

MUHUYI ERICK

Research & Data Analyst

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OBJECTIVE

A detail-oriented Statistician and Researcher with 2+ years of experience leveraging **Stata, R, SPSS, and Python** to derive actionable insights from complex datasets. Possess a B.Sc. in Statistics and expertise in Microsoft Office (Excel, Word, PowerPoint). Proven ability to manage the full data lifecycle—from collection, entering, and cleaning to advanced inferential analysis and visualisation—directly supporting evidence-based decision-making in public health and development research. Eager to apply and expand my skills in statistical modelling, artificial intelligence, and machine learning to solve complex problems, contributing to evidence-based decision-making with a data-driven team while progressing on my journey to become a proficient Data Scientist.

PROFESSIONAL EXPERIENCE

African Population and Health Research Centre (APHRC)

Research Analyst Officer III, November 2024 – March 2025

- Executed advanced statistical analysis (multivariate regression, logistic modelling) on complex datasets using Stata to evaluate program impact and identify public health trends.
- Authored a comprehensive research report from data interpretation to visualization, with the manuscript currently under review for academic publication.
- Conducted impact evaluations using difference-in-difference (DiD) and Propensity Score Matching (PSM) methodologies to assess the causal effects of development interventions for program scaling.
- Designed interactive maps in QGIS and infographics in Canva and Data Wrapper to communicate spatial patterns and findings to policymakers and stakeholders.
- Managed a field data collection team, implementing quality control protocols that reduced data errors by an estimated 15% and ensured research integrity.

African Population and Health Research Centre (APHRC)

Research Intern, May 2024 – November 2024

- Conducted systematic literature reviews and authored scientific abstracts to establish the foundation for new research initiatives.
- Managed and cleaned large-scale datasets using Stata and Excel, ensuring robust data for analysis by the research team.
- Analysed qualitative data in NVivo, coding transcripts to identify key themes integrated into mixed-methods findings.
- Documented and archived research data using Nesstar Publisher to enhance data accessibility and reusability.
- Contributed to project reports and presented critical appraisals of statistical methods in journal clubs and workshops.

National Crime Research Centre (NCRC)

Data Analyst Attache, May 2023 – July 2023

- Assisted in designing and developing research instruments and programming questionnaires for digital data collection.
- Executed the full data processing pipeline from collection and entry to cleaning and coding in SPSS for analysis.
- Performed preliminary data analysis, including descriptive statistics, and created visualizations for official reports.
- Applied missing data analysis and imputation techniques to preserve dataset validity and completeness.
- Managed the logistical preparation of data collection tools, including printing and serialization for field surveys.

EDUCATION

TAITA TAVETA UNIVERSITY (TTU), VOI - KENYA
Bachelor of Science in Statistics, September 2019 – March 2023
Second Class Honours (Upper Division)

CYBER SHUJAA, NAIROBI - KENYA
Professional Course in Data and Artificial Intelligence, September 2025 - Present

ACHIEVEMENTS

- **Data Documentation Training** – (June 2024) Skills in capturing, organizing, and managing research work using Nesstar Publisher. Facilitated by APHRC.
- **Impact Evaluation Training**–(June 2024) Methodologies for assessing program effectiveness. Facilitated by APHRC.
- **GIS Training**- (July 2024) Spatial Analysis and Mapping. Facilitated by APHRC.
- **Evidence Synthesis, Use of AI and Infographics in Research** - (July 2023) Techniques of Evidence Synthesis, Infographics, and Impact of AI in Research. Facilitated by APHRC.
- **Qualitative Data Analysis Training** - (August 2024) Thematic and Inductive Content Analysis using NVivo. Facilitated by Lumivero.
- **Grants Proposal Writing Training** – (April 2025). Facilitated by APHRC.
- **Data Governance Training** – (September – October 2025) Data Quality Assurance, Privacy and Protection, Anonymization, Documentation, DOI creation, and Linkage. Facilitated by APHRC.

Technical Skills Soft Skills

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| <ul style="list-style-type: none">• Statistical Software: R, SPSS, and Stata• Programming Software: Python (NumPy, Pandas, Scikit-learn) via Kaggle and Google Colab• Data Visualisation and GIS: Power BI, Tableau, QGIS, Data Wrapper, Canva• Data Management and Collection: Survey CTO, Kobo Collect, Microsoft Excel (Pivot Tables)• Research and Analytical Methods: Impact Evaluation, Regression Analysis, Hypothesis Testing, Qualitative Analysis (NVivo), Literature Review, Data Documentation (Nesstar) | <ul style="list-style-type: none">• Problem-Solving & Analytical Thinking• Attention to Detail and Accuracy• Team Collaboration and Communication• Self-Motivated and Fast Learner• Project Management and Meeting Deadlines• Critical Thinking and Curiosity• Data Privacy Awareness• Ethical Judgement• Integrity• Adaptability• Continuous Learning |
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REFEREE

1. Dr. Daniel Mtai Mwanga
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2. Dr. Chepngeno - Lang' at Gloria
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