

CURRICULUM VITAE

Joseph P Onyango Gweyi

Name: Prof. Joseph P Onyango Gweyi
Dr (PhD)- Department: Agricultural Science and Technology
Associate professor of Systems Agronomy/Plant Nutrition and
Deputy Executive Dean, School of Agriculture and Environmental
Sciences:
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Area of Specialization: Systems agronomy/Plant Nutrition

Research Interests: Modelling, artificial intelligence, precision nutrient management, nitrogen flows and budgeting, phosphorus uptake kinetics, mycorrhizae in degraded soils, and biofertilizers, agroecology and biodiversity management, outreach and community service

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Academic qualifications

- **2006:** PhD in Agricultural Sciences (Plant Nutrition), Institute of Plant Nutrition, University of Hohenheim, Stuttgart, Germany
- **1998:** MSc Agronomy, University of Nairobi, Kenya
- **1992:** BSc Agriculture, University of Nairobi

TEACHING EXPERIENCE / EMPLOYMENT HISTORY

February 2022- to-date: Associate professor of **Systems Agronomy/Plant Nutrition/Agroecology**

December 2024-todate: Deputy Executive Dean, School of Agriculture and Environmental Sciences

February 2024-December 2024: Departmental Research, Innovation and Outreach Coordinator

February 2020-February 2024: Chairman, department of Agricultural Science and Technology (for 2 terms of 2 years each).

February 2013 to January 2022: Senior Lecturer of **Systems Agronomy/Plant nutrition/Ago-ecology**, Department of Agricultural Science and Technology, Kenyatta University

January 2010 to 2013: Lecturer, Department of Agricultural Science and Technology, Kenyatta University

September 2007-December 2009: Lecturer, Department of Biological Sciences, Masinde Muliro University of Science and Technology, Kakamega, Kenya

2006 – August 2007: Senior Agricultural officer in charge of National Soil fertility and Agroforestry, Ministry of Agricultural Headquarters, Kilimo House, Nairobi, Kenya

2002-2006: Agricultural Officer in charge of crops, West Pokot District

September 1997 – 2002- Divisional Agricultural Officer, Kongelai Division, West Pokot District

January- August 1997- Biology/Agriculture teacher (employed by TSC), Moi High School, Kaplamai, Trans-Nzoia District

January-December 1995- Biology/Agriculture Teacher (employed by TSC), Longisa High school, Bomet District

May – August 1992- Field Officer, CARE-Kenya, Hagadera Refugee Camp-Garissa District

January –April 1992- Biology, Chemistry and Agriculture, Kitale High school, Trans-Nzoia District

1. RESEARCH INTERESTS

The researcher is interested in (i) areas of food and nutrition security among rural and urban informal sectors. (ii) Nutrition and diets and nexus between nitrogen foot prints between rural and urban communities (iii) wastewater use for informal vegetable production in Urban and Peri-Urban areas of East African and the implication on producers and consumers (iv) Waste recycling for reduced greenhouse gas emissions through conversion to biochar and composting (v) Reduction of Enteric greenhouse gas emission by livestock through feed and dung management in different cattle production intensification strategies (vi) Pasture and fodder management in pastoral communities (viii) Drought tolerance crops and yield indicators in ASAL areas (ix) Warehouse Receipt System (WRS) for improved grain storage and cash flow (x) Human wildlife conflict and mitigation (xi) Nutrient flows and fluxes in farmlands (xii) Use of AL and GIS in real-time farm input management (xiii) Pesticide tracing and management and mitigating effects in high value crop farming

2.1 PROJECTS, CONSULTANCIES AND COLLABORATION

- AKILI-ECOACT: Biochar quality analysis and interpretation: Waste Cycling for soil Health: November 2022-February 2023
- HESPI: Assessment of status of Warehouse Receipt System (WRS) in Kenya and Uganda, April to June 2017
- 1st October to 30th November, 2017- appointed as consultant by Turkana University College to develop two BSc programs (i) Bachelor of Science in Sustainable Agriculture and Food Security (ii) Bachelor of Science in Pastoralism and Livestock Management.

