



CURRICULUM VITAE

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EDUCATION

Ph.D. in Agricultural Sciences (Development Economics) 2010- 2013	Center for Development Research (ZEF), Department of Economics and Technical Change (ZEF b) University of Bonn, Germany. • <i>Major:</i> Development Economics - <i>Sehr gut</i> (Very good) • Including 6 months of course work in Development Economics, and Econometrics Courses & 1-year fieldwork in Kenya • <i>Dissertation: Commercialization of Smallholder Horticultural Farming in Kenya: Poverty, Gender, and Institutional Arrangements</i> https://www.peterlang.com/document/1048600
Masters in Agricultural and Applied Economics (CMAAE): Sep 2005-April 2008	Egerton University, Kenya, Department of Agricultural Economics and Agribusiness Management • Including 2 semesters of coursework at Egerton University, Kenya, and 1 semester majoring in Agribusiness Management at the Department of Agricultural Economics, University of Pretoria, South Africa • <i>Thesis: Compliance with International food safety standards: Determinants, costs and implications of EurepGap standards on profitability among smallholders' horticultural exporters in Kenya</i> https://www.amazon.co.uk/Compliance-International-food-safety-standards/dp/3838399498
Bachelor of Science in Agricultural Economics Aug 2000- April 2005	Egerton University, Kenya, Department of Agricultural Economics and Agribusiness Management • Graduated with <i>first-class honors</i> • <i>Research project: Potato value-chain analysis in Nyandarua District.</i>

WEBLINKS

Researchgate: [Rgate](#)

Google Scholar: [Gscholar](#)

ORCID Account: [ORCID](#)

ACHIEVEMENTS

Scientific excellence	• Research publication in ~40 publications • 38 peer-reviewed articles • Structural Transformation of African Agricultural and Rural Spaces (STAARS), Partnership for Economic Policy (PEP) Capacity building fellowship award • Science by Women: Programme for Women, Science, Technology, and Innovation in Africa award
Resource mobilization	• ~20 successful proposals from various sources including European Union (EU), Biovision Foundation, German Academic Exchange Service, African Development Bank, Fiat Panis Foundation, Bioinnovate, GIZ/BMZ Germany, USAID, International Development Research Centre (IDRC), National Research Fund (NRF)
Capacity building	• Supervised and trained ~15 MSc students and 4 Ph.D. students • Trained several enumerators and supervisors to conduct household and community-level surveys for various projects; and BSc. and Msc. interns various skills in economics concepts used in agricultural development.
Current job description	I contribute to gender integration and socio-economic research across projects focused on animal, plant, human and environmental health at <i>icipe</i> . My work involves designing and implementing gender-responsive socio-economic studies, developing impact and policy indicators for monitoring and evaluation, and conducting both <i>ex-ante</i> and <i>ex-post</i> adoption and impact assessments. I support resource mobilization efforts for technology adoption and impact initiatives, and cultivate strategic partnerships with researchers, government agencies, academic institutions, and development organizations engaged in agricultural research and policy. My approach applies diverse methodologies, including gender-disaggregated household and community surveys (utilizing women's empowerment tools), development and execution of monitoring and evaluation frameworks, and preparation of technical reports, policy briefs, and stakeholder-oriented communication products. Additionally, I strengthen capacity within project teams by mentoring junior researchers and students, with a focus on delivering results in gender integration, technology adoption, and impact assessment.

PROFESSIONAL EXPERIENCE

Research Scientist, Gender and Impact Assessment Expert 2025- to date	Integrated Data and Analytics Platform (IDAP), International Centre of Insect Physiology and Ecology (ICIPE), Nairobi, Kenya • Lead gender and socio-economic research to generate evidence for inclusive, resilient agri-food systems and insect-related sectors. • Design and implement gender-responsive surveys and develop inclusive monitoring, evaluation, and impact indicators. • Apply mixed methods to assess technology adoption and gender-differentiated impacts. • Integrate gender and socio-economic components into projects and programmes while supporting resource mobilization and proposal development. • Build capacity by mentoring MSc/PhD students and early-career researchers in gender and socio-economic analysis. • Establish and manage strategic partnerships with research, government, and development stakeholders. • Disseminate research through publications, policy briefs, and stakeholder engagement to inform policy and practice. • Support administrative and coordination functions within the IDAP Platform.
Research Scientist, Socio-economist, 2019- 2024	Social Science and Impact Assessment Unit (SSIU), International Centre of Insect Physiology and Ecology (ICIPE), Nairobi, Kenya • Lead and participate in designing and implementing of icipe research projects and programmes • Conducting social, economic, and gender-related studies with the project team as required. • Design and implement <i>ex-ante</i>, <i>mid-term</i>, and <i>ex-post</i> evaluations of projects • Using excellent qualitative or quantitative skills, design data collection and its analysis • Coordinate with different projects to share knowledge and best practice for impact evaluation • Fundraising/proposal development • Research publications and other communications • Supervise students & interns
Post- doctoral Fellow, Feb 2014- 2018	Social Science and Impact Assessment Unit (SSIU), International Centre of Insect Physiology and Ecology (ICIPE), Nairobi, Kenya • Participate in designing and implementing of icipe research projects and programmes • Conducting social, economic, and gender-related studies with the project team as required. • Design and implement <i>ex-ante</i>, <i>mid-term</i>, and <i>ex-post</i> evaluations of projects • Using excellent qualitative or quantitative skills, design data collection and its analysis • Coordinate with different projects to share knowledge and best practice for impact evaluation • Fundraising/proposal development • Research publications and other communications • Supervise students & interns
Junior Researcher/ Ph.D. fellow Aug 2010- Dec 2013	Center for Development Research (ZEF b), Bonn, Germany • Fundraising/proposal development • Project design (budgeting, developing gender-focused survey tools), and implementation/field survey • Writing a dissertation, working papers, policy briefs, reports, and other technical write-ups. • Publication, dissemination, and communicating research findings (conference and workshop presentations)
Agricultural Economist, research Assistant. Feb 2009- July 2010	International Livestock Research Institute (ILRI), Nairobi, Kenya • Project design (survey design – baseline, mid-term and end-line; survey tools) • Implementation of data collection (sampling and survey supervision) • Data analysis and writing technical, policy, and institutional reports and publications. • Identifying research gaps and project interventions

