

ANTHONY MWANGI MACHARIA, PHD

ORCID: 0000-0002-3389-5694



Position: *Research Scientist II (Forest Environmental Economics)*

1. PERSONAL INFORMATION

- 1.1. **NAME:** ANTHONY MWANGI MACHARIA, PHD
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- 1.5. **NATIONALITY:** KENYAN
- 1.6. **GENDER:** MALE

2. QUALIFICATIONS

2.1. Academic Qualifications

- 2015 – 2019:** PhD., Agricultural and Applied Economics, Texas Tech University, Lubbock, Texas, USA
- 2010 – 2013:** MSc. Agricultural and Applied Economics, Egerton University, Njoro, Kenya
- 2006-2010:** BSc. Agricultural Economics, Egerton University, Njoro, Kenya
- 2001-2004:** Kenya Certificate of Secondary Education, Lenana School, Nairobi

2.2. Key Competencies

- Scientific data analysis using Excel, Stata, SPSS and R software

2.3. Other Courses

April 2018 – June 2018: Certificate in Monitoring and Evaluation Leadership in Learning, Washington State University, USA

3. EMPLOYMENT HISTORY

1st December 2020 – Present: Research Scientist, Forest/ Environmental Economics, Kenya Forestry Research Institute (KEFRI), Nairobi

Responsibilities

- Identification, conceptualization, formulation, development, implementation, designing and monitoring of multi-disciplinary research projects/ programmes in forest/ environmental economics.
- Collection, management, and analysis of economic data on forest enterprises and markets
- Integrate economics and market research to forestry research and development processes.
- Producing/ publishing technical reports, extension materials, conference papers, policy papers and briefs, as well as scientific papers in forest/ environmental economics
- Conduct research on value chain assessment in the forestry sector, Forestry based bio-enterprises development, Ecosystem services Valuation, Forest sector policies among other areas.

May 2020 – October 2020: Consultant at CPHRM Group, Nairobi, Kenya

Responsibilities:

- Support the development and execution of an agribusiness incubation strategy, training, coaching, and mentorship program (Enable youth, Kenya).
- Responsible for the delivery of the agribusiness mentorship program
- Provide high-quality coaching and advisory support to entrepreneurs.
- Provide ongoing strategic analysis of CPHRM's Business Development efforts to inform strong decision-making and planning
- Carrying out donor research, tracking and monitoring of donor trends, priorities, funding, and pipelines/upcoming opportunities.

- Establish and execute a winning capture strategy, establishing partnerships, and shaping new business opportunities to match company capabilities and experience.

- Support the implementation of CPHRM brand and marketing strategy

June 2019 – November 30th, 2020: Socio economist and Partner at Clarion Economic Consulting, Nairobi, Kenya

Responsibilities

- project monitoring and evaluation
- Design of computer aided personalized interviews (CAPI) using Kobo toolbox, ODK and SurveyCto

January 2020 -October 30th, 2020: Part-Time Lecturer at Chuka University, Chuka, Kenya

Responsibilities

- Teaching Microeconomic Theory (AGEC 801) and Quantitative analysis of Agricultural Policy (AGEC 934) to MSc. and PhD, students, respectively.
- Setting, moderating , administering, processing, and marking exams

August 2015- December 2019: Graduate Research Assistant at Texas Tech University, Lubbock, Texas

Responsibilities

- Conduct research on the interactions between irrigation technologies and smallholder food security in Kenya, grant proposal writing and developing research papers for publication

2013- November 30th, 2020: Part-Time Lecturer

Institution: Egerton University, Njoro, Kenya

Responsibilities

- Teaching Principles of Microeconomics, Managerial Accounting, Agricultural Production Economics, Agricultural Finance, Agricultural Price Analysis and Principles of Farm Management to BSc. Students.
- Setting, moderating , administering, processing, and marking exams
- Academic advising and Mentoring of Undergraduate Students
- Supervising undergraduate students in research activities

April 2015- August 2015: Part-Time Lecturer at Karatina University, Karatina, Kenya

Responsibilities

- Teaching Econometrics, Principles of Microeconomics, and Introduction to Managerial Accounting to BSc. Students
- Setting, moderating , administering, processing, and marking exams
- Academic advising and Mentoring of Undergraduate Students

January 2014-May 2015: Part-Time Lecturer at University of Kabianga, Kericho, Kenya

Responsibilities

- Teaching Econometrics, Principles of Microeconomics, Introduction to Managerial Accounting, Economics seminars, Agricultural Policy and Law among others to BSc. Students
- Setting, moderating , administering, processing, and marking exams
- Academic advising and Mentoring Undergraduate Students

April 2013-August 2013: Research Assistant, Genetic Improvement of Small Indigenous East African Zebu Cattle Project at Egerton University, Laikipia University and KALRO Kiboko, Kenya

