

CURRICULUM VITAE

NAME: Dr. WILCKYSTER NYATEKO NYARINDO

TITLE & POSITION: SENIOR LECTURER IN AGRICULTURAL ECONOMICS

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PERSONAL STATEMENT.

I am a Senior Lecturer in Agricultural Economics with a PhD from the University of Western Australia and over a decade of experience in sustainable agriculture, technology adoption, and climate-smart practices among smallholder farmers in Kenya. My work emphasizes gender equity and empowering women, youth, and marginalized groups through innovative, gender-responsive approaches to enhance agricultural productivity and resilience. I have successfully attracted and managed research grants, including projects such as “Enhancing Livelihoods through Access to Poultry Feeds in Post-COVID-19 Eastern Kenya” and “Strengthening the Chicken Value Chain with Eco-Friendly Practices.” Notably, I have pioneered initiatives like establishing eco-friendly Black Soldier Fly (BSF) units for sustainable, home-based chicken feed formulation. My collaborative efforts extend to institutions like ETH Zurich, Switzerland, where I facilitate trainings in socioeconomics in tropical agriculture. I have also published in reputable journals, including; *Agricultural Economics*, *Heliyon*, *PLoS One*, *Journal of Agriculture and Food Research* and serves as a reviewer for *PLoS One* and *Agricultural Economics*. I have supervised three PhD and three Master’s students to completion, with others five in progress at the University of Embu, Kenya and Antwerp University, Belgium. In addition to my research, I hold leadership roles, including Examination Coordinator for the School of Agriculture, and actively contributes to university and external boards

RELEVANT EDUCATION AND CAPACITY BUILDING TRAINING

Institution and Location	Degree	Completion Date	Field of Study
Penang, Malaysia	Master Class on Agricultural Research Management and Leadership	November 2025	Agricultural Research Management and Leadership
Ghent University, Belgium	Certificate in Communicating Science	September 2024	Communicating Science
University of Western Australia, Perth, Australia	Doctor of Philosophy in Agricultural Economics	March 2022	Agricultural Economics
University of New England, Australia	Certificate of Leadership and Project Management	October 2020	Leadership and Project Management
Egerton University, Kenya	Master of Science in Agribusiness Management	December 2015	Agribusiness Management
Egerton University, Kenya	Bachelor of Science in Agricultural Economics	December 2012	Agricultural Economics
Egerton University, Kenya	Diploma in Farm and Resource Management	December 2008	Farm and Resource Management

EMPLOYMENT HISTORY

Year (from-to)	Organization	Position held/Responsibility
2026 -To date	Department of Agricultural Economics & Extension, University of Embu, Kenya.	Senior Lecturer, and Coordinator Examinations, School of Agriculture.
2022-2025	Department of Agricultural Economics & Extension, University of Embu, Kenya.	Lecturer, and Coordinator Examinations, School of Agriculture.
2018-2022	Department of Agricultural Economics & Extension, University of Embu, Kenya.	Tutorial Fellow
2016	International Centre of Insect Physiology and Ecology (ICIPE), Nairobi, Kenya	Field Supervisor
2016:	Department of Agricultural Economics & Extension, University of Embu, Kenya.	Part time lecturer, Department of Agricultural Economics & Extension,
2013-2015	Adoption Pathways development project (CIMMYT) Nairobi, Kenya	Research Assistant
2011	Tegemeo Institute of Agricultural Policy and Development, Nairobi, Kenya	Internship

RESEARCH GRANT AND MANAGEMENT EXPERIENCE

1. Jan 2025- Dec 2026 **Principal Investigator:** Strengthening the Chicken Value Chain Beyond Backyard Farming with Eco-Friendly Practices among Smallholders in Lower Eastern Kenyan (USD 49,986.00)
2. 2022-2023: **Principal Investigator:** Enhancing livelihoods through access to poultry feeds among smallholders in post Covid-19 era in Eastern Kenya. (AUD 20,000)
3. 2023: Gender Justice for Sustainable Aquaculture and Fisheries travel grant for attending Global Conference on Gender in Aquaculture and Fisheries in India (USD 1,410) **PI**

