

PROF. LEO ODONGO

CURRICULUM VITAE

I BIODATA

Name: Leo Odiwuor Odongo

Nationality: Kenya

Home address: Lunjre Primary School, Box 177, Sigomere.

Present address: c/o Department of Mathematics and Actuarial Science, Kenyatta University, Box 43844-00100, Nairobi

E-Mail: leo_odongo@yahoo.co.uk or odongo.leo@ku.ac.ke

II ACADEMIC QUALIFICATION AND AWARDS

(a) Academic Qualification

(i) Ph.D.(Statistics), 1993, University of Manitoba, Canada

Thesis Title: “*Some Contributions to Non-Parametric Estimation of Probability Density Function and its Functionals*”

<http://books.google.co.ke/books?id=wgiTOUcE21UC&pg=PA141&lpg=PA141&dq=leo+>

(ii) M.Sc.(Statistics), 1990, University of Manitoba, Canada

(iii) M.Sc. (Mathematical Statistics), 1983, University of Nairobi

Project Title: *Acceptance Sampling for Attributes*

(iv) B.Ed (Sc) (Double Mathematics), 1980, University of Nairobi

(b) Grants/Awards

- (i) Grand Challenges Canada Grant Number 0154-01- Rising Stars in Global Health: Mobile telephone diagnostic tests application for tuberculosis suspects, Nyanza Province, Kenya. Grant Amount: **\$ 113,000 CAD**. Period Beginning November 1, 2012 (the “Start Date”) for 18 months
- (ii) Mentoring African Research in Mathematics Funded by The Nuffield Foundation and Leverhulme Trust. Jointly with Enrico Rogora (University of Rome “La Sapienza”) and David Malonza (Kenyatta University) 2009/10 and 2010/11 **Amount awarded : British Pounds: 10,000**
- (iii) National Council of Science and Technology: Science, Technology and Innovations(ST&I) Grant (Conference/Symposium) **Kenya Shillings: 500,000.00** April, 2011
- (iv) Canadian Commonwealth Scholarship, 1988 – 1993
- (v) Kenyatta University College Scholarship, 1980 – 1982
- (vi) Mobil Oil Award, best candidate in Mathematics, Kenyatta University College, 1980

III WORKING EXPERIENCE

Associate Professor, Kenyatta University, Department of Mathematics and Actuarial Science,
November, 2nd 2012- November –present.

Senior Lecturer, Kenyatta University, Department of Mathematics, January 16th, 2002- November, 1st 2012

Lecturer, Kenyatta University, Department of Mathematics, June 15th, 1988– Jan 15th, 2002

Teaching Assistant\Demonstrator University of Manitoba, Canada 1989 – 1993

Tutorial Fellow, Kenyatta University, Department of Mathematics August 1984 - June 1988
Assistant Lecturer, Kenya Polytechnic, Nairobi 1982 – 1984

IV OTHER TRAINING

Kenya National Examination Council, Marker ‘A’ Level Mathematics Nov-Dec 1987

V PUBLICATIONS

(a) Books/Lecture Notes

- (i) SMA 102 Basic Mathematics, Module for Kenyatta University Open Learning, vetted, Published, (IOL), 2002
- (ii) SLC 005 Mathematics, Module for Kenyatta University Open Learning, vetted, Published, (IOL), 2002

