BALOGUN, Rufai Omowunmi

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Education

2021 – 2022   **MSc., Geo Data Science,** University of South Brittany, France.
Thesis*: The Transferability of Visual-Language Pretrained Models to Remote Sensing Data.*
Advisor: Professor Nicolas Courty, Head of the IRISA Group, University of South Brittany.
2020 – 2021   **MSc., Earth Observation and Geo-Informatics,** University of Salzburg, Austria.
2019   **B.Tech.,** in Meteorology and Climate Science. (Grade: First Class Honours -- 4.73/5.00), Federal University of Technology, Akure, Ondo State Nigeria.
Thesis: *Climate Variability and its Implication on Vegetation Health in the Climatic zones of Nigeria.*

Professional Experience

July – Sept. 2021   **Geospatial Analyst, Space4Good, The Hague, Netherlands (**Internship**)**
Researched, reviewed, and implemented a workflow for tree-top identification and extracted their corresponding crowns using Deep Learning built on the RetinaNet backbone.
May 2020 – Present   **Research Partner, The Sixth Avis, Akure, Ondo State, Nigeria** *(part time)*
Extracted ocean experts list, community consultation across 15 west African countries, co-developed a workflow for the development of an erosion-hazard analysis.
Jan – August 2020   **Geospatial Analyst, Center for Space Research and Applications, Akure, Ondo State, Nigeria**
Led research work on urban land dynamics, malaria vulnerability mapping using multi-criteria decision analysis, visual analysis of seasonal sea-surface temperature change.
June – Dec 2018   **Research Intern, National Space Research and Development Agency, Abuja, Nigeria**
Supported researchers to 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.

Skillsets.

Remote Sensing	Image Processing and Analysis	Machine Learning	Deep Learning
NLP Statistics	Research Big Data Analytics	Data Visualization	

Software and tools

Python (Pytorch, Scikit-learn, Scikit-image, OpenCV, PyCUDA, MRJob, PySpark, Rasterio, Fiona, Geopandas, Folium),

ArcGIS Products	QGIS	eCognition	SNAP	Google Earth Engine

Short Courses Participation

Ongoing	Natural Language Specialization	DeepLearning.AI (Coursera)
August 2021	Geo-Machine Learning	Hatari Labs

April 2021   Synthetic Aperture Radar: Hazards by University of Alaska Fairbanks offered on edX. (Online)
February 2021   RUS Remote Training: Ship Detection with Sentinel-1 using SNAP S-1 toolbox
December 2020   Copernicus MOOC. (Online)
November 2020   Geospatial Applications for Disaster Risks Management MOOC. UN Spider, ISRO (Online)
September 2020   Going Places with Spatial Analysis. The Environmental Systems Research International (ESRI)
April 2020.   Spatial Data Science: A Frontier in Analytics. The Environmental Systems Research International (ESRI)

Awards and Honors

2020   Erasmus Mundus Joint Master's Degree Scholarship
2020   Google Africa Developers Scholarship
Dec. 2019   Best Graduating Student in Meteorology and Climate Science
Jan 2015 – 2019 LOTS Charity Foundation Excellence Scholarship for Academic Studies
Dec 2015   LOTS Charity Foundation International Exposure Award

Intensive Short Courses:

January 2022   **Advanced Language Processing Winter School**
July 2021   **PAISS Summer School**
June – July 2021   **Eo4GEO International Summer School: Intelligent Earth Observation**
April 2021   **ZGIS Spring School: Data Science Methods within Geoinformatics**
May 2021   **Conflict Early Warning and Early Action Conference**

Society Membership

January 2020 –   International Society for Photogrammetry and Remote Sensing
February 2021 --   IEEE Geoscience and Remote Sensing Society

September 2022 -- UN MGCY Data Working Group