Monitoring and Evaluation (M&E) Officer: June 2008-Jan 2009	Ministry of Agriculture, Kangundo District, Kenya - Monitoring the feasibility of the projects to the target population. - Monitoring the efficiency of the current projects - Evaluating the achievements of the ongoing projects. - Providing guidelines for the planning of future projects. - Developing work plans and budgets for various agricultural projects and programmes. - Data collection, analysis, and report writing
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Junior Research and Extension officer, July 2007-May 2008	Agricultural Sector Coordination Unit (ASCU), Kilimo House, Nairobi, Kenya - Formulating and reviewing agricultural sector policies. - Guiding and monitoring the Strategy of Revitalizing Agriculture (SRA) - Preparing work plans, budgets, and investment plans. - Data collection, analysis, and report writing - Organizing stakeholder's consultative forums/ meetings
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Country experience: Kenya, Uganda, Rwanda, Tanzania & Zanzibar, Ethiopia, Zambia, Malawi, South Africa, Mauritius, Germany (3.5 years) & Spain (3 months)

FELLOWSHIPS, AWARDS, AND PRIZES THAT SHOW RECOGNITION OF SCHOLARLY ACHIEVEMENTS

Gender Responsive Agriculture Systems Policy (GRASP) Fellowship, 2022 AWARD Policy Fellow 2022	African Women in Agricultural Research and Development (AWARD), Nairobi, Kenya
Fellowship on "Science by Women: Programme For Women, Science, Technology, and Innovation in Africa" http://www.mujiresporafrika.es/en/content/science-women-2017 , offered by Programa Women for Africa Foundation (Fundacion Mujeres por Africa, FMxA). 2018	Barcelona School of Economics, Barcelona, Spain
Structural Transformation of African Agricultural and Rural Spaces (STAARS), Partnership for Economic Policy (PEP) Capacity building fellowship award 2017	Partnership for Economic Policy (PEP), Nairobi, Kenya
Post-doctoral Fellowship by the Department for International Development (DFID) 2016- 2017	International Centre for Insect Physiology and Ecology (ICIPE)
Overall Best Paper-Case Study Competition , presented during the 4th International Conference of the African Association of Agricultural Economists (4th ICAAE), 22-25 September 2013, Hammamet, Tunisia, 2013	Secretariat African Association of Agricultural Economists, Nairobi, Kenya
Ph.D. research grants from Fiat Panis Foundation, 2011	Center for Development Research (ZEF), Germany,
German Academic Exchange Service (DAAD) scholarship for Ph.D. studies 2010	Center for Development Research (ZEF), Germany
MSc. research Grant 2006	USAID through the African Economic Research Consortium (AERC)
MSc Course Work Scholarship at Egerton University, 2005	Higher Education Loans Board, Nairobi, Kenya

SELECTED PROFESSIONAL COURSES

Doctoral Supervision at African Universities July- September 2020	Dialogue on Innovative Higher Education Strategies Programme (DIES) , Centre for Research on Evaluation, Science, and Technology (CREST), Stellenbosch University, South Africa
Measuring Women's Empowerment in Agriculture- Application of Women's Empowerment in Agriculture Index (WEAI), Project Level-WEAI, and Women's Empowerment in Livestock Index (WELI) May 2019	International Food Policy Research Institute (IFPRI) , Makerere University, and International Livestock Research Institute (ILRI)
Master Class in Communicating Research to Stakeholders March 2015	The Crawford Fund
The Challenges of Global Poverty Feb - May 2013	Massachusetts Institute of Technology (MIT), USA

Monitoring and Evaluation

Kenya Institute of Administration, Nairobi, Kenya

June 2008

Theoretical and Practical “Participatory Rural Appraisal (PRA)” Training (Skills acquired; Rural development, Community Simulation, Development of Community Action Plan (CAP), and Participatory Monitoring and Evaluation),
April 2005

Egerton University, Kenya

AWARD’s Women’s Leadership and Management Course (WLMC)
2020

African Women in Agricultural Research and Development (AWARD), Nairobi, Kenya

SELECTED SHORT-TERM PROFESSIONAL SERVICES

2018- date	Trainer for icipe’s African Regional Postgraduate Programme in Insect Science (ARPPIS) students on “Gender Responsiveness in Agricultural Research and Development.
2018	Chair and organizer of the Interdisciplinary Biological Control: Socio-Economic Impacts of Biological Control session for The First International Congress of Biological Control May 14-16, 2018 Beijing
2026	Member of the Local Organising Committee (LOC) and Chair of the Scientific Sub-Committee of the 8th African Conference of Agricultural Economists (ACAE), September 22–25, 2026, in Nairobi .

MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS AND SOCIETIES

- African Association of Agricultural Economists (AAAE) www.aaae-africa.org
- International Association of Agricultural Economists (IAAE) www.iaae-agecon.org
- European Association of Agricultural Economists (EAAE) <http://www.eaae.org/>
- Agricultural Economics Society (AES) <http://aes.ac.uk>
- **Editorial Board Member** of the African Journal of Agricultural and Resource Economics (AFJARE) <http://afjare.org/editorial-board/>

STUDENTS UNDER SUPERVISION & OTHER CAPACITY-BUILDING ACTIVITIES*MSC STUDENTS*

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| MS1. | Miyinzi C. (Msc) [Kenya, Male] Assessment of Health and Environmental Effects of Mango Integrated Fruit Fly Management Strategy in Meru County, Kenya. Moi University, Kenya [Graduated in December 2017], |
| MS2. | Nyangau P. N. (Msc) [Kenya, Male]. Impact of Mango Fruit Fly Integrated Pest Management Technology on Food Security Among Smallholders in Machakos County, Kenya. University of Nairobi, Kenya (Graduated 2018). |
| MS3. | Gitahi D. W. (Msc) [Kenya, Female]. Evaluation of Knowledge, Perceptions, and Practices of Managing Citrus Pests and Diseases and the Willingness to Pay for an Integrated Pest Management Strategy in Selected Counties in Kenya. Egerton University, Kenya (Graduated 2019). |
| MS4. | Wangithi C. M. (Msc) [Kenya, Female]. Ex- Ante Economic Impact Assessment of The Integrated Citrus Pests and Diseases Management Interventions in Selected Counties, Kenya. Egerton University, Kenya (Graduated 2019) |
| MS5. | Githiomi C. (Msc) [Kenya, Female]. Economic analysis of spillover effects of Integrated Pest Management (IPM) strategy for suppression of mango fruit flies in Meru County, Kenya. University of Nairobi, Kenya (Grduated 2019) |
| MS6. | Gichungi H. M. (Msc) [Kenya, Female]. Assessment of Impact of Integrated Pest Management Technology for Control of Mango Fruit Flies on Gender Roles Among Smallholder Mango Producers in Machakos County. University of Nairobi, Kenya (Graduated 2021). |
| MS7. | Baraka B. K. (Msc) [Kenya, Male]. Assessment of Magnitudes of Transaction Costs and their Effect on Smallholder Farmer Profitability in Rural-Urban Vegetable Supply Chains: The case of Nairobi. University of Nairobi, Kenya (Graduated 2019) |
| MS8. | Caroline Bisieri (Msc) [Kenya, Female]. Knowledge, Attitude and Ex-ante Adoption Of Integrated Pest And Pollination Management (IPPM) Innovation Among Avocado And Cucurbit Growers In Kenya. University of Nairobi [Graduated, 2019] |

- MS9. Arnold Musungu [Msc] [Kenya, Male]: An Assessment of Desired Attributes and Enabling Factors for Integrating Community-Owned Resource Persons in Trypanosomiasis Control in Kwale County, Kenya. University of Nairobi, Kenya (Graduated 2020)
- MS10. Stephie Mwangi (Msc) [Kenya, Female]. Economic Assessment of Training and the use of integrated fruit fly management strategy among mango farmers in Elegeyo Marakwet, Kenya. Egerton University, Kenya (Graduated 2021)
- MS11. Francis Ogutu (Msc) [Kenya, Male]. Assessment of the economic feasibility of commercializing a fungal based biopesticide for management of tomato leaf miner (*Tuta absoluta*) by the private sector in Kenya. Egerton University, Kenya [Graduated]
- MS12. Fridah Chepchirchir. Evaluation of the knowledge, attitude, and potential adoption of integrated pest management for the management of *Tuta absoluta* among tomato growers in Kenya and Uganda. Egerton University, Kenya [Graduated, 2024]
- MS13. Evariste N. Karenzo (Msc)[Rwanda, Male]. Impact assessment of Socioeconomic and market effects of proposed push-pull technology innovations on farmers in Rwanda: a case study of Gatsibo District. University of Rwanda, Kigali [Completed 2023]
- MS14. Mwaba Muleba (Msc) [Zambia, Female]. A gendered assessment of Mango Value Chains in Malawi, Mozambique, Zambia, and Zimbabwe. University of Zambia, [ongoing].
- MS15. Winnie Nguru (Msc) [Kenya, Female]. A social network analysis of knowledge diffusion of integrated sustainable production of tomatoes in Kirinyaga and Narok Counties, Kenya. University of Nairobi, Kenya (Ongoing)
- MS16. Adim Adim Paulino (Msc) [Sudan, Male]. Ex-Ante Economic Analysis Of Entomopathogenic Nematodes For Biological Management of Fall Armyworm In Maize Farming in Kenya. University of Nairobi, Kenya (Ongoing).
- MS17. Anthony Kaphamtengo (Msc) [Malawi, Male]: Gender Disparities in Adoption and Maize Productivity Outcomes of Agroecological Innovations for Fall Armyworm Control In Malawi: Evidence From Push–Pull Technology and Biopesticides. Lilongwe University of Agriculture and Natural Resources, Malawi (Ongoing).
- MS18. Stephen Sergon (Msc) [Sudan, Male]: Adoption of Integrated Pest Management Technologies and their Impact on Women Empowerment Among Mango Farmers in Zambia. University of Nairobi, Kenya (Ongoing).

Ph.D. students

- PD1. Denis Waiswa ((Ph.D.) [Uganda, Male]. Push-Pull Technology Adoption Across The East African Region: Farmer Perspectives, Decision-Making Dynamics, And Socioeconomic Impacts. Atatürk University [Graduated, 2025]
- PD2. Yohane Chimbalanga (PhD) [Malawi, Male]. Socioeconomic and Gender dased Impact Assessment of IPM Technology on Mango Value Chain in Malawi. University of Pretoria [ongoing]
- PD3. Kavengi Kitonga (Ph.D.) [Kenya, Female]. The Role of Integrated Tsetse and Tick Management Control Strategies in Enhancing Smallholder Livestock Farmer Welfare in Kenya. University of Nairobi [ongoing]
- PD4. Milka Maina (Ph.D) (Kenya, Female). Impact of the Adoption of Agroforestry Innovations on the Environment and Household Welfare in East and West Africa. Wageningen University, Netherlands (Ongoing)
- PD5. Teresia Wamwangombe (Ph.D) (Kenya, Female). Socioeconomic Burden of Vector-Borne Diseases, and Impact of Scaling Vector Surveillance and Control Innovations in Kenya. University of KwaZulu-Natal, South Africa (Ongoing)
- Trained several enumerators and supervisors to conduct household and community level surveys for various projects that I have been involved in.
 - Trained about 10 interns on various skills in economics concepts used in agricultural development including defining and measuring adoption and impact parameters for various agricultural technologies at the household and community level.

