

# CURRICULUM VITAE

**RICHARD M. MULWA, Ph.D.**

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## Office Address:

University of Nairobi  
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## OBJECTIVES

- To develop a career in resource economics and management; agricultural and environmental economics and policy; and climate change research with competence, accountability and professionalism
- Help disseminate research findings in my areas of specialization for improvement of livelihoods of the relevant stakeholders

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## PROFILE

- Self-motivated, result-oriented person who believes in meeting set objectives
- Ability to adapt well to different situations and environments
- Team player

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## PERSONAL DETAILS

Sex:	Male
Date of birth:	27 <sup>th</sup> October, 1974
Marital status:	Married with two kids
Nationality:	Kenyan
Languages:	English, Kiswahili, Kamba and German

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## ACADEMIC QUALIFICATIONS

**2003-2006: *Ph.D. in Agricultural Economics***

Major—Environmental and Natural Resource Economics

Minor—Non-parametric Methods of Analysis

**University:** Justus-Liebig University of Giessen- Germany

**Thesis Topic:** Economic and Environmental Performance of Sugarcane Production in Kenya: Non-Parametric Frontier Approaches

**1999-2001:** *Master of Arts in Economics*

**University:** University of Nairobi- Kenya

**Thesis Topic:** Technical Efficiency in Sugar Processing: What difference have Structural Adjustment Programmes made in Mumias Sugar Company?

**1994-1998:** *Bachelor of Science Agriculture* (Agricultural Economics option)

**University:** University of Nairobi- Kenya

**Honors:** 2<sup>nd</sup> Class honours upper division

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## WORK EXPERIENCE

**Jan 2013- Date:** Centre for Advanced Studies in Environmental and Law and Policy (CASELAP), *University of Nairobi*

**Designation:** Senior Lecturer

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**June 2011- Jan 2013:** Centre for Advanced Studies in Environmental and Law and Policy (CASELAP), *University of Nairobi*

**Designation:** Lecturer

**Roles:** Teaching natural optimization of benefits in utilization of environmental resources; economics of environmental governance, environmental valuation and political economy of natural resources management.

Supervision of M.A. and Ph.D. students

Research and outreach

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**Oct. 2008- June 2011:** Department of Agricultural Economics, *University of Nairobi*

**Designation:** Lecturer

**Roles:** Teaching, supervision, research and outreach

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**May 2007- Oct. 2008:** Socio-Economics and Biometrics Division: Kenya Agricultural Research Institute

**Designation:** Senior Research Economist

**Roles:** Conducting surveys and writing reports in areas of:

- Baseline surveys and adoption studies
  - Impact assessment studies
  - Policy analysis
  - Efficiency and productivity analysis
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**Oct. 2006- May 2007:** Food and Agriculture Organization (FAO) of the United Nations (UN) in Rome: Natural Resources and Environment Division (NRR)

**Designation:** Post doctorate

**Roles**

- Review literature on Research and Development Expenditure in Sub-Saharan Africa
  - Collect current data on Research and Development Expenditure in Sub-Saharan Africa
  - Build a database of the collected data
  - Analyze the data to determine the trends of R&D expenditure
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**2002-2007:** Socio-Economics and Biometrics Division: Kenya Agricultural Research Institute

**Designation:** Research Officer I

**Roles:** Conducting surveys and writing reports in areas of:

- Baseline surveys and adoption studies

- Impact assessment studies
  - Policy analysis
  - Efficiency and productivity analysis
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## RESEARCH INTERESTS

- Natural Resource Economics
  - Environmental and Ecological Economics
  - Climate Change
  - Efficiency and Productivity Analysis
  - Index Number Approaches
  - Dynamic Optimization
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## PUBLICATIONS

### 1. Peer Reviewed Journal Articles

Khoshroo, A. **Mulwa, R.**, Emrouznejad, A. and Arabi, B. (2013): A non-parametric Data Envelopment Analysis approach for improving energy efficiency of grape production, *Energy*, 63: 189-194.