BOOK/ BOOK CHAPTERS

Nyarindo, W., & Isaboke, H. (2025). *Roots of change: The social transformation of plant domestication*. In *Encyclopedia of Agriculture and Food Systems* (3rd ed., Vol. 20). Elsevier. <https://doi.org/10.1016/B978-0-443-15976-3.00040-4>

SELECTED RECENT PUBLICATIONS (PEER REVIEWED JOURNAL ARTICLES)

Mwangi MN, Nyarindo WN, Ngigi, MW, Isaboke HN (2026) Seeding food security: Overcoming barriers to quality potato seed adoption among smallholders in Kenya. *PLoSOne* 21(5): e0346796. <https://doi.org/10.1371/journal.pone.0346796>

Ndung'u N, Isaboke H, Nyarindo W, Otieno M, Gicheha M, Kinyuru J. (2025). Understanding gender dynamics on the intentions of small-scale traders to trade in edible insects in Kenya. *Journal of Agricultural Science*, 17(6), 1-42. [org/10.1371/journal.pone.0326108](https://doi.org/10.1371/journal.pone.0326108)

Nyarindo, W.N., Mugera, A. (2025). What determines market participation and trade intensity? The case of smallholders in Kenya. *Scientific Africa* 30 (2025) e03057: <https://doi.org/10.1016/j.sciaf.2025.e03057>

Ndung'u N, Isaboke H, **Nyarindo W**, Otieno M, Gicheha M, Kinyuru J. (2025). Entwined evolution: how innovation networks foster collaborative growth in East Africa's edible insect value chain. *Journal of Insects as Food and Feed*, 1(aop), 1-18.

Musyoka, J. K., **Nyarindo, W. N.**, Alders, R., & Isaboke, H. N. (2025). COVID-19 and Smallholder Chicken Farmers in Eastern Kenya: Assessing Resilience and Coping Strategies. *Advance in Animal and veterinary Sciences*, 13(7): 1571-1585. DOI <https://dx.doi.org/10.17582/journal.aavs/2025/13>.

Kirimi, A. K., Gatimbu, K. K., & **Nyarindo, W. N.** (2025). Role of modern dairy farming technologies in enhancing milk productivity: A case of Meru County, Kenya *Journal of Global Innovations in Agricultural Sciences*, 2025, 13(x): xxx DOI: <https://doi.org/10.22194/JGIAS/26.1729><http://www.jgiass.com>

Kioko, T.M., Ndirangu S. & **Nyarindo W. N.** (2025). Determinants of Adoption of Climate-Smart Agricultural Practices: The Case of Smallholders in Makueni County, Kenya. *Advances in Agriculture*. 4159649. <https://doi.org/10.1155/aia/4159649>

Ndung'u N, Isaboke H, **Nyarindo W**, Otieno M, Gicheha M, Kinyuru J. (2025). Gender differentials in cricket farming and its impact on household food security levels in East Africa. *PLoS One*, e20(6): e0326108. <https://doi.org/10.1371/journal.pone.0326108>

Maindi, C., **Nyarindo, W.**, Ndirangu, S., & Isaboke, H. (2025). Gender differentials in smallholder participation in efficiency and livelihood-enhancing collective action initiatives in Central Kenya. *Gender, Technology and Development*, 1-26.

Musyoka, J. K., **Nyarindo, W. N.**, Alders, R., & Isaboke, H. N. (2025). Gender roles and constraints in enhancing hybrid chicken production for food security in lower Eastern Kenya. *PLoS One*, 20(3), e0318594.