PROJECTS UNDERTAKEN

- Managing Nitrogen for Sustainable Development in Less-developed Mountain Area funded by People's Republic of China within the framework of the National Natural Science Foundation of China (NSFC) International (Regional) Cooperation and Exchange Project- CNY 400,000 (Renminbi Four Hundred Thousand Yuan)- equivalent to KES 8,000,000.
- Unlocking Productivity in Maize within Smallholder Farming Systems Through Use of Green and Digital Farming Technologies in the Face of Climate Change- Strengthening Agricultural Knowledge & Innovation Ecosystem for Inclusive Rural Transformation & Livelihoods in Eastern Africa (AIRTEA)- FARA-ASEREC- (2022-2024)-(180,000 Euros)- Co-PI

- Evaluation of Different Phosphate Fertilizers for Cadmium Contamination in Soils and Subsequent Bioavailability to Potato and Garden Peas –Kenya Climate Smart Agriculture Project –(2019-2022)- (ksh 9,076,300)- Co-PI
- Scaling Integrated Soil Fertility Management Technologies for Improved Food, Nutrition Security and Livelihoods in Kenya- Kenya Climate Smart Agriculture Project (2019-2021)- (Ksh 22,068,346) –Co-PI
- Project Proposal “Global Food Security” –GlobE funded by the Federal Ministry of Education and Research of Germany and I was a collaborator and in addition trained one PhD student on Sandwich; Kenya and Germany on Heavy metals in wastewater and soil fertility dynamics in Urban and Peri-Urban Agriculture – (7m Euros)- with 52,202 Euros for KU; 2014-2016 (Collaborator, PI in Kenya WP3)- HORTINLEA Project
- Participatory Identification, Enhancement and Retention of Phytochemical and Nutrients in African Leafy Vegetables in Nairobi County and Three Counties in Central Kenya –KU Vice Chancellor’s Research Grant- Ksh1,500,000-November 2014-October 2015 (P1)
- African Nightshade distribution in Kenyan agroecologies in response to phosphorus and water status: Phenolics and related antioxidants profiling-RUFORUM 60,000 USD - 2012-2014 - Principal Investigator
- Utilization of rock phosphate by tomato (*Lycopersicon esculentum* Mill.) as affected by nitrogen forms and soil types: Mechanisms, prospects and limitations; - DAAD – 2500 Euros -2003 -2004
- Effects of Changing Soil Health on Conservation, Utilization and Nutritional Qualities of promoting Indigenous African Vegetables in Alfisols of Western Kenya; -. MMUST URF 384,000 Ksh - 2009/2010 - (Principal Investigator)
- Triple Super Phosphate and Scum and Scum as Phosphorus Sources and Effects on Improvement of Soil Fertility in Sugarcane Growing Zone. A case of Mumias and Busia District: MMUST URF; Ksh 260,000 (Collaborator)
- Genetic Diversity of Bambara ground nut (*Vigna subterranean* L) verde in Kenya based on RAPDSQA and ISSR; ksh 103,000 (Collaborator)
- Characterization of virus-free Sweet Potato (*Ipomea batata*) Landraces Using Morphological and SSR Markers in East Kamagak, Homa Bay County-NCST 200,000ksh -2012-2013-Supervisor
- Evaluation of Mitigation and Response Strategies to Drought-Related Disasters for Sustainable Food Security in Makueni County NCST 1,200,000ksh - 2012-2014 -Supervisor
- Increasing the efficiency in value chain of Passion production in contrasting Kenya agroecologies; - -KAPAP -2012-2015 (Collaborator)

- Influence of Osmo and Hydropriming on Seed quality in Soybean Cultivars under Different Environmental Conditions and Mother Plant Nutrient Profiles – NACOSTI; ksh 699,000 ksh – 2013-2015 (Supervisor).
- Influence of one and two node cuttings on vegetatively propagated infilling tea plants –NACOSTI –ksh150, 000 2013-214 (Supervisor)

