Stellamarries Syombua

P.O. Box 30075-00100 • Nairobi, Kenya

stellamarriessyombua@gmail.com • +254 742 485 933

linkedin.com/in/stellamarries-syombua-59151a260/

Professional Summary

Biostatistician and Data Analyst who loves digging into complex datasets to uncover insights, especially in public health and clinical research. I enjoy cleaning data, ensuring quality, building solid statistical models, and turning results into real-world solutions. I'm excited to grow my skills in machine learning, AI, and time series analysis to tackle challenges with fresh, innovative ideas.

Experience

Yemaachi Biotech, Nairobi, Kenya   Jul 2024 – Present

Data Analyst

- Conducting data analysis for breast and esophageal cancer projects, focusing on patient demographics, risk factors, diagnostic stages, and treatment plans.
- Developing predictive models to identify trends and associations in cancer risk factors.
- Cleaning and managing large datasets for accuracy and reliability in research findings.
- Delivering comprehensive reports and visualizations to inform strategic decisions.
- Collaborating with multidisciplinary teams to enhance the quality of research and analysis.
- Conducting statistical analyses of electronic health records data.
- Utilizing R and Python for data manipulation, analysis and visualization.
- Statistical summaries of TACA study populations: analyzing demographic, lifestyle, and clinical data for Ghana and Meru cohorts using R and `gtsummary`, assessing p-values for group differences.
- Visualization of demographic, lifestyle, and clinical characteristics of liver cancer (HCC) and hepatitis cohorts to support patient stratification.

Adaptive Management and Research Consultants (AMREC), Nairobi, Kenya   May 2023 – Aug 2023

Research Intern

- Utilized tools such as Kobo Collect, CommCare, and NVivo for efficient data gathering and qualitative analysis.
- Developed skills in writing research proposals with clear objectives.
- Analyzed data using SPSS, R, and Stata, focusing on interpretation and visualization of results.
- Worked collaboratively with teams to address complex research questions.
- Prepared detailed reports and presented findings to stakeholders.

Personal Projects

1. Determining symptom interrelations and behavioral correlates of lung cancer risk: applied correlation analysis to identify predictors of lung cancer.

2. Spatial modelling and clustering of diabetes prevalence in Kenya: used spatial autocorrelation and clustering in R to map and analyze diabetes prevalence hotspots.

3. Coffee supply chain data analysis: optimized yield, enumerator performance, and farm practices by cleaning and analyzing farm-level data to inform agricultural supply chain strategies.

Education

Jomo Kenyatta University of Agriculture and Technology (JKUAT)   Jul 2019 – Jul 28, 2024

B.Sc. Biostatistics — Second Class Upper Division

Juja, Kenya

Relevant Coursework: Regression Analysis, Survival Analysis, Epidemiology, Machine Learning, Clinical Trials

Citadel Maiden High School   Jan 2016 – Nov 2019

Grade: B

Kilifi, Kenya

Certifications

- Power BI Workshop — Pragmatic Works (2024)
- Proposal Writing and Mobile Application Tools (CommCare and Kobo Collect) — AMREC
- Statistical Softwares (R, Stata, and SPSS) — AMREC (2023)

Skills

- **Programming & Analysis:** R (tidyverse, survival, gtsummary), Python (pandas, scikit-learn), SQL
- **Data Tools & Visualization:** Power BI, Excel, Stata, SPSS
- **Field & Research Tools:** Kobo Toolbox, CommCare, NVivo
- **Methods:** Regression, Survival Analysis, Epidemiology, Clinical Trials, Spatial Analysis
- **Languages:** English (fluent), Swahili (fluent)

Leadership & Activities

Candidate for Secretary General, JKUBSA – Jomo Kenyatta University of Agriculture and Technology (2023)

- Campaigned for the position of Secretary General, advocating for student welfare, policy reforms, and community engagement within the JKUBSA community.

Volunteer, ABE Club

- Actively participated in initiatives supporting children with cancer, particularly at Kenyatta National Hospital (KNH).

Referees

- Frank Onyambu
  Country Director, Yemaachi Kenya
  Email: frank@yemaachi.com — Phone: +254 722 585337
- Vincent Were
  Associate Research Scientist
  Email: vincentwere@gmail.com — Phone: 0721 876573
- Jillani Ngala
  Head of NCDs, Kenya Institute of Primate Research
  Email: jillani@primateresearch.org — Phone: +254 701 12382