

CURRICULUM VITAE

A. BIODATA

NAME: MOSES MWANGI MANENE
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SEX: MALE
DATE OF BIRTH: JUNE 1952
PLACE OF BIRTH: MURANGA, KENYA
NATIONALITY: KENYAN
MARITAL STATUS: MARRIED
EMPLOYMENT STATUS ASSOCIATE PROFESSOR OF STATISTICS AND HEAD
OF STATISTICS AND OPERATIONS RESEARCH
SCHOOL OF MATHEMATICS
UNIVERSITY OF NAIROBI

B. ACADEMIC QUALIFICATIONS

COLLEGE/UNIVERSITY	PERIOD	CERTIFICATE AWARDED
K. S. T. C.	1971-1974	S1
NAIROBI UNIVERSITY	1975-1978	B.Sc.
NAIROBI UNIVERSITY	1978-1980	M.Sc.
NAIROBI UNIVERSITY	1980-1986	Ph.D.

AWARDS

1. Awarded University of Nairobi Scholarship to Study Master of Science in Mathematical Statistics 1978-1980.
2. Awarded C. V. Raman International Fellowship (Senior Fellowship) to visit Indian Statistical Institute Kolkata from 16-2-2011 to 17-3-2011

COURSES STUDIED AT THE UNIVERSITY

1975 - 1976 Pure Mathematics, Applied Mathematics and Statistics

1978 ó 1980 Mathematical Statistics

1980 ó 1986 wrote a Ph.D. thesis in Mathematical Statistics

C. TEACHING EXPERIENCE

I was first appointed in the Department of Mathematics University of Nairobi as a graduate assistant in 1980 and since then I have served in the following capacities:

October 1980- November 1980	Graduate Assistant
December 1980 - 1986	Tutorial fellow
1986-1988	Lecturer
1988 ó2006	Senior Lecturer
2006-Present	Associate Professor

I have taught Statistics courses, Operations Research, Calculus, Real analysis and Linear Algebra at under graduate level.

COURSES TAUGHT AT POSTGRADUATE

Statistical Inference

Stochastic Processes

Probability Theory

Design and Analysis of Experiments

Sample survey Designs

E. PUBLICATIONS

1. Manene, M. M. (1985): Further investigations of Group Screening Designs; Ph.D. research thesis submitted to the University of Nairobi, December 1985.
2. Patel, M. S. and Manene, M. M. (1987): Step-wise Group Screening with Equal Prior Probabilities and No errors in Observations; Commun. Statist. Simula and Computa Vol. 16 No. 3, 817 ó 833.
3. Odhiambo, J. W. and Manene, M. M. (1987): Step-wise Group Screening Designs with Errors in Observations; Commun Statist. Theor. Meth. Vol. 16, No. 10, 3095 ó 3115.
4. Manene, M, M. and Odhiambo, J. W. (1987): Probability and Statistics I. Manual to be used by External Degree students for the course BEM 166.

5. Manene, M. M. (1997); On Two-Type Step-wise Group Screening Designs; proceedings of the Fifth Scientific Conference of the East, Central and Southern Africa Network of the International Biometric Society. 57 ó 62.
6. M. S. Patel and M. M. Manene (1992) Step-wise Screening of defective factors; commun. Statist. Theor. Meth. Vol. 21, No. 9, 2527 ó 2539.
7. Manene, M. M., A. M. Rotich and R. O. Simwa (2002) on Multi-type Step-Wise Group Screening Designs; Bulletin of the Allahabad Mathematical Society Vol. 17, 59 ó 78.
8. Manene, M. M. (2003) Step-Wise Group Screening Designs with unequal A-priori probabilities and errors in observations; Sultan Qaboos University Journal of Science and Tech. 8, 153 ó 165.
9. Manene M. M and Simwa R. O. (2004). The performance of one type step-wise group screening designs Indian Journal of Mathematics Vol. 46, No. 2-3, 303-321.
10. Manene M.M. (2005) Multi-type stepwise group screening designs with unequal a priori probabilities; East African Journal of Statistics Vol.1, No.1, 49-67.
11. Manene M.M and Mwangi A.K. (2005) Group Screening designs a comparative approach. International Journal of Biochemi physics vol.14 Nos 1 & 2,49-53.
12. Manene M.M. and Otieno F.O. (2007) Step-wise group-screening strategies for isolating defective items. East African journal of statistics vol.1 No. 3, 282-293.
13. Manene M.M. (2007) Introduction to probability and statistics. Module for open and distance learning.
14. Muthama N. J., Manene M. M. and Ndetei C. J. (2008) Simulation of Decadal Precipitation over Nairobi in Kenya. Sultan Qaboos University Journal for Science Vol
15. J.A.M. Ottieno, Moses M. Manene, T.N.O. Achia (2010). The Unrestricted Dorfman-Sterrett Group Screening Design without Error in Decision. ICASTOR Journal of Mathematical Sciences Vol. 4, No.1 , 69-82.
16. V.O. Omwenga, M. M. Manene and C. B. Singh (2011) Model for the Estimation of Initial Conditions in a Conflict Environment. International Journal of BioChemiPhysics Vol.19, 19-24 ISSN1019-7648
17. Achia T. N. O, Manene M. M. and Ottieno J. A. M (2010) The Restricted Dorfman-Sterrett Group Screening Procedures without Errors in Decisions ICASTOR Journal of Mathematics Vol. 4 No. 2
18. Muthama, N. J., W. B. Masieyi, R. E. Okoola, A. O. Opere, J. R. Mukabana, W. Nyakwanda, S. Aura, B. A. Chanzu and M. M. Manene (2012) Survey on the Utilization of Weather