COLLABORATIVE RESEARCH

- i. Collaborative work with IITA, ICRAF and ALLIANCE of BIOVISION and CIAT on a project – Agroecology Imitative together with Dr. Cargele Masso, Dr. Fredrick Baijukya to mentor two MSc and one PhD (2022-2025).
- ii. Collaboration with International Institute of Tropical Agriculture (IITA)- (i) with support from Dr. Masso Cargele and Dr. Moses Thuita, sponsored Winnie Kimutai for MSc in Agronomy (KU-AST department) under;- COWBIA ‘Multi-purpose cowpea inoculation for improved yields in smallholder farms in Kenya’ (ii) With support from Dr. Cargele Masso and Dr. Moses Thuita under COMPRO II project sponsored Catherine Mathenge to undertake MSc Agronomy (KU-AST Department), (iii) with Support from Dr. Cargele Masso under International Nitrogen Management System-INMS, partially supported MSc (Agronomy) thesis for Winnie Ntinyari (KU-AST department), Winnie Ntinyari – PhD under INMS (full scholarship) starting June 2019. KALRO/KENYA WILDLIFE – Hilda Manzi and Symon Njinju – PhD scholarship starting 2019.
- iii. 2017: Collaborated with University of Nairobi, Rockefeller foundation, FAO and others in organising the 1st All Africa postharvest conference.
- iv. 2017: Collaborated with the University of Nairobi, KEFRI, JKUAT, Pwani University participated in Kenya Coastal Development Projected (KCDP) where four students were offered full scholarships to study in Kenyatta University to undertake Masters courses in (i) Agronomy (1 student), (ii) Zoology (1 student) and (iii) Environment (2 students).
- v. 2014: Collaboration with Humboldt Universitaet (Germany), Jaramogi Ogiga Odinga University of Science and Technology (JOUST) and Egerton University- Initially under a project “Diversifying Food systems: Horticultural Innovations and Learning for Improved Nutrition and Livelihoods- HORTINLEA
- vi. 2012: Collaboration with National Museums of Kenya in a project “African Nightshade distribution in Kenyan agroecologies in response to phosphorus and water status: Phenolics and related antioxidants profiling” under RUFORUM project.

2.2 RESEARCH PUBLICATIONS

2.2.1 REFEREED JOURNAL PAPERS

1. **Gweyi-Onyango J P**, Otieno E O, Wasike V, Manzi H, Antwi K and Ongoya G (2026) Adoption Determinants of Sustainable Climate Adaptive Strategies in Arid and Semi-Arid Agro-Ecozones of Kenya: Smallholder Maize Farmers’ Perspectives. *Sustainability* 2026, 18, 1591. doi.org/10.3390/su18031591

