



ERIC ODONGO SHIKUKU

+254 715 609 921 | ericodongo.35@gmail.com

GitHub: <https://github.com/rikoprogrammer>

PROFESSIONAL SUMMARY

A dedicated and detail-oriented Statistical Programmer with 6+ years of proven track record in designing, implementing, and validating statistical models to extract meaningful insights from complex data sets. Hands-on experience in conducting statistical programming for clinical trial research projects within Contract Research

Organizations (CROs). Adept at generating comprehensive summary tables, listings, and figures, with expertise in both simple and complex macro development. Skilled in data management, including the review and update of dataset specifications for efficacy and non-efficacy studies. Skilled at developing and implementing statistical models to enhance risk management and fraud detection strategies. **Therapeutic Area Experience:** Oncology, Pediatrics, Respiratory and Cardiovascular. A proven team player with excellent interpersonal and communication skills.

Areas of Expertise

Statistical Programming | TLF Generation | Macro Development | Data Management | CDISC Standards | Documentation | Quality Control | Code Review | Troubleshooting | Collaborative Teamwork | Statistical Modeling | Data Analysis & Interpretation | Data Management | PK/PD Programming | Tableau | SAS Programming | SQL | R | Python | Power BI | Reporting | Problem-solving

ACADEMIC QUALIFICATIONS

Master of Science in Statistical Science | Strathmore University | Expected 2026

Bachelor of Science in Mathematics – Statistics | Masinde Muliro University of Science & Technology | 2015

WORK EXPERIENCE

CO-OPERATIVE BANK | 05/2025 – PRESENT SENIOR DATA SCIENTIST

Key Responsibilities:

Credit Risk Modelling:

- Scorecards for various customer segments (SME, MSME, consumer)
- Developing credit limit management strategies for scored customers

Process Automation and Optimization:

- Automating salaried limits procedures using Apache Airflow
- Processes for model production deployment
- Implementing real-time limit alerts using Apache Kafka

Model Monitoring and Risk Management:

- Continuous model drift monitoring using PSI and CSI
- Developing a model risk management framework
- Developing Early Warning Systems with probabilistic approaches

Reporting and Dashboard Development:

- Automate reports and dashboards for branch use on MSME limits
- Develop automated reports for customer care teams to explain limit decisions
- Automate Portfolio at Risk (PAR) packages for credit management

Data Analysis and Business Intelligence:

- Conduct analysis to improve user experience in M-coop cash app design
- Perform credit limit management analysis for scored customers
- Expand consumer scorecard scope to include customers with undefined employers

Regulatory Compliance and Risk Analytics:

- Risk analytics to address modelling data issues, fraud, and regulatory concerns
- Implement procedures to track and recover defaulted e-credit loans.

Cross-functional Collaboration:

- Work with various teams including Business Intelligence, Customer Care, Credit Management, and Remedial teams to implement data-driven solutions.

ALSINOVA (Formerly Keyrus Life Science) | 04/2025 – 09/2025 **SENIOR STATISTICAL PROGRAMMER**

Overall purpose: Responsible for the conduct of high-quality contracted statistical programming services in clinical development projects. Ensured that deliverables complied with FDA submission requirements and ICH guidelines.

Key Responsibilities:

- Deliver technical support and programming expertise to both internal teams and external collaborators, ensuring deliverables meet GSK's quality standards and comply with relevant SOPs.
- Design, validate, and maintain SAS programs to produce CDISC-compliant SDTM and ADaM datasets, along with tables, figures, and listings (TFLs) for both safety and efficacy.
- Utilize R for exploratory data analysis, statistical modeling, and visualization, with a particular focus on biomarker data in cardiovascular and respiratory clinical studies. Well versed with validated R packages eg admiral, ggplot2, rshiny etc.
- Assist in preparing study-level submission documentation, such as define.xml files, annotated CRFs, and reviewer guides (cSDRGs and aSDRGs), ensuring compliance with GSK data standards.
- Contribute to the development of SDTM and ADaM mapping specifications, raw data transformation processes, and the creation of standardized analysis-ready datasets.
- Perform data cleaning, manipulation, and edit check programming in collaboration with Data Management teams/Resolving Pinnacle 21 issues.
- Develop reusable SAS macros and R scripts to streamline processes, enhance standardization, and improve programming efficiency across studies.
- Mentoring junior programmers on CDISC implementation guidelines and programming best practices.

MAINANALYTICS | 05/2024 – 03/2025
STATISTICAL PROGRAMMER

Overall purpose: Responsible for the conduct of high-quality contracted statistical programming services in clinical development projects. Ensured that deliverables complied with FDA submission requirements and ICH guidelines.