(b) Research Papers

1. Mutanu Beth, Kahiri J. M. and **Odongo L. O** (2020). Effects of measurement and response errors on estimation based on centre sampling and two-phase centre sampling for elusive population.. *International Journal of Statistics and Applied Mathematics*, **5**(4), 135-146.
Website: www.mathsjournal.com
2. Mutanu Beth, Kahiri James and **Odongo Leo** (2020). Estimation in Elusive population using multiple frames and two phase multiple frames in the presence of measurement and response errors. *American Journal of Theoretical and Applied Statistics*, **9**(5), 173-184.
Website: www.sciencepublishinggroup.com/ajitas
3. P.T. Situma and **L. Odongo**(2020). Maximum Likelihood estimation of parameters of Poisson-gamma distribution under progressive type I interval censoring. *American Journal of Theoretical and Applied Statistics*, **9**(2), 14-20
Website: www.sciencepublishinggroup.com/ajitas
4. Nelson Christopher Dzupire, Philip Ngare and **Leo Odongo** (2020). A Copula based bi-variate model for Temperature and Rainfall Processes. *Scientific African*, **8**
Website: <https://www.journals.elsevier.com/Scientific-African>
5. A. W. Ndungu, S. Mwalili and **L. Odongo**(2019). Hierarchical penalized mixed model. *Open Journal of Statistics*, **9**(6), 657-663
Website: https://www.scrip.org/html/3-1241116_96656.htm
6. Nelson Christopher Dzupire, Philip Ngare and **Leo Odongo** (2019). Pricing Basket Weather Derivatives on Rainfall and Temperature Processes. *International Journal of Financial Studies*, **7**(35)
Doi: 3390/ijfs7030035 . www.mdpi.com/journal/ijfs

7. Christ Mpika Moundele, **Leo Odongo** and Bernedy Nel Messie Kodia Banzouzi (2019). An Estimator of Baseline Intensity by the Methods of Wavelets. *Applied Mathematical Sciences*, 13(12) 547-558
Website: www.m-hikari.com
8. Claudio C. Kandza-Tadi, **Leo O. Odongo** and Romanus O. Odhiambo (2018). Parameter Estimation of Power Lomax Distribution Based on Type-II Progressively Hybrid Censoring Scheme. *Applied Mathematical Sciences*, 12(18) 879-891
Website: www.m-hikari.com
9. Eunice Muchai, **Leo Odongo** and James Kahiri (2018). Comparison of Crisp and Fuzzy Classification Trees using Chi-squared Impurity Measure on Simulated Data. *European Scientific Journal*, **14** (35), 351.
Website: <http://ejournal.org/index.php/esj/pages/view/submission>
10. Nelson Christopher Dzupire, Philip Ngare and **Leo Odongo** (2018). Levy Process Based Ornstein-Uhlenbeck Temperature Model with Time varying Speed of Mean Reversion. *Advances and Applications in Statistics*, **53**(3), 199-224.
Website <http://dx.doi.org/10.17654/AS053030199>
11. Nelson Christopher Dzupire, Philip Ngare and **Leo Odongo** (2018). A Poisson-Gamma Model for Zero-Inflated Rainfall Data. *Journal of Probability and Statistics*, **1**, 51-63 Article ID 1012467.
Website: Website <https://doi.org/10.1155/2018/101264776067>
12. Ibrahim Sawadogo, **Leo Odongo**, Ibrahim Ly (2017). Maximum Likelihood Estimation of the Parameters of Exponentiated Generalized Weibull Based on Progressive Type II Censored Data. *Open Journal of Statistics*, **7**, 956-963.
Website <http://dx.doi.org/10.4236/ojs.2017.76067>
13. Joseph Nderitu Gitahi, John Kung'u, **Leo Odongo** (2017). Estimation of the Parameters of Poisson-Exponential Distribution Based on Progressively Type II Censoring Using the Expectation Maximization (EM) Algorithm. . *American Journal of Theoretical and Applied Statistics* **6**(3), 141-149.
Website: www.sciencepublishinggroup.com/ajtas
14. Sarah Pyeye, Charles K. Syengo, **Leo Odongo**, George O. Orwa and Romanus O. Odhiambo(2016). Imputation Based on Local Linear Regression for Nonmonotone Nonrespondents in Longitudinal Surveys. *Open Journal of Statistics*, **6**, 1138-1154.
Website: <http://dx.doi.org/10.4236/ojs.2016.66092>
15. Mukangai, J. I. and **Odongo, L. O.**(2016). Estimating Survivor Function Using Adjusted Product Limit Estimator in the Presence of Ties. *American Journal of Theoretical and Applied Statistics* ,**5**(5), 290-296.
Website: <http://www.sciencepublishinggroup.com/j/ajtas>
16. Anakeya, D..A., Keli R., Makwata H., Kahiri J .and **Odongo L.O.**(2015). Effects of Response Errors on Population Parameters in Double Sampling for Stratification. *Science Journal of Applied Mathematics and Statistics*, **3**(2), 27-32
Website: www.sciencepublishinggroup.com/j/sjams
17. Sanna Majang, Abdou Ka Diongue and **Leo Odongo**.(2014). Modeling and Forecasting Gambia's Inflation Rates. *International Journal of Economics and Finance*, **6**(10), 129-138.
Website: www.ccsenet.org/ijef
18. Opeyo P.O., Olubusoye, O.E. and Leo O. Odongo. (2014). Conditional Maximum Likelihood Estimation for Logit Panel Models with Non-Responses. *International Journal of Science and Research*, **3**(7) 2242-2254.
Website: www.ijsr.net