2. Zhou Y, Zhang X, Zou Y, Luxi Cheng L, Xu X, Chen Y, Zhan J, Tu H, Junjie Xu, Deng O, Pradhan M, **Gweyi-Onyango J**, Masso C and Gu B (2026). Cutting global nitrogen emissions by one-third for balanced and achievable SDGs by 2030, One Earth (2025), <https://doi.org/10.1016/j.oneear.2025.101562>
3. Lesharana P L, ·Otieno E O, Ngie M and **Gweyi-Onyango J P** (2025). Optimizing cattle and goat manure quality to improve fertility status of fragile soils in semi-arid agrozone of Samburu County, Kenya. Environmental Science and Pollution Research <https://doi.org/10.1007/s11356-025-37336-w>
4. Sakha, M.; **Gweyi-Onyango, J.P.**; Kaushal, M.; Baijukya, F.P.; Masso, C (2025). Native Arbuscular Mycorrhizal Fungal Communities in Trap Cultures Are Shaped by Traditional Host Plants and Agricultural Soils. J. Fungi **2025**, *11*, . <https://doi.org/10.3390/jof11110792>
5. Nambafu GN, Hoepfner N, Bessler H, **Gweyi-Onyango J P**, Andika D O, Mwonga S and Engels C (2025). Influence of soil phosphorus fertilizer forms on phosphorus uptake, morphology, and growth of leafy vegetables. Discover Soil (2025) 2:64. doi.org/10.1007/s44378-025-00094-9
6. Onyuka E, Nambafu G, Andika D, Mwonga S, **Gweyi-Onyango J**, Gitari H and Mairura FS (2025). Biophysical and farm management drivers of soil fertility under African small-scale systems in Kenya. *Farming System*. 3: (2025) 100157. doi.org/10.1016/j.farsys.2025.100157
7. Sakha M, **Gweyi-Onyango JP**, Masso C and Baijukya FP (2025). Diversity, characteristics, and abundance of native arbuscular mycorrhizal fungi in the semi-arid lands of Eastern Kenya. *Front. Microbiol.* 16:1582476. [doi: 10.3389/fmicb.2025.1582476](https://doi.org/10.3389/fmicb.2025.1582476)
8. Malo, M.O., Ladu, J.L.C., Mukeka, J., Maitra, S., Gitari, H. and **Gweyi-Onyango, J.** (2024). Spatial Distribution of Soil Organic Carbon Stocks, and Soil Total Nitrogen in Central Equatorial State, South Sudan. *Int. J. Bioresource Sci.*, 11(02): 181-190. [DOI: 10.30954/2347-9655.02.2024.16](https://doi.org/10.30954/2347-9655.02.2024.16)
9. Mogire, E.O., Miriti, J., Gitari, H. and **Gweyi-Onyango J P.** (2024). Influence of Irrigation and Soil Amendments on Growth, Yield, and Quality of French Beans in Salt-affected Soils. *Int. J. Bioresource Sci.*, 11(02): 97-108. [DOI: 10.30954/2347-9655.02.2024.1](https://doi.org/10.30954/2347-9655.02.2024.1)
10. Malo M O, Ladu JLC, Mukeka J and **Gweyi-Onyango J** (2024). Cattle population and attributed grazing intensities in Central Equatorial, South Sudan. *International Journal of Livestock Production*. 15(2): 7-14
11. Mwalu, R., Nduba, J., Maitra, S., Gweyi-Onyango, J. and Gitari, H. (2024). Review of Scientific Advances and Importance of Biochar for Agricultural and Industrial Uses. *Int. J. Bioresource Sci.*, 11(02): 259-273.
12. de Nijs E A, Bol R, **Gweyi-Onyango J**, van Hall R L, Ntinyari N and Tietema (2024). Co-composting to close the cycle of resources during rose cultivation in Kenya: An agronomic and pesticide residue assessment. *Cleaner Waste Systems*. 8 (2024) 100154. <https://doi.org/10.1016/j.clwas.2024.100154>
13. Masso C, **Gweyi-Onyango J**, Luoga HP, Yemefack, M, Vanlauwe, B. A (2024). Review on Nitrogen Flows and Obstacles to Sustainable Nitrogen Management within the Lake Victoria Basin, East Africa. *Sustainability* 2024, *16*, 4816. <https://doi.org/10.3390/su16114816>
14. Sakha, M., Jefwa, J., Mutua, L., Egesa, A.O., Gumo, P., Otieno, E. and **Gweyi-Onyango, J.P.** (2024). Most Probable Number Bioassays and Trap Culture Techniques are Promising in Estimating Quantitative and Qualitative Arbuscular