**Mulwa, R.** and Emrouznejad A. (2013): Measuring Productive Efficiency Using Nerlovian Profit Efficiency Indicator and Meta-Frontier Analysis. *Operations Research: International Journal*, 13(2): 271-287

**Mulwa, R.**, Wafula, D., Karembu, M. and Waithaka M. (2013): Estimating the Potential Economic Benefits of Adopting Bt Cotton in Selected COMESA Countries. *AgBioForum*, 16(1): 14-26.

**Mulwa, R.**, Emrouznejad A., and E-A. Nuppenau. (2012): An overview of Total Factor Productivity estimations adjusted for pollutant outputs: an application to sugarcane farming. *International Journal of Environmental Technology Management*, 15 (1): 1-15.

- Adolwa, I. S., Okoth, P. F., **Mulwa, R. M.**, Esilaba, A. O., Mairura, F. S. and Nambiro E. (2012): Analysis of Communication and Dissemination Channels Influencing the Adoption of Integrated Soil Fertility Management in Western Kenya, *The Journal of Agricultural Education and Extension*, 18(1): 71-86
- Michelson, H., Lentz, E. C., **Mulwa, R.**, Morey, M., Cramer, L., McGlinchy, M. and Barrett, C. B. (2012): Cash, food, or vouchers? An application of the Market Information and Food Insecurity Response Analysis Framework (MIFIRA) in urban and rural Kenya, *Food Security*, 4: 455-469.
- Mulwa, R.**, Emrouznejad A. and L. Muhammad (2009): Economic Efficiency of Smallholder Maize Producers in Western Kenya: A DEA Meta-Frontier Analysis, *International Journal of Operational Research*, 4(3): 250-267.
- Mulwa, R.**, Murithi, F.M. and A. Emrouznejad (2009): Impact of Liberalization on Efficiency and Productivity of Sugar Industry in Kenya, *Journal of Economic Studies*, 36 (3): 250-264.

## 2. Book Chapters/ Discussion Papers

- Khoshroo, A. and **Mulwa, R.** (in Press): Improving Energy Efficiency of Walnut Production using Data Envelopment Analysis Approach, In (Emrouznejad, A. and Cabanda, E. eds.), *Managing Service Productivity*.
- Mulwa, R.** (in press): Non-parametric Estimation of Environmental Efficiency Using Data Envelopment Analysis and Free Disposable Hull, In (Osman, I. H., Anouze, A.L. and Emrouznejad, A. eds.) *Strategic Measurement and Management Performance using Data Envelopment Analysis: Theory and Applications*, IGI Global, Hershey PA, USA.
- Nzuma, J. M, Waithaka, M., **Mulwa, M. R.**, Kyotalimye, M. and Nelson, G. (2010): Strategies for Adapting to Climate change in Rural sub-Saharan Africa, *IFPRI Discussion Paper 01013*, IFPRI.
- Mulwa, R.**, Nuppenau E-A and S. Bauer (2007): 'Economic Efficiency of Sugarcane Production in Kenya: A DEA Meta-frontier Approach,' In (Bauer, S. and L. Karki Eds.), *Issues and Challenges in Rural Development: A Compendium of Approaches for*

*Socio-Economic and Ecological Development in Developing Countries*, Vol. 1. Margraf Publishers, ISBN 978-3-8236-1502-6: Pp. 195-208.

Budjorova, E. and **Mulwa, R.** (2007): 'Technical Efficiency of Cotton Production in Uzbekistan,' In (Knierim, A., Nagel, U. J. and C. Shaefer Eds.), *Managing Economic, Social and Biological Transformations: Proceedings of the First Green Week Scientific Conference*. Margraf Publishers. ISBN 978-3-8236-1499-9: Pp 116-121.

### 3. Ph.D. Thesis

**Mulwa, M. R.** (2006): *Economic and Environmental Performance of Sugarcane Production in Kenya: Non-Parametric Frontier Approaches*, Farming and Rural System Economics, Volume 84, Margraf-Verlag Publishers, Weikersheim, Germany. ISBN: 978-3-8236-1495-1.

