



Faruk Dube

Doctoral Student

My Contact

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in Faruk Dube

Education

- Uppsala University, Sweden, 2016–2018
Masters of Medical Science in Infection Biology, Biological and Biomedical Sciences
- Makerere University, Uganda, 2009–2012
Bachelor of Science in Biomedical Laboratory Technology

Wet lab skills

- PCR-based techniques
- ELISA
- Bacterial, Viral, fungal and *C. elegans* culture
- DNA/RNA handling
- Sequencing library preparation

Computer skills

- NGS data analysis (Genome and Transcriptome)
- Pipeline building with Nextflow
- Data wrangling and visualisation
- Statistics
- Programming in R and Python
- Unix
- Git
- Illustration in Inkscape

Language

- Luganda (Native)
- English (Fluent)
- Swedish (Beginner – Intermediate)
- Swahili (Intermediate)

About Me

An infection biologist interested in utilizing both lab work and computational resources to solve biological/medical problems. I have previously worked with viruses, fungi, bacteria, and now parasites. Currently, I am a doctoral student utilizing both wet-lab and bioinformatics techniques to determine why parasites are resistant to available drugs.

Professional Experience

PhD candidate | Swedish University of Agricultural Science
2019/10 – Present

Activities:

- Thesis "*Ivermectin-induced gene expression changes in adult *Parascaris univalens* and *Caenorhabditis elegans* – a comparative approach to understand and control threatening anthelmintic resistance*"
- Worm culture and drug exposure experiments
- RNA handling
- Primer design and RT-qPCR
- Transcriptomic data analysis and visualisation
- Manuscript writing
- Two scientific studies published

Research Engineer | National Veterinary Institute
2018/07 – 2019/10

Key responsibilities:

- Bacteria and Fungi culture and DNA handling
- DNA library preparation, sequencing, genome analysis
- Building NGS data analysis pipelines
- Provide bioinformatics support to different projects
- One scientific study published

Laboratory Technologist | Makerere university–Walter Reed Project
2013/04 – 2016/08

- Key responsibilities:
- Virus culturing
- Sample and RNA/DNA handling
- PCR- and ELISA-based assays
- Training interns

Awards

2022 Travel grant– SLU

2022 Travel grant–Foundation Alfa Laval AB's (AB Separators) fund

2021 Travel grant – SLU

2020 Stiftelsen Gösta och Sonja Engströms fond

2016 Swedish Institute Study Scholarship for a two-year masters studies in Sweden