

FREEMAN MOYO

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Education

Brigham Young University - Idaho

Postgraduate Diploma in Education | Lupane State University | Lupane, Zimbabwe

October 2017

- Merit

MSc Applied Microbiology & Biotechnology | National University of Science & Technology | Bulawayo, Zimbabwe

November 2016

- Pass

BSc Agriculture | University of Zimbabwe | Harare, Zimbabwe

August 2008

- Upper Second Division (2.1)

Research Experience

Dr Fedinah Moyo | *Research Proficiency* | Zimbabwe

January 2017 - December 2017

Lupane State University

- INVESTIGATING THE IMPLEMENTATION OF ICT IN THE TEACHING AND LEARNING OF A' LEVEL BIOLOGY IN HIGH SCHOOLS IN MANGWE DISTRICT, PLUMTREE (ZIMBABWE)
- Research Experience:
 - o Designed comprehensive questionnaires to assess the current utilization of ICT tools in A' Level Biology classrooms.
 - o Conducted in-depth interviews with students to gather insights on their experiences and perceptions regarding the integration of ICT in their biology education.
 - o Analyzed collected data using advanced statistical techniques, identifying key trends and patterns that informed recommendations for enhancing ICT implementation in biology teaching.
 - o Requested and obtained necessary permissions from the District Education Offices to conduct the research, demonstrating meticulous attention to compliance and ethical considerations.
- Achievements and Outcomes:
 - o Generated actionable recommendations for optimizing the use of ICT in A' Level Biology instruction, facilitating improved student engagement and learning outcomes.
 - o Presented research findings to academic faculty and stakeholders, garnering recognition for the relevance and impact of the study.

Dr Zephaniah Dlamini | *Microbiological Techniques* | Zimbabwe

January 2015 - December 2015

National University of Science & Technology

- METAGENOMIC CHARACTERISATION OF THE MICROBIOME OF THE RUMEN
 - o Demonstrated expertise in cell culture techniques, ensuring optimal growth and maintenance of cell lines for various experiments.
 - o Employed advanced DNA extraction techniques, yielding high-quality DNA samples suitable for downstream applications.
 - o Conducted precise agarose gel electrophoresis to analyze DNA fragments, facilitating the identification and characterization of genetic materials.
 - o Developed and implemented aseptic techniques, minimizing contamination risks and ensuring the integrity of experimental results.
 - o Implemented novel modifications to existing protocols, resulting in improved sensitivity, specificity, and reproducibility of molecular assays.
 - o Successfully prepared specialized solutions and media, contributing to the consistency and success of experimental procedures.
 - o Strictly adhered to biohazardous waste management protocols, ensuring safe disposal of biological materials in compliance with regulatory standards.
 - o Effectively operated centrifuge and autoclave, maintaining instrument functionality and enabling reliable sample processing.
 - o Developed customized primer sets, enabling successful amplification of target DNA regions and facilitating downstream analyses.
 - o Proficient in PCR setup, thermocycling, and result interpretation, contributing to the generation of reliable and reproducible PCR products.

- o Published research findings in a peer-reviewed scientific journal, contributing to the advancement of knowledge in the field of rumen microbiology and wildlife conservation.

Dr. Blessed Masunda | *Experimental Research* | Zimbabwe
University of Zimbabwe

January 2005 - December 2005

- INVESTIGATING THE EFFECT OF WOOD ASH TREATMENT METHOD ON REDUCING TANNIN ACTIVITY IN PIG FEEDS

- o Utilized innovative wood ash treatment method to mitigate tannin activity in pig feeds, resulting in improved growth performance and feed utilization efficiency.
- o Designed and executed controlled experiments to assess the impact of wood ash treatment on sorghum-based pig feeds, employing rigorous scientific methodologies and statistical analysis.
- o Formulated comprehensive feeding trials by grouping pig weaners and subjecting them to different dietary treatments, evaluating growth parameters and feed intake across experimental groups.
- o Demonstrated significant reduction in tannin activity in treated feeds through precise spectrophotometric analysis, validating the effectiveness of the wood ash treatment approach.
- o Generated reliable data on pig growth performance, including average daily gain, feed conversion ratio, and weight gain, contributing to evidence-based recommendations for optimized pig nutrition strategies.

Work Experience

High School Biology Teacher | *Delta Waters International School* | Maun,
Botswana

May 2021 - Present

- Teaching Experience:
 - o Implemented engaging and interactive teaching methods to deliver high school Biology lessons, ensuring alignment with the national curriculum standards.
 - o Developed comprehensive lesson plans that catered to diverse learning styles, resulting in increased student engagement and academic performance.
- A' Level Co-ordinator Experience:
 - o Successfully planned and executed the recruitment process for A-level learners, attracting a diverse and talented pool of students.
 - o Provided guidance and support to A-level learners in selecting subject combinations, ensuring alignment with

High School Biology Teacher | *Mpopoma High School* | Bulawayo, Zimbabwe

December 2009 - April 2021

- Employed dynamic teaching methods to engage and inspire high school students in Biology, fostering a love for the subject and facilitating their intellectual growth.
- Played a vital role in setting the examination timetable for both internal and external assessments, demonstrating meticulous attention to detail and adherence to strict deadlines.
- Successfully supervised and ensured the integrity of the examination process by effectively invigilating local and external examinations, and maintaining a secure and controlled testing environment.

Publications

Dube, Anita N., Freeman Moyo, and Zephaniah Dhlamini (2015). Metagenome sequencing of the greater kudu (Tragelaphus strepsiceros) rumen microbiome." Genome announcements 3.4

Short Courses And Certificates

National Social Security Authority, Zimbabwe
2021
Occupational Safety, Health & Environmental Management Course
Coursera - Google
2021
Crash Course on Python
Verify : coursera.org/verify/NWGSEER4BQYC
Coursera - The Linux Foundation
2022
Linux Tools for Developers
Verify : coursera.org/verify/4LDT8H6P2TN5

Honors And Awards

Zimbabwe Dairiboard Merit Scholarship
2007 - 2008
Merit scholarship for top performing students in the Department of Agriculture

References

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