

# Itohan-Osa Abu

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## Work Experience:

### 1. **Researcher** at University of Wuerzburg (15/09/2020 – 31/05/2024)

- Participated in a migration project using data analysis techniques to extract insights from household surveys.
- Designed and conducted household surveys, analysing results to drive project objectives.
- Analysed remote sensing products for migration studies.
- Instructed courses in science communication and data visualization, emphasizing the importance of clear data representation.
- Instructed in cloud computing, specifically using Google Earth Engine.

### 2. **Trainee** at European Commission Joint Research Centre (03/12/2019 – 30/04/2020)

- Pioneered the mapping of Ghanaian and Ivorian cocoa farms using optical and radar satellite imagery in Google Earth Engine.

### 3. **Intern** at the German Aerospace Center (DLR) (02/10/2018 – 30/11/2018)

- Successfully mapped mangroves using DLR's TimeScan data in the challenging Niger Delta region in Nigeria.
- Executed calculations of gas flares from protected areas, utilizing DLR products developed from Firebird satellite imagery.

## Education:

### 1. **Master of Science** in Applied Earth Observation and GeoAnalysis of the Living Environment at University of Wuerzburg (15/10/2017 – 20/08/2020)

- Utilized Copernicus data in Google Earth Engine Cloud computing for the detection of cocoa farms in complex landscapes.

### 2. **Bachelor of Science** in Geology at University of Benin (14/10/2009 – 09/02/2014)

- Geological Survey of the Benin Formation, Benin City, Edo State, Southern Nigeria and the Igarra Schist Belt, Edo – North, Southern Nigeria.

- Geotechnical Survey of the University of Benin Gully erosion site, Ugbowo, Edo State.

#### **Publications:**

- Characterization of temperature regimes in Western Europe, as regards the summer 2022 Western European heat wave <https://link.springer.com/article/10.1007/s00382-023-06760-4>
- Relationship between synoptic circulations and the spatial distributions of rainfall in Zimbabwe <http://www.aimspress.com/article/doi/10.3934/geosci.2023001>
- Environmental Contamination of a Biodiversity Hotspot—Action Needed for Nature Conservation in the Niger Delta, Nigeria <https://www.mdpi.com/2071-1050/14/21/14256>
- Addressing indirect sourcing in zero-deforestation commodity supply chains <https://www.science.org/doi/10.1126/sciadv.abn3132>
- Detecting cocoa plantations in Côte d'Ivoire and Ghana and their implications on protected areas <https://www.sciencedirect.com/science/article/pii/S1470160X21005288?via%3Dihub>

#### **Conferences attended:**

**European Space Agency – Living Planet Symposium, Milan, May 2019**

**European Space Agency – Living Planet Symposium, Bonn, May 2022**

- Delivered an oral presentation
- Showcased a poster presentation

**Tropentag, Prague, September 2022**

- Presented two posters

#### **Key Skills:**

- **Data Visualization:** Expertise in presenting complex data in a comprehensible manner using tools like R, Python, Google Earth Engine, Blender, qGIS, Canva, Aerialod and ArcGIS.
- **Data Analysis:** Proficient in analysing large datasets, especially in the domain of remote sensing.
- **Programming & Tools:** Proficient in R, R-Studio, Python, Google Earth Engine, QGIS (Advanced), and ArcGIS Desktop/Pro (Advanced).
- **Languages:** Fluent in English; Intermediate proficiency in German (B2 level).