

Reinpeter Ondeyo Momanyi

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SUMMARY

- Interdisciplinary individual with strong analytical skills and deep understanding in data analysis, machine learning algorithms and visualization.
- Self-motivated, problem solving and individual with excellent communication skills.
- Ability to work effectively with people at all levels.
- Ability to learn, process and apply new skills and concepts quickly.
- Passionate about working with health research data and see it transform into generating insights that develop actionable solutions to improve our lives.

TECHNICAL SKILLS

- **Data Analysis:** Descriptive statistics, inferential statistics, linear mixed models.
- **Machine learning models:** Classification and regression algorithms.
- **Visualization:** Data Visualization and Dashboards using Rshiny, ggplot, plotly, and PowerBI.
- **Geospatial Data:** Analyzing spatial information using QGIS.
- **Programming Languages:** R (RStudio, markdown), SPSS, STATA, PostgreSQL.
- **Software:** Microsoft Office tools (Word, Excel, PowerPoint, Outlook), KoboCollect, OHDSI Suite of Tools (White Rabbit, Rabbit In a Hat, Usagi, Atlas).

WORK EXPERIENCE

African Population and Health Research Center

Nairobi, Kenya

Data Scientist

March 2023 - Present

- Data cleaning and consistency checks for project data.
- Extract data and prepare analytical files.
- Perform basic and advanced statistical analysis of data.
- Building Machine Learning and predictive models, ML algorithms i.e k-Nearest Neighbors, Bagging, Boosting, Decision trees, Random Forests to address data-driven research questions.
- Apply pre-processing steps including feature engineering, model selection, training and tuning for effective results.
- Support harmonization and standardization of data sets in databases including development of Extraction, Transformation and Loading (ETLs) using database query languages i.e SQL.
- Analyze data using R/STATA statistical programming language to identify trends and patterns, and generate insights.
- Create visualizations and dashboards from research generated data using R shiny, ggplot, plotly and PowerBI.
- Involved in training on data standardization of migrating EHR and population health data to OMOP CDM.

Africa Mental Health Research and Training Foundation

Nairobi, Kenya

Biostatistician

August 2021 - December 2022

- Conduct statistical analysis and interpretation of quantitative data for projects using SPSS, STATA and R.
- Visualize data for reports, presentations, and manuscripts with ggplot/plotly or relevant tools.
- Analyze clinical trials and longitudinal data, summarize and interpret results using advanced statistical models, such as generalized linear models and linear mixed models.
- Process data analysis outputs and perform interim and final analysis for publication in journals or reports or presentations in workshops or conferences.
- Contribute to report and manuscript writing.
- Calculation of sample size for proposed studies.
- Write detailed analysis plans and descriptions of analyses and for grant applications and research protocols.
- Conduct data quality checks and come up with ways of solving any issues as they arise.
- Assign work and provide guidance related to data entry.
- Participate in the designing of data collection tools, templates and questionnaires.

Ministry of Health - National Public Health Laboratory Services

Nairobi, Kenya

Data Analyst Consultant

July 2020 - July 2021

- Analyzing data for COVID-19 and HIV Viral Load.
- Filter and clean large data sets.
- Creating R shiny apps, data visualizations and spatial mapping.
- Analyze data, create reports and interpret results using statistical techniques i.e logistic regression, descriptive statistics.

Phillips Pharmaceuticals Limited

Nairobi, Kenya

Commercial Assistant

January 2019 - October 2020

- Manage and monitor bid preparation process to ensure compliance to mandatory documents and timely submissions.
- Provides support to contracts, ensuring compliance to contracting procedures.
- Review win/loss and manage feedback by compiling analysis reports on tender performance.
- Computing of competitive tender pricing structures based on proposed prices by manufacturer.
- Assist management to implement market pricing structure for company products as per internally agreed margins.
- Costing and Transfer Pricing responsibility for intercompany transfers.
- Perform SAP price maintenance entry, discounts and tender contract prices.
- Compiling monthly and yearly SAP product Batch expiry list reports to track short expiry products.
- Perform SAP product Master data maintenance entry and Batch & quantity adjustment.