RESEARCH GRANTS AND PROJECTS PARTICIPATED IN FORMULATION AND FUNDRAISING

I have contributed to >50 grant applications; recent ones that were successfully highlighted below;

- G1. 2026: SPARK 2 (Strengthening productivity in agribusiness through research in Kwale County, Kenya): ACIAR [2026- 2028]
- G2. 2026: DANIDA: Ecology-based Climate Resilient Innovation for Sustainable Vegetable Intensification in Eastern Africa (“EcoVeg4Africa”)[2026-2028]
- G3. 2025: GALILEO project (“StrengtheninG rurAl LiveLihoods and resilience to climate change in Africa: innovative agroforestry integrating people, trees, crops and livestock”) and submitted to Horizon-JU-GH-EDCTP3-2024-01-05 (2025- 2027)
- G4. 2026: AICCRA-FSRP Phase 4 (Accelerating Innovation and Catalyzing Capacity for Resilience in Africa as Phase 4 of the West Africa Food System Resilience Program):World Bank [2026- 2029]
- G5. 2025: EU HORIZON-JU-GH-EDCTP3-2024-01-05: IMPACTING project (Integrated Multi-vector-borne diseases Platform to Assess how global Change impacts Transmission using Innovative systems modeling, Novel monitoring tools, and transmission blockinG micro-organisms) [2025-2028]
- G6. 2024: BRAINS (Building Equitable Climate-Resilient African Bean & INsect Sectors]: Government of Canada (GAC) [2024-2028]
- G7. 2024: FAOSFW: Emergency Response to the Outbreak of the Transboundary Noctuid Moth Caterpillar (*Achaea catocaloides*) in Liberia, Sierra Leone, and Guinea TCP project [2024- 2025]
- G8. 2024: SPARK 1 (Strengthening productivity in agribusiness through research in Kwale County, Kenya): ACIAR [2024- 2026]

PEER-REVIEWED JOURNAL PUBLICATIONS

- P1. Mugendi, P. G., **Muriithi, B. W.**, Gitau, R., Beesigamukama, D., Chia, S. Y., Wamwondwe, T. G., ... & Tanga, C. M. (2026). Adoption, determinants, and economic efficiency of insect-based technologies for organic waste recycling into fertilizer in Kenya. *Discover agriculture*, 4(1), 168.
- P2. Otieno, S. J., M. Nzuma, J., N. Ritho, C., & **Muriithi, B. W.** (2025). Impact of adoption of Integrated Pest Management practices on the control of fruit fly infestation among smallholder mango farmers in Kenya. *International Journal of Pest Management*, 1-10.
- P3. Waiswa, D., **Muriithi, B. W.**, Murage, A. W., Ireri, D. M., Maina, F., & Yavuz, F. (2025). Adoption and Dis-adoption of Push-Pull Technology in East Africa: Evidence from Survival Analysis and Machine Learning. *Crop Protection*, 107500.
- P4. Waiswa, D., **Muriithi, B. W.**, Murage, A. W., Ireri, D. M., Maina, F., Chidawanyika, F., & Yavuz, F. (2025). The role of social-psychological factors in the adoption of push-pull technology by small-scale farmers in East Africa: Application of the theory of planned behavior. *Heliyon*, 11(1).
- P5. Sileshi, G. W., Kuyah, S., Schuman, M. C., Chidawanyika, F., **Muriithi, B. W.**, Midega, C. A., ... & Martin, E. A. (2025). Opportunities for expansion of push-pull technology as an agroecological and sustainable intensification approach in Africa. *Sustainable Agriculture*, 3(1), 30.
- P6. **Muriithi, B. W.**, Dubois, T., Kirui, L., Lattorff, H. M. G., Mohamed, S., Abdel-Rahman, E. M., ... & Kassie, M. (2024). Impact of integrating pest and pollinator management training on knowledge, perceptions, and livelihoods of avocado farmers in Kenya. *Journal of Integrated Pest Management*, 15(1), 35.
- P7. **Muriithi, B.**, Franchini, R., Kolhoff, P., Seekman, V., Grossman, L., Mulungu, K., ... & Khamis, F. M. (2024). Gendered barriers and opportunities for scaling integrated pest management practices along the mango value chain in Kenya. *Journal of Integrated Pest Management*, 15(1), 5.
- P8. Schaffner, U., Heimpel, G. E., Mills, N. J., **Muriithi, B. W.**, Thomas, M. B., & Wyckhuys, K. A. (2024). Biological control for One Health. *Science of The Total Environment*, 951, 175800.
- P9. Mulungu, K., Abro, Z., Niassy, S., **Muriithi, B.**, Picthar, J., Kidoido, M., ... & Kassie, M. (2024). The economic, social, and environmental impact of ecologically centered integrated pest management practices in East Africa. *Journal of Environmental Management*, 371, 123241.
- P10. Agboka, K. M., Tonnang, H. E., **Muriithi, B.**, Niassy, S., Ndlela, S., Abdel-Rahman, E. M., ... & Ekesi, S. (2024). Assessing the potential economic benefits of classical biological control of the invasive fruit fly *Bactrocera dorsalis* by *Fopius arisanus* in Kenya. *International Journal of Tropical Insect Science*, 1-8.
- P11. Ndiaye, D., Brévault, T., **Muriithi, B. W.**, Zackariaou, B., & Belmin, R. (2024). The role of farming systems in the adoption of pest management practices: the case of the oriental fruit fly *Bactrocera dorsalis* in mango orchards in Senegal. *BASE*.
- P12. Agboka, K. M., Tonnang, H. E., **Muriithi, B. W.**, Niassy, S., Ndlela, S., Abdel-Rahman, E. M., ... & Ekesi, S. (2023). The economic impact of a classical biological control program: application to *Diachasmimorpha longicaudata* against *Bactrocera dorsalis* fruit fly in Kenya. *BioControl*, 1-10.
- P13. Chepchirchir, Fridah, **Beatrice Wambui Muriithi**, Jackson Langat, Shepard Ndlela, Samira Abuelgasim Mohamed, and Fathiya