19. Eunice Muchai and **Leo Odongo**.(2014). Comparison of Crisp and Fuzzy Classification Trees using Gini Index Impurity Measure on Simulated Data. *European Scientific Journal*, **10**(18) 130-134.
Website: <http://eujournal.org/index.php/esj/pages/view/submission>
20. Tum E. C., Kung'u J. and **Odongo L. O.** (2014). New Regression Type Estimator with Two Auxiliary Variables for Single-Phase Sampling. *Open Journal of Statistics*, **4**, 789-796.
Website: www.scirp.org/journal/ojs
21. Kung'u, J., Chumba, G, and **Odongo, L.**(2014). Mixture Regression Estimator using Multi Auxiliary Variables and Attributes in Two-Phase Sampling. *Open Journal of Statistics*, **4**, 355-366.
Website: www.scirp.org/journal/ojs
22. Kung'u, J. and **Odongo, L.** (2014). Ratio-cum- Product Estimator using Multiple Auxiliary Attributes in Single Phase Sampling. *Open Journal of Statistics*, **4**, 239-245.
Website: www.scirp.org/journal/ojs
23. Kung'u J. and **Odongo L.** (2014). Ratio-cum- Product Estimator using MULTIPLE Auxiliary Attributes in Two-Phase Sampling. *Open Journal of Statistics*, **4**, 246-266.
Website: www.scirp.org/journal/ojs
24. Omwonylee, Joseph Okello, Diongue, Abdou K.A. and **Odongo. Leo Odiwuor.** (2014). Modelling internally Displaced Persons'(IDP) Time to Resuming their Ancestral Homes after IDPs' Camps in Northern Uganda using Parametric Methods. *International Journal of Science and Research*, 125-131.
Website: www.ijsr.net
25. Biwott K. Daniel and **Odongo O. Leo.** (2013). Generalized Estimation of Missing Observations in Nonlinear Time Series model using State Space Representation. *American Journal of Theoretical and Applied Statistics*, 2013, **2**(2), 21-28.
Website: www.sciencepublishinggroup.com/ajitas
26. Karoki, Samuel, Jolesama James and **Odongo Leo.** (2013). Maximum Likelihood Estimation of the Thickness and Loading Parameters of the Birnbaum Saunders Life Distribution under Type II censored Samples. *STARS: International Journal (Science)*, **7**(1) 10-19.
27. Muga, Zablon Maua, Orwa G. O., Otieno, R.O. and **Odongo, L.O.** (2013). Effects of Outliers on Estimation of Finite Population Totals. *International Journal of Engineering, Science and Mathematics*, **2**(1): 160-176.
Website: www.ijmra.us
28. Muga, Zablon Maua, Orwa G. O., Otieno, R.O. and **Odongo, L.O.** (2013). Comparison of the Ratio Estimate to the Local Linear Polynomial Estimate of Finite Population Totals. *International Journal of Engineering, Science and Mathematics*, **2**(1): 185-202.
Website: www.ijmra.us
29. Odero, Everlyne Akoth, **Leo Odongo** and Francis Onsongo (2013). Investigation of the Effect of Education on Fertility among Women in Kakamega North District, Kakamega County, Kenya. *International Journal of physical and Social Sciences*, **3**(10): 399-412
Website: www.ijmra.us
30. Odero Everlyne Akoth, **Leo Odongo** and Francis Onsongo (2013). The Relationship Between Level of sexuality of Women of different levels of Education and Fertility in Kakamega North District, Kenya. *International Journal of physical and Social Sciences*, **3**(10): 413-434
Website: www.ijmra.us

