

## CURRICULUM VITAE

NAME: Rose Adhiambo Nyikal

OCCUPATION: Agricultural Economist / Senior Lecturer

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ACADEMIC QUALIFICATIONS: BSc Agriculture (Hons) - 1980  
MSc Agricultural Economics - 1990  
PhD Agricultural Economics - 2000

### OTHER COURSES ATTENDED

**May 1993 – July 1993 (8 weeks):** Agricultural Sector Projects Planning and Appraisal, conducted in Nairobi by the African Development Bank and the Economic Development Institute of the World Bank.

**July 1984 - September 1984 (8 weeks):** Monitoring and Evaluation of Public Sector Projects and Programmes, conducted at the School of Development Studies of the University of East Anglia, United Kingdom.

**July 2007 – September 2007 (12 weeks):** Environmental Impact Assessment and Audit, at the Jomo Kenyatta University of Agriculture and Technology, Kenya.

**May 2008 and July 2008 (5 weeks):** International Training Programme on Education for Sustainable Development, Sweden (Chalmers, Uppsala and Gothenburg Universities), and South Africa (Rhodes University)

### MANAGEMENT / TASK ENHANCING COURSES / WORKSHOPS / SEMINARS

1. A Regional Facilitators' Training Course on Skills of Delivery, organized by AICAD and JICA, 4<sup>th</sup> to 8<sup>th</sup> August 2003
2. An In-house Training Programme on Financial Management and Human Resource Management for Chairmen of Departments of the University of Nairobi: 2<sup>nd</sup> to 4<sup>th</sup> February 2006
3. The Workshop on the Training of Chief Internal Examiners: 13<sup>th</sup> to 14<sup>th</sup> July 2006
4. Seminar on Results-based management: 4<sup>th</sup> to 5<sup>th</sup> April 2007

### WORK EXPERIENCE

**August 1980 to April 1981:** Crop Production Extension Officer in South Nyanza District

**May 1981 – February 1983:** Agricultural Officer, based in Industrial Crops Branch of the Ministry of Agriculture headquarters, handling policy issues of industrial crops

**March 1983 to November 1984:** Agricultural Officer, based in Planning Division of the Ministry of Agriculture headquarters, in charge of Projects register, for Monitoring and Evaluation

**December 1984 to September 1987:** Farm Management Extension Officer, Kisii District, and coordinator Kisii Valleybottom Integrated Development Project from June 1986 to September 1987, alongside Farm Management duties

**April 1991 to 28 October 1992:** Assistant Lecturer of Agricultural Economics

**29 October 1992 to 26 October 2007:** Lecturer of Agricultural Economics

**27 October 2007 to Date:** Senior Lecturer of Agricultural Economics

Subject preferences:

- Production Economics
- Rural and Microfinance
- Principles of Farm Management
- Rural Development and Agricultural Policy
- Operations Research
- Mathematics for Economists
- Managerial Economics
- Issues in Agricultural and Applied Economics

**MSc Research Work supervised / under supervision:**

- (i) The effect of using animal traction on farm efficiency and household labour allocation on smallholder farms in Kenya – Paul Maina - (*graduated - 2004*)
- (ii) A Social Economic Analysis of Preferences of Fodder Legumes and Information Flow Among Farmers: a case of *Desmodium* and *Calliandra* in Central Kenya – Judith Sinja – (*graduated 2006*)
- (iii) Economic Optimization of Integrated Soil Fertility Management Strategies for Maize-based Production Systems: A Case Study of Smallholder Farm Typologies in Central Kenya – John Macharia - (*graduated - 2006*)
- (iv) Towards integrated soil fertility management: risk efficiency of selected smallholder systems of Central Kenya – Freda Maina – (*graduated - 2008*)
- (v) Beekeepers’ participation in group-based financial institutions and adoption of improved technologies in Arid and Semi-Arid Lands: a case of Makueni district – Otieno Peter Shimon – (*graduated 2007*)
- (vi) An evaluation of the role of social capital in smallholder farmers’ market access and income: evidence from pigeon pea farmers in eastern Kenya – Stella Wambugu – (*graduated 2008*)
- (vii) Determination of optimal farm plans for Ishiara / Gathigi irrigation scheme of Mbeere District, Kenya – Francis Kitoo (*graduated 2008*)
- (viii) Determinants of the adoption of conservation tillage practices and their implications on profitability in maize-cowpeas cropping system – a case of Makueni District - Jane Mutune (*completed: awaiting examination - 2009*)
- (ix) Effect of maize price volatility on enterprise mix selection and maize production patterns of small holders: a case of Makueni district - Meshack Mutevu (*dormant*)