- Khamis. "Economic, health, and environmental burden of *Tuta absoluta* (Lepidoptera: Gelechiidae), in tomato production in Kenya and Uganda." *Journal of Economic Entomology* 116, no. 5 (2023): 1529-1539.
- P14. Chidawanyika, F., **Muriithi, B.**, Niassy, S., Ouya, F.O., Pittchar, J.O., Kassie, M., Khan, Z.R. (2023) Sustainable intensification of vegetable production using the cereal 'push-pull technology': One Health implications. *Environmental Sustainability* DOI: 10.1007/s42398-023-00260-
- P15. Gichungi, H. M., **Muriithi, B. W.**, Kirscht, H., Mohamed, S. A., Ndlela, S., & Menale, K. (2023). Does empowerment influence women's willingness to pay for integrated pest management practices? A case study of mango growers in Zambia. *Research in Globalization*, 6, 100115.
- P16. Mulungu, K. Abro, Z., **Muriithi, B.**, Kassie, M., Kidoido, M., Sevgan, S., Mohamed, S., Tanga, C., and Khamis, F. (2023). One size does not fit all: Heterogeneous economic impact of integrated pest management practices for mango fruit flies in Kenya—a machine learning approach. *Journal of Agricultural Economics*, <https://doi.org/10.1111/1477-9552.12550>.
- P17. Mulungu, K., **Muriithi, B. W.**, Kassie, M., & Khamis, F. M. (2023). The economic performance of mango integrated pest management practices at different scales of production. *Frontiers in Insect Science*, 3, 1180568.
- P18. Mulungu, K., Tekelewold, H., Abro, Z., Sevgan, S., **Muriithi, B.**, Ecuru, J., Beesigamukama, D., & Kassie, M. (2023). Pollinator-dependent crops significantly contribute to diets and reduce household nutrient deficiencies in sub-Saharan Africa. *Scientific Reports*, 13(1), 1-13. <https://doi.org/10.1038/s41598-023-41217-y>.
- P19. **Muriithi, B.W.**, Menale, K., Diiro, G.M. et al. Effect of use of tsetse repellent collar technology on the farm performance and household welfare of small-scale livestock farmers in Kenya. *Food Sec.* (2023). <https://doi.org/10.1007/s12571-022-01342-4>
- P20. Musungu, A. L., Muriithi, B. W., Ghemoh, C. J., Nakimbugwe, D., & Tanga, C. M. (2023). Production, consumption, and market supply of edible crickets: insights from East Africa. *Agricultural and Food Economics*, 11(1), 28.
- P21. Otieno, S. J., Ritho, C. N., Nzuma, J. M., & **Muriithi, B. W.** (2023). Determinants of Adoption and Dis-Adoption of Integrated Pest Management Practices in the Suppression of Mango Fruit Fly Infestation: Evidence from Embu County, Kenya. *Sustainability*, 15(3), 1891.
- P22. Tonnang, H. E., Sokame, B. M., Wamalwa, M., Niassy, S., & **Muriithi, B. W.** (2023). System Dynamics Modeling for Assessing the Impact of COVID-19 on Food Supply Chains: A Case Study of Kenya and Rwanda. *Sustainability*, 15(6), 4717.
- P23. Wangithi, C., **Muriithi, B. W.**, Diiro, G., Dubois, T., Mohamed, S., Lattorff, M. G., ... & Kassie, M. (2022). Synergies of integrated pest and pollinator management in avocado farming in East Africa: An ex-ante economic analysis. *Plos one*, 17(7), e0271241.
- P24. Niassy, S., Muriithi, B., Omuse, E. R., Kimathi, E., Tonnang, H., Ndlela, S., Muhamed S., & Ekesi, S. (2022). Insight on Fruit Fly IPM Technology Uptake and Barriers to Scaling in Africa. *Sustainability*, 14(5), 2954.
- P25. Ogutu, Francis, **Beatrice W. Muriithi**, Patience M. Mshenga, Fathiya M. Khamis, Samira A. Mohamed, and Shepard Ndlela. 2022. "Agro-Dealers' Knowledge, Perception, and Willingness to Stock a Fungal-Based Biopesticide (ICIPE 20) for Management of *Tuta absoluta* in Kenya" *Agriculture* 12, no. 2: 180. <https://doi.org/10.3390/agriculture12020180>
- P26. **Muriithi B.W.** & Kabubo-Mariara J. (2021). The Dynamics and Role of Gender in High-value Avocado Farming in Kenya. *European Journal of Development Research* 1-33.
- P27. **Muriithi B.W.**, Gathogo N. G., Diiro G., Kidoido M. M., Nyanganga M. O., & Masiga D. K. Farmer Perceptions and Willingness to Pay for Novel Livestock Pest control Technologies: A case of Tsetse repellent Collar in Kwale County in Kenya. *PLOS Neglected Tropical Diseases*, 15(8), e0009663.
- P28. Diiro, G. M., Kassie, M., **Muriithi, B. W.**, & Mutero, C. M. (2022). Gender Heterogeneous Effects of Malaria Risk on Agriculture Productivity: Empirical Evidence from Rural Ethiopia. *The Journal of Developing Areas*, 56(1), 73-91.
- P29. Chepchirchir, F., **Muriithi, B. W.**, Langat, J., Mohamed, S. A., Ndlela, S., & Khamis, F. M. (2021). Knowledge, Attitude, and Practices on Tomato Leaf Miner, *Tuta absoluta* on Tomato and Potential Demand for Integrated Pest Management among Smallholder Farmers in Kenya and Uganda. *Agriculture*, 11(12), 1242.
- P30. Beesigamukama D., Mochoge B., Korir N., Menale K., **Muriithi B.**, Kidoido M., Kirscht H., Diiro G., Ghemoh C.J., Subramanian S., Nakimbugwe D., Musyoka M.W., Ekesi S. and Tanga C.M. (2021) Economic and ecological values of frass fertiliser from black soldier fly agro-industrial waste processing. *Journal of Insects as Food and Feed*, doi: 10.3920/JIFF2021.0013.
- P31. Diiro, G. M., Fisher, M., Kassie, M., **Muriithi, B. W.**, & Muricho, G. (2021). How does adoption of labor saving agricultural technologies affect intrahousehold resource allocations? The case of push-pull technology in Western Kenya. *Food Policy*, 102, 102114.
- P32. Adan, M., Abdel-Rahman, E. M., Gachoki, S., **Muriithi, B. W.**, Lattorff, H. M. G., Kerubo, V., Landman T., Mohamed S., Tonnag H. & Dubois, T. (2021). Use of earth observation satellite data to guide the implementation of integrated pest and pollinator management (IPPM) technologies in an avocado production system. *Remote Sensing Applications: Society and Environment*, 100566.
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BOOKS, BOOK CHAPTERS, WORKING/DISCUSSION PAPERS & SELECTED RESEARCH REPORTS

