

CURRICULUM VITAE

1. **Proposed role in the project:** International Expert
2. **Category:** Senior
3. **Staff of (name of firm):** International Center for Tropical Agriculture (CIAT)
4. **Family name:** Mwongera
5. **First names:** Caroline Mugambi
6. **Nationality:** Kenyan
7. **Place of Residence:** Nairobi, Kenya

8. Education:

Institution [Date from - Date to]	
09/2008 – 12/2012	Ph.D. Biology (with honors), Montpellier SupAgro, France
09/2003 – 03/2006	M.Sc. Seed Science & Technology, Moi University, Kenya

9. Language skills: Indicate competence on a scale of 1 to 5 (1 - excellent; 5 - basic)

Language	Reading	Speaking	Writing
English	1	1	1
Swahili	1	1	1
Kimeru	1	1	1
French	4	4	4

12. **Membership of professional bodies:** The Soil Science Society of America (Member since 2015), Crop Science Society of America (Member since 2015), Agronomy Society of America (Member since 2015), International Association for Impact Assessment (Member since 2017)
13. **Other skills:** Microsoft Excel, PowerPoint, Word, Access; R statistical environment, Environmental Impact Assessment, Participatory Rural Appraisal
14. **Present position:** Scientist, Farming Systems & Climate Change
15. **Years within the firm:** Six years

16. Key qualifications:

- More than 10 years of experience as an agricultural researcher and research leader in the fields of food security, climate resilience, farming systems research, climate adaptation, seed systems, and climate smart agriculture.
- Wide-ranging experience working in, and leading multidisciplinary projects and teams in an international research environment.
- Extensive evaluation of strategies for adapting to climate risks in smallholder farming systems, harnessing the power of science and technology to generate agricultural innovations for climate-smart food systems that meet Africa's most pressing challenges.
- Skilled in Farming systems analysis, Climate Risk Assessment, Climate Smart Agriculture (CSA), Climate Change impact assessment, Climate adaptation planning, Food security analysis, Field experimentation, Trade-offs analysis, Gender-responsive research, Participatory approaches, GIS analysis & mapping, Quantitative and Qualitative research methods, Proposal development, scientific writing, Data dissemination, and delivering workshops.

17. Specific experience in the region:

Country	Date from - Date to		
Comoros	2017-2018	Senegal	2018 -
Kenya	2007 -	Zambia	2018-
Nigeria	2017 -2019	Tanzania	2014-2019
Rwanda	2017 -2019	Uganda	2014-2019

18. Professional experience

Date from - Date to	Location	Company	Position	Description
01/2016 - Present	Nairobi, Kenya	Alliance of Bioversity International and International Center for Tropical Agriculture (CIAT)	Global Theme Lead, Policies and Institutions for Climate Action	<ul style="list-style-type: none"> Lead the Adaptation and Valorization of Entrepreneurship in Irrigated Agriculture (AVENIR) Project in Senegal Client: Global Affairs Canada Provided technical leadership in the evaluation of the results and impacts of various climate change-related projects, implemented in 15 countries in West Africa: Benin, Burkina Faso, Cameroon, Chad, Cote d'Ivoire, The Gambia, Ghana, Guinea, Liberia, Mali, Niger, Nigeria, Senegal, Sierra Leone, and Togo. Provided technical leadership in developing the methodology for prioritizing climate smart options and adaptation planning in the county CSA profiles project for Kenya. Client: The World Bank Provided work stream and field team leadership in the design of Climate Risk Profiles for 31 Counties. Client: Government of Kenya Prioritized climate-smart agriculture practices in Western Kenya. Conducted capacity building workshops for national researchers and technicians on Climate Smart value chains Client: German Federal Ministry for Economic Cooperation and Development (BMZ) / Deutsche Gesellschaft fuer Internationale Zusammenarbeit (GIZ) Climate Risk Assessment for Selected Value Chains in Rwanda Client: Rwanda Agriculture Board Climate vulnerability Assessment for Selected Value Chains for the E-SAPP Programme in Zambia Client: Ministry of Agriculture, Zambia

