

CURRICULUM VITAE

PERSONAL DETAILS

NAME : MBETE ALUDA DRINOLD
DATE OF BIRTH : 2ND OCTOBER 1984
NATIONALITY : KENYAN
MARITAL STATUS : MARRIED
GENDER : MALE
POSTAL ADDRESS : P.O. BOX 190, KAKAMEGA (50100)
E-MAIL ADDRESS : drinoldmbete123@gmail.com, dmbete@mmust.ac.ke
LANGUAGES : SWAHILI, LUHYA AND ENGLISH
RELIGION : CHRISTIAN
SPECIALITY : STATISTICS
CURRENT POSITION: LECTURER

CAREER OBJECTIVES

PROFESSIONAL STATISTIAN WITH 5 YEARS EXPERIENCE IN RESEARCH AND TEACHING UNIVERSITY. HIGHLY ENERGETIC, FLEXIBLE AND PASSIONATE, SEEKING TO PROVE EFFICIENCY AND PERSONAL SKILLS IN ORDER TO EXCEL IN COMPETITIVE WORLD THROUGH HARD WORK, SACRIFICE AND DETERMINATION.

PERSONAL PROFILE

- ✓ Respect for diversity
- ✓ Excellent interpersonal and communication skills
- ✓ Data analyst
- ✓ Researcher
- ✓ Adaptable and flexible

EDUCATION BACKGROUND

2015- 2021 DOCTOR OF PHILOSOPHY IN STATISTICS
MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY

RESEARCH AREA: “**BAYESIAN MODELING OF MALARIA SYMPTOMS IN A STUDENTS POPULATION WITH APPLICATION**”

MAJOR AREA OF RESEARCH

- Bayesian Modelling and Data analysis using Bayesian methods
- Hidden Markov Models and Hidden Semi-Markov Models

➤ Disease Modelling

2010- 2014: MASTER OF SCIENCE IN STATISTICS
MASINDE MULIRO UNIVERSITY OF SCIENCE AND
TECHNOLOGY
THESIS TITLE: “ESTIMATION OF BASIC REPRODUCTION
NUMBER IN A DETERMINISTIC MODEL: A CASE OF
MALARIA AND ROTAVIRUS CO-INFECTION”

MAJOR AREA OF STUDY

- ✓ Design and Analysis of Experiment I and II
- ✓ Theory of Probability I and II
- ✓ Statistical Inferences
- ✓ Time series I and II
- ✓ Biostatistics and Epidemiology
- ✓ Multivariate Analysis
- ✓ Large sample Theory of statistical inferences
- ✓ Stochastic Processes I and II
- ✓ Survival Analysis Theory and Methods
- ✓ Statistical Computing
- ✓ Test of Hypothesis I and II
- ✓ Estimation Theory
- ✓ Probability and Statistics I and II

2004-2008: BACHELOR OF EDUCATION (SCIENCE) MATHEMATICS AND
CHEMISTRY

1999-2002: MUSINGU BOYS HIGH SCHOOL

1991-1998: KAKAMEGA PRIMARY SCHOOL

1989-1990: AMALEMBA NURSERY AND PRE-PRIMARY SCHOOL

PEER REVIEWER

1. Asian Journal of Probability and Statistics

PUBLICATION

1. Austine A. Mulama, Julius M. Mwabora, Andrew O. Oduor, Cosmas M. Muiva, Boniface Muthoka, Betty N. Amukayia, **Drinold A. Mbete**, (2015). Stability investigation in the optimal properties of thermally evaporated $\text{Ge}_{55}\text{Se}_{95-x}\text{Zn}_x$ thin films. Journal: *Journal of advances in physics* Vol.7, No.3, pp. 1923-1930.