- Mycorrhizal Fungi. *Int. J. Bioresource Sci.*, 11(01): 01-14. [DOI: 10.30954/2347-9655.01.2024](https://doi.org/10.30954/2347-9655.01.2024).
15. Ntinyari W, Reichel R, **Gweyi-Onyango J**, Giweta M, Wissel H, Masso C, Bol R, Brüggemann N (2023). Nitrogen fertilization and liming increased CO₂ and N₂O emissions from tropical ferralsols, but not from a vertisol. *Soil Use and Management*.2023, 00:1-15. [DOI: 10.1111/sum.12927](https://doi.org/10.1111/sum.12927)
 16. Kaaria K, **Gweyi-Onyango J P** and Muui C (2023): Silicon amendment-influence on sorghum growth, yield, and nutrient uptake under water stress, *Journal of Plant Nutrition*. [DOI: 10.1080/01904167.2023.2222132](https://doi.org/10.1080/01904167.2023.2222132)
 17. Kagito S, Kikuta M, Samejima H, Gweyi-Onyango J P, Gikonyo E W, Gichuhi E W, Menge D M, Kimani J M, Yamauchi A and Makihara D (2023). Yield Responses of Upland Rice Varieties to Low N Conditions in Central Kenya. *Journal of Agricultural Science*; 15 (6): 19-29. doi.org/10.5539/jas.v15n6p19F
 18. Uwimana, J., Sakha, M., Danga, B., Gitari, H. and **Gweyi-Onyango, J.P.** (2022). Involvement of Plant Growth Regulators and Varieties in the Multiplication of Cassava Planting Materials: A case study of Rwanda. *Int. J. Bioresource Sci.*, 09(02): 163-172.
 19. Ntinyari W, **Gweyi-Onyango J**, Giweta M, Mutegi J, Mochoge B, Nziguheba G and Masso C (2022) Nitrogen budgets and nitrogen use efficiency as agricultural performance indicators in Lake Victoria basin. *Front. Sustain. Food Syst.* 6:1023579. [doi: 10.3389/fsufs.2022.1023579](https://doi.org/10.3389/fsufs.2022.1023579)
 20. Njinju S. M, **Gweyi J.** and Mayoli R.N (2022). Sorghum Production Challenges in Drought Areas of Siaya and Baringo Counties, Kenya. *East African .Agricultural and Forestry Journal*. 8 (2): 11-18.
 21. Ntinyari W, Giweta M, **Gweyi-Onyango J** , Mochoge B , Mutegi J , Nziguheba G and Cargele Masso C (2022). Assessment of the 2006 Abuja Fertilizer Declaration With Emphasis on Nitrogen Use Efficiency to Reduce Yield Gaps in Maize Production. *Front. Sustain. Food Syst.* 5:758724. [doi: 10.3389/fsufs.2021.758724](https://doi.org/10.3389/fsufs.2021.758724)
 22. Ntinyari W, **Gweyi-Onyango J**, Giweta M , Mochoge B , Mutegi J, Nziguheba G and Masso C (2022). Nitrogen use efficiency trends for sustainable crop productivity in Lake Victoria basin: smallholder farmers' perspectives on nitrogen cycling. *Environ. Res. Commun.* <https://doi.org/10.1088/2515-7620/ac40f2> 4 (2022) 015004.
 23. **Gweyi-Onyango J P**, Ntinyari W, Ogolla E A, Mose R, Njinju S, Giweta M, Masso C. (2021). Differences in seasons and rice varieties provide opportunities for improving nitrogen use efficiency and management in irrigated rice in Kenya. *Journal of Environmental Research Letters*. 16 (07) -5003. doi.org/10.1088/1748-9326/ac03dd
 24. Ngugi MM, Gitari I H, Muui C and **Gweyi-Onyango J P** (2021): Cadmium mobility, uptake, and accumulation in spinach, kale, and amaranths vegetables as influenced by silicon fertilization, *Bioremediation Journal*, [DOI: 10.1080/10889868.2021.1924111](https://doi.org/10.1080/10889868.2021.1924111)
 25. Ochieng' I O, Gitari H I , Mochoge B, Rezaei-Chiyaneh E R and **Gweyi-Onyango J P** (2021). Optimizing Maize Yield, Nitrogen Efficacy and Grain Protein Content under Different N Forms and Rate. *Journal of Soil Science and Plant Nutrition* <https://doi.org/10.1007/s42729-021-00486-0>
 26. Mwangi SM, Korir N K, Mose R , Osei-Kwarteng M , Akuja E T and **Gweyi-Onyango J P** (2021). Root Development Does Not Antagonize Regeneration of Double Node Vegetatively Propagated Tea (*Camellia Sinensis*) Cultivar Propagation *African Journal of Horticultural Science* 18 (2): 21-3

