

# Kiprono Elijah Koech | Resumé

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## 📄 Summary

- **Highly analytical and process-oriented statistician** 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 **data science and machine learning**.

## 🎓 Education

### Stellenbosch University (S.U)

Cape Town, South Africa

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

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

- **Statistical techniques:** -
  - Data management: querying, filtering, extraction, visualization, managing unstructured dataset and data with missing values.
  - Regression analysis: linear/non-linear regression, logistic and poisson regression, mixed-effect models.
  - Time Series Analysis: ARMA / ARIMA, GARCH and other state-space models.
- **Programming:** -
  - Statistical programming: Python, R, SAGEMath and SAS.
  - Database management system: IQ Care for HIV/AIDS management.
- **Proficiency in the use of Statistical tools:-** SPSS and Microsoft Office, including Excel, Access, Word and PowerPoint.
- **Interpersonal skills:** -
  - A good communicator (both in speech and in writing for English and Swahili languages), listener and a team player.
  - Ethical stance: Strong ethical stance
- **Performance:** - Attention to detail, eager to learn and excellent time keeper.
- $\LaTeX$  typesetting.
- Data Science and Machine Learning.

## 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

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**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

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

(Jan 2019- Nov 2019)

**African Institute for Mathematical Sciences(AIMS) Scholarship**, To pursue MSc program at S.U

(2019-2020)

**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

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

## REFERENCES

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### **Dr. Simukai Utete**

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African Institute of Mathematical Sciences(AIMS),  
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