Phillips Healthcare Technologies Limited

Nairobi, Kenya

Commercial Assistant

August 2012 - December 2018

- Manage and monitor bid preparation process to ensure compliance to mandatory documents and timely submissions.
- Provides support to contracts, ensuring compliance to contracting procedures.
- Prepare historical sales reports detailing past performance to support 18 months demand planning and forecasting.
- Advise senior management and sales teams on monthly sales reports to track sales targets acquired.
- Provide accurate sales analysis reports, tables and graphs for senior management of various principals.
- Assist customer care team to resolve price queries in SAP and ensure all orders are invoiced with correct prices.
- Assist in monthly supply planning by carrying out stock analysis and generating orders with suppliers in SAP.
- Preparing SAP quotations to customers.
- Raising LPO's in SAP for goods as requisitioned from demand planning and forecast process.

EDUCATION

University of Nairobi

Nairobi, Kenya

Master of Science in Statistics

September 2014 - December 2017

University of Nairobi

Nairobi, Kenya

Bachelor of Science in Mathematics

October 2008 - August 2012

Second Class Honours, Upper Division

Member of Mathematics Association of Nairobi University.

Kareng'ata Academy

Nairobi, Kenya

KCSE (Kenya Certificate of Secondary Education)

September 2003 - November 2006

Grade A- (minus)

Moi Educational Centre

Nairobi, Kenya

KCPE (Kenya Certificate of Primary Education)

January 1993 - November 2002

379/500; Grade A- (minus)

ADDITIONAL INFORMATION

Certifications: International Computer Driving License Certificate

Other Skills: Git (Version Control), Proficiency in SAP ERP (Materials Management, Sales & distribution and Supplier Relationship Management modules), Trained Internal Auditor Quality Management Systems ISO 9001:2015, Trained Fire Marshal and First aider.

Interests: I enjoy watching sports and learning new things.

Languages: Fluency in written and spoken English and Kiswahili.

REFEREES

1. Agnes Kiragga - African Population and Health Research Center; Head Data Science Program; akiragga@aphrc.org ; +256 772 512026
2. Miriam Mande - Africa Mental Health Research and Training Foundation; Senior Finance and Administration Officer; miriam.mande@amhf.or.ke ; +254 711 975187
3. Dr. Elvis Kirui - National Public Health Laboratory Services; Manager: National Laboratory Data Center; ekirui@nphl.go.ke ; +254 723 522413
4. Stephen Mburu - Phillips Therapeutics Limited; Chief Executive Officer: Medical Devices; steve.mburu@ptlkenya.com ; +254 722 203570

PUBLICATIONS

5. [Mugotitsa, B., Momanyi, R., Amadi, D., Andeso, P., Mailosi, D., Ochola, M., Cygu, S., Omondi, E., Wekesah, F., Tsofa, B., Bhattacharjee, T., Greenfield, J., Todd, J., Kiragga, A. & INSPIRE Network. \(2024\). Access to longitudinal mental health data in Africa: Lessons from a landscape analysis by the INSPIRE network datahub. Wellcome Open Research, 9, 579.](#)
4. [Mugotitsa, B., Bhattacharjee, T., Ochola, M., Mailosi, D., Amadi, D., Andeso, P., Kuria, J., Momanyi, R., Omondi, E., Kajungu, D., Todd, J., Kiragga, A. & Greenfield, J. \(2024\). Integrating longitudinal mental health data into a staging database: harnessing DDI-lifecycle and OMOP vocabularies within the INSPIRE Network Datahub. Frontiers in Big Data, 7, 1435510.](#)
3. [Ndetei, D. M., Mutiso, V., Musyimi, C., Momanyi, R., Nyamai, P., Tyrer, P., & Mamah, D. \(2023\). DSM-5 conduct disorder and symptoms in youths at high risk of psychosis in Kenya with DSM-5 mental disorders and substance use: towards integrated management. Scientific reports, 13\(1\), 22889.](#)
2. [Ndetei, D. M., Mutiso, V., Momanyi, R., Nyamai, P., Musyimi, C., & Mamah, D. \(2023\). The co-morbidity of DSM-V Gambling with DSM-V mental disorders and substance abuse in a Kenyan context of high risk schizophrenia. BMC psychiatry, 23\(1\), 239.](#)
1. [Momanyi, R. O., & Ottieno, J. A. M. \(2020\). Generating Distribution Functions Based on Burr Differential Equation. Journal of Advances in Mathematics and Computer Science, 35\(8\), 55-64.](#)