27. Kaaria K G, Gweyi-Onyango J P and Muui C W (2021). Influence of Water Regimes on Growth; Yield and Nutrient Uptake of Sorghum. *African Journal of Horticultural Science* 18 (2): 1-20
28. Mathenge C, Thuita, M Cargele Masso C, **Gweyi-Onyango J** and Vanlauwe B (2019). Variability of soybean response to rhizobia inoculant, vermicompost, and a legume-specific fertilizer blend in Siaya County of Kenya. *Soil & Tillage Research* 194 (2019) 104290. doi.org/10.1016/j.still.2019.06.007
29. Chimoita EL, Onyango CM, **Gweyi-Onyango J P** and Kimenju J W (2019) Socio-economic and Institutional Factors Influencing Uptake of Improved Sorghum Technologies in Embu, Kenya. *East African Agricultural and Forestry Journal* 83 (2): 69–79
30. Munyasi T and **Gweyi-Onyango JP** (2019). Growth and Nutritional Status of Sweet Pepper (*Capsicum Annum L.*) are Co-Influenced by Nitrogen Application and *Meloidogyne* Spp. Infection. *African Journal Horticultural Science*. 16:55 - 70
31. Wambua J. M, Korir N, Ngene S.M. and **Gweyi-Onyango J** (2018). Heavy metal concentration in amaranthus, cowpea, black nightshade and kale in response to wastewater irrigation in Kitui County, Kenya. *African Journal of Rural Development*: 3(4): 1025-1033
32. Sakha M A, Jefwa J and Gweyi-Onyango J P (2019). Effects of Arbuscular Mycorrhizal Fungal Inoculation on Growth and Yield of Two Sweet Potato Varieties. *Journal of Agriculture and Ecology Research International* 18(3): 1-8
33. Mbatha W N, Korir N K and **Gweyi-Onyango J P** (2019). Influence of SIRI fertilizer practice on yield components and grain yield of hybrid rice varieties in Kenya. *Asian Plant Research Journal*. 2(2): 1-7
34. Githua F W, Ntinyari W , Korir N K and **Gweyi-Onyango J P** (2019). Influence of Elemental Sulphur, Oxalic Acid, and Phosphoric Acid as Acidulating Agents on Phosphorous Dissolution from Rock Phosphate. *Journal of Agriculture and Ecology Research International*. 18(4): 1-8
35. Ngetich A, Korir N and **Gweyi-Onyango J P** (2018). Influence of Nitrogen Levels and Planting Architecture on Grain Amaranth in Kenya. *London Journal of Research in Science: Natural and Formal*. 18(3):43-49
36. Ntinyari W and **Gweyi-Onyango J P** (2018). Impact of Nitrogen Forms and Levels on Yield and Quality of Rice in Kirinyaga and Kisumu Counties Kenya. *Asian Journal of Soil Science and Plant Nutrition*. 3(4): 1-7.
37. Gweyi-Onyango J P (2018). Effects of Nitrogen Levels on Yield and Nitrogen Utilization Efficiencies of Two Rice Varieties in Kirinyaga County, Kenya. *African Journal of Horticultural Science*. 14:23-34
38. Etabo E. M, Wekha N. W, Korir N K and **Gweyi-Onyango J. P.** (2018). Effect of Phosphorus Levels on Soil Properties and Plant Tissues of Two Nerica Varieties. *Asian Soil Research Journal*. 1(3): 1-9.
39. Ntinyari W and **Gweyi-Onyango J** (2018). Biofertilizers as an Alternative to Inorganic Fertilizers in Sub-Saharan African: Is the Adoption the Missing Link? *Elexir Agriculture*. 114:49564-49551
40. Wekha N W, Korir N K, Ojulong, H F, Siambi M and Gweyi-Onyango JP (2018). Protein, Calcium, Zinc and Iron contents of Finger Millet Grain Response to Varietal Differences and Phosphorus Application in Kenya. *Agronomy-MDPI*. 8(24):1-9. [doi:10.3390/agronomy8020024](https://doi.org/10.3390/agronomy8020024).
41. Njinju S M, Samejima H, Katsura K, Kikuta M, **Gweyi-Onyango J P**, Kimani J M, Yamauchi A and Makihara D (2018). Grain yield responses of lowland rice varieties