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## SELECTED CONSULTANCIES AND PROJECTS

**ASARECA:** Harmonization of Cassava and Potato Quality Standards in ECA Using the Value Chain Approach

**KILIMO TRUST:** Re-drafting Cassava, Beans, Coffee, Honey value chain reports

**RABESA/IFPRI:** *Ex-ante* Impact Assessment of Adopting Genetically Modified Insect Resistant (Bt) Maize and Cotton in Selected COMESA Member Countries

**AgMIP** (Agricultural Model Intercomparison and Improvement Project): Regional Climate change in SSA

**RUFORUM:** Performance and Adoption of Soil Conservation Practices as Climate Change Adaptation Strategies in Semi-Arid Districts of Uganda and Kenya

**Cornell University:** Market Information and Food Insecurity Response Analysis (MIFIRA) Framework

**ASARECA:** Collating climate data sets, assessing status of inclusion of adaptation strategies in national policy documents and reviewing the relevance of the

Millennium Ecosystem Assessment Scenarios for climate change adaptation research in the ASARECA member countries

**ASARECA:** Potential Welfare Impacts of Adopting Quality Standards on Cassava Value Chain in East African Community

**ICRISAT:** Feasibility of Using Sweet Sorghum as a Feedstock for Bioethanol Production

**CIMMYT:** Baseline and Community surveys on Adoption and Impact of Drought Tolerant Maize for Africa (DTMA)

**ICRISAT:** Adoption and Commercialization of Improved Sorghum and Millet Varieties in Eastern and Central Africa: Constraints, Opportunities and Policy

**OCIR-THE: Rwanda:** Feasibility study and Business Plan for Gatare Tea Development Project.

**OCIR-THE: Rwanda:** Feasibility study and Business Plan for Mushubi Tea Development Project

**FAO:** Ex-ante socio-economic impact assessment (ESEPIA): Training participants from different government ministries on ex-ante socio-economic impact assessment (ESEPIA) using the value chains approach. This involved collecting and analysing data on sugar, cotton, dairy and mango value chains in Kenya

**ILRI/USAID:** Impact assessment of maize farmers under ACIDI/VOCA project: Assessing the impact of maize farmers under ACIDI/VOCA projects in several districts in Kenya

**FAO:** Food and agriculture policy decision analysis (FADPA): Collecting data on the policy decision undertaken by Kenya on areas of food security since 2008

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## COMPUTER PROFICIENCY

### 1. MS-Office

### 2. Analytical Packages

- SPSS
- STATA
- E-Views

- R
- DREAM
- SimulAr
- LIMDEP
- Frontier version 4.1
- Generalized Algebraic Modelling System (GAMS)
- DEAP version 2.1

## AWARDS

- **2006:** German Academic Exchange Programme (DAAD)
- **Award:** The Carlo Schmidt Award
- **Description:** This is a prestigious international Award administered through DAAD and is given to highly qualified university graduates to work in the United Nations or International Institutions in the European Union. The aim is to expose the recipients to international management. I was awarded the award to do a post doctorate in FAO of the UN in Rome.

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## OTHER RESPONSIBILITIES

**2006:** Justus-Liebig University International Ph.D. Program on "*Agricultural Economics and Related Sciences*"

**Designation:** Recruiting Manager

### Roles

- Organizing appropriate Information Platforms in relevant institutions in Kenya
- Acting as an Adviser and resource person to interested students for all details and responding to questions concerning the program
- Providing Preliminary evaluation report about qualification and personal integrity of applicants from Kenya
- Help in the organization of field studies for students during data collection
- Help in the organization of alumni activities with former students in Kenya, specifically workshops, summer schools and inter-country seminars



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## **HOBBIES**

Traveling

History and General Reading

Watching Movies

Country Music and Playing Guitar

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## **REFEREES**

PROF. DR. ERNST-AUGUST NUPPENAU

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