

# ODERO AKOTH EVERLYNE

## *Curriculum Vitae*

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### PERSONAL INFORMATION

PERMANENT ADDRESS: Masinde Muliro University of Science & Technology  
Department of Mathematics  
P.O Box 190-005600, Kakamega, Kenya  
Tel: 254-56- 4490

EMAIL ADDRESS: [everodero@gmail.com](mailto:everodero@gmail.com) or [eodero@mmust.ac.ke](mailto:eodero@mmust.ac.ke)

MOBILE: +254713145505

SEX: Female

MARITAL STATUS: Married

PLACE OF BIRTH: Homabay County, Kenya

NATIONALITY: Kenyan.

RELIGION: Christian.

LANGUAGES: Kiswahili & English (written and spoken).

DATE OF BIRTH: 2<sup>nd</sup> May, 1978

### CAREER ASPIRATION

To be a highly knowledgeable Applied Statistician, able to model problems by applying statistics in real life through extensive research and teaching.  
My area of research interest is Modelling Demographic processes and Social statistics.

### ACADEMIC QUALIFICATIONS:

**2016** - PhD in Applied Statistics, Maseno University.  
**2011 -2013-** Master of Science in Social(Aplied) Statistics; Kenyatta University  
**2000-2004** - Bachelor of Education Science (Hon.) (Mathematics and Chemistry):  
Moi University  
**2009** -Certificate in Computer Proficiency; Tsavo computers school.  
**1994-1997** - K.C.S.E Mean Grade: B+ (Plus); Asumbi Girls High School  
**1986-1993** - K.C.P.E Mean Grade: B (Plain); Gangre Primary School.

### OTHER COURSES ATTENDED

2021 – Master of Theology; Shalom Bible College

### RESEARCH PUBLICATIONS

#### Paper(s) in refereed journals & Book(s) published

1. **Akoth, O. (2022)** Modeling the Impact of Girl Child Empowerment amid Boy Child Neglect on Singlehood in Kakamega County. *Open Journal of Statistics*, **12**, 109-117. doi: [10.4236/ojs.2022.121008](https://doi.org/10.4236/ojs.2022.121008).

2. **Kisabuli, J., Ong'ala, J. and Odero, E. (2020).** Intervention Time Series Modeling of Infant Mortality. *Asian Journal of Probability and Statistics*. 8940;38-47.
3. **Murage, P., Mung'atu, J. and Odero, E. (2019).** Optimal Threshold determination for Securities Exchange volumes using Improved maximum product of spacing methodology. *Open Journal of Statistics*. 2019,9,327-346.
4. **Murage, P., Mung'atu, J. and Odero, E. (2019).** Optimal Threshold determination for the maximum product spacing methodology with ties for extreme Events. *Open Journal of Modelling and simulation*. 2019,7,149-168.
5. **Odero, E. A., (2017).** *Modeling the effects of Interference in Fertility Rate: A case study of Rwanda, Indonesia and Kenya.* Lambert Academic Publishing, Omniscryptum GmbH & Co. KG, Deutschland/Germany, ISBN: 978-620-2-05363-1.
6. **Odero, E. A. , (2017).** Modeling the effects of interference in Fertility rate of Kenya. *Journal of Mathematics and Statistical Sciences*, **2017 (11) : 1-14.**
7. **Odero, E. A. , Onyango, F.O. and Otumba, E.O., (2016).** Modeling of Fertility rate of Indonesia in the Presence of Interference: The 2004 Tsunami. *Journal of Mathematics*, **2 (3) : 16- 27.**
8. **Odero, E. A. , Onyango, F.O. and Otumba, E.O., (2016).** Modeling of Fertility rate of Rwanda in the Presence of Interference: The 1994 Genocide. *International Journal of Academic Studies* **2(2) : 103-114.**
9. **Odero, E.A. , Odongo, L. and Onsongo, F., (2013).** Investigation of the effect of education on fertility among women in Kakamega North District, Kakamega County, Kenya. *Physical and Social Sciences*, **3 (10):399-412.**
10. **Odero, E.A. , Odongo, L. and Onsongo, F., (2013).** The relationship between level of Sexuality of women of different levels of education and fertility in Kakamega North District, Kenya. *Physical and Social Sciences*, **3 (10):413-434.**
11. **Odero, E.A. , Odongo, L. and Onsongo, F., (2013).** Contraceptive use by women of different levels of education and fertility in Kakamega North District, Kenya. *Physical and Social Sciences*, **3 (10):435-456.**

## **PAPER UNDER REVIEW**

Odero E. A., (2022). Modeling the effects of beyond zero campaign on infant mortality rate in Kenya.