- (x) Determination of use for certified maize seeds and the relative importance of transaction costs in moist transitional maize zones in Kenya: a case of Embu District - Bernard Gathigi (*current*)
- (xi) An economic analysis of trader preferences for quality attributes along the pigeon pea value chain in Kenya: a case of Coastal Kenya urban markets – Zipora Otieno (*current*)
- (xii) An Analysis of access to and efficiency of financing mechanisms in compliance to EUREPGAP standards among smallholder farmers – Elossy Kangai (*current*)

**Ph.D. Research Work under supervision:**

A member of the advisory team for Esther Njuguna’s PhD research titled: “An evaluation of farmer adoption choice of stem borer / striga management technologies in Western Kenya” [with Prof. Mbogoh, Dr. Karugia, Dr Khan (ICRPE), Dr. Amudavi (ICRPE)] (*completed, work under examination*)

**MSc Research Work examined:**

- (i) Adoption of improved maize production technologies among smallholder farmers in semi-arid zones of Kenya: the case of improved seeds and inorganic fertilizers in Machakos district *Nzuma*
- (ii) The potential impact of improved maize seeds and fertilizers on food security and incomes of smallholder farmers in the Mumias Sugar Scheme *Manyengo*
- (iii) Economic evaluation of green pigeon pea marketing channels and the impact of transaction costs: a case study of Makueni district. *Murage*
- (iv) Gender and dissemination of improved fodder trees: the case of *Calliandra calothyrsus* in Embu District, Kenya. *Wanyoike*
- (v) Economic Optimization of Integrated Soil Fertility Management Strategies for Maize-based Production Systems: A Case Study of Smallholder Farm Typologies in Central Kenya *Macharia*
- (vi) Women access to land and its effect on their small scale agricultural productivity: a case study of maize production in Machakos district. *Karienyeh*
- (vii) Determinants of Adoption of Improved Wheat Varieties and Fertilizer Use by Smallholder Farmers in Nakuru and Nyeri Districts. *Phylis Njane - External Examination for Egerton University*
- (viii) Determination of optimal farm plans for Ishiara / Gathigi irrigation scheme of Mbeere District, Kenya – *Kitoo*
- (ix) Determinants of the adoption of conservation tillage practices and their implications on profitability in maize-cowpeas cropping system – a case of Makueni District *Mutune*

**Other Assignments:**

- (i) Current Chairman of the Department of Agricultural Economics, University of Nairobi
- (ii) February 2004 – date: Member of the Academic Board of the Collaborative Masters program in Agricultural and Applied Economics in Eastern, Central and Southern Africa
- (iii) 2006-2007: Member of the Task force on Establishment of Agricultural Information and Communication Management Programme (TEAP), an initiative of ASARECA-RAIN. The curricula on AICM now launched in two universities.

## PUBLICATIONS

### Journal Papers

**Nyikal R. A.** and C. Ackello-Ogutu "An Evaluation of Institutional Credit and Its Role in Agricultural Production in Kenya," in *Agricultural Policies and Food Security in Eastern and Southern Africa*. Mukhebi, A.W. *et al*, eds. 1996. SD Publication Series, USAID

J. Sinja, J. Karugia, M. Waithaka, D. Miano, I. Baltenweck, S. Franzel, **R. Nyikal**, & D. Romney. "Adoption of fodder legumes technology through farmer-to-farmer extension approach" *Uganda Journal of Agricultural Sciences*, 2004, 9: 222-226

**Nyikal R. A.** and W. Olouch-Kosura "Risk Preference and Optimal Crop Combinations in Kahuro Division of Murang'a District, Kenya" *Agricultural Economics* 32 (2005) 131-140

P. M. Guthiga, J. T. Karugia, and **R. A. Nyikal** "Does use of draft animal power increase economic efficiency of smallholder farms in Kenya?" *Renewable Agriculture and Food systems*: 22(0): 1-7(2007)

### Book Chapters

**Nyikal, R** Chapter 23 – Analytical Skills in Agribusiness, in *Agribusiness: a Source Book for Agribusiness Training*. Graduate Readings Vol. 4 Part I. CJ van Rooyen, OT Doyer, F Bostyn and L D'Hease eds. 2004

Kimani, SK, Macharia, JM, **Nyikal, R**, Bationo, A., and Ramish, J. 2007. Evaluation of organic and mineral sources of nutrients in central Kenya. In: *Mineral Versus Organic Fertilization conflict or Synergism?* Proceedings. 16<sup>th</sup> International Symposium of the International Scientific Centre of Fertilizers (CIEC), 16-19 September 2007, Ghent, Belgium. S. De Neve, J. Salomez, A. Van Den Bosshe, S. Haneklaus, O. Van Cleemput, G. Hofman and E. Schnug (Eds.) pp 276-280.

