

# TEMITOPE BENEDICT WAHEEB

Waheebtemitope@gmail.com

+2347034554426

Linkedin.com/in/temitopewaheeb

## PROFILE

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I am a dedicated and result-driven post-graduate student in Geo-information Science, with a strong focus on advancing research and technological innovation within the Geographic Information Systems (GIS) field. My academic background, combined with hands-on experience, has allowed me to develop a comprehensive skill set in GIS tools and programming languages, including Survey123, Kobo Toolbox, ArcGIS Pro, Idrisi, Google Earth Engine, Python, and Dashboards. This knowledge enables me to proficiently manage all aspects of geographically referenced data, from collection and storage to advanced analysis, interpretation, and visualization. I am seeking to further my expertise through a graduate program that emphasizes advanced technologies and research methodologies with a long-term objective of honing my skills to develop innovative, sustainable and impactful solutions that benefit communities and organizations alike.

## EDUCATION

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**Master of Science in Geo-Information Science** | University of Ibadan | 2024-2025

**Bachelor of Science in Geology** | University of Ibadan | 2023

**Ordinary National Diploma in Geological Technology** | Federal Polytechnic Ede | 2016

**Geographic Information System** | GISKonsult I Bodija | 2022

**Spatial Analysis, Satellite Imagery and Environmental Analysis** | Coursera | 2023

**Business Intelligence and Data Analysis** | ALX Africa | 2023

## RESEARCH WORKS

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- The Impact of Climate Variability on Vegetation Phenology in Northern Nigeria: A Comparative Study of Sokoto and Zamfara States Using Sentinel-2 Satellite Imagery **(2024)**.
- Multi-Criteria Decision Analysis for Evaluating Groundwater Potential in Ajaokuta and Its Environs, Northcentral Nigeria **(2024)**.
- Urban Change Detection of Osun State Using Enhanced Normalized Difference Impervious Surfaces Index (ENDISI) **(2023)**.
- Mineralogical Study of Trona Sample of the Northeastern Perimeter of Lake Chad Using Petrographic and X-RAY Diffraction Analysis **(2023)**.

A Review on:

- Carbon Capture Sequestration and The Upstream Business, Utilization, Prospect and Challenges **(2023)**.
- Alluvial Fan Depositional Environment, Wireline-Logs and It's Place in Petroleum Reservoir **(2022)**.

## SELECTED RESEARCH EXPERIENCE

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### GIS INDEPENDENT RESEARCH | 2024

Title: The Impact of Climate Variability on Vegetation Phenology in Northern Nigeria: A Comparative Study of Sokoto and Zamfara States Using Sentinel-2 Satellite Imagery

- Sentinel-2 satellite images from 2002 to 2022 were used in the study, in addition to large-scale rainfall (LSR) and land surface temperature (LST) from NASA-Giovani, and length of growing season (LOS) was computed using the Normalized Difference Vegetation Index of the study area.

- A threshold-based method based on the Normalized Difference Vegetation Index time series was used to evaluate the phenology of the vegetation in Digital Earth Africa Sandbox.
- Correlation analysis was undertaken to explore the links between climate factors and growing season length.

## **BACHELOR OF SCIENCE RESEARCH PROJECT | UNIVERSITY OF IBADAN | 2023**

Final year research project in fulfillment of requirements for BSc. degree.

Thesis title: Mineralogical Study of Trona Sample of the Northeastern Perimeter of Lake Chad Using Petrographic and X-RAY Diffraction Analysis.

- Representative sampling of samples collected from the study area.
- Prepared thin sections for petrographic microscopic analysis
- Prepared geological, elevation and drainage map of the study area using ArcGIS Pro.
- Prepared samples for XRD studies, including sieving for fine portions and pulverization.
- Samples were sent to Actlab in Canada for XRD studies, and the x-ray diffraction pattern were interpreted using Pdf4/Mineral ICDD software.
- Performed statistical analysis of mineral abundance using excel.
- Determine the economic importance of the samples based on purity.
- Compared the result with the mineral abundance of other trona worldwide.