2. Mulama, A.A., Mwabora, J.M., Oduor, A.O., Muiva, C.M., Muthoka, B., Amukayia, B.N. and **Mbete, D.A.** (2015) Role of Bismuth and Substrate Temperature on the Optical Properties of Some Flash Evaporated Se100–xBix Glassy System. *New Journal of Glass and Ceramics*, **5**, 16-24. <http://dx.doi.org/10.4236/njgc.2015.52003>.
3. Tireito F.K, **Mbete A.D.**, Chinyingi W.P. (2015). A Delay Model for the Spread of HIV/Aids in a Heterosexual Population *IOSR Journal of Mathematics (IOSR-JM) e-ISSN: 2278-5728, p-ISSN: 2319-765X*. Volume 11, Issue 4 Ver. II, PP 66-71.
4. Barasa Mustafa, Ndeti Muia Cosmas, Wanjala Christine Ludwin, Ingonga Mwihwa Johnstone, Osero Bernard, Sarah Shinoko Muyonga, Wanyonyi Khakasa Mable, Frankline Tireito, **Drinold Mbete**, Kokonya Apollo Donald, Ozwara Suba Hastings, Zipporah Waithera Ng'ang'a, and Anjili Omukhango Christopher, (2015). Cytokine-CpG Motif Oligodeoxynucleotide Co-Inoculation in BALB/c Mice Infected with *Plasmodium berghei* ANKA Strain. *Journal of Medical and Biological Science Research* Vol. 1 (10), pp. 145-161.
5. **Drinold Mbete**, George Lawi, Kennedy Nyongesa, Frankline Tireito and Austine Mulama, (2016) Estimation of Basic Reproduction Number in a Deterministic Model: A Case of Malaria and Rotavirus Co-Infection. *International Journal of Engineering and Mathematical Sciences*, January – June 2016, Volume 9, Issue – 1, pp.24 – 35.
6. Samson W. Wanyonyi, **Drinold A. Mbete** and Emile R. Chimusa (2018): Computational Generalization of Mixed Models on Large-scale Data with Application to Genetic studies, *Asian Journal of Probability and Statistics* 1(4): 1-31, September, 2018, Article no. AJPAS.44107.
7. Joseph Lutera, **Drinold A. Mbete** (2018): Co-infection Model of HIV/AIDS-Pneumonia on the effect of treatment of initial and final stages. *IOSR Journal of Mathematics (IOSR-JM) e-ISSN: 2278-5728, p-ISSN: 2319-765X*. Volume 14, Issue 5 Ver. I, PP (Sep-Oct 2018) 56-81.
8. Emmanuel Iyamuremye, Samson W. Wanyonyi and **Drinold A. Mbete** (2019): Analysis and Modeling of Extreme Rainfall: A case study for Dodoma, Tanzania, *Asian Journal of Probability and Statistics* 3(2): 1-29, March, 2019, Article no. AJPAS.46944.
9. **Drinold A. Mbete**, Kennedy Nyongesa and Joseph Rotich (2019): Fitting Probability Distribution Function to Malaria Incidence Data, *Asian Journal of Probability and Statistics* 3(2): 1-12, March, 2019, Article no. AJPAS.45581.
10. **Drinold A. Mbete**, Kennedy Nyongesa and Joseph Rotich (2019): Estimation of Malaria Symptom Data Set using Hidden Markov model, *Asian Journal of Probability and Statistics* 3(2): 1-12, July, 2019, Article no. AJPAS.49517.
11. **Drinold A. Mbete**, Kennedy Nyongesa and Joseph Rotich (2019): Fitting Probit Model to Malaria Symptom Dataset, *IOSR Journal of Mathematics (IOSR-JM) e-ISSN: 2278-5728, p-ISSN: 2319-765X*. Volume 15, Issue 3 Ser. III, PP (May-June 2019) 64-70.
12. **Drinold A. Mbete** (2020) Parameter Estimation of Bayesian Multiple Regression Model with Informative Inverse Gamma Prior Distribution: Application to Malaria Symptom Dataset. *Asian Journal of Probability and Statistics* 7(1): 71-86, April, 2020, Article no. AJPAS.55623.

13. **Drinold A. Mbete and Kennedy Nyongesa (2021):** State-Transition Model for Malaria Symptoms, *Asian Journal of Probability and Statistics*, **10(4): 22-46, 2020;** Article no.AJPAS.64479, *Published: 02 February 2021*

WORKSHOP AND CONFERENCES

1. Mathematical modeling analysis of Complex Systems- Cimpa School Kenya-2015
2. Second academic staff Seminar on Management of University Teaching Learning Processes- Kaimosi Friends University College-2016
3. Award Leaders Training (Award Management And Administration)- President's Award-Kenya-2017
4. First Academic Staff Seminar on Management of University Teaching Learning Processes- Kaimosi Friends University College.-2017
5. **Modeling Infectious Disease: Theory And Practice-** Jomo Kenyatta University of Agriculture And Technology-**December, 2017**
6. **Biostatistical Models for Joint Longitudinal and Survival Data in Medical Research: Theory and Applications in R Software-** University of Nairobi, **6th - 10th August, 2018**
7. 1st Science for Development Conference, University of Nairobi, **24th – 25th October 2018.**
8. **Bayesian Data Analysis: Theory and Practice, 19th-23rd November, 2018** at African Institute for capacity Development (AICAD)- Jomo Kenyatta University of Agriculture And Technology.
9. **Biostatistical Models for Joint Longitudinal and Survival data in Medical Research: Theory and Applications in R software. 6th-10th August, 2018** at School of Mathematics, University of Nairobi.
10. **Spatial Data Modelling: Theory and Practice. 16th-20th September, 2019** at Karatina University, School of Pure and Applied Sciences.
11. **Application of Big Data for Covid-19 Response in Kenya CME, 4th July, 2020,** organized by KEMRI in Partnership with Medical Learning Hub-MLH