31. Odero Everlyne Akoth, **Leo Odongo** and Francis Onsongo (2013). Contraceptive Use by Women of different levels of Education and Fertility in Kakamega North District, Kenya. *International Journal of physical and Social Sciences*, **3**(10), 435-456
Website: www.ijmra.us
32. Karoki, S., **Odongo, L.** and Kahiri, J. (2012). Model- Based Nonparametric Estimation of the Finite Population Total under Two-Stage Cluster Samplings, *East African Journal of Statistics*, **5**(1): 82-96
Website: www.ajol.info/index.php/eajosta
33. Kahiri, J.M., **Odongo, L.** and Karoki, S. G. (2012). Single-stage Cluster Sampling with Binary Misclassification Errors, *East African Journal of Statistics*, **5**(1): 58-81
Website: www.ajol.info/index.php/eajosta
34. Lillian A. Oluoch and **Leo O. Odongo** (2012). Jackknife Variance Estimation of Uniformly Minimum Variance Unbiased Estimates and the Maximum Likelihood Estimates for the Gamma Probability Density Function. *International Journal of Science and Research*, **3**(8)2081-2087
Website: www.ijsr.net
36. Okango A. A. and **Odongo. L.O.** (2011). Asymptotic Linear Estimation of the Quantile Function of the Double Exponential Distribution Based on Selected Order Statistics, *East African Journal of Statistics*, **5**(1), 1-25
Website: www.ajol.info/index.php/eajosta
37. Orwa, G.O., Otieno. R.O. and **Odongo, L.O.** (2010). Nonparametric Estimation in Two Stage Cluster Sampling, *Far East Journal of Mathematical Sciences* (FJMS), **43**(1): 165-182.
Website: www.pphmj.com/journals/articles/669.htm
38. Robert, K. and **Odongo, L.O.** (2007). Bayesian Estimation of the Parameters of the Birnbaum-Saunders Distribution, *East African Journal of Statistics*, **1**(3): 248-260.
Website: www.ajol.info/index.php/eajosta
39. **Odongo, L.O.** (2005). A Note on Nonparametric Confidence Interval for a Shift Parameter for Cauchy Distribution, *East African Journal of Statistics*. **1**(1): 1-8.
Website: www.ajol.info/index.php/eajosta
40. **Odongo, L.O.** and M. Samanta, (2002). A Bayesian Test for Equality of Scale Parameters of Several Exponential Distributions, *Journal of Agriculture Science and Technology*, **4** (1): 75-82.
Website: www.jkuat.ac.ke
41. **Odongo, L.O.** and M. Samanta. (1993). On estimation of a functional of a probability density function. *Calcutta Statistical Association Bulletin*, **43** (169-170): 13-23.
Website: www.calcuttastatisticalassociation.org/bulletinTopics.php?XbTopicID=4

VI SEMINARS AND WORKSHOPS ATTENDED

Papers presented:

- (a) Is it possible to achieve objective measurements in education? By Enrico Rogora, David Malonza and **Leo Odongo**
- (b) Model-Based non parametric estimation of the finite population total under two-stage cluster sampling. By Karoki Samuel, **Leo Odongo** and Kahiri James
- (c) A model for misclassification errors in single stage cluster sampling. By Kahiri, James, **Odongo Leo** and Karoki Samuel

