# 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.
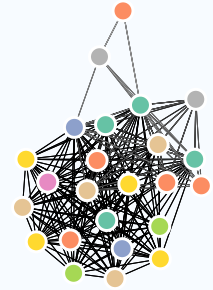
🎓 EDUCATION

2020 | 2019

MSc Conservation Biology
A.P. Leventis Ornithological Research Institute (APLORI)

📍 University of Jos, Nigeria

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

2018 | 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 Administrator
Nigeria Bird Atlas Project (NiBAP)

📍 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 to work with bird atlas data
· 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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CONTACT

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LANGUAGE SKILLS
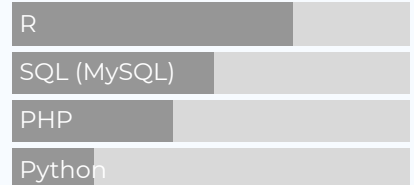
R

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

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

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Dr. Salamatu Fada
Coalition for Biodiversity Conservationists of Nigeria (CBCN)

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