Nyarindo, W. N., Mugeru, A., Hailu, A., & Obare, G. A. (2024). Do combined sustainable agricultural intensification practices improve smallholder farmers welfare? Evidence from eastern and western Kenya. *Agricultural Economics*. <https://doi.org/10.1111/agec.12816>

Miriti C. M., **Nyarindo W. N.**, Mburugu K.N., Nthiwa D. (2024). Determinants of smallholder farmers' satisfaction with agricultural extension services in Embu County, Kenya. *Journal of Agriculture and Rural Development in the Tropics and Subtropics*, 125(2)209–218. <https://doi.org/10.17170/kobra-2024093010896>.

Kirimi, A. K., **Nyarindo, W. N.**, & Gatimbu, K. K. (2024). Is adoption of modern dairy farming technologies interrelated? A case of smallholder dairy farmers in Meru County, Kenya. *Heliyon*, 10(e38157). <https://doi.org/10.1016/j.heliyon.2024.e38157>

Maindi, C.N., **Nyarindo, W. N.**, Ndirangu, S.N. and Isaboke H.N (2024). Collective action typologies and their implications for policy targeting: The case of smallholder households from central region of Kenya, *Journal of Agriculture and Food Research*, 18 (101288).

Maindi, C.N., **Nyarindo W. N.**, Ndirangu S. N and Isaboke H.N. (2024). Debunking the one-size-fits-all approach: Synergistic and trade-off effects of collective action on household food security among the smallholder farmers in central Kenya. *Journal of Global Innovations in Agricultural Sciences* 12:811-826.

Kioko, T.M., Ndirangu S. and **Nyarindo W.** (2024). Evaluating effect of climate smart agricultural practices adoption on productivity of drought-tolerant pulses: Insights from dryland areas of Makueni County, Kenya. *Journal of Global Innovations in Agricultural Sciences* 12:799-809.

Isaboke, H. N., Qiao, Z., & Nyarindo, W. N. (2016). The Effect of Weather Index Based Micro-Insurance on Food Security Status of Smallholders. *Agricultural and Resource Economics: International Scientific E-Journal*, 2(3), 5–21.

Isaboke, H. N., Qiao, Z., Nyarindo, W. N., & Ke, W. (2016). Explaining the Perception of Smallholders towards Weather Index Micro-insurance alongside Risks and Coping Strategies. *International Journal of Food and Agricultural Economics*, 4(4), 59–77.

RELEVANT CONFERENCE PAPERS/WORKSHOPS

November 21th-23th 2022 Nyarindo, W.N., Isaboke H. N., Robyn Alders. Enhancing livelihoods through access to poultry feeds among smallholders in post COVID-19 era in Eastern Kenya: A Gender Perspective. Paper presented at the 8th Global Conference on Gender in Aquaculture and Fisheries in India, **21th-23rd November 2022**.

April 18th -29th 2022 Facilitated the Field course on “Tropical Cropping Systems, Soils and livelihoods” in the University of Embu 18th -29th April 2022 for the Sustainable Agro-ecosystems group at ETH Zürich.

February 11th -14th 2020 Ogotu, W.N., Mugera, A. Hailu, A. Adoption of sustainable intensification practices in Kenya: Analysis of choices among packages generated using K-modes clustering. Paper presented at the 64th Australasian Agricultural and Resource Economics Society Conference (AARES). Perth, Western Australia, 11–14 February 2020

March 5th 2015 Sustainable Agricultural Intensification through Multi-Technology Adoption: Facilitated by CIMMYT (CASFESA Project Closing Workshop)

Ogotu, W.N., Obare, G.A., & Kassie, M. (2015). Farm Plot Level Determinants of the Number of Sustainable Agricultural Intensification Practices Adopted in a Maize-Legume Cropping System in Kenya. *Adoption Pathways Project Discussion Paper 9*. CIMMYT, Nairobi.

