

RUFAI BALOGUN

GEOSPATIAL DATA SCIENTIST

PROFESSIONAL SUMMARY

A budding Geospatial Data Scientist driven to utilize the tools of data, technology, and human resources to foster sustainable development.

PROFESSIONAL EXPERIENCE

Space4Good B.V., The Hague, Netherlands

Geospatial Analyst | July - September, 2021

- Researched, reviewed, and implemented a workflow for individual tree-top identification and extracted their corresponding crowns from Aerial imageries using the one-stage object detector, RetinaNet.

The Sixth Avis, Akure, Ondo State, Nigeria

Research Partner | May 2020 - present

- Extracted ocean experts list, community consultation across 15 West African countries, co-developed a workflow for the development of an erosion-hazard analysis.

National Space Research and Development Agency, Nigeria

Research Intern | May 2020 - present

- Supported researchers on diverse projects ranging from Urban Heat Islands, Drought and Flooding, Disease Mapping and Geomorphology. Participated, taught, and supported in organizing the monthly Remote Sensing and GIS Training hosted by the Agency in partnership with other organizations and new interns.

EDUCATION

University of South Brittany, France

MSc. Geo Data Science | September 2021 - July 2022

Thesis: The Transferability of Visual-Language Pretrained Models to Remote Sensing Data.

- Course modules in Active and Multi-temporal Remote Sensing, Machine Learning, Deep Learning, Image Processing and Analysis, High-Performance Computing, Data Mining, and Interactive Data Visualization.
- Served as an ad-hoc project manager for the On NCloud: Cloud Cover Detection Challenge, DrivenData competition with 7 other participants as part of the geodata workshop module.

University of Salzburg, Austria.

MSc. Earth Observation and Geoinformatics | September 2020 - August 2021 | 1.24/4.00 (German scale)

- Course modules in Remote Sensing Analysis and Modelling, Big Earth Data Analysis, Spatial Analysis, Photogrammetry, Geo-application development
- Participated in Summer Schools: EO4GEO Intelligent Earth Observation Summer School; Data Science Methods within Geoinformatics Spring School; PRAIRIE/MIAI Artificial Intelligence Summer School, International Symposium on Digital Earth, Conflict Early Warning and Early Action Conference

Federal University of Technology, Akure, Nigeria

BSc. Meteorology and Climate Science | January 2015 - December 2019 |

1.15/4.00 (German scale)

Thesis: Climate variability and its impact on vegetation health in the climatic zones of Nigeria



CONTACT

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SKILLS

- Multitemporal Remote sensing
- Image processing and analysis
- Machine Learning
- Deep Learning
- Scientific research and writing
- Interactive data visualization
- Project Management

SOFTWARE AND TOOLS

PyTorch	ArcGIS Products
Scikit-Learn	QGIS
Scikit-Image	eCognition
PyTorch Lightning	SNAP
Pandas	Cloud Compare
Numpy	Agisoft Metashape
RasterIO	eMotion
PySpark	Google Earth Engine
MRJob	Weight and Biases
Leaflet	Kepler GL
OpenLayers	G-Suite
VegaLite	Trello
Tableau	Docker
Shell scripting	Asana
Git	GitHub

LANGUAGE

- English Language
- La langue française

AWARDS AND HONORS

Erasmus Mundus Joint Master's Degree Scholarship (2020)

Google African Developers' Scholarship (2020)

Best Graduating Student in Meteorology and Climate Science, 2019

SOCIETY MEMBERSHIP

- UN MGCY Data Working Group
- IEEE Geoscience and Remote Sensing Society
- International Society for Photogrammetry and Remote Sensing