

Kiprono Elijah Koech | Résumé

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• Website 🌐 : [link](#) (Early release) • LinkedIn **in** : [LinkedIn](#)

📄 Summary

- **Highly analytical and process-oriented statistician and a data scientist** with in-depth knowledge in statistical theories and formulations, and proficiency in statistical modeling process.
- **1 year experience in data-entry and data analysis environment** with profound exposure to IQ care database management system.
- Proficient in data preparation, including data collection, compiling, sampling, cleaning, visualization and reporting.
- **Proficient in statistical programming** with R, SPSS and SAS (In decreasing order of proficiency).
- Interest in **artificial intelligence and machine learning**.

🎓 Education

Stellenbosch University

Cape Town, South Africa

Certificate(Anticipated): **Master's Degree in Mathematics (Data Science Major)**

Feb 2020 – To Date

Research area: *Machine Learning and Image Recognition*

Stellenbosch University

Cape Town, South Africa

Certificate: **Master's Degree in Mathematical Sciences (Data Science), Cum laude**

Jan 2019 – Nov 2019

Research area: *Machine Learning and Image Recognition*

Jomo Kenyatta Univeristy of Agriculture and Technology

Nairobi, Kenya

Certificate: **Bachelor's Degree in Science (Statistics), First Class Honors**

Sep 2013 – Nov 2017

Chepkechei Secondary School

Kericho, Kenya

Certificate: **Kenya Certificate of Secondary Education (KCSE), A(minus)**

Feb 2009 – Nov 2012

📄 Key Skills

- **Data Science and Statistical Skills:** - including Machine learning, Exploratory data analysis, Data visualization, Web scrapping, Regression analysis, Time series analysis, Data wrangling among others.
- **Programming:** - Python, R (beginner), SAGEMath and SPSS
- **Tools and technologies:-** Git, \LaTeX , Microsoft Office suite, Tensorflow and keras, Matplotlib, Beautifulsoup, Opencv
- **Database Management System:** - MySQL and IQ care.

🏢 Employment History

Data Assistant, CDC-University of Maryland

Kisii and Migori, Kenya

Facilities:

Jan 2018 – Dec 2018

- Migori County Referral Hospital (MCRH) , Migori County.
- Raganga Level 3 Hospital, Kisii County.

Achievements and responsibilities

- Enter information into IQ Care database. This involved entering information on the paper files into the IQ care database. **Managed to enter all 357 files into the database in Kisii and over 5000 in Migori.**
- Database management-update of information, data backup and data restore.
- Locate, attach appropriate files to incoming correspondence requiring replies. Also locate appropriate files for entering the data into the IQ care database.
- Conduct data cleaning and quality check to ascertain that the data entered to the IQ care database is accurate and complete. **Done weekly.**
- Achievement: **Collectively managed 357 files in Kisii and over 5000 files in Migori.** Rectified an event that almost saw Raganga Level 4 hospital data being lost. This was made possible through collective effort with the

supervisor and colleague. **Recovered data for 286 files.**
Attachee, South Nyanza Sugar Company Ltd

Migori, Kenya
Aug 2017 – Oct 2017

Achievements and responsibilities

- Receiving, analysing and commenting on daily factory data.
- Receiving, analysing and commenting, printing and filing weekly data report.
- Receiving training on how to develop performance contract and how to do monitoring and evaluation
- Achievement: For the first time, we (with my colleagues) did a rigorous analysis on the downtime data and gave a comprehensive report on the source of major downtime. This will see the firm reduce downtime and increase productive time.

Poll Clerk, J.K.U.S.A - 2017 Elections

J.K.U.A.T, Kenya

****Jomo Kenyatta Students Association (JKUSA)**

Jan 2017 – Jun 2017

Work study,JKUAT

Juja, Kenya

****Jomo Kenyatta University of Agriculture and Technology(J.K.U.A.T)**

Sep 2015 – Apr 2016

Attachee, County Government of Kericho, Kericho

Kericho, Kenya

Jun 2016 – Sep 2016

Leadership

Organizing secretary, Jomo Kenyatta University Society of Statisticians (JKUSOS)

(2016–2018)

Chairperson, Mathematics club (referred as sigma club), Chepkechei Secondary School

(2011–2012)

Treasurer, Young Christians Society (YCS)

(2011 – 2012)

Laboratory Prefect, Chepkechei Secondary School

(2010 – 2011)

Award and Honors

Golden Key award, for being among the top 15% academic performers among the 2019 cohort.

(2020-2022)

African Institute for Mathematical Sciences(AIMS) Scholarship,for MSc Mathematics at S.U

(2019-2010)&(2020-2022)

Award for Excellence, African Institute for Mathematical Sciences(AIMS)

(Jan 2019- Nov 2019)

Vice Chancellor's Academic Award, Best student in Bachelor of Science (Statistics option)

(2015/2016 academic year)

Vice Chancellor's Academic Award, Best student in Bachelor of Science (Statistics option)

(2014/2015 academic year)

First place, Mathematics contest with 1954 contestants

(2012)

Hobbies and Interests

- Volunteering and Charity work.
- Playing puzzle games like Sudoku game,trivia and Word trip.
- Reading motivational books and articles related to technological advancement.

REFERENCES

Dr. Simukai Utete

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African Institute of Mathematical Sciences(AIMS),
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