

# CHRISTOPHER MURAGE MWEMA

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## APPLICATIONS

- R, SAS, MySQL, STATA, PYTHON, WinBUGS, GeoDA, ODK,
- Statax Software
- Crimson Hexagon
- Microsoft Excel and PowerPoint

## EDUCATION

- 2016 - 2020

### B.Sc. in Biostatistics (First Class Honours)

Jomo Kenyatta University of Agriculture and Technology

- 2011 - 2015

### K.C.S.E

Laiser Hill Academy

## KEY SKILLS

- ✓ Demonstrated ability to analyze datasets, draw conclusions and converse with professionals.
- ✓ Diverse knowledge in subject areas like Exploratory data analysis, Categorical data analysis, Machine Learning, Statistical Genetics, Spatial analysis and Longitudinal data analysis
- ✓ Detail-oriented professional with outstanding analytical and problem-solving skills.
- ✓ Long run experience with data and model exploration tools like ggplot, designing of data products in Rshiny and Rmarkdown.
- ✓ Knowledgeable in designing of database and data collection tools like ODK and data analysis tools like R and Python
- ✓ Strong commitment to personal growth and career development including mobility and flexibility.
- ✓ System thinking skills to grasp and communicate complex technical information clearly in a simple and digestible format.
- ✓ Intercultural consciousness on cultural values, biases and a strong interest to build intercultural and interracial relationships.
- ✓ Strong desire to learn about the global business expectations of relevant global organizations, countries and global markets.
- ✓ Exceptional analytical, written and oral communication skills combined with the ability to think, plan and execute on multiple projects
- ✓ An open minded professional, with a structured mind-set and work habits and strong planning and coordination skills.

## SELECT ACHIEVEMENTS

- ✓ **Database System using MySQL** for a university indicating the number of students, lecturers and courses undertaken (Second Year Class Assignment)
- ✓ **An Ensemble Based Machine Learning Decision Framework for Classification:** Case Study on Heart Disease (Fourth Year Project): An ensemble of different algorithms that gives the likelihood of having a disease.
- ✓ **R Shiny Dashboard (Fourth Year Project):** A dynamic, interactive web portal using R, that obtains user inputs to give the likelihood of having a disease. Can be assessed through: <https://diagnostics.shinyapps.io/diagnostics1234/>

## PROFESSIONAL EXPERIENCE

### Statistician | Doctor Little Kenya | Feb 2021 to Present

#### Key Contributions & Results:

- ✓ Assisting in the collection, analyzing and the interpretation of data using software packages such as R and SAS.
- ✓ Determining the trends and relationships in the data
- ✓ Performing basic data analysis and generating summary statistics using tables and graphs using ggplot in R
- ✓ Actively searching for any data discrepancies, errors, and missing data, in order to verify the accuracy and validity of the data
- ✓ Discussing and interpreting results with team members in the study.
- ✓ Assisting in designing studies that will help determine prevalence of various diseases.

### Intern | IPSOS Synovate | May 2019 to Aug 2019

#### Key Contributions & Results:

- ✓ Ensuring that all the adverts on the television are entered correctly into the system.
- ✓ Using the Pivot Table on Microsoft Excel to analyze client data that will be used to create client reports.
- ✓ Conducting necessary research on clients and different products in order to find out how their services are being perceived on social media
- ✓ Electronic Media monitoring by ensuring that each client receives their weekly reports and the monthly reports.
- ✓ Performing any client queries that are brought up by the quality control concerning the client advertisement on TV.
- ✓ Helping in creating PowerPoints and presentations for the clients once their data is obtained.
- ✓ Working hand in hand with the supervisor to ensure all television stations are closed and ready for transfer and analysis.

#### Achievements:

- ✓ Analyzed and Visualized data from different companies and created client report
- ✓ Conducted media research on social media sites like Facebook, Twitter and YouTube for potential clients.

### Tutor - Mathematics | The Rising Sun Early Learning Centre, Kitengela | April 2015 to Oct 2015

#### Key Contributions & Results:

- ✓ Set and marked the tests and exams in time before the set deadlines.
- ✓ Created lesson plans that fit the needs of the students
- ✓ Evaluated students' academic progress using standardized tests, quizzes and examinations
- ✓ Patiently handled low achievers group with understanding and helped the school perform better in the national examinations.

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## EXTRA CURRICULAR ACTIVITIES

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- ✓ The Academic Secretary of Jomo Kenyatta University Biostatistics Association (JKUBSA)

- ✓ Swimming Team Member of the JKUAT Torpedoes School Team

- ✓ Member of the Data Science (DSC) JKUAT Club.

### ✓ KAPS Hackathon 2019

I participated in the KAPS Hackathon that was conducted in JKUAT. I was able to learn more about technology and even apply my innovation skills and come up with a project that we used for the hackathon.

I also had worked with new individuals and got the necessary advice from great minds working at the Kenya Airports Parking Service (KAPS) who were the main sponsors. The hackathon enabled me to have a creative and innovative mind and I was able to think on my feet.

### ✓ KUSA Swimming Competitions

I participated in the Kenya University Sports Association (KUSA) games which

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## REFEREES

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### 1. Dr. Anthony Kibira Wanjoya

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### 3. Sarah Kelum

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