F CURRENT RESEARCH INTEREST

- i. Group Screening Designs
- ii. Mathematical Modeling
- iii. Optimal Designs
- iv. Sample survey methods

G. M. SC. DESSERTATIONS SUPERVISED

- i. Multi-type Step-Wise Group Screening Designs – Andrew Rotich (1988).
- ii. The performance of Step-Wise Group Screening Designs ó Richard O. Simwa (1989).
- iii. Further investigations of designs of experiments ó Nyapola (1992).
- iv. Comparing Group Screening Designs ó Alex K. Mwangi (1999).
- v. Statistical assessment on the performance of planting material on banana varieties in Kenya: An application of the on farm trial-Buyayi S. Wepukhulu (2003).
- vi. Bootstrapping repeated measures data ó Rebecca Kwagala (2004).
- vii. Stepwise group testing in the presence of error ó David Wamahiu Kiboi (2004).
- viii. Step-wise group screening strategies for isolating defective items ó Otieno Andrew Francis (2004).
- ix. Adaptive sampling designs and their applications ó B.W. Gichohi (2005).
- x. The use of Rectangular Array Schemes in Blood testing ó P.M. Mulupi (2005).
- xi. Optimal Designs for Models with Covariates ó J. Matata (2006).
- xii. Construction of Experimental Designs a Finite Geometric approach ó Simiyu C. N. (2006).
- xiii. Comparison of Estimators in Successive Sampling Models ó Samoei P. K. (2006).
- xiv. Comparison of HIV/AIDS Mortality Rates in an Urban and a Rural Setting J.W. Thiga (2009).
- xv. Using Logistic Regression to Determine the Major Causes of the Rural Poverty Martin M. Kasina (2009)
- xvi. Modelling Malaria Prevalence in the Eight Provinces of Kenya ó E.O. Ombaka (2010)
- xvii. Group Testing Using the Modified Binomial Model and Optimal Hierarchical Procedures T.B. Cheruiyot (2010)
- xviii. Two-Type Step-Wise Group Screening Designs With Errors in Observations- H.O. Mecha (2010)

H. Ph.D. SUPERVISION

1. Dorfman ó Sterret Group Screening Designs ó Thomas Achia ó (completed 2005).
2. Chaos and Non-linear Dynamical approach in predicting exchange rates in Kenya ó Sifunjo E. Kisaka (completed 2010).
3. Conflict modeling and Resolution in a Dynamic state óOmwenga V. O. (completed 2010)
4. Bayesian Networks with Applications to Agricultural production ó P.N. Mongare (ongoing).
5. Evaluation of Effectiveness of long lasting Insecticide treated nets in the protection against malaria using a mathematical model. L.N. Muthami.ó (ongoing).

I. Ph.D. THESIS EXAMINED

1. Deletion Designs ó M.K.N. Gacii1992.
2. On Linear Search Models ó F. O. Onyango 1994.
3. Stage structured compartmental models ó H. G. Mwambi ó 1996.
4. Group ó testing with repeated trials ó Nyongesa, L. K. 2002.
5. On Aparch Leøvy Filter Option Pricing Formula for Developed and Emerging Markets- Ivivi J. Mwaniki-2010.
6. Estimation Problem in Group Screening Designs-Muhua G.O.-2010

J. WORKSHOPS AND CONFERENCES ATTENDED

1. Fifth Scientific conference of the East, central and Southern African Network of International Biometric Society Mombasa, Kenya, 22nd ó 25th September 1997.
2. International workshop on statistical methods for studying animal populations CBPS 27th June 2nd July 1999.
3. International biometric Society eighth Biannual SUSAN 2003 conference July 3-11, 2003 University of Natal South Africa.
4. In-house Mathematics Department Training workshop at St. Anne Guest house Kisumu 5th March 2002 ó 9th March 2002.
5. Institute of tropical & Infectious disease (UNITID) curriculum Development Workshop. 10th ó 13th April 2005. Lake Bogoria Hotel Kenya.
6. Workshop on training of Chief Internal Examiners at KCCT 13 ó 14 July 2006.
7. Training Workshop on Teaching and Learning in Higher Education 28-29 September 2007.

8. Fourth International ORSEA Conference 23-24 October 2008 Nairobi Kenya.

This list is not exhaustive but just a list of a few workshops and conferences attended.

K. OTHER ACADEMIC ACTIVITIES

1. Writer and Reviewer of statistic courses for External studies
2. Involved in setting National Examinations for a professional Examining body
3. Have been External Examiner in statistics at the following universities
 - i. Moi University in Eldoret 1999 ó 2003
 - ii. Western University College of Science and Technology (WUCST) Kakamega 2004
 - iii. Africa Nazarene University ó 2000 - 2003
 - iv. Kenyatta University 2005-2009
 - v. JKUAT 2010 -
4. Visits/supervises 3rd year statistic students on attachment at Central Bureau of Statistics in the months July to September.
5. Reviews Statistical papers in my area òOptimal designsö for Mathematical Reviews.

L. FACULTY/DEPARTMENTAL/SCHOOL OF MATHEMATICS RESPONSIBILITIES

1. Chairman of School of Mathematics postgraduate committee 2006 ó present
2. Coordinator of all Postgraduate programs in Statistics in the School of Mathematics.
3. Has acted as Director of School of Mathematics on several occasions.

M. OTHER ACTIVITIES

1. Studied Basic theology and Christian counseling through T.E.E. and attained Higher Diploma in 2004.
2. Chairman of Christian Education Committee at Riruta P.C.E.A. Church 2004.

REFEREES

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