Responsibilities

- Design of the survey instrument (Questionnaire)
- Training of enumerators on the administration of the Questionnaire
- Coordinating Primary Data Collection in Makueni County, Kenya
- Data analysis
- Report writing and presenting Key findings to the farmers

January 2013-April 2013: Research Assistant at Tegemeo Institute of Agricultural Policy and Development, Nairobi

Responsibilities

- Sampling of smallholder farmers to be involved in a baseline survey between August and December 2013
- Distribution of Western Hybrid Striga Resistant maize seed to smallholder farmers in Western and Nyanza regions, Kenya
- Training smallholder farmers on crop rotation, record keeping and financial management

September 2012- December 2012: Agribusiness Trainer at Afribusiness Development Company, Nairobi

Responsibilities

- Training of BAT and Alliance One Tobacco Farmers on Good Agricultural Practices, Financial Management, Safe use of chemicals, Child labour and Environmental Health and Safety

4. ADMINSTRATIVE RESPONSIBILITY

5. PUBLICATIONS

5.1. Journal papers

- Carlos E. Carpio, Oscar Sarasty, Darren Hudson, Anthony Macharia & Mumina Shibia (2021) The demand for a COVID-19 vaccine in Kenya, Human Vaccines & Immunotherapeutic, DOI: 10.1080/21645515.2021.1938494
- Macharia, A. M., & Mwangi, L. W. (2020). Determinants of smallholder maize farmers' choice of selling point: A case of Kwanza District, Trans-Nzoia County, Kenya. *Journal of economics and sustainable development*, 147-151.
- Macharia, M. A., Mshenga, P. M., & M Ngigi, O. E. (2014). Effect of transaction costs on smallholder maize market participation: Case of Kwanza District, Trans Nzoia County, Kenya. *International Journal of Development and Sustainability*, 715-725.
- Harrison, K., Benjamin, M. K., Lawrence, K. K., Patrick, K. R., & Anthony, M. (2016). Determinants of tea marketing channel choice and sales intensity among smallholder farmers in Kericho District, Kenya. *Journal of Economics and Sustainable Development*, 105-114.
- Kiprop, J. K., Lagat, J. K., Mshenga, P., & Macharia, M. A. (2015). Determining the Economic Value of Irrigation Water in Kerio Valley Basin (Kenya) by Residual Value Method. *Journal of Economics and Sustainable Development*, 102-107.
- Kiprop, J., Mulungu, K., Kibet, N., & Macharia, A. (2017). Determinants of Smallholder Farmers' Willingness to Pay for irrigation water in Kerio Valley Basin, Kenya. *Journal of Sustainable Development*, 135-142.

5.2. Books

5.3. Book Chapter

5.4. Technical Notes /Protocols/Guidelines

5.5. Policy Briefs

6. RESEARCH

6.1. Completed

6.2. Ongoing research

6.3. Mentorship and supervision

2018-2020: Supervised MSc. Student, Stanley Were Onyimbo (KM15/13533/14 – Egerton University) “Adoption and effect of integrated pest management strategy for the suppression of mango fruit flies on household welfare in selected counties of Kenya

7. INNOVATIONS AND PATENTS (Intellectual Property)

8. CONFERENCES/SEMINARS/WORKSHOPS

8.1. Presentation of Papers at Academic and Professional Conferences

Macharia, A. M., & Carpio, C. (2018). Heterogeneity in irrigation technology impacts: Implication for adoption. *2018 Agricultural and Applied Economics Association Annual meeting*. Washington D.C, U.S.A: Agricultural and Applied Economics Association.

Macharia, A. M., Carpio, C. E., & Kirimi, L. (2018). Effect of irrigation technology adoption on smallholder common bean productivity in Kenya. *Southern Agricultural Economics Association 2018 annual meeting*. Jacksonville, Florida: Southern Agricultural Economics Association.

8.2. Participation in Workshops/Conferences

8.3. Convening/Coordinating Conferences

9. PROFESSIONAL ENGAGEMENT

9.1. Training

9.2. Consultancies

9.3. Collaboration with external organizations

10. EXTERNAL AND INTERNAL RESEARCH GRANTS

11. LOCAL, REGIONAL & INTERNATIONAL APPOINTMENTS

11.1. Local

11.2. Regional

11.3. International

12. AWARDS AND RECOGNITION

August 2015: My proposal on the “*adoption of irrigation technology to improve smallholder food security in Kenya*” was selected for a USAID/ BHEARD Feed the Future scholarship to undertake PhD. In Agricultural and Applied Economics at Texas Tech University, Lubbock, Texas

13. CONTRIBUTION TO KEFRI's ADVANCEMENT

14. MEMBERSHIP TO PROFESSIONAL BODIES

- American Agricultural Economics Association (AAEA), USA
- Southern Agricultural Economics Association (SAEA), USA
- Agricultural and Applied Economics Graduate Student Association (AEGSA), Texas Tech University, Lubbock, Texas, USA.

15. REFEREES

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