Attended :

- (i) Third Kenyatta University International Mathematics Conference, 2019, Kenyatta University Nairobi, Kenya, June 17-20, 2019
www.ku.ac.ke/mathsconference/images/.../maths_conference_2019.pdf
- (ii) Commission for University Education External Peer Reviewers training Workshop, held at Kenya School of Monetary Studies, Nairobi, Kenya, 11th -12th ,November, 2014.
- (iii) First Kenyatta University Workshop on Mathematical Modelling, 2013, Kenyatta University Conference Centre, Nairobi, Kenya, 17th -21st June, 2013.
- (iv) Regional Congress of Actuaries in Africa, Crowne Plaza Hotel, Nairobi-Kenya, November 2-4, 2011
- (v) First Kenyatta University International Mathematics Conference, 2011, Kenyatta University Conference Centre, Nairobi, Kenya, June 8-10, 2011
www.ku.ac.ke/mathsconference/images/.../maths_conference_2011.pdf
- (vi) The Stakeholders Workshop on External Peer Review of Higher Education Institutions and Programmes, held at Kenya School of Monetary Studies, Nairobi, Kenya, 24th -25th ,March, 2011.
- (vii) International Congress of Mathematicians, Hyderabad , India, August 19-27, 2010
www.icm2010.org.in/.../registered-participants-countrywise-list?q.
- (viii) Stakeholders' Workshop on External Peer Review of Universities, Kenya School of Monetary Studies, Nairobi, Kenya, March 24-25, 2011
- (ix) 1st East African Regional Scientific Conference of Pure and Applied Sciences, Kenyatta University, Nairobi, Kenya, August 10-14 , 2010
- (x) Curriculum Development Workshop for Bachelor of Science (Military Studies), North Coast Beach Hotel, Mombasa, April 1-4, 2010
- (xi) Public Procurement Workshop, Kenyatta University Conference Centre, Nairobi, Kenya, April 11, 2008
- (xii) Transformative Leadership for Rapid Results Initiative: A Programme for Senior Management Staff of Kenyatta University, Kenya School of Monetary Studies, Nairobi, Kenya, October 4-6, 2007.
- (xiii) 2nd African Regional Congress of the International Commission on Mathematical Instruction – AFRICME 2, Catholic University of Eastern Africa, Nairobi, Kenya, May 23-26, 2007
- (xiv) HIV/AIDS Mainstreaming Workshop –School of Pure and Applied Sciences, Utalii College Nairobi, Kenya, April 4, 2007.
- (xv) Kenyatta University Senior Management Workshop held at The Traveler's Beach Hotel, Mombasa, May 3-6, 2006.
- (xvi) 5th Symposium on Training and Research on PAMO (PAMOSTR) Held in Nairobi at The Kenya Institute of Education, April 10-15, 2006
- (xvii) International Conference on Transformation on Higher Education Management and Leadership for Efficacy in Africa, Kenyatta University, Kenya, November, 12-16, 2001.
- (xviii) Rapid Assessment and Response, Injecting Drug Use in Nairobi, Workshop at USIU-A, October 19-24, 2000.

- (xiv) Career Improvement Workshop in Mathematics and Computer Science, Department of Mathematics, University of Nairobi, Chiromo Campus, February 28-March 3, 2000.
- (xv) Recent Development in Statistical Inference, a Symposium in honour of V.P. Godambe, University of Waterloo, CANADA, August 14-16, 1991.
- (xvi) Curriculum Review, Department of Mathematics, Kakamega Golf Hotel, December, 1996.
- (xvii) Kenyatta University Examinations Coordinators Seminar, Hotel Kunste, Nakuru, Kenya, June 2-3, 1995.
- (xviii) Seminar in the Department of Statistics, University of Manitoba, CANADA, **presented a paper** "*On Estimation of a Functional of a Probability Density Function* ", February 25, 1993.
- (xix) First Symposium in Mathematics and Mathematics Education for Eastern and Central Africa, Duduville, Nairobi, Kenya, May, 1981