- BC1. **Muriithi, B.**, Gathura, G., Ombura, L., & Khamis, F. (2024). Impact of Integrating Autodissemination with the Male Annihilation Technique on Fruit Fly Infestation for Enhanced Mango Productivity in Sub-Saharan Africa. In *The Concept of Ecostacking: Techniques and Applications* (pp. 205-220). GB: CABI.
- BC2. Midingoyi SG, **Muriithi BW**, Affognon HD, Macharia I, Le Ru BP (2021): Economic impact of biological control. In *Biological Control: Global Impacts, Challenges and Future Directions of Pest Management* (Ed PG Mason). CSIRO Publishing, Melbourne) pp 288-311.
- BC3. **Muriithi, B. W.**, Diiro, G. M., Affognon, H., & Ekesi, S. (2016). Economic Impact of Integrated Pest Management Strategies for the Suppression of Mango-Infesting Fruit Fly Species in Africa. In *Ekesi et al (Eds.), Fruit Fly Research and Development in Africa - Towards a Sustainable Management Strategy to Improve Horticulture* (pp. 755-770). Springer International Publishing.
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- WP2. **Muriithi, B.**, & Kabubo-Mariara, J. (2020). The Dynamics and Role of Gender in High-Value Avocado Farming in Kenya. PEP working paper series July 2020.
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- WP5. **Muriithi B.** & Gathogo N. (2017). Productivity and income impact of adoption and training on improved beekeeping and pollination services among beekeepers in Zanzibar Island. Focus Group Discussions and Key Informant's Interviews Report, July 2017.
- WP6. Caroline G., **Muriithi B.W.**, Affognon D.H., Diiro G.M. (2015): Spillovers and environmental effects of Mango Integrated Pest Management (IPM) packages for fruit fly control in Meru County, Kenya. *African Mango Fruit Fly Programme* (sampled households- 370). Social-economic impact assessment report, ICIPE, Duderuville, Nairobi
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- SR2. Gichungi H., **Muriithi B.W.**, & Kirscht H. (2021): Assessing the women's empowerment among mango growing households in Zambia. IDRC Alien invasive fruit flies in Southern Africa project.
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- SR4. Baltenweck, Isabelle; Gelan, Ayele and **Muriithi, Beatrice** (2010). East African Dairy Development Project Baseline Surveys Report No.1: Survey Methodology and Overview of Key Results for the Household Surveys
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POLICY BRIEF AND MEDIA

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- *Policy brief: Muriithi B.*, Kassie M., Diiro G. (2017). Muricho G. Does gender matter in adoption of sustainable agricultural technologies? A case of push-pull technology in Kenya. PEP policy briefs No 169. 2017. Available at <https://portal.pep-net.org/projects/view/zone/public/id/20126>
 - *Policy brief: Diiro G.*, Kassie M., **Muriithi B.**, Muricho G. (2017). Malaria Risk and Agriculture Productivity in Boter Chora district, Ethiopia: The Mitigating effects of Integrated Vector Management Interventions. Socio-economic Policy brief series Number 001
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SELECTED INTERNATIONAL CONFERENCES ORAL PRESENTATIONS