- to increased amount of nitrogen fertilizer under tropical highland conditions in central Kenya. *Plant Production Science*. 109:1-12 doi.org/10.1080/1343943X.2018.1436000
42. Kariithi T, Thagana W and **Gweyi-Onyango J P** (2018). Influence of Organic and Inorganic Manures on Macro-Nutrients, Micro-Nutrients and Anti-Nutrients in two Amaranth spp in Kiambu County, Kenya. *Asian Journal of Research in Crop Science*. 1: (1) 1-17.
 43. Mwirigi P, **Gweyi-Onyango J** and Mwangi M (2018). Flowering and Fruiting of Yellow Passion Fruit (*Passiflora Edulis*, Var F. Flavicarpa. Deg) as Influenced by Different Fertilizer Applications in Kiambu and Embu Counties, Kenya. *The International Journal of Science & Technoledge*. 6(4): 28-31
 44. Kalawa I L, Wekha N. W, Korir N K and **Gweyi-Onyango J** (2018). Interaction Effect of Growth Regulators and Irrigation Schedules on Growth and Yield of French Beans in Kiambu County, Kenya. *Asian Journal of Research in Crop Science*. 1(1): 1-8.
 45. Miriko M C, Korir N K and **Gweyi-Onyango J P** (2018). Benefits of Rhizobial Inoculation and Phosphorus Application on Growth of Lucerne (*Medicago sativa*) in Kenya. *International Journal of Plant & Soil Science*. 21(6): 1-7
 46. Odhiambo O P, **Gweyi-Onyango J P** and Nawiri P M (2017). Effects of Water stress on Phenolics Content and Antioxidant Activity of African Nightshades. *Biofarmasi Journal of Natural Product Biochemistry*. 15(2) 79-95.
 47. Chimoita E L, Onyango C M, Kimenju J W, **Gweyi-Onyango J P** (2017). The Agricultural Extension Agents Influence on the Uptake of Improved Sorghum Technologies in Embu County, Kenya (2017). *Universal Journal of Agricultural Research* 5(4): 219-225. DOI: 10.13189/ujar.2017.050403.
 48. Munene R, Changamu E, Korir N and **Gweyi-Onyango J P** (2017). Differential Impact of Nitrogen Forms on Selected Phytochemicals and Oxalate Contents in Three Vegetable Amaranth Varieties in Kenya. *Annals, Food Science and Technology* 18(2) 238-256.
 49. Ocharo N. E, **Gweyi-Onyango J P** and Korir N K (2017). Green Pepper Growth and Yield Response to the Integration of Mulching Materials and Row Plant Spacing. *Journal of Agriculture and Crops*. 3(9) 72-77.
 50. Ngetich A R, **Gweyi-Onyango J P** and Korir N K (2017). Diagonal Offset Arrangement and Spacing Architecture Effect on Growth and Yield Components of Grain Amaranth in Kenya. *Asian Research Journal of Agriculture*. 6(1): 1-8
 51. Odhiambo P O, Nawiri P M, Musila W and **Gweyi-Onyango J P** (2017). Water Stress Effect on Total Antioxidant Activity and Total Phenolic Content of *Solanum scabrum* Mill and *Solanum scabrum* in Kiambu, Kenya. *International Journal of Biochemistry Research & Review*. 17(1): 1-9.
 52. Ocharo N. E, **Gweyi-Onyango J P** and Korir N K (2017). Plant Row Spacing Effect on Growth and Yield of Green Pepper (*Capsicum annum* L.) in Western Kenya. *Archives of Current Research International*. 7(3): 1-9.
 53. Chirchir G J, Mwangi M, Nyamongo D O and **Gweyi-Onyango J P** (2017). Effects of genotype and agro-ecological conditions on storability of soybean [*Glycine max* (L.) Merr.] seed. *Tropical Plant research: An Agricultural Journal* 4(1): 126–133. DOI: 10.22271/tpr.2017.v4.i1.019.
 54. Oyaro O J, Nawiri P, Musila W and **Gweyi-Onyango J P** (2017). Effect of Phosphorus Deficiency on Phenolics and Antioxidants Content of Two African Nightshade Varieties Grown in Kenya. *International Journal of Plant & Soil Science* 15(3): 1-11.