COMPUTER SKILLS

STATISTICAL COMPUTING USING

- ✓ WORD, EXCELL
- ✓ POWERPOINT
- ✓ SPSS and MYSTAT
- ✓ R SOFTWARE
- ✓ MATLAB, MATHEMATICA and MAPLE
- ✓ LATEX

- ✓ WINBUGS
- ✓ GENSTAT, STATA AND MATHEMATICA.
- ✓ PHYTHON

WORK EXPERIENCE

2017- Date	Tutorial Fellow at MMUST
2016- 2018	Part-Time Lecturer at KAFUCO
2015- 2018	Part-Time Lecturer at Kenya Institute of Management
2014- 2018	Part-Time lecturer at MMUST
2014- 2017	Part-Time lecturer at KIBABII UNIVERSITY
2013- 2015	Instructor – Computer Science Department (MMUST)
2010- 2012:	Part-time lecturer at Bukura Agricultural College
2008- 2017	High School teacher

RESPONSIBILITIES

2021- Date:	Lecturer at MMUST
	<ul style="list-style-type: none"> ✓ Teaching undergraduate and postgraduate students ✓ Supervision of students projects and thesis ✓ Setting and Marking examination ✓ Assessing students on attachment ✓ Develop and review curriculum ✓ Develop learning materials ✓ Participate in community outreach activities ✓ Attending and participating in research conferences and seminars
2017- 2021:	Tutorial Fellow at MMUST
	<ul style="list-style-type: none"> ✓ Teaching undergraduate and Diploma students ✓ Supervision of students projects ✓ Setting and Marking examination ✓ Assessing students on attachment ✓ Developing curriculum
2013- 2018	Part-time lecturer
	<ul style="list-style-type: none"> ✓ Teaching undergraduate and Diploma students ✓ Setting and Marking Examination
2013-2017	TSC teacher at Lukume Secondary School
	<ul style="list-style-type: none"> ✓ Teaching ✓ Director of studies ✓ Head of Mathematics department
2015- 2017:	Board Member Lukume Secondary School
	<ul style="list-style-type: none"> ✓ Representing teachers on Board ✓ Managing the school finances
2010-2012:	Assistant coach Badminton – Musingu School

- ✓ Training students
- ✓ Managing the school team

2010 -2012 class teacher – Musingu School

- ✓ In charge of class academics

2010 -2012 House Master – Musingu School

- ✓ In charge of Dormitory activities

15th July -28th Aug 2008: Coordinator- Vestergaard International organization

- ✓ Data entry
- ✓ Analysis of Infectious disease data
- ✓ Monitoring the program

2003-2004: Sales Executive – Blue-shield Insurance Company – Kakamega

MEMBERSHIP TO PROFESSIONAL BODY

1. THE KENYA INSTITUTE OF MANAGEMENT (KIM)
MEMBERSHIP NUMBER: 45809
2. KENYA NATIONAL STATISTICAL SOCIETY (KNSS)
MEMBERSHIP NUMBER: KNSS-00182
3. INTERNATIONAL STATISTICAL INSTITUTE
MEMBERSHIP NUMBER: 19004
4. ROYAL STATISTICAL SOCIETY
MEMBERSHIP NUMBER: 137494

COMMUNITY PARTICIPATION

2018 – Date Chairman couples meeting- home church “Blessed Restoration Center”

2015 – 2017 Member of Board of management Lukume secondary school

2016 – 2017 Member of planning committee for Education Day Kabras south zone

CONSULTANCIES

- ✓ Data entry
- ✓ Data analysis
- ✓ Research Methods

PERSONAL INTERESTS

- ✓ Travelling
- ✓ Research
- ✓ Watching movies
- ✓ Listening to music

REFEREES

1. **DR. ACHILES SIMIYU**
CHAIRMAN MATHEMATICS DEPARTMENT
MASINDO MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY
PHONO NO. 0722455156

2. PROF. KENNEDY NYONGESA
SENIOR LECTURER MATHEMATICS DEPARTMENT
MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY
PHONO NO. 0723816558

3. PROF GEORGE LAWI
SENIOR LECTURER MATHEMATICS DEPARTMENT
MASINDO MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY
PHONO NO. 0722292635

Page last updated on [23/02/2022](#)