02/2014 – 12/2015	Nairobi, Kenya	International Center for Tropical Agriculture (CIAT)	Post-Doctoral Scientist	<ul style="list-style-type: none"> Developed the Social Environment and Climate Assessment Procedures (SECAP) Review Note for the Comoros project Led the climate risk assessments in Rwanda and Comoros, analysing the potential impacts of projected climate change on the selected value chains and recommendations on how to manage the climate risks in the projects Developed climate change adaptation plans for Comoros Lead the Increasing food security and farming system resilience in East Africa through wide-scale adoption of climate-smart agricultural practices Project in Tanzania and Uganda <p>Client: International Fund for Agriculture Development (IFAD)</p> <ul style="list-style-type: none"> Policy Action for Climate Change Adaptation in Uganda and Tanzania <p>Client: CGIAR Climate Change Agriculture and Food Security (CCAFS)</p>
09/2008 – 12/2012	Nairobi, Kenya	International Crop Research Institute for the Semi-Arid Tropics (ICRISAT)	Research Scholar	<ul style="list-style-type: none"> Project on Predictability of the Climatic Information for Reducing Tropical Agriculture Vulnerability (PICREVAT) in Kenya Implemented research activities both on-station and on-farm to determine local sorghum varietal agro morphological and phenological attributes in Kenya Designed and carried out eco-ethnographic surveys on crop diversity, farmers' crop management and adaptation to climate variability; Conducted yield estimation trials on farmers' fields; Executed project management & reporting; Supervised field assistants and technical staff; Liaised with partners and administrative staff <p>Client: CIRAD</p>
01/2007 – 09/2008	Nairobi, Kenya	International Crop Research Institute for the Semi-Arid Tropics (ICRISAT)	Research Associate	<ul style="list-style-type: none"> Project on Environmental Risk Assessment of Genetically Engineered Sorghum in Kenya <p>Client: USAID Biotechnology Biodiversity Interface grant</p> <ul style="list-style-type: none"> Led Eco-geographic survey to determine distribution of wild, weedy and cultivated Sorghum bicolor (L.) Moench; Conducted GIS surveys of sorghum distribution; Implemented household and a market surveys in Kenya <p>Client: CIRAD</p>

19. **Other relevant information** (e.g., Publications): Currently more than 70 publications, a selection is provided below. Full list available at Google Scholar – Dr. Caroline Mwongera

- A. GeoFarmer: A monitoring and feedback system for agricultural development projects. Computers and electronics in agriculture Journal. Eitzinger, A., Cock, J., Atzmanstorfer, K., Binder, C.R., Läderach, P., Bonilla-Findji, O., Bartling, M., Mwongera, C., Zurita, L., and Jarvis, A. 2019.
- B. Determinants of Adoption of Climate-Smart Agriculture Technologies at Farm Plot Level: An Assessment from Southern Tanzania. Book Chapter. CM Mwungu, C Mwongera, K Shikuku, M Acosta, P Läderach. Springer. 2018.
- C. Nine ways to make agriculture more climate-smart. Briefs. Mwongera, C. Läderach, P., Acosta, M., Ampaire. E., Eitzinger, A., Lamanna, C., Mwungu, C., Shikuku, K., Twyman, J., Winowiecki, L. 2017. International Center for Tropical Agriculture (CIAT). Cali. Colombia. <http://hdl.handle.net/10568/89092>
- D. Smallholder farmers' attitudes and determinants of adaptation to climate risks in East Africa. Climate Risk Management Journal. Kelvin M Shikuku, Leigh Winowiecki, Jennifer Twyman, Anton Eitzinger, Juan G Perez, Caroline Mwongera, Peter Läderach. 2017.
- E. Prioritizing climate-smart livestock technologies in rural Tanzania: A minimum data approach. Agricultural Systems Journal. Shikuku Kelvin, Valdivia, Roberto, Paul, Birthe, Mwongera Caroline. 2017.
- F. Climate smart agriculture rapid appraisal (CSA-RA): A tool for prioritizing context-specific climate smart agriculture technologies. Agricultural Systems Journal. Caroline Mwongera, Kelvin Shikuku, Jennifer Twyman, Peter Läderach... 2017.
- G. Ethnographic context and spatial coherence of climate indicators for farming communities – A multi-regional comparative assessment. Climate Risk Management Journal. Vincent Moron, Joseph Boyard-Micheau, Pierre Camberli, Valeria Hernandez, Christian Leclerc, Caroline Mwongera.... 2015.
- H. Social Process of Adaptation to Environmental Changes: How Eastern African Societies Intervene between Crops and Climate. Weather, Climate and Society. Mwongera, C., J. Boyard-Micheau, C. Baron, and Leclerc, C. 2014.
- I. Climatic gradients along the windward slopes of Mount Kenya and their implication for crop risks. Part 1: climate variability. International Journal of Climatology. Pierre Camberlin, Joseph Boyard-Micheau, Nathalie Philippon, Christian Baron, Christian Leclerc and Caroline Mwongera. 2014.