

DR. CHRISTOPHER OUMA ONYANGO, MSc, PhD.

CURRICULUM VITAE

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I. Personal Information

Current Professional Rank: Lecturer

Current Address: C/o Statistics and Actuarial Science Department
Box 83844, 00100, Nairobi, Kenya

Permanent Address: P.O. Box 32, Segwa, Kenya.

II. Educational Background

Year	Qualification	Institution
2009-2011:	Doctor of Philosophy, PhD. (Applied Statistics, 2011).	Jomo Kenyatta University of Agriculture and Technology (J.K.U.A.T)
<i>Thesis title:</i>	<i>'Model based estimation of finite population totals in two stage cluster sampling.'</i>	
2003-2005:	Master of Science (Applied Statistics, 2005)	Maseno University, Kisumu, Kenya.
<i>Thesis Title:</i>	<i>'Bootstrap confidence intervals for model based surveys.'</i>	
1995-1999:	Bachelor of Science, BSc Mathematics- (First Class Hons, 1999)	Kenyatta University, Nairobi, Kenya.
1990-1993:	K.C.S.E, 1993	Rang'ala Boys' Secondary, Siaya, Kenya

Research Interest: Sample Surveys and mathematical Biology

Undergraduate Teaching experience

I have held the following undergraduate teaching positions since the year 2005.

Period	Position
Jan 2005-Dec 2007,	<ul style="list-style-type: none">• Part time Lecturer Kenya College of Accountancy , Kisumu Campus• Part time lecturer Nairobi University-Kisumu Campus

- Sept 2008- Dec 2009
 - Lecturer, KCA University
 - Part time Assistant lecturer- Strathmore University

- Jan 2010- Jan 2011.
 - Assistant lecturer- Strathmore University

- Feb 2011 to date.
 - Lecturer - Kenyatta University
 - Part time lecturer – Strathmore university Center for Research in Applied Mathematical sciences (CARMS)

IV. Graduate Teaching Experience

I have taught in the following programmes at Kenyatta University since the year 2011

Programme	University	Units taught
Masters of Science in Statistics MSc (Statistics)	Kenyatta University	<ul style="list-style-type: none"> ✓ Sample survey Theory ✓ Multivariate Analysis ✓ Theory of estimation ✓ Stochastic Processes
Master of Science in Biostatistics	Kenyatta University	<ul style="list-style-type: none"> ✓ Statistical Inference ✓ Survey Methods
Masters of Science in Social Statistics MSc (Statistics)	Kenyatta University	<ul style="list-style-type: none"> ✓ Sample survey Theory ✓ Multivariate Methods ✓ Theory of estimation ✓ Stochastic Processes

V. University Management Appointments.

June 2011-Present day: Chairman Board of Post Graduate Studies, Mathematics Department-
Kenyatta University

May 2008 to August, 2009: Deputy Director Research and Extensions, KCA University

January, 2008-May, 2008: Deputy Registrar- Planning, KCA University.

August 2007-Dec 2007: Ag. Centre Director, Kenya College of Accountancy, (K.C.A)
Kisumu Campus

Jan 2006- Dec 2006: Head of JKUAT Programmes, KCA Kisumu, Kenya

VI. Academic Publications

1. Ouma C. & Wafula C. (2005). *Bootstrap confidence intervals for model based surveys*. East Africa Journal of Statistics. 1,1.
2. Ouma C., Odhiambo R., Orwa, G., (2010). *Robust confidence intervals for model based surveys in two stage cluster sampling*. Pakistan journal of theoretical statistics Vol 2-2 pp83-97.
3. Ouma C., Odhiambo R., Orwa, G., (2010). *Inference of population total in two stage cluster sampling with unequal cluster sizes*. Far East Journal of Statistics. Pushpa publishing house. Vol 2-2 pp 182-197.
4. Oyoo D., & Ouma, C., (2014). *Estimation of Population Total in the Presence of Missing Values Using a Modified Murthy's Estimator and the Weight Adjustment Technique*. American Journal of Applied Mathematics and Statistics, 2014, Vol. 2, No. 3, 163-167.
5. Bii , K., & Ouma, C., *Model-Assisted Estimation of Population Mean In Two- Stage Cluster Sampling* Journal of Statistical and Econometric Methods. Science press Ltd

VII. Unpublished work.

1. Determination of stochastic derivative pricing using Horvitz-Thompson Estimator
2. Non parametric regression Estimator of the ratio estimator in the presence of missing values
3. Modelling of relationship between disclosure and clinical response of HIV patients

Graduate supervision and thesis Examination.

I have successfully supervised 3 Msc in mathematical Statistics projects, 5 Msc in Social Statistics and 2 Msc. In Biostatistics projects all have graduated. Currently I am supervising three MSc in Statistics students' projects also. I am also currently supervising 2 PhD students in Mathematical Statistics both at Kenyatta University.

I have examined 1 PhD Thesis and 4 Masters Thesis.

VIII Past membership of University Boards/Committees (June 2008-August 2009)

- (i) Member, KCA University Senate
- (ii) Member, KCA University Research and Extensions Committee
- (iii) Member, KCA University Deans' Committee
- (iv) Member, KCA University Staff Appointments and Promotions Committee,