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## Career Objective

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I am a professional statistician passionate about studying, formulating, and implementing systems that encourage institutions to be data-driven. I have an interest in health and research, and I am well-trained in diverse fields of statistics, research, monitoring, and evaluation including; collection and analysis of quantitative and qualitative data, statistical modeling, sampling, and experimental design as well as generation of reports and interpretation of key indicators to inform policy. My effective communication skills do set me up to effectively relay information to clients, survey teams as well as respective management. I am looking for a collaborative environment where I can learn from my peers and pass on my knowledge.

## Core skills

- Ms. Excel
- Data Mining
- Relational Databases.  
(Ms. Access and SQL)
- Proficiency in statistical tools (R, SPSS, and STATA)
- Survey Design
- Data Visualization
- M&E
- Tableau
- Kobo Collect
- Report Writing

## Work Experience

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**Data Assistant – Monitoring and Evaluation Learning Assistant** **March 2023 to Present**

Center for International Health, Education and Biosecurity Kenya (CIHEB-K)

Technical Assistance to Ready and Accelerate Capacities of Health Programs Kenya (TRACK) Program

### Roles and Achievements

- Designed and developed data collection tools using **Kobo Collect**, streamlining data collection processes and improving data quality.
- Developed and implemented data quality assurance measures to ensure the accuracy and reliability of collected data.
- Worked closely with partners and donors to monitor indicators, ensuring effective tracking of program progress and impact.
- Collaborated with stakeholders in the Ministry of Health (national and county level) to identify key performance indicators (KPIs) and establish monitoring frameworks for project evaluation.
- Developed training materials and facilitated training sessions on data management, statistical analysis, and monitoring and evaluation methodologies for project staff. Through training of staff on effective data collection procedures, resulting in increased data accuracy and minimized time spent in data cleaning by up to 30%.

- Conducted comprehensive data analysis using **R** and **STATA** to derive meaningful insights and trends by applying various statistical techniques such as **inferential** and **descriptive statistics, survival analysis, and causal impact analysis.**
- Developed **automated reporting systems**, utilizing tools such as **Excel macros** and **power query**, to streamline report generation processes. Setting up schedule data refreshes, ensured timely and accurate reporting thus reducing monthly report turnaround time by 40%
- Conducted thorough literature reviews and gathered relevant data to support the development of evidence-based content.
- Authored and reviewed technical papers, articles, and reports to disseminate research findings, program outcomes, and evaluation results to a wider audience.

### **Health Records Information Officer - HRIO**

**February 2023**

Center for International Health, Education and Biosecurity Kenya (CIHEB-K)

Technical Assistance to Ready and Accelerate Capacities of Health Programs Kenya (TRACK) Program

#### Roles and Achievements

- 2022-10-17 Piloting the implementation of Covid-19 vaccination into routine immunization.
- Facilitated daily health education at the outpatient and waiting points to increase clients' vaccine confidence, and demand and identify patients eligible for vaccination.
- Generated, complied, and updated the facility's line list for defaulters of the routine immunization antigens.
- Developed automated pivot tables to aggregate monthly reports generated for the facility's data review.
- Updated clients' vaccination status on MOH ChanjoKe.
- Provided feedback and reports on the screening and vaccination data daily to the data team.

### **Research Assistant**

**November 2022 to January 2023**

Center for International Health, Education and Biosecurity Kenya (CIHEB-K)

#### Roles and Achievements

- Conducting data collection using guided Standard Operating procedures developed by the program; Technical Assistance to Ready and Accelerate Capacities of Health Programs Kenya (TRACK).
- Identifying participants for the study as prescribed by the study protocol.
- Conducted data collection for the Routine Catch up Immunization study through both qualitative and quantitative procedures on KOBO and audio recorders.
- Collaborated with colleague research assistants to conduct data collection among the study population in Siaya County, by; the facilitation of Focus Group Discussions (FDGs), Key Informative Interviews (KIIs), and fieldwork.
- Ensuring data quality assurance standards are upheld for the data collected from surveys as prescribed by study protocols.

- Managed training for colleagues in data analysis using Ms. Excel and Tableau over one month offering continuous guidance and mentorship while providing constructive feedback.
- Provided continuous feedback to facilitate key updates to the SOP as per the daily encounters on the field.
- Performed transcription of qualitative data from KIIs and FGDs in Verbatim.

## **Statistics Intern**

**July 2021 to September 2021**

National Public Health Laboratories, Kenyatta National Hospital Grounds Nairobi;

### Roles and Achievements

- Tasked with data entry and conversion of raw patients' data at the National TB and HIV Reference Labs, Covid-19 tests data. Here, I was able to work with data entry teams to reduce weeks of backlogs by developing and reviewing **sample templates** for new interns as well as for weekly reports.
- Analyzed turnaround times for samples, testing trends, and suppression rates.
- Analysis of weekly Covid-19 data, preparing daily and weekly reports of Covid-19 cases, producing quantitative summary statistics, and designing predictive models that were used to design interventions by the Ministry of Health Department of Public Health.
- Data mining from partners' dashboards such as NASCOP and KEMRI.
- Providing interpreting to results for test indicators and using inferential and hypothesis tests to backtest conclusions generated from the laboratories.

## Education Experience

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2017-2022- **Bachelor of Science in Applied Statistics with Computing**

Moi University

2013-2016- **Kenya Certificate of Secondary Education**

Emining Secondary School

## Professional Certifications

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**Good Clinical Practice (GCP)**

NIDA Clinical Trials Network

Valid till November 2025

**Planning for Monitoring and Evaluation (FHI360)**

Philanthropy University

**Gender and Sexual Diversity Training**

PEPFAR

**Designing and Implementing Monitoring and Evaluation Systems**

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## Awards

- 1<sup>st</sup> Runners Up in KEMRI's First Data Hackathon Challenge for the category of best insights and visualization.

## Referees

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Elvis Kirui

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