**WORKSHOPS AND CONFERENCES ATTENDED**

1. 19<sup>th</sup> to- 22<sup>nd</sup> August, 2019 . Training of Trainers in competency based Assessment, held at Masind Muliro University of Science and Technology.
2. 12<sup>th</sup> to 16<sup>th</sup> August, 2019. Fifth Strathmore University International conference, 2019, Statistical Modeling , held at Strathmore University , Nairobi-Kenya.
3. 6<sup>th</sup> to 10<sup>th</sup> January, 2018. Workshop on Biostatistical models for Join longitudinal and Survival data in Medical research: Theory and application in R software, held at the University of Nairobi (Chiromo Campus), Nairobi- Kenya
4. 15<sup>th</sup> to 19<sup>th</sup> January, 2018. Workshop on survival analysis, held at the University of Nairobi, Nairobi- Kenya
5. 12<sup>th</sup> to 16<sup>th</sup> June, 2017. Second Kenyatta University Workshop on Mathematical modeling. Held at Kenyatta University, Nairobi- Kenya
6. 27<sup>th</sup> April, 2017. Launch Meeting. Kenya Women in Science and Engineering: Western region.
7. 1<sup>st</sup> October, 2016. Kenya Women in Mathematical Sciences meeting held in MMUST
8. 16<sup>th</sup> – 20<sup>th</sup> November, 2015: Grant Proposal Writing and graduate Students Supervision training workshop organized by Masinde Muliro University – University of Venda (MMUST-UNIVEN), at Bishop Nicholas Stam Pastoral Centre, Kakamega -kenya.
9. 3<sup>rd</sup> – 7<sup>th</sup> August, 2015: Third Strathmore University International conference, 2015, Statistical Modeling , held at Strathmore University , Nairobi-Kenya.

**PROFESSIONAL EXPERIENCE / ATTACHMENT**

**June,2017- Date: Lecturer** in the Department of Mathematics of Masinde Muliro University of Science and Technology.

**Roles and Responsibilities:**

- Teaching postgraduate courses in statistics.
- Teaching undergraduate courses in statistics.
- Participate in setting, moderating, marking and analyzing examinations for Statistics courses.
- Supervision of undergraduate students in statistics projects
- Supervision of postgraduate students in statistics thesis
- Conducting research work in statistics.

**April 2015 –May 2017: Tutorial Fellow** in the Department of Mathematics of Masinde Muliro University of Science and Technology.

**Roles and Responsibilities:**

- Teaching undergraduate courses in Statistics.
- Participating in setting, moderating, marking and analyzing examinations for undergraduate courses.
- Supervision of undergraduate students in statistics projects
- Conducting research work in statistics.

**31<sup>st</sup> July – 22<sup>nd</sup> September , 2017: Acting Chairperson Mathematics Department of Mathematics of Masinde Muliro University of Science and Technology.**

**Roles and Responsibilities: were administrative responsibilities**

- Implementing university policy within the department
- Establishing teaching schedules in consultation with the school of natural sciences dean and assigning the department to meet the needs of the curriculum.

**May 2015 -to date, Departmental examination coordinator**

**Roles and Responsibilities**

- Coordinating the processing of departmental examinations
- Coordinating the timetabling of the courses of Mathematics department

**October,2008-March,2015; Graduate Teacher 1 (T.S.C) Malava Girls High School**

**Roles and Responsibilities:** My responsibilities as a graduate teacher were:

**1. Teaching:**

- Teaching Mathematics and Chemistry from form 1 - 4.
- Setting, moderating, marking and analyzing examinations.
- Organizing and supervising Laboratory practical lessons.
- Offering guidance and counseling to student
- In charge of a particular week (s) within the term.

**2. Head of Department (Boarding).**

- Making termly and yearly boarding calendars (guidance and counseling).
- Supervising effective running of boarding programs (meals & wellbeing of students).
- Safe custody of the dorm registers and records of dorm patrons.
- Organizing inter-dorm cleaning competitions.
- Organizing guidance and counselling meetings
- Conducting boarding meetings with dorm patrons
- A member of Senior Management team.

