

## **CURRICULUM VITAE**

**DR.EDWARD GACHANGI NJENGA.**

**MARITAL STATUS:** MARRIED WITH THREE CHILDREN.

**DATE OF BIRTH:** 04-06-1960.

**NATIONALITY:** KENYAN.

**HOME TELEPHONE NO:**0722847131

**EMPLOYMENT:**DEPARTMENT OF STATISTICS AND ACTUARIAL SCIENCE,KENYATTA UNIVERSITY.

**DATE OF FIRST APPOINTMENT:** OCTOBER,1983.

**CURRENT STATUS:** SENIOR LECTURER.

### **UNIVERSITY EDUCATION AND QUALIFICATIONS.**

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| 1978-1981 | Bachelor of science (1 <sup>st</sup> class honours)            | <b>PANJAB UNIVERSITY ,<br/>INDIA.</b>              |
| 1981-1983 | Master of science in Statistics.                               | <b>PANJAB UNIVERSITY,<br/>INDIA.</b>               |
| 1986-1987 | Master of science in Statistics(with applications in medicine) | <b>SOUTHAMPTON UNIVERSITY,<br/>UNITED KINGDOM.</b> |
| 1987-1991 | Doctor of Philosophy in Mathematics(statistics)                | <b>SOUTHAMPTON UNIVERSITY,<br/>UNITED KINGDOM.</b> |

**RESEARCH INTERESTS:** BIostatistics,SAMPLE SURVEYS, SURVIVAL ANALYSIS, DEMOGRAPHY,

### **PROFESSIONAL EXPERIENCES.**

- 1.Appointed Assistant lecturer in the department of Mathematics, Kenyatta university in 1983.
2. Appointed Tutorial fellow in the department of Mathematics, Kenyatta university in 1984
- 3.Appointed a writer of statistics units of External degree programme of the University of Nairobi in 1986.
- 4.Promoted to the post of Lecturer in the department of Mathematics, Kenyatta university in 1988.
- 5.Elected a fellow of the Royal statistical society of the United kingdom in 1990.
- 6.Participated in the writing of the Mathematics curriculum of Catholic university of East Africa.
7. Promoted to Senior Lecturer in the department of Mathematics, Kenyatta university in 1992.

8.Appointed a resource person by the Commission of higher education to assess Mathematics Curriculum of private universities seeking to be granted Charters (2000).

### **EXTERNAL EXAMINER**

1. Kenya Polytechnic from 1997-1999.
2. Catholic University of Eastern Africa from 2001-2004.
3. Egerton University from 2007-to date.
- 4.Laikipia University from 2011-to date
- 5.Nairobi University from 2012-todate

### **INTERNAL EXAMINER.**

Appointed to examine the PHD Thesis of Mr Karoki “Nonparametric model based estimation of the finite population mean using two stage cluster sampling”. To graduate in June 2010.

### **SUPERVISION**

#### **Masters of science Projects Supervised.**

- 1.Tabitha Weru (2007) “Design based estimators of the finite population total”.
- 2.Beatrice Maina(2007) “Model based estimators of finite population total”.
- 4 Kuria Joseph Gikonyo (2007) “Comparison of various estimators of the variance of the mean”.
- 5 Kiarie francis Mungai( 2006) “A nonparametric approach to estimation of finite population mean”
- 6.Kipruto Hillary(2006) “Comparative study of statistical association in data sets with reference to molecular marker data, phenotypic trait and Geographical data” .
- 7 Mwangi Wachira(1993) “Robust estimation of regression coefficients in complex surveys”.
- 8 Njoroge gladys (2009) “Estimation of the finite population mean using splines.
- 9 Ndengo Rugengamanzi (2007) “A comparative study of some Nonparametric and parametric estimators”.
- 10.Ngandu (2010) “Horvitz -Thompson estimator of the population total as a Penalized spline model based.”
- 11,Cheruiyot (2010) “Estimation of the population total using Periodic splines.”
12. Richard Kurgat(2005) “Nonparametric Estimation of correlation coefficient”.

13. Kipngeno Bett(2006).“Nonparametric Estimation of Finite population variance”.
14. Cheruiyot Joseph K (2010). “Use of spline regression in the prediction of the finite population total”.
15. Hellen Waititu (2011) “Estimation of variance using Donor imputation method”.
16. Ndungu Kamau(2012) “Over the counter diagnosis and drug dispensation in chemists.A case study of Thika town”.
17. Mureithi Daniel(2013) “An investigation of the effect of some social economic factors on maternal, infant and child mortality.”

Master of science thesis supervised.

1. Kiplimo Richard(2012) “A statistical study of the distribution of pediatric TB patterns in Kenya”
2. Misasi Mboya(2014) “Statistical analysis of the determinants of maternal mortality and the impact of voucher for health in Kisumu sub-county, Kenya.”
3. Olwende Wilfred “A linear model analysis of the factors associated with psychosis in Kenya; a case study of Mathare hospital in Kenya.”

### **COURSE UNITS TAUGHT.**

Probability and statistics(I,II,III,IV), Linear Algebra(I,II), Basic mathematics, Estimation theory, Test of Hypotheses, Statistical quality control, Operation research I, Nonparametric methods, Sample surveys, Applied statistics, Multivariate Analysis, Survival Analysis, Demographic Techniques, Regression methods, Quantitative methods, Analysis of statistical data, Modeling of statistical data, Calculus(I,II,III), Design and analysis of Experiments, Observational studies, Statistical Genetics.

### **ADMINISTRATIVE EXPERIENCE.**

1992-1997 Examination officer, Mathematics Department.  
 1999-2005 Chairman, Mathematics Department, Kenyatta University, Nairobi.  
 2007-2008 Ag. Director, Institute of open learning, Kenyatta University.  
 2008-2009 Director, Directorate of Examinations, Kenyatta University.  
 2009-todate Deputy Director, Centre for Institutional based programmes.

### **OTHER DUTIES.**

Chairman, Vice chancellor’s committee to investigate 2008/2009 Daad Postgraduate Scholarship Award.  
 Member, Vice –Chancellor’s committee to review University Examination and Admission regulations 2011

### **PUBLICATIONS**

1. Unpublished masters of science dissertation entitled: Regression analysis of survey data Selection effects and robustness, 1987

- 2.Unpublished Doctor of philosophy Thesis entitled: Robust estimation of regression coefficients in complex surveys.1990
- 3.Published a paper entitled: Robust model based methods in analytical surveys. Journal of survey methodology of Canada, Volume 18,No 2 pp 1187-208,1992.
- 4.Published a paper entitled: Comparisons of estimators of regression estimators. East African journal of science,2000.

**SEMINARS ATTENDED.**

- 1.Pan African congress of mathematicians held in Nairobi, 1995
- 2.International congress of Mathematicians held in Beijing, China in July - August 2002.
- 3.First Kenyatta university International mathematics conference,Nairobi July 2011.

**ACADEMIC REFEREES.**

- 1.Professor Muthakia, Deputy Principal,Kimathi university .
- 2.Professor Kioni Principal, Kimathi university .