



Software
Sustainability
Institute



Fellowship 2023 Screencast Application

Umar Ahmad

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Software Sustainability Institute 2023 Fellowship

Umar Ahmad

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Bioinformatic Scientist, MOGID Laboratory, ATBUTH
Faculty Member, Bauchi State University.



@babasarak1



A large, light green speech bubble with a thin black outline is centered on a white background. The bubble has a tail pointing downwards and to the left. Inside the bubble, the text "Who am I professionally?" is written in a bold, black, sans-serif font, centered horizontally and vertically.

**Who am I
professionally?**

Umar AHMAD

Head of Department
Geneticist/ Bioinformatician



Bioinformatics Scientist



Community Lead



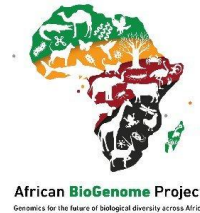
Member



Contributor



Co-Chair
Data Analysis Committee

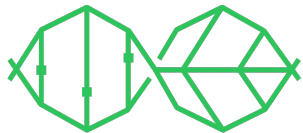


African **BioGenome** Project
Genomics for the future of biological diversity across Africa

Submission Moderator



Project Lead

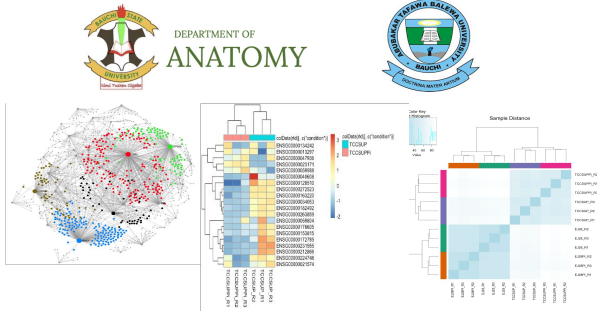


Open Life Science



What I do?

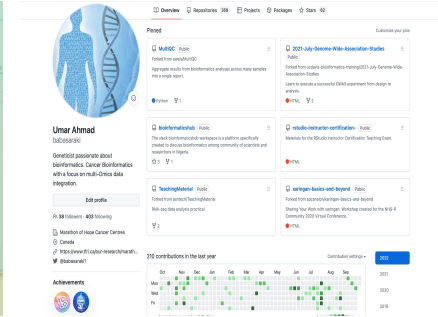
Computational Cancer Research



Bioinformatics & Data Science services



Training & Mentoring





**My plans for the
fellowship**

Plans for the fellowship

- Develop bioinformatics and computational genomics course
- Develop short courses in areas of data science using R & Python
- Develop short training modules about preprints and open science



Milestones to have more Nigerian scientists be informed about Open Science and gain some Computational Skills.

Develop Computational Genomic Course

- I will develop a computational genomic course based on the track record of my knowledge and in-depth experience in analysing large scale genomics and transcriptomics datasets
 - Genomics
 - Transcriptomics
 - Unix/Linux Command Line
 - R/Bioconductor
 - Enrichment analysis
 - Alignments and many more.

Develop Short Courses in Data Science

- I will develop a short courses training materials that will cover the following topics in data science
 - How to visualise data in R & Python
 - How to use Rmarkdown to report your analysis
 - Git and Github
 - How to install bioinformatics software
 - How to use Jupyter notebook for computational reproducibility

Develop Short Training Module on Preprints & Open Science

- Based on my long term working experiences at an International Team of Scholarly Professional and Preprints services at [AfricarXiv](#), I will develop a training module to teach our local scientists about preprints and open science.
- This is simply because many of our local scientists and researchers are not aware about preprints and its importance in open science and scholarship. The training module will cover:-
 - Open science
 - Open scholarly communication
 - Preprints
 - FAIR principles
 - Persistent Identifiers and more.

Why me?

- I am a trained RStudio Instructor and I have been organising and delivering workshops materials and being actively involved in Bioinformatics and Open Science Communities
- Participants will be recruited through [Bioinformatics Hub](#), and [Nigerian Bioinformatics and Genomics Network](#) and Open Science Communities that I am in.
- The SSI, and its community highly compliments my own goals and passion to promote Open Science and develop capacity of our local scientists, computationally.



Thank you for listening!