Science Journey Seminar
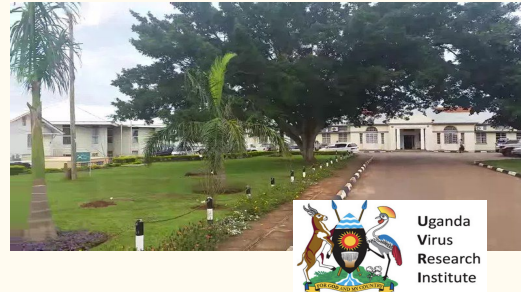
Alfred Ssekagiri
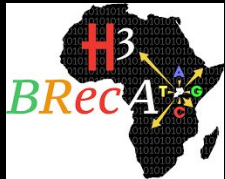
Major power banks on this journey

Makerere University

- Mathematics - Major

- Physics - Minor

- **Mentorship**

AIMS - Tanzania

- **Focus - Applied Mathematics**

  - Statistics - various areas of applications

  - Several programming languages

  - Introduction to Bioinformatics

- **Networking and parties**

- **Msc. Bioinformatics**

    - **Bioinformatics**

        - Database theory and application

        - Programming

- **Project --** microbiomeseq: An R package for microbial community analysis in an environmental context

Uganda Virus Research Institute

Bioinformatics roles @UVRI

Major roles

- Coordinating Bioinformatics trainings
- Data analysis support - statistical and bioinformatics data analysis
- Development of bioinformatics pipelines
- Development of data access portals - web applications
- Identifying potential collaborators
- Contributing to **grant applications** for the hosting laboratory

Major areas of focus

- Genomic surveillance and general molecular epidemiology: MRC/UVRI and LSHTM: HIV and SARS-CoV-2
- Virus discovery: CVR @University of Glasgow; GeMVi project @KEMRI
- Node accreditation exercises, bioinformatics training, tools and workflows, database resources - H3ABioNet

Bioinformatics @UVRI - collaborations

Part of PhD in Bioinformatics

BROADLY: In-silico approaches for identification of HIV-1 drug resistant mutations.

What am I learning?

SOFT skills are as important as your technical skills

Choose what you enjoy doing if you have a chance

We got unique timelines - Don't let anyone's sprint kill your marathon

Mentorship and **Networks** -- key components

Contacts

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Bioinformatics   Machine learning   Infectious diseases

R^G

Alfred Ssekagiri ✏️ Edit

Master of Science · Bioinformatics associate at Uganda Virus Research Institute
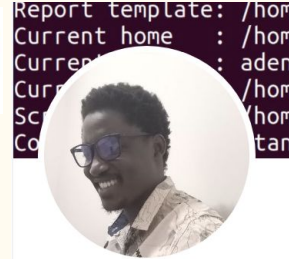
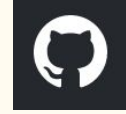Entebbe, Uganda | Website

❝❝ *PhD student*

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Bioinformatics, ML

Asanteni sana