Membership to University Committees

2026 April – To date: Member of the university strategic plan mid-term review technical committee

2025 March –To date: Appointed as Science and Technology (STI) Champion in the Department of Agricultural Economics and Extension

2024 Nov –To date: Member University awards / honors committee

2024 July –To date: Appointed as member strategic issue team (community linkage) in strategic plan

2022 Nov – To date: Member of UoEm-ETH ZURICH university MoU joint implementation Committee

2022 Sep –To date: Member of departmental Board of Postgraduate Studies, Department of Agricultural Economics and Extension

2022 June – To date Member of graduation procession (academic and graduates)

POSTGRADUATE SUPERVISION – COMPLETED

Doctor of philosophy

1. **Catherine Nyambune Maindi** Reg No A807/302/2021 Collective action, women empowerment and food security among smallholder farmers in Murang’a County, Kenya.
2. **Nancy Wamwitha Ndung’u** Reg No A807/321/2022 Economic evaluation and gender participation in the edible insect value chain development in Kenya and Uganda.
3. **John Kennedy Musyoka** Reg No A807/306/2021 Economic evaluation of coping strategies in chicken farming on productivity and resilience to covid-19 among smallholders in lower Eastern Kenya.

Masters

4. **Timothy Meti Kioko** Reg No A510/1507/2021 Impact of Climate change resilient technologies on

- productivity and household food security in dryland areas of Kibwezi west sub county, Makueni county.
5. **Caroline Mukami Miriti** Reg No A512/1536/2021 evaluation of smallholder farmers' satisfaction with agricultural extension services in Embu east sub-county, Embu county.
 6. **Andrew Kirimi** Reg No A512/1473/2021 uptake of dairy farming technologies and productivity among smallholder farmers in Meru county, Kenya.

POSTGRADUATE SUPERVISION – ONGOING

7. **Mwirigi Antony Mutuma** Reg No A510/1553/2021 Economics of postharvest management practices on pulses and household food security among smallholders in Tharaka Nithi county (**MSc**)
8. **Joseph Kiprotich Ruttoh** Reg No A807/315/2021 Intertemporal evaluation of sustainable crop intensification, diversification and commercialization among the smallholder farmers in Kenya (**PhD**)
9. **Margaret Njeri** Reg No A811/335/2022 Analysis of potato seed multiplication technologies and post-harvest losses on potato productivity in Kenya (**PhD**).
10. **Caroline Mukami Miriti** Reg No. A811/EW/493/2025, hybrid agricultural extension models and the incentive mechanisms for carbon farming adoption among smallholder farmers in eastern and central kenya. (**PhD**)
11. **Andrew Kirimi** Reg No. A811/EW/494/2025, decoding the sustained use gap and the socio-technical determinants of digital dis-adoption among climate-smart dairy farmers in upper eastern, kenya. (**PhD**).

HONORS, FELLOWSHIPS AND AWARDS

2024 –To Date: Fellow of Organization for Women in Science for the Developing World (**OWSD**).

2024-2025: **Researcher of The Year Award 2025**, by the University of Embu.

2024 -2025: Post-doctoral fellow Open Doors Fellowship Program Ghent University, Belgium.

2019-2020 John Allwright Fellowship (ACIAR) to pursue PhD studies in Australia (AUD 353,097.20)

2019-2020: John Allwright Fellowship leadership program (JAFel). University of New England, Australia.

PROFESSIONAL BODIES MEMBERSHIP

From 2021- To date Australasian Agricultural & Resource Economics Society (AARES) Membership Number: 5267

TRAININGS AND SHORT COURSES

1. Certificate of proficiency in Participatory Rural Appraisal Techniques (PRA)
2. Certificate of proficiency in Strategic Planning and Management of Projects
3. Leadership and Project Management
4. Softwares; Stata, SPSS Statistics, R, OpenDataKit (survey software)

REFEREES

1. Prof. G. A. Obare
Executive Director, Tegemeo Institute of Agricultural Policy and Development
Kindaruma Rd, Nairobi, Off Ngong road, Behind Coptic hospital
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2. Prof. Amin Mugera
University of Western Australia, Perth 35, Stirling Highway, Crawley Western Australia
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3. Prof. Esther Arunga
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