Cornelius **Kiplimo Tanui**

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Statistician, Data Manager, Data Analyst, Data Scientist, Statistical Programmer, Data Configurations Engineer, Statistical Trainer.

Education_____

Bachelor of Science, Applied Statistics with Computing, 1st Class Honours	**Rongo University, Kenya,** 2014 - 2018
Medidata Rave EDC Certified Principal Investigator(link)	**Medidata**, 2023
Data Protection	**Strathmore University, CIPIT Law**, 2024

Professional Experience_____

Data Manager/Data Configurations Engineer **PHASTAR, Nairobi, Kenya**
Feb 2021 – Present

- Clinical Database configurations in elluminate for ETL/ELT, Qlik Visualizations (CDA and CTOA), Graphical Patient Profiles, Patient Workbooks.
- Clinical Database configurations in Veeva CDB for ETL/ELT.
- eCRF and edit check programming in Medidata Rave, and Medrio.
- Generating and reviewing Work Instructions, Standard Operating Procedures, and Templates.
- Data standardizations (CDASH/SDTM and internal standards) using SQL, SAS, and R.
- Dashboard programming in R/Shiny, Tableau, Qlik Sense, and JReview to support data reviews and risk-based quality monitoring (RBQM) of trial sites.
- Web application programming and CI/CD deployment using R/Shiny and Python/Dash.
- Training and onboarding junior staff, developing and reviewing training materials.

Statistician **EED Advisory, Nairobi, Kenya**
Jun 2020 – Jan 2021

- Writing and reviewing proposals to bid for projects in line with ToRs, computing sample sizes, and advising on statistical methodological aspects of surveys.
- Programming data collection tools in ODK, KoBoToolbox, ONA, Survey Solutions
- Training enumerators and supervising regional, national, and local surveys.
- Developing statistical analysis plans, writing data cleaning and analysis codes in Stata and R to generate tables and charts.
- Leading data analysis teams and writing and reviewing reports for client submissions.

Data Analyst **Digi-Plus, Thika, Kenya**
Jan 2020 – May 2020

- Data cleaning and analysis using R, Stata, and SPSS.
- Report writing.

Data Manager/Data Analyst **AMREC Consultants, Kisumu, Kenya**
Oct 2018 – Dec 2019

- Designing data collection tools in ODK, KoBoToolbox, ONA, SurveyCTO, and CommCare.
- Training enumerators and supervising data collection exercises.
- Data cleaning and analysis using R, Stata, and SPSS.
- As a training coordinator, I developed training curricula for R and Stata, and trained and mentored over 50 University students on data analysis and data management.

Personal Projects_____

1. [2019 KPHC Analytics](#)   An R Shiny web dashboard application to demonstrate various findings of the 2019 Kenya Population and Housing Census. The app is auto-deployed using GitHub workflows and Docker CI/CD.
2. [miscellaneousR](#)   This is an R package hosted on [GitHub](#). The package contains convenient functions for performing simple to complex tasks appertaining to data wrangling.
3. [Quick Stats Reporter](#)   This R Shiny web application is an extremely useful tool for quick data analysis and reporting. It determines on its own what kind of table and graph to generate depending on the type of variable(s) selected.

Memberships and Associations_____

1. **Member**   Kenya National Statistical Society (KNSS)
2. **Member**   International Biometrics Society – Kenya (IBS-Ke)
3. **Member**   Association for Clinical Data Management (ACDM)
4. **Part-time Statistical Trainer**   DTE Consultancy

Certificates_____

1. 2021 **SAS Programming 1: Essentials**, SAS
2. 2020 **Microsoft Excel - Advanced Excel Formulas & Functions**, Udemy
3. 2020 **Microsoft Power BI - A Complete Introduction [2020 EDITION],** Udemy
4. 2020 **Science and Machine Learning with R**, Udemy
5. 2020 **Power BI for Data Science**, Udemy
6. 2018 **Certificate of Good Clinical Practice**, NIDA

Selected Publications_____

1. Tanui, C. (2018, August 11). *Modelling consumer price index (CPI) in Kenya for the period 2000 to 2017 using autoregressive integrated moving averages—ARIMA(P, D, Q)*. Afribary. https://afribary.com/works/modelling-consumer-price-index-in-kenya

Skills_____

1. **Languages**   English, Swahili, Kalenjin.
2. **Programming**   R, Python, Julia, SAS, Stata, SQL, SPSS, Docker, HTML, CSS.
3. **GIS**   QGIS, Google Earth.
4. **Project Management**   Git/GitHub, Jira, Confluence.
5. **Fields**   Public Health, Clinical Trials, WASH, Climate Action, Renewable Energy.
6. **Statistical Knowledge**   Time series analysis (ARIMA, GAM), survival analysis, panel data, predictive modeling (random forests, decision trees, SVM), non-parametric analysis, Bayesian inference, dimensionality reduction (SEM, PCA, MCA), generalized linear models (OLS, Poisson), design and analysis of experiments.
7. **Soft skills**   Excellent communication skills, good time management skills.

Referees_____

Dr. Vincent Were	Ms. Pamela Adede	Mr. Edwin Nyagesoa
Designation: Statistician	**Designation:** Data Manager	**Designation:** Statistician
Company: AMREC Limited	**Company:** PHASTAR	**Institution:** KEMRI/CDC
Mobile: [To be provided upon request](#)	**Mobile:** [To be provided upon request](#)	**Mobile:** [To be provided upon request](#)
Email: [To be provided upon request](#)	**Email:** [To be provided upon request](#)	**Email:** [To be provided upon request](#)
Position to me: Professional mentor	**Position to me:** colleague	**Position to me:** Professional mentor