VII COMMITTEE MEMBERSHIP AND OTHER RESPONSIBILITIES AT KENYATTA UNIVERSITY

- (i) Member of Organizing Committee, The Third Kenyatta University International Mathematics Conference , 2019.
- (ii)
- (iii) Chairman, School of Pure and Applied Sciences Research and Travel Grants Committee, 2017-present
- (iv) Member of Organizing Committee, The Second Kenyatta University International Mathematics Conference , 2015.
- (v) Member of Organizing Committee, First Kenyatta University Workshop on Mathematical Modelling, 2013.
- (vi) Member of School of Pure and Applied Sciences Research Grants and Travel Grants Committee, 2016- present
- (vii) Member of School of Pure and Applied Sciences Strategic Plan Committee, 2011-present
- (viii) **Chairman**, Regional Organizing committee, First Kenyatta University International Mathematics Conference, June, 2011.
- (ix) Member of Executive Board, School of Pure and Applied Sciences, 22nd July, 2005- August, 2009
- (x) Member of SPAS, Academic Board, July 19th 2005- August, 2009
- (xi) Member of Faculty of Science and SPAS, Examinations Committee,
June 2000 –July 19th 2005.
- (xii) Member, Board of Examiners, Board of Postgraduate Studies, Kenyatta University, 2002-200
- (x) Departmental Representative to Appraisal and Promotion Committee, 2002 –July 16th 2005.
- (xi) Chairman, Dean, School of Pure and Applied Sciences Ad-hoc Committee on Curriculum Proposal for a Second Teaching Subject for B.ED. (Home Economics)

Students, 29th June, 2004-31st July, 2004

VIII ACADEMIC PROGRAMMES INITIATED AND ESTABLISHED

- (i) Development of B.Sc. (Actuarial Science), Department of Mathematics, Kenyatta University, 2011.
- (ii) Development of B.Sc. (Statistics and Programming), Department of Mathematics, Kenyatta University, 2009.
- (iii) Development of M.Sc. (Biostatistics), Department of Mathematics, Kenyatta University, 2008.
- (iv) Development of Bridging Course in Mathematics Kenyatta University, March, 2004
- (v) Pre-University Mathematics, Institute for Continuing Education Kenyatta University, developed PU-1 Mathematics I and PU-2 Mathematics II, 2002

IX POSTGRADUATE TEACHING AND SUPERVISION

(a) Postgraduate Teaching-Courses Taught

Nonparametric Inference
Multivariate Analysis
Theory of Estimation
Discrete Multivariate Analysis
Contingency Tables Analysis
Hypothesis Testing
Non Parametric Regression Analysis
Survival and Clinical Data Analysis
Non Parametric Methods

(b) Supervision -Completed

(i) PhD Supervision- Department of Mathematics

Ph.D (4)

(ii) MSc Supervision-Completed

M.Sc (25)

(iii) Supervision -Other Departments

M.Ed (Special Education)- 2 times

(iv) Supervision-Ongoing

(1) Ms Mutua Beth Mutanu

Thesis Title: *Effects of Response Errors in Estimation of Variance in Adaptive Sampling in Elusive Surveys*, PhD,

Department of Statistics and Actuarial Science, Kenyatta University.

(2) John Kung'u

Thesis Title: *Likelihood Based Approach and Bayesian Inference to Zero-Inflated Ordered Categorical Time Series with an Application in International Conflict*, PhD,

Department of Statistics and Actuarial Science, Kenyatta University.

