

# Kiprono Elijah Koech | Resumé

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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**

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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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#### **Miss Bernice Jemutai**

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