Key Responsibilities:

- Assist in creation and maintenance of dataset specifications including derivation and mapping instructions for single trial or integrated datasets as appropriate in the clinical development project.
- Programming and validation of datasets, tables, and graphs and listings for analysis and reporting of clinical trials from phase I to IV or integrated summaries in different indications in line with applicable regulatory guidelines, industry standards and standard operating procedures.
- Generation, validation, documentation and delivery of programmed files used for the reporting of clinical trials, preparation of submission dossiers, ad hoc request by health authorities, publications or summaries requested by clients.
- Assist in preparation of data submission packages according to regulatory requirements including SDTM annotated CRF, SDTM domains, Study Data Reviewer's Guide (SDRG), SDTM define.xml (define.pdf), ADAM datasets, Analysis Data Reviewer's Guide (ADRG), ADaM define.xml, analysis dataset creation programs and key analysis generation programs.
- Design, development, documentation, validation and maintenance of standard tools and macros to continuously improve quality and efficiency of processes.
- Cooperation and interaction with clients and members of the project team.

PHASTAR | 02/2021 – 3/2024
STATISTICAL PROGRAMMER

Overall purpose: Responsible for the generation of statistical outputs and datasets in support of clinical research studies.

Statistical Programming

- Programming SDTMs and ADAMs datasets based on provided specifications, integrating CDISC implementation guidelines for SDTM and ADaM.
- Programming PK/PD data both at SDTM and ADAM level and creation of PK outputs.

Output Generation

- Developing and executing programs to generate comprehensive summary tables, listings, and figures.

Macro Development

- Developing both simple and intricate macros, leveraging existing complex macros when necessary.

Specification Creation

- Reviewing and updating efficacy and non-efficacy dataset specifications for individual studies.
- Creating new specifications for both SDTM and ADAM data sets.

CDISC Standards

- Staying informed about CDISC SDTM and ADaM implementation guidelines to ensure compliance.

Documentation

- Generating Define XML/PDFs, annotated eCRFs, and Reviewers Guides to support SDTMs and ADaMs.

Quality Control

- Performing quality control checks on programmed output to promptly identify and resolve issues.
- Developing of QC programs both at SDTM, ADAM, and TFL level.

Checklist Adherence

- Ensuring rigorous adherence to the principles outlined in the internal SOPs as relates to all programming activities.

Code Review

- Conducting peer reviews of programming code to ensure accuracy, completeness, and adherence to programming standards.

Troubleshooting

- Collaborating with cross-functional teams to address data-related queries and ensure timely resolution.

Collaborative Teamwork

- Working closely with cross-functional teams to understand project requirements and deliver high-quality programming solutions.

SOP Adherence

- Executing all activities by SOPs, operating within the framework of the Quality Management System and adhering to Good Clinical Practice (GCP).

UWAZI CONSULTING | 06/2020 – 01/2021 GRADUATE SALESFORCE CONSULTANT

Overall Purpose: Responsible for designing, developing, and delivering comprehensive consultancy services to Salesforce users.

- Teaching businesses on Salesforce CRM core functionalities.
- Helping businesses transition from salesforce classic to the new lightning experience.
- Developing data driven solutions that help companies leverage analytics.
- Use machine learning to help companies better understand their customer data.
- Help businesses with customer support using Salesforce Service Cloud feature.
- Help businesses boost sales with the help of Salesforce Sales Cloud feature.

ABSA BANK KENYA PLC | 10/2019 – 04/2020 JUNIOR STATISTICAL ANALYST

Overall Purpose: Responsible for developing and implementing statistical programs and analyses to support the bank's decision-making processes.

- Wrote, tested, and maintained efficient and reliable statistical programs using languages such as R, Python, or SAS.
- Conducted statistical analyses on large datasets to extract meaningful patterns and trends.
- Built machine learning models to better understand customer data.
- Conducted customer segment analysis.
- Used machine learning concepts to build credit scoring models to aid in credit lending decisions.
- Collaborated with IT and software development teams to integrate statistical models into business systems.

Conducted customer segmentation to identify common patterns to aid in marketing.

- Documented all aspects of the statistical programming process, including code, methodologies, and results.
- Ensured data quality and integrity throughout the analysis process.
- Developed and implemented statistical models to support risk management, fraud detection, and other relevant areas.
- Stayed informed about industry best practices and incorporated new statistical methodologies into analyses.

Other Positions Held:

- Dealer | Resort Kenya Limited (Mayfair Games Inc) | 06/2018 – 10/2019
- Mathematics/Business Teacher | St.Elizabeth Bumia Girls | 05/2017 – 01/2018
- Mathematics/Business Teacher | Rehema Academy | 01/2016 – 02/2017

Notable Trainings

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- ✓ Good Clinical Practice (GCP).
 - ✓ General Data Protection Regulation (GDPR).
 - ✓ Hands On Clinical Reporting Using R.
 - ✓ Machine Learning – Hands-on Python & R for Data Science.
 - ✓ Core Spatial Data Analysis with R and QGIS.
 - ✓ International Computer Driving License
 - ✓ SQL Training for Data Science.
 - ✓ Tableau Training for Data Science.
 - ✓ Power BI Training for Data Science.
 - ✓ Getting started with SAS programming.
 - ✓ Advanced SAS programming techniques.
 - ✓ SAS Macro language.
 - ✓ R programming.
 - ✓ R programming Advanced Analytics.

REFERENCES

Available upon request.