(c) **Projects/Thesis Examinations at Kenyatta University**

M.Sc, (Always)

X CURRENT RESEARCH PROJECTS

- (i) Prediction Distribution and predictive limits for Birnbaum-Saunders distribution
- (ii) Inference based on order statistics
- (iii) Laplace Approximation in Bayesian Estimation.
- (iv) Quantile Autoregression and Financial Risk Management
- (v) Inference on Reparameterized Birnbaum-Saunders Distribution with Censored Samples

XI MANAGEMENT AND ADMINISTRATIVE DUTIES (LEADERSHIP)

Chairman, Department of Mathematics, Kenyatta University, July 19th , 2005-10TH August, 2009 (4 years)

Ag. Dean, School of Pure and Applied Sciences, (4 times between March to May, 2008)

Examinations Coordinator, Department of Mathematics, Kenyatta University, June 27th 1994 -1st December, 2004 (10 years 6 months)

Departmental Coordinator for Open Learning Activities, 18th August, 2004 –July, 2005 (11 months)

Departmental Coordinator, Bridging Course in Mathematics, Kenyatta University, 13th May, 2004-6th August, 2004

XII COMMUNITY SERVICES OR PROFESSIONAL SKILLS

(i) Outreach Projects

(e.g. Project titles, institutions and communities involved)

1. The prevention of substance abuse among Secondary School students in Nairobi, Kenya, OSREA, 17th, Social Science Competition, Feb, 2005

(ii) Professional Services Performed

(e.g. courses presented, lectures at professional associations/clubs, radio, TV appearances, outside expert or appointment committee, etc)

1. **.Addressed** African Statistics Day Workshop (Celebrations) at KICC on 18th November, 2009 as the Chairman of Kenya National Statistical Society (KNSS)
2. **Addressed** African Statistics Day Workshop(Celebrations) at KICC Amphi-Theater on 18th November, 2008 as the Chairman of Kenya National Statistical Society (KNSS)

(iii) Involvement with other universities/scientific institutions

(e.g. external examiner, editor of journal, advisory committee)

1. **Evaluation and Review** Proposed Curriculum for the Bachelor of Actuarial Science and Bachelor of Science in Mathematics(for Commission for Higher Education (3 Programmes) 2010.
2. **Evaluation and Review** Proposed Curriculum for the Bachelor of Actuarial Science, Bachelor of Science in Mathematics , Bachelor of Economics and Statistics(for Commission for University Education ; 2014- 2018
3. **Subject Expert of the Review Panel for Diploma in Applied Statistics Programme of University of Namibia** (for National Commission for Higher Education – **Namibia** 5-7 March 2018)
4. **Interim Chairman**, Kenya National Statistical Society (KNSS) June, 2008- November, 2012
<http://books.google.co.ke/books?id=wgiTOUcE21UC&pg=PA141&lpg=PA141&dq=leo+>

<http://isi-web.org/statsoc/nsslist>

5. Member, Kenya National Statistical Society (KNSS). Membership number: **KNSS-00011**.
6. **Treasurer**, Mathematics Association of Kenya (MAK)
7. Member, The Statistics and Probability African Society.
<http://univi.net/spas/cva.php?email=odongo.leo@ku.ac.ke>

(a) External Examining

I External Examiner-Theses

Ph.D (20)
M.Sc (30)

II Internal Examiner-Other Department in Kenyatta University

Ph.D., Department of Environmental Science, 2008

III External Examiner-Examinations Processes

- (i) The University of Zambia (2012/2013, 2014/2015)
- (ii) University of Nairobi, CEES (2014/2015)
- (iii) Jomo Kenyatta University of Agriculture and Technology, M.Sc. in Research Methods, (2010/2011, 2011/2012)
- (ii) University of Nairobi, School of Mathematics (2005/2006, 2006/2007, 2007/2008, 2009/2010, 2017/2018, 2018/2019).
- (iii) Maseno University (2010/2011, 2011/2012, 2013/2014, 2014/2015)
- (iv) Karatina University College(2011/2012, 2013/2014, 2014/2015)
- (v) Mount Kenya University (2014/2015, 2015/2016)