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- C1. **Muriithi B.W. (2025)**: Gender Responsiveness of Agricultural and Plant Protection-related Policies in Kenya: Gaps and Opportunities. Presented at the 2025 CGIAR Gender conference Oct 7-9 2025, in Cape Town, South Africa
- C2. **Muriithi B.W. (2024)**: Economic Impact of Economic impact of a classical biological control program: Application to *Diachasmimorpha longicaudata* against *Batrocera dorsalis* fruit fly in Kenya. Presented at the 3rd International Congress of Biological Control 24- 27 June 2024, San Jose, Costa Rica (virtually).
- C3. **Muriithi B.W. (2024)**: Can Biological Pest Management Solutions Empower Women Farmers in Sub-Saharan Africa? A Case of Push-pull Technology in East Africa. Presented at the 3rd International Congress of Biological Control 24- 27 June 2024, San Jose, Costa Rica (virtually).
- C4. **Muriithi B.W. (2024)**: Co-organized a symposium on “Harnessing Insect for Sustainable and Resilient Agri-Food System Transformation” and made a presentation on “Integrated Pest Management (IPM) for Holistic Agri-food Systems Transformation in Africa” at the 32nd International Conference of Agricultural Economists, New Delhi, India, August 2-7, 2024
- C5. **Muriithi B.W. (2024)**:: Synergies and Trade-Offs in the Adoption of Push-Pull Technology and other Sustainable Agricultural Practices in East Africa. Presented at the 32nd International Conference of Agricultural Economists, New Delhi, India, August 2-7, 2024
- C6. **Muriithi B.W. (2024)**: Does Women's Empowerment in Agriculture Enhance the Potential Adoption of Integrated Fruit Fly Management? A Case of Mango Growers in Zambia. Presented at the ZEF @25 years conference, Sep 30-Oct 2, 2024
- C7. **Muriithi Beatrice (2023)**: Gender-based barriers and opportunities for food security and sustainable agricultural systems in Africa. Presented at the Agri4D 2023 conference.
- C8. **Muriithi Beatrice (2023)**: Co-organized a symposium on insects and insect science for the sustainable transformation of agri-food systems in Africa at the 7th African Conference of Agricultural Economists, Cape Town, South Africa.
- C9. **Muriithi Beatrice**, Gloria Gathura, Levi Ombura, Fathiya Khamis (2021). Effect of integrating Autodissemination technique with Male Annihilation Technique on fruit fly infestation rate and magnitude of mango losses. Presented at Conférence Intensification Durable 2021, Dakar, 23 et 24-26 November 2021
- C10. **Muriithi et al (2021)**. Impact of integrating Autodissemination Technique with Male Annihilation Technique on fruit fly infestation rate and magnitude of Mango losses. International Workshop on Entomevectoring, 11th March, 2021, Online.
- C11. **Muriithi B. W.** et al (2021): Farmer perceptions and willingness to pay for novel livestock pest control technologies: A case of tsetse repellent collar in Kwale County in Kenya (based on <https://doi.org/10.1371/journal.pntd.0009663>).

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- C12. **Muriithi B.W** et al (2021): Micro-economic Impact of Tsetse and Trypanosomiasis Control Interventions on Farmers' Livelihoods in Kwale County, Kenya. Presentation at the 31st ICAE 2021 International Conference of Agricultural Economists, August 17-31, 2021.
- C13. Wangithi C. and **Muriithi B.W** (2021): Informal Food Supply Chain Response to COVID-19 Pandemic: A Case Study from Nairobi, Kenya. Presented at the Early Career Research Leader Fellowship Conference, 6-8th July 2021, Laikipia University, Kenya,
- C14. **Muriithi B.W. (2021)**: Economic Benefits of Biological Control to Local Economies. Presented at the Second International Congress of Biological Control ICBC2 Davos Switzerland 2021 (Virtual) 26-30 April 2021.
- C15. **Muriithi B.W. (2020)**. Understanding economic and poverty impacts of biological insect pest control from a Gender Lens. Presented at the 18th Gender Summit (GS18 (2020)), Virtual Event, 23 November – 5th December 2020.
- C16. **Muriithi, B. W.**, Kassie M., Gathogo N., Diro G., Mohamed S., and Ekesi S. (2019). Adoption of Integrated Pest Management Strategy for Suppression of Mango Fruit flies in East Africa: An *ex-ante* and *ex-post* analysis in Ethiopia and Kenya. Presented at the 6th African Conference of Agricultural Economists (6thACAE) in Abuja, Federal Capital Territory, Nigeria, 23 – 26 September 2019.
- C17. **Muriithi B., & Gichungi H.**, (2018). Effect of Technology Innovation on Gender Roles: A case of Fruit Fly IPM Strategy on Women's Decision Making in Mango Production and Marketing in Kenya. Presented at the 30th International Conference of Agricultural Economists Vancouver, British Columbia, Canada July 28 – August 2, 2018.
<https://cslide.ctimeetingtech.com/icae2018/attendee/person/72>
- C18. **Muriithi B.**, Midingoyi S., Menale K. & Diro G (2018). Do farmers and Environment benefit from Biological Control? A case of Fruit fly IPM in Kenya. The first International Congress of Biological Control, Biological Control for a Healthy Planet, Beijing, China, 14- 16, April 2018.
- C19. **Muriithi B.W.**, Menale K., Gathogo N., Rwomushana I., Gracious G., Mohamed S., Khamis, F., Ekesi S. (2018) Farmers' knowledge, perceptions and willingness to pay for Integrated Pest Management Strategy for suppression of mango fruit flies in Ethiopia. 10th International Symposium on Fruit Flies of Economic Importance, Tapachula, Chiapas, Mexico April 23 – 27, 2018.
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- C20. **Muriithi B.**, Mohamed S., and Sunday E. (2017). Economic Impact of Biological Control of Mango-infesting Fruit flies A Case study of Kenya. Presented at the 5th International Symposium on Biological Control of Arthropods, September 11–15, 2017, Langkawi.
- C21. Midingoyi, G.S, Affognon, H., **Muriithi, B.**, Macharia, I., Ongamo, G. and LeRu, B. (2017). Assessment of the Economic and Poverty Impacts of Biological Control of Cereal Stem-borers in Kenya using the Economic Surplus Modelling Approach. Contribution selected for oral presentation at the 5th International Symposium on Biological Control of Arthropods, September 11-15, 2017., At Langkawi, Malaysia.
- C22. **Muriithi B.**, Kassie M., Diro G., Muricho G. (2017) Does gender matter in the adoption of sustainable agricultural technologies? A case of push-pull technology in Kenya. Presented at the Agricultural Economics Society, 91st Annual Conference, 24-26 April 2017, Royal Dublin Society, Dublin, Ireland https://www.pcp-net.org/sites/pcp-net.org/files/typo3doc/pdf/Muriithi-AES_poster.pdf
- C23. Muricho G., Kassie M., Diro G., and **Muriithi B.** Women's empowerment in agriculture and determinants of empowerment indicators in rural Kenya. 91st Annual Conference, 24-26 April 2017, Royal Dublin Society, Dublin, Ireland
- C24. Nyang'au P., **Muriithi B.**, Gichungi H., Irungu P., Nzuma M., and Diro G. Assessing the impact of integrated pest management (IPM) technology for mango fruit fly control on food security among smallholders in Machakos County, Kenya. Presented at the Agricultural Economics Society, 91st Annual Conference, 24-26 April 2017, Royal Dublin Society, Dublin, Ireland.
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- C25. Githiomi Caroline, **Muriithi Beatrice**, Ngeno Vincent, Affognon Hippolyte, Miyinzi Chris, Diro Gracious, 2016: Economic analysis of spillover effects of Integrated Pest Management (IPM) strategy for suppression of mango fruit fly in Meru County, Kenya. Presented at the Kenyatta University School of Agriculture Second Biennial International Conference, the 29th November -2nd December 2016.
- C26. Miyinzi Chris, **Muriithi Beatrice**, Ngeno Vincent, Affognon Hippolyte, Githiomi Caroline, and Diro Gracious, 2016: Assessment of Health and Environmental Effects of Mango Integrated Fruit Fly Management Strategy in Meru County, Kenya". Presented at the Kenyatta University School of Agriculture Second Biennial International Conference, the 29th Nov -2nd Dec 2016
- C27. Githiomi C., **Muriithi B.**, Ngeno V., Affognon H., Miyinzi C., Diro G., (2016): Economic analysis of spillover effects of Integrated Pest Management (IPM) strategy for suppression of mango fruit fly in Meru County, Kenya. Poster presented

