSM, solving puzzles and getting creative while listening to podcasts about history and popular science. Continuous development through edX, Duolingo and Sololearn. Engagement with the GIS community (FOSS4G, ESRI Scotland, AGI Scotland).