(b) Editor of a journal

1. Kenya National Academy of Science
www.knascience
2. East African Journal of Statistics, Jomo Kenyatta University of agriculture and Technology (**ISSN 1811:7503**)
Editor
www.ajol.info/index.php/eajosta
3. Chilean Journal of Statistics (**ISSN 0718-7912** Print version, **ISSN 0718-7920** online version)-
Associate Editor. 2011-2015
Website: <http://chjs.soche.cl/>
4. Horizon Research Publishing, Member of Editorial Board of Computational Research .
Website: www.hrpub.org/journals/jour_info.php?id=38

(c) **Moderation of Examinations**

5. Examiner, The Institute of Trade Standards Administration (ITSA)-Advanced Examination Part I(Statistics), 2008
6. Moderator, The Institute of Trade Standards Administration (ITSA)-Advanced Examination (Statistics), 2003
7. Moderator, Mathematics papers (Diploma and Higher National Diploma), Kenya Technical Teachers College, 1995-Present

(d) **Advisory Committee**

- **Honorary Chairman**, Kenya Bureau of Standards(KBS), Technical Committee on Application of Statistics, July 5th, 2001-January 2004
- **Patron**, Kenyatta University Mathematics Club, 2006 -2009
- **Patron**, Kenyatta University Statistics Club, 2012-present.

XIII EDITORIAL BOARD MEMBERSHIP/ REFEREING

Reviewer:

- Journal of Advances in Mathematics and Computer Science(ISSN: 2456-9968)-(1 time)
African Journal of Pure & Applied Sciences- KU(1 time)
Journal of Agriculture Science and Technology- JKUAT (**ISSN: 1561-7645**) -(13 times)

East African Journal of Science, Kenyatta University (**ISSN: 1029-3221**)-(1 time)

East African Journal of Statistics, JKUAT (**ISN: 1811-7503**)-(7 times)
Chilean Journal of Statistics-(1 time)

Kenya Journal of Science (KJS)-(4 times)

Stochastic Environmental Research and Risk Assessment (SERRA) – (1 time)

Chiang Mai Journal of Science(1 time)
Pakistan Journal of Statistics(1 time)
`1 Statistics in Transition-(1 time)

Papers\Books refereed:

- (i) IGI Global(formerly Idea Group Inc.) Publishing
Emerging Methods in Predictive Analytics: Risk Management and Decision Making
Editorial Advisory Board (Member) 2012/2013
<http://www.igi-global.com/publish>
- (iv) S.M. Uppal, R.O. Otieno, H.M.Humphreys *Introduction to Probability and Statistics*, JKUAT Press Limited, 2005, ISBN:9966-923-95-0

XIV PROJECT/RESEARCH COLLABORATION

- (i) Mentoring African Research in Mathematics (MARM). Under the auspices of African Millennium Mathematics and Science Initiative (AMMSI) Funded by the Nuffield Foundation and the Leverhulme Trust in Collaboration with Prof. Enrico Rogora of the University of Rome, Department of Mathematics, ple A. Moro 5, 00185, ROMA.
<http://www.lms.ac.uk/content/marm-projects>
- (ii) Collaboration with Linkoping University, Sweden (visited Linkoping University 27th September, 2010 to 1st October, 2010 to discuss collaboration)

- (iii) Mobile Telephone Diagnostic Tests Application for Tuberculosis suspects, Nyanza Province, Kenya. Collaboration with Kenya Medical Research Institute (KEMRI), Protocol number: **2562**. Sponsors: Grand Challenges Canada and Kenya Medical Research Institute. November 1, 2012 (the “Start Date”) ongoing for 18 months

XV ACADEMIC REFEREES

1. Prof. Romanus Odhiambo
Department of Statistics and Actuarial Science
Jomo Kenyatta University of Agriculture and Technology
P.O. Box 62000-00200, Nairobi
2. Prof. David M. Malonza
Department of Mathematics
Kenyatta University,
P.O. Box 43844, Nairobi
3. Prof Dankit K. Nassiuma
P. O. Box 4117-20100, Nakuru