

Leila Maritim [Spatial Data Analyst]

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EDUCATION

Paris Lodron Universitat Salzburg Salzburg, Austria

Copernicus Masters in Digital Earth

Graduation Date: July 2024

Jomo Kenyatta University of Agriculture and Technology Juja, Kenya

BSc in Geomatics Engineering and Geospatial Information Systems

Graduation Date: November 2018

WORK EXPERIENCE

UN Habitat Nairobi, Kenya

Spatial Data Analyst June 2022-September 2022

- Extracted built-up areas and open spaces from satellite imagery for cities/urban areas defined using the harmonized DEGURBA method.
- Digitized public transport stops from various open data sources for cities/urban areas defined using the harmonized DEGURBA method.
- Estimated share of land allocated to streets in select cities/urban areas defined using the TOR: 22-United Nations Human Settlements Programme-181067-Consultant Page 2 of 4 harmonized DEGURBA method.
- Collected spatial data from various national statistical offices and other verified sources and assessed its correctness and authenticity before it is integrated into the urban indicators database.
- Updated and maintained the urban indicators database and earth observation toolkit for sustainable cities and communities' websites.

OpenStreetMap Kenya Nairobi, Kenya

OSM Mapper January 2022-June 2022

- Contributed in mapping buildings in Nakuru county in support of Imagery for Social Good project.
- Verified and modified buildings detected by the MapWithAI tool.

Konza Silicon Nairobi, Kenya

GIS Analyst October 2019– December 2021

- Designed standardized procedural protocols and requirements for data collection, data capture and created cohesive database input guidelines to ensure data integrity and to support timely, efficient and accurate recording, maintenance and provision of land information.
- Visualized spatial data on maps to facilitate data exploration, planning, forecasting and understanding of spatial relationships.
- Data mining and analysis using Python and SQL to create insights and help in business intelligence and visualization to Metabase Visualization tool.
- Trained users on data capture, data management and data validation.

West Kenya Sugar Company Kakamega, Kenya

Assistant Data Analyst January 2019 – October 2019

- Built and maintained a dashboard on Google Data Studio that facilitated easy and concise reporting during management meetings hence supporting decision making.
- Collaborated with IT and Transport Logistics teams on multiple functions including database management and assembling of data from various systems i.e., Agricultural Management System, Weighbridge system, Workshop system and SAP to create reports.
- Assessed user needs and conducted a gap analysis in support of the refinement of the Agricultural Management System. This facilitated the integration of GIS technologies such as NDVI mapping in the management of sugarcane farms.

National Irrigation Board Nairobi, Kenya

GIS Intern August 2018 – December 2018

- Digitized features (roads, streams, infrastructure, and settlements) from satellite imagery via Google Earth and ArcGIS software.
- Created, translated, and integrated GIS data layers for standardized maps still used by the company.

- Performed basic GIS operations including using geoprocessing tools, editing geographic data sets and publishing maps using ArcGIS Online.

COURSE EXPERIENCE

ESRI Certificate- DIY Geoapps MOOC course

March 2021– April 2021

- Designed data collection questionnaires using Survey123.
- Created custom web applications using templates available in ArcGIS Online.

ESRI Certificate- Imagery in Action MOOC course

August 2021– September 2021

- Processed, analyzed and visualized satellite and drone imagery using raster functions and machine learning tools in ArcGIS Pro, Site Scan, Drone2Map and ArcGIS Image for ArcGIS Online.

Advancing Women’s Prosperity in the Workplace through Technical and Soft Skills in Environmental Science and Geospatial Technologies-Arizona State University

September 2021– October 2021

- Mapped buildings in OpenStreetMap using iD Editor and verified AI-tagged roads using RapiD.
- Created flight plans in open-source software (Mission Planner), processed the drone imagery into 3D products (Structure from Motion) and conducted spatial analysis on the generated products.
- Prediction of seagrass habitat with machine learning using ArcGIS Pro tools.

ESRI Certificate- Spatial Data Science: The New Frontier in Analytics

October 2021– December 2021

- Dived into spatial data science topics with case study exercises on data engineering, predictive analysis, hotspot analysis, suitability analysis and visualization using story maps.

PUBLIC SERVICE EXPERIENCE

Konnect Youth Consortium Kericho, Kenya

Volunteer April 2017 – Present

- Conducted site visits to local HIV testing centers to assist in evaluating the effectiveness of HIV/AIDS awareness activities.
- Organized activities at the Konnect Youth Consortium Centre encouraging academic achievement among the youth as well as helping them steer off harmful activities like drug abuse and theft.

SKILLS & INTERESTS

Skills: Microsoft Office (Excel, PowerPoint) | ArcGIS Pro | Python Programming| Google Data Studio | Tableau| SQL | Java Programming| Google Earth Engine | Object Based Image Analysis|

Interests: Geoinformatics, Analytics, Spatial Data Science, Hiking, Reading