- at the upcoming GlobalFood Symposium 2017, 28-29 April 2017 at Georg-August-University of Goettingen, Germany.
- C28. **Muriithi, B. W.**, Affognon, H. D., Diiro, G. M., Kingori, S. W., Tanga, C. M., Mohamed S.A, Ekesi, S. (2016). IPM Technology Awareness and Mango Market Participation Among Smallholder Male and Female farmers in Meru County, Kenya. In the 5th International Conference of the Association of African Agricultural Economists (AAAE), 23-26 September 2016, United Nations Conference Centre- Addis Ababa
- C29. Macharia J., Diiro G., Busiene J.R., Kimpei Munei K., Affognon H., Ekesi S., Kassie M., **Muriithi B.W.**, Nakimbugwe D., & Fiaboe K. (2016) Gendered Analysis of The Demand For Poultry Feed-In Kenya. In the 5th International Conference of the Association of African Agricultural Economists (AAAE), 23-26 September 2016, United Nations Conference Centre- Addis Ababa.
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- C30. Kibira M., Affognon H., Njehia B., **Muriithi B. W.**, Mohamed S., and Ekesi S. (2015). Economic Evaluation of Integrated Management of Fruit Fly in Mango Production in Embu County, Kenya. 29th International Conference of Agricultural Economists, 8- 14 August 2015, Milan, Italy. <http://ageconsearch.umn.edu/handle/211846>
- C31. **Muriithi B. W.** (2015). Smallholder Horticultural Commercialization: Gender Roles and Implications for Household Well-being in Kenya. 29th International Conference of Agricultural Economists, 8- 14 August 2015, Milan, Italy. <http://ageconsearch.umn.edu/handle/212516>
- C32. **Muriithi B.W.**, Braun V.J., Matz J.A., and Virchow D. (2014). "The dynamics of smallholders' participation in the commercialization of high-value horticultural crops: A case of vegetable producers in Kenya". 29th International Horticultural Congress 2014, 17-22 August 2014, Brisbane Convention and Exhibition Centre, Brisbane Queensland, Australia. http://www.actahort.org/books/1128/1128_40.htm
- C33. **Muriithi B. W.** (2013): "Does commercialization of smallholder horticulture reduce rural poverty? Evidence-based on household panel data from Kenya". In 4th International Conference of African Association of Agricultural Economists (AAAE), 22-25 September 2013, Hammamet-Tunisia". <http://ageconsearch.umn.edu/handle/161563>
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http://ageconsearch.umn.edu/bitstream/96187/2/AAAE%2016_11_2010%20AG%20%20BM.pdf

OTHER PERSONAL SKILLS

Communication skills	Good communication skills acquired from my experience in mobilizing and holding stakeholder's forums and presenting in seminars, workshops, and international and national conferences
Organizational/ managerial skills	-Field survey supervision skills (supervised several field surveys while working at ILRI, ZEF, and ICIPE) -Organizational skills (organized departmental monthly seminars at ZEF for 1 year, and several stakeholder's forums at ASCU, seminars at icipe), -Staff and student supervision (currently supervising 4 research assistants and supervised over 15 MSc. Students and 4 PhD students) and mentored several young scientists and interns)

- Job-related skills** -Good command for quantitative (econometric) impact evaluations techniques for both cross-sectional and panel data empirical analysis
-Expertise in gender analysis, cost-benefit analysis, monitoring, and evaluation.
-Possess good theoretical and practical skills in rural agricultural development, community simulation, development of community action plans (CAP), and participatory monitoring and evaluation
- Computer skills** -Good command of statistical packages specifically STATA, Statistical Packages for Social Scientists (SPSS), and GAMS
-Excellent command of Microsoft office and data collection programs (Cspiro and ODK).

PEER REVIEWER FOR THE FOLLOWING JOURNALS

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| • Food security | • International Journal of Tropical insect science |
| • Food policy | • Agricultural Economics |
| • Agribusiness journal | • Rural Society |
| • Journal of rural studies | • Agriculture |
| • Journal of Integrated Pest Management | • Rural Society |

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