**2. Head of Subject (Chemistry).**

- Making termly and yearly academic calendars.
- Supervising / monitoring the effective curriculum delivery.
- Safe custody of the records of work covered books.
- Organizing inter-stream and inter-class competitions in chemistry.
- A member of Senior Management team.

**January ,2005-september,2008; Assistant Teacher (B.O.M), Chepngoror secondary School –Uasin Gishu county**

**1. Teaching:**

- Teaching Mathematics and Chemistry from form 1 - 4.
- Setting, moderating, marking and analyzing examinations.
- Organizing and supervising Laboratory practical lessons.

**2. Head of Department (Science).**

- Making termly and yearly academic calendars.
- Supervising / monitoring the effective curriculum delivery.
- Procurement of science materials and laboratory equipment
- Safe custody of the records of work covered books.
- Organizing inter-stream and inter-class competitions.
- Organizing motivational talks.
- A member of Senior Management team.

**3. Science club Patron.**

- Training and preparing students to participate and compete in Students Science Congress up to National Level.
- Planning and organizing Science club internal and external contests and other related activities.

**4. Class Teacher**

**May-August 2004 Student Teacher** at Kegati Mixed secondary school.

**Roles and Responsibilities:** As a student teacher, my direct roles and responsibilities were.

- Teaching Mathematics and chemistry to form 1 and 2 students.
- Conducting tutorial lessons.
- Organizing and supervising laboratory practical sessions.
- Setting, moderating, marking and analyzing examinations.

**May-August 2002 Student Teacher** at Ringa boys secondary school.

**Roles and Responsibilities:** As a student teacher, my direct roles and responsibilities were.

- Teaching Mathematics and chemistry to form 1 and 2 students.
- Conducting tutorial lessons.
- Organizing and supervising laboratory practical sessions.
- Setting, moderating, marking and analyzing examinations.

**MEMEBRSHIP OF PROFESSIONAL BODY**

- Member of International Biometric Society  
Membership number is 1293204 TIBS
- Member of Kenya institute of management  
Membership number is 46091

**RESEARCH FUNDS ATTRACTED**

- March 2016:** NACOSTI PHD research grant (NACOSTI/RCD/ST\$I 7<sup>TH</sup> CALL - PHD).

**SUPERVISION COMPLETED:**

1. Peter Githinji Murage, Ph.D., MMUST:  
OPTIMAL THRESHOLD DETERMINATION FOR THE MAXIMUM PRODUCT OF SPACING METHODOLOGY WITH TIES FOR EXTREME EVENTS.
  
2. Jacinta N. Kisabuli, Masters, MMUST:  
INTERVENTION TIME SERIES MODELING OF INFANT MORTALITY : IMPACT OF FREE MATERNAL HEALTH CARE.

**SUPERVISION UNDERWAY:**

1. Ruth Wanga, Masters, MMUST:  
MODELLING OF HIV PREVALENCE IN KENYA IN THE PRESENCE OF MEDIATION USING A SPATIALLY VARYING BAYESIAN MODEL
  
2. Zipora Chepkemoi. Masters, MMUST:  
SPATIAL ANALYSIS OF UNDER-FIVE MORTALITY WITH REFERENCE TO SMALL AREA PROBLEM

**OTHER COMPETENCIES**

1. Data Analysis skills.
2. Conversant; SPSS and R-Program softwares.

# ODERO AKOTH EVERLYNE

## *Curriculum Vitae*

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### **PERSONAL ASSESSMENT:**

- I am a team player with strong interpersonal and analytical skills.
- I have the ability to work in a highly competitive environment.
- I am multi-tasking and able to work in unfamiliar environment.
- I am a fast learner and always open to criticisms and new ideas.

### **REFEREES**

1. Prof. Fredrick O. Onyango,

Department of Statistics and Actuarial Science, Maseno University,

Private Bag ,Maseno- Kenya.

Mobile No. 0710691786 , Email.: [fonyango@maseno.ac.ke](mailto:fonyango@maseno.ac.ke)

2. Dr. Edgar Otumba,

Department of Statistics and Actuarial Science, Maseno University,

Private Bag ,Maseno - Kenya.

Mobile No. 0723130404 , Email.: [eotumba@maseno.ac.ke](mailto:eotumba@maseno.ac.ke)

3. Dr. Achilles Simiyu,

Department of Mathematics, Masinde Muliro University,

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