

CURRICULUM VITAE

NAME:	JOSEPH A.M. OTTIENO
DATE OF BIRTH:	13 th MARCH, 1947
NATIONALITY:	KENYAN
MARITAL STATUS:	MARRIED

ACADEMIC QUALIFICATIONS

Ph.D.	1981	UNIVERSITY OF NAIROBI IN MATHEMATICS
M.Sc.	1975	UNIVERSITY OF NAIROBI IN MATHEMATICS
B.Sc.	1972	UNIVERSITY OF NAIROBI IN MATHEMATICS

POST-DOCTORAL FELLOWSHIPS

- IN TECHNICAL DEMOGRAPHY, AT PRINCETON UNIVERSITY, 1981/82
OFFICE OF POPULATION RESEARCH (OPR)
SPONSORED BY FORD FOUNDATION
- IN HEALTH AND DEMOGRAPHY, AT JOHN HOPKINS UNIVERSITY,
1989/90; SCHOOL OF PUBLIC HEALTH
SPONSORED BY ROCKFELLER FOUNDATION.

TEACHING EXPERIENCE

OVER 35 YEARS: FROM 1975 UPTO DATE-2013.

AT THE UNIVERSITY OF NAIROBI

RESEARCH INTEREST AREAS

- CONSTRUCTIONS, PROPERTIES, ESTIMATION AND APPLICATIONS OF PROBABILITY DISTRIBUTIONS
- DISTRIBUTIONS EMERGING FROM STOCHASTICS PROCESSES
- MATHEMATICAL DEMOGRAPHY
- GROUP-SCREENING DESIDNS SURVIVAL MODELS

POST-GRADUATE TEACHING COURSES

- STOCHASTIC PROCESSES
- SURVIVAL ANALYSIS
- MATHEMATICAL DEMOGRAPHY

PH.D. SUPERVISION

WORK COMPLETED AT THE UNIVERSITY OF NAIROBI

- MUHUA GEORGE ODWESO (2009): "ESTIMATION IN GROUP SCREENING DESIGNS"
- THOMAS N.O ACHIA (2004): "DORFMAN STERREIT GROUP-SCREENING DESIGNS"
- YASIR YAGOUB ALI (1999): "IMPUTATION TECHINUQUES IN MULTIVARIATE ANALYSIS"

ON GOING PH.D SUPERVISION

- WAKOLI MOSES WAMALWA: "EXPONENTIAL AND GEOMETRIC MIXTURES IN FECUNDABILITY."
- SARGUTA RACHEL: "PROPERTIES AND FURTHER CONSTRUCTION OF MIXED POISSON DISTRIBUTIONS"
- OROWE IDA: "EPIDEMIC MODELS BASED ON BIRTH AND DEATH PROCESSES"
- ROSE MUTHEE: "RECURVIVE MODELS IN PROBABILITIES"

PAPERS PUBLISHED

- MUHUA, G.O.; J.A.M. OTTIENO AND J.O.OWINO (2012): "PROBABILITY ESTIMATION IN GROUP-SCREENING DESIGNS WITHOUT ERRORS IN DECISIONS"
The East African Journal of Statistics, vol 5, No 1, pp 97-116.
- J.A.M. OTTIENO; M.M. MANENE AND T.N.O ACHIA (2010): "THE UNRESTRICTED DORFMAN-STERRETT GROUP-SCREENING DESIGN WITHOUT ERROR IN DECISION."
Journal of Mathematical Science, vol 4, No 1, pp 69-82.

A SAMPLE OF SUPERVISED M.Sc. PROJECTS

- OULA NOVA BERYL (2013): "ANALYSIS OF LOAN DEFAULTERS USING SURVIVAL MODELS"
- MAINA CALVIN (2013): "NORMAL MIXTURES IN FINANCE"
- ONCHERE, WALTER O. (2013): "FRAILTY MODELIN ACTUARIAL SCIENCE"
- OTIENO JACOB (2013): "FROM THE CLASSICAL BETA TO THE GENERALISED BETA DISTRIBUTIONS"
- KARANJA RAPHAEL (2013): "DISTRIBUTION EMERGING FROM PURE BIRTH PROCESSES"
- IRUNGU EUNICE (2013): "NEGATIVE BINOMIAL MIXTURES"
- OGAL RUTH (2012): "BINOMIAL MIXTURES IN CONTINOUS MIXING PRIORS"
- SARGUTA RACHEL (2012): "ON THE CONSTRUCTION OF MIXED POISSON DISTRIBUTION"
- MUTHEE ROSE (2012): "DISCRETE DISTRIBUTION AND THEIR RECURSIVE RELATIONS"
- KITKIT MENGICH ERICK (2005): "USE OF GENERATING FUNCTION AND MARKOV CHAIN TECHNIQUE IN RANDOM WALK"
- NYAGA JOHN GATUMU (2012): "FERTILITY MODELS BASED ON MIXTURES AND COMPOUND DISTRIBUTIONS"

LECTURE SERIES NOTES UNDER PREPERATION

- PROBLEM AND SOLUTION IN STABLE POPULATIONS. A COPY IS FOUND IN PSRI LIBRARY, MAIN CAMPUS, UNIVERSITY OF NAIROBI
- THE MATHEMATICS OF STABLE POPULATION THEOREM. A COPY IS FOUND IN PSRI LIBRARY, MAIN CAMPUS, UNIVERSITY OF NAIROBI
- THE MATHEMATICS OF LIFE TABLES
- GROUP SCREENING DESIGNS: JOINTLY BEING WRITTEN BY PROF M. M. MANENE (UoN) AND PROF JOHN ODHIAMBO (VC OF STRATHMORE UNIVERSITY)
- SURVIVAL ANALYSIS
- GENERATING FUNCTIONS AND THEIR USE IN STOCHASTIC PROCESSES