

# Maria Maily

Spatial Visualisation Analyst

**Email:** maria@maily.eu

**Phone:** 0789 440 4333

**Location:** Edinburgh, Scotland

**Website:** m-maily.github.io

**LinkedIn:** linkedin.com/in/m-maily

**GitHub:** github.com/M-Maily

## Career Objective

I have a diverse background in spatial data analysis, applied to politics, communications and environmental protection. I am passionate about visualising and analysing data to improve decision-making, in an effort to create a better, more sustainable future. I hope to put what I have learned into practice in a career that allows me to be creative and curious, as well as grow my abilities.

## Education

2022 – now

### MSc in Geographic Information Science

*University of Edinburgh*

*Dissertation:* Recreating the pre-settlement Icelandic landscape (870AD) in QGIS, Blender and Unity using open-access datasets and multidisciplinary research. This is done to analyse GIS capabilities of 3D models for qualitative network analysis of early settlement networks.

Skills gained in the taught courses:

- visualisation and analysis of geographic data (ArcGIS, QGIS, R, Python)
- cartographic narratives, web mapping (HTML/leaflet and ESRI StoryMap)
- data management (Python, SQL, OpenRefine)
- modelling (Python, R, OpenModel, Simile and HEC)
- project management (team leader, communication, project planning)

Projects: Flood management in Edinburgh; Tranquillity analysis of Loch Lomond National Park; Self-Organising Map analysis of Edinburgh census data; Modelling the Great Lakes pollution flow.

2015 – 2016

### MSc in Marine Resource Development and Protection (2:1)

*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.

- surveying and monitoring (data collection for seashore and seabed, EIA)
- data analysis and visualisation (ArcGIS, R)
- sustainable resource use (energy, fisheries, tourism)
- research and project management (time management, communication, team work)

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 turbines.

2012 – 2015

### BA in Politics and International Relations, and in Media, Culture and in Communication

*Macquarie University*

*Subjects:* Global Environmental Politics, Global Political Economy, Science, Society and Environment; Migration; Human Rights and Diversity

- effective communication of policies and environmental issues through different media
- critical thinking: social, economic, political and environmental aspects of international relations
- migration and human rights considerations in climate change mitigation and adaptation
- sustainability in global environmental politics and global political economy

## Certificate

2022

### Professional Certificate - Python Data Science

*IBM, edX*

From an introduction to programming in Python to predicting the success of a proposed company.

- data management (SQL, Pandas)
- data visualisation (Folium, Plotly)
- machine learning (scikit-learn)
- web scraping (Beautifulsoup)

## Experience

2018 – 2022	<b>Sainsbury's</b> • effective communication coordinating tasks and training team members • attention to detail and following protocols to maintain highest quality standards • time management to meet deadlines while retaining customer satisfaction	<i>Trading and Online Assistant</i>
2018	<b>Macquarie University Fish Lab</b> Data entry and validation based on photographic records.	<i>Research Assistant</i>
2016	<b>Department of Environment, Cayman Islands</b> Gathering data for studies across the department and supporting public outreach, citizen science efforts and stakeholder meetings.	<i>Research Intern</i>

## Skills

<i>Technical</i>	<b>Visualisation:</b> ggplot, seaborn, matplotlib, plotly, folium, leaflet <b>Programming:</b> Python, R, SQL <b>Web development:</b> HTML, CSS, JavaScript <b>Modeling:</b> OpenModel, Simile, R <b>Office Software:</b> <del>La</del> TeX, MS Office	<b>Analysis:</b> ArcGIS, QGIS, RStudio, OpenRefine <b>3D:</b> Blender, Unity <b>Graphics:</b> GIMP, Inkscape <b>Operating System:</b> Linux, Windows
<i>Personal</i>	Attention to detail, Communication, Creativity, Curiosity, Problem Solving, Teamwork, Time Management	
<i>Languages</i>	English (fluent), German (native), French (beginner)	
<b>Interests</b>	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.	