### Conference Papers

**R. A. Nyikal** "Business in the Small Farms: the Challenge for Kenyan Smallholders". Contributed paper, *African Crop Science Society Conference, Nairobi, Kenya, November 2003*

**Nyikal, R. A.** "Globalization of the Food and Agricultural Economy: Kenya's prospects at a glance". Contributed paper, *African Crop Science Society Conference, Entebbe, Uganda, December 2005*

Macharia J. M., S. K. Kimani, **R. A. Nyikal** and J Ramisch. "Economic evaluation of organic and inorganic resources for recapitalizing soil fertility in smallholder maize-based cropping systems of central Kenya". A poster paper presented at the 26<sup>th</sup> *Conference of the International Association of Agricultural Economists*, Gold Coast, Australia, August 2006

Karugia J T, W O Kosura, **R. A. Nyikal**, M O Odumbe and P P Marenya. “Access to Land, Income Diversification and Poverty Reduction in Rural Kenya”. A contributed paper presented at the 26<sup>th</sup> *Conference of the International Association of Agricultural Economists*, Gold Coast, Australia, August 2006

**R. A. Nyikal** “Financing smallholder agricultural production in Kenya: production for the market as a gauge of effective demand for credit” *Contributed paper for the second African Association of Agricultural Economists’ Conference in Ghana in August 2007*

Peter Shimon Otieno, **R. A. Nyikal** and Fred Inuani Mugivane “Non-credit services of group-based financial institutions: implications for smallholder women honey income in arid and semi-arid lands of Kenya” *Contributed paper for the second African Association of Agricultural Economists’ Conference in Ghana in August 2007*

### **Research Reports**

A gender differentiated analysis of the profitability and constraints in use of Improved Fallow in Western Kenya. RESEARCH sponsored by ECAPAPA 2005-06. Cost: US\$9980 (*completed 2006, report sent to ECAPAPA*)

### **CURRENT RESEARCH INTEREST AND ACTIVITIES**

Agricultural water-use efficiency through adoption of improved organic manures and conservation agriculture practices for crop production at farm level in semi-arid eastern Kenya (2006-2009) KAPP CGS collaboration

Integrated Dairy and Horticulture for Improved Livelihoods in Wundanyi Division, Taita-Taveta District (June 2007-June 2009) *Irish Aid*

Livelihoods under climate variability and change: strengthening the adaptive capacity of rural poor to water scarcity in Kenya’s drylands (ACCCA)

### **CONSULTANCIES**

- (i) 1997, 1998, 1999, 2000, and 2001: Participation in Africa Training Course (United Nations Centre for Regional Development -UNCRD) on Local and Regional Development Planning and Management, as a course Assistant on Project Planning, Management and Evaluation.
- (ii) UNCRD Lecturer: Monitoring and Evaluation – 2003, 2004, 2005, 2006, 2007
- (iii) Network participant in Institutional University Co-operation between the Flemish Inter-university Council and a number of universities in Eastern and Southern Africa. Contributed *A Note on Analytical Skills in Agribusiness in Graduate Readings Vol. 4 Agribusiness*
- (iv) African Institute for Capacity Development (AICAD) Lectures:
  - a. Credit and Micro-finance for Irrigation Projects - January 2003
  - b. Agriculture as an Enterprise and Viable Enterprise Selection - January 2004.
  - c. Planning the Farm Business - November 2004, December 2005, February 2007, March 2008
- (v) April 2007: Review of the Tea Industry Task-Force report. Tea Board of Kenya

### **Community Service**

A member of the Kenya Professional Association of Women in Agriculture and Environment (KEPAWAE): Chairperson from November 2004 to November 2006. Prepared a proposal for an Environmental Management Project, funded by Ford Foundation, 2005-2007

### PROFESSIONAL ASSOCIATIONS

1. International Association of Agricultural Economists
2. African Association of Agricultural Economists (2007-10 eastern Africa representative)
3. African Crop Science Society
4. International Food and Agribusiness Management Association
5. International Association of Agricultural Information Specialists

### REFEREES:

1. Prof. W. O. Kosura, [Willis.Kosura@aercafrica.org](mailto:Willis.Kosura@aercafrica.org)  
Dept. of Agricultural Economics  
University of Nairobi  
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2. Prof. S. G. Mbogoh, [steve2008sgm@yahoo.com](mailto:steve2008sgm@yahoo.com)  
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3. Prof. C. Ackello-Ogutu, [ackello@accesskenya.co.ke](mailto:ackello@accesskenya.co.ke)  
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