## **INTERNSHIP EXPERIENCE**

### **DATA PROCESSOR AND ANALYST | ANALYST DATA SERVICES AND RESOURCES, IB | 2023- PRESENT**

- Conducted survey designs, data collection and analysis using valid and reliable survey instrument and methods suitable for achieving the objectives of clients.
- Analyzed data to draw hidden insights aimed at supporting decision making at the levels of businesses, academics and governments.

### **DATA ANALYST | TRAINING, THEKREDIBANKNG, LAGOS | 2023- PRESENT**

- Analyzed data using descriptive and predictive analysis to suggest optimal decisions under probable scenarios.
- Created infographics and dashboard designs to visualize insights

### **RESEARCH ASSISTANT | TRAINING, RESEARCH AND DEVELOPMENT, UI | 2022- PRESENT**

- Carried out literature review to study the background for ongoing research.
- Classified journals based on journal impact factors and identified suitable ones for publication.
- Prepared manuscripts based on the author's guide for submission and reviewed feedback.

### **GIS ANALYST | GISKONSULT ACADEMY | 2022-PRESENT**

- Collaborated to execute the data collection and geospatial analysis of Adeyi Avenue.
- Digitized rural and urban features of Akungba using Arcgis pro to solve spatial problems.
- Executed the data collection and prepared survey notes for over 20 new maps produced.

### **ASSISTANT GEOLOGIST | AHMU MINING COMPANY | 2021-2022**

- Part of the team that carried out environmental impact assessment for quarry site.
- Coordinated exploration at tourmaline mining sites at Komu village.
- Prepared routing map and layout for mining operations.

### **ASSISTANT GEOPHYSICIST | GEOSOFT HYDROCONSULT | 2016-2018**

- Collected, analyzed data and prepared reports for borehole drilling.
- Carried out well-logging for borehole drilling at 10 sites resulting in a sufficient water yield.
- Executed data interpretation for 10 sites for borehole drilling in Osogbo and environs.

## LEADERSHIP/VOLUNTEER EXPERIENCE

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### FOUNDER|THE AMITY CHARITY INITIATIVE| 2020

- Established a nonprofit organization dedicated to assisting the less privileged by means of donations and fundraising.

### CO-ORGANISER|AISATURDAY IBADAN, University of Ibadan| 2023

- Collaborated with AISaturday Ibadan to deliver training sessions on artificial intelligence and machine learning, benefiting over 150 participants.

### FACILITATOR| GISKonsult Academy, Ibadan| 2022

- Trained 60 students on utilizing Survey123 for biodiversity mapping in celebration of GISDAY.

### FACILITATOR| University of Ibadan GIS community, Ibadan| 2021

- Trained over 50 participants from 10 universities on fast-evolving Geographic Information System (GIS) technology.

### TRAINER| Network for Inclusion of people with special needs, Ibadan| 2021

- Volunteered to provide basic life support training to their five caregivers.

## AWARDS

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- Second Best Mock Paper| NAPEUI Mock Paper Presentation| 2023
- Overall Best| AEC Group Quiz| NAEGE Conference| 2022
- First Runner-up| Chevron Quiz| NAPE Conference| 2022

## SKILLS

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### CORE SKILLS

- Proficiency in ArcGIS packages (ArcMap, Arc scene, ArcGIS Online, ArcGIS Pro and WebGIS).
- Proficiency in using Python for Geospatial Analysis.
- Data Sourcing and Spatial analysis using QGIS, Google Earth Engine and Digital Earth Africa Sandbox.
- Data collection and management using Survey123 and Kobotool box.
- Map design and Cartography, Geo-processing and model-building.
- Satellite Image Classification and Analysis using Idrisi, ArcGIS Pro and Google Earth Engine.
- SQL, Power Query, Power Pivot, SPSS, Eview, Python, Power Automate, Canva.
- Microsoft Suite (Power Point, Excel, MS word), Google workspace.

### SOFT SKILLS

- Attention to details.
- Interpersonal and Communication Skills.
- Multitasking and Timely Delivery.
- Flexibility and Adaptability.
- Organizational and Time Management.
- Teamwork and Collaboration.
- Capacity to work in multicultural environments.
- Ability to work unsupervised.
- Professional work ethic and accountability.

## REFERENCE

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- Available on Request