# DANMALLAM BELLO ADAMU

I obtained a master's degree in conservation biology and a bachelor's degree in applied ecology, with experience in working with large biodiversity datasets, teaching, research design, field data collection and analysis, web development, database management, and GIS & remote sensing.

I am a proficient user of 'R' computational environment and keen on learning new things to become an 'R' developer.
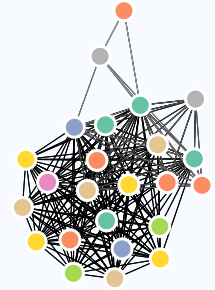
🎓 EDUCATION

2020
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2019

MSc Conservation Biology

A.P. Leventis Ornithological Research Institute (APLORI)

📍 University of Jos, Nigeria

· Thesis: Evaluation of Vegetation Characteristics and Habitat Utilization by Birds in Some Airports in Nigeria

2018
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2013

B.Tech (Hons) Applied Ecology

Abubakar Tafawa Balewa University (ATBU)

📍 Bauchi state, Nigeria

· CGPA: 4.39/5.0

💼 RELEVANT EXPERIENCE

present
|
April.,
2021

Database Manager

Nigeria Bird Atlas Project (NiBAP), African Bird Atlas Project (ABAP)

📍 APLORI, Nigeria

· Represented Africa Bird Atlas Project (ABAP) in a Global Biodiversity Information Facility (GBIF) data mobilisation training
· Maintain and query bird atlas SQL (Structured Query Language) database and using packages like {sqldf} and {dplyr} in R for data wrangling
· Developing and implementing the necessary technology and user-friendly tools for the collation, digitization and organization of the bird atlas data and writing database documentation

present
|
August,
2020

IT & Web Development

Coalition for Biodiversity Conservationists of Nigeria (CBCN)

📍 Nigeria

· Database administration,website management, content creation and archiving; Creation and management of social media accounts: Twitter (https://twitter.com/TheCBCN), Facebook (https://facebook.com/cbcnpost), and Instagram (https://instagram.com/TheCBCN) using hootsuite

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View this CV online

CONTACT

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🔗 bdanmallam.com

📞 23408038175878

LANGUAGE SKILLS
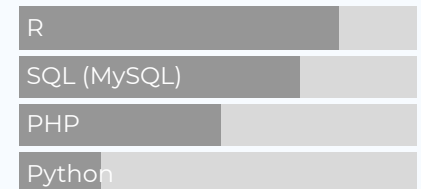
| R |
| SQL (MySQL) |
| PHP |
| Python |

Post Graduate Researcher

March, 2020 | October, 2019

A.P. Leventis Ornithological Research Institute (APLORI)

📍 University of Jos, Nigeria

- Involved in bird census, vegetation measurement, and geospatial data extraction using NASA's Earth Data application (AppEEARS) with R to download and explore the geospatial data at various spatial and temporal scales.
- Accessed and downloaded past bird strikes data and aircraft movement records from Nigerian Civil Aviation Authority (NCAA) and independently analyzed and constructed statistical models for the large data
- Developed models to predict the influence of vegetation cover on birds and bird strike risk, recommending measures for avian and aviation safety

Teacher

2019 | 2018

National Youth Service Corps (NYSC)

📍 Federal College of Education, Katsina

- Classroom management, teaching methods and techniques

Intern

2017 | 2016

APLORI

- Involved in field data collection and research work of five Master's students and one PhD student from APLORI
- Trained on using R programming for statistics/data science and Microsoft Office (Excel, Word, and PowerPoint) in data analysis, technical reports and presentations
- Trained on using Quantum Geographical Information System (QGIS) in map production and remote sensing techniques (such as downloading, processing and classification of satellite imagery)

⚙️ SKILLS

Communications & Technical Skills

- Analytical reasoning skills and excellent environmental communication to a wide range audience –both within and outside academia
- Data wrangling in 'R' computational environment, OpenRefine, and Excel; data analysis using 'R' and R Markdown for web development and report writing
- Proficient in using Quantum Geographical Information System (QGIS) and 'R' in mapping and geospatial analysis; basic knowledge of Google Earth Engine (GEE)

👤 PROFESSIONAL DEVELOPMENT

2020

Databases for Developers: Foundations

Oracle Dev Gym

2018 ● **Research Writing in the Sciences and Communicating Research Outside Academia**
AuthorAID, UK

2014 ● **Diploma, Computer Operations**
Professor Iya Abubakar Community Resource Center ⚲ Bauchi

📖 CONFERENCES & WORKSHOPS

June, 2021 | May 03, 2021
● **Biodiversity Data Mobilization**
(By GBIF)

· Trained on project planning, data capture, data management, digitization of biodiversity data, getting data using {rgbif}, and publishing data through the GBIF Intergrated Publishing Toolkit (IPT).

2021 ● **useR 2021 Conference (Participant)**

Topics covered include: R packages, R spatial analysis, Shiny, Data visualisation, Teaching R and R in Teaching, Statistics and Bioinformatics, The R-universe project, Community and Outreach, amongst others.

· Learned the foundations of {fusen} in R package development using R Markdown, {devtools} and {roxygen2}; Learned about {mapsf}, {MODIStsp}, {leaflet}, {rgeoboundaries}, {ggplopt2}, {rgdal}, and {raster} in spatial analysis; Learned the basics of shiny web-app development and teaching using R in a reproducible way; Learned about the R universe project in publishing software and discovering reproducible Rmd articles.

July, 2019
● **Bioregion: an 'R' package for mapping biodiversity and conservation**
(By Dr. Barnabas Daru) ⚲ APLORI, Nigeria

· Foundations of R spatial analysis: Learned to create, manipulate, and visualize spatial data

2019 ● **A Comparative Study of Tree Vegetation Composition between Fenced and Unfenced area of Sumu Wildlife Park, Bauchi State**

The 6th Biennial Conference of Nigerian Tropical Biology Association (NTBA)
⚲ Federal University, Dutse, Nigeria

· Presentation

📖 PUBLICATION(S)

● **Arewa Atlas Team: report of a five-day 100 pentads survey, with two out of range forms**
Biodiversity Observation (in press)

2018 Effects of Size and Bark Roughness of Parkia Biglobosa on Lichen Colonization in Amurum Forest Reserve: Implication for Conservation

Science Forum (Journal of Pure and Applied Sciences), Abubakar Tafawa Balewa University Bauchi

· Institutional Publication
· Authored with Toma Buba

☞ ACKNOWLEDGED CONTRIBUTION

phyloregion: R package for biogeographical regionalization and macroecology (Journal: Methods in Ecology and Evolution)

Acknowledged by the authors for helping in translating abstract to Hausa language

✍ MANUSCRIPT IN PREPARATION

Lichens as bioindicators of air quality in a tropical savannah environment

Target journal: African Journal of Ecology

Human conflicts with birds: a case study of birdstrikes and bird migration hurdles

Target journal: Ornithological Applications

🖥 REFEREES

Prof. Suleiman Dangana Abdul

ATBU, Bauchi

Prof. Shiiwua A. Manu

APLORI, University of Jos

Dr. Samuel T. Ivande

Africa Bird Atlas Project (ABAP); Scientific Director, APLORI, University of Jos

Dr. Salamatu Fada

Coalition for Biodiversity Conservationists of Nigeria (CBCN)