55. Osei-Kwarteng M, **Gweyi-Onyango J P** and Mahunu G K (2017). Commodity Systems Assessment Methodology of Postharvest Losses in Vegetable Amaranths: The Case of Tamale, Ghana. *International Journal of Agronomy*. 2017: 1-7. doi.org/10.1155/2017/1747869.
56. Munene R, Changamu E, Korir N and **Gweyi-Onyango J** (2017). Effects of different nitrogen forms on growth, phenolics, flavonoids and antioxidant activity in amaranth species. *Tropical Plant research: An Agricultural Journal* 4(1):81-89 DOI: 10.22271/tpr.2017.v4.i1.012
57. Munene R, Changamu E, Korir N and **Gweyi-Onyango J P** (2017). Comparison of Cationic and Anionic Forms of Nitrogen Fertilization on Growth and Calcium, Zinc and Iron Content in Shoots of Two Varieties of Vegetable Amaranth. *Journal of Agriculture and Ecology Research International*.11(1): 1-11
58. Wekha N. W, Siambi M, Ojulong H, Korir N and **Gweyi-Onyango J** (2017). Finger Millet (*Eleusine coracana* L) Fodder Yield Potential and Nutritive Value under Different Levels of Phosphorus in Rainfed Conditions. *Journal of Agriculture and Ecology Research International* 10(4): 1-10; ISSN: 2394-1073.
59. Ocharo N. E, **Gweyi-Onyango J P** and Korir N K (2017). Transparent, Black and Organic Mulches Effect on Weed Suppression in Green Pepper (*Capsicum annum* L) in Western Kenya. *Journal of Agricultural Studies*: 1(5):67-76:ISSN 2166-0379
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23. Odhiambo P O, Musila W, Nawiri M and Gweyi-Onyango J P (2015). Water stress effect on antioxidant activity and phenolic content of African nightshades in Kiambu county, Kenya. "Strengthening the experimental research environment-Field Experimentation" The 15th workshop on sustainable horticultural production in the tropics. The workshop held at Kenya Agricultural Research and Livestock Organization (KALRO), Kandara center & Horticultural research institute (HRI), Muranga county 1st-4th December, pp 23
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51. Ogembo J and Gweyi-Onyango J P (2012). Influence of monomeric aluminium on morphological characteristic and shelf life of selected amaranth species. Sustainable Horticultural production in the Tropics "How should we teach in Horticulture courses?" From frontal teaching to problem-based learning. Bondo University College (BUC), Bondo Kenya. 4th-7th December 2012, pg 36.
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53. Osei-Kwarteng M, Gweyi-Onyango J P and Mahunu G K (2012) Commodity Systems Assessment Methodology (CSAM) and Postharvest losses in Amaranthus: the case of Tamale, Northern Region of Ghana. International Workshop on Maintenance of the Quality within the value added chain with special focus on postharvest treatment, GaFooN pg 11; 16-22 September 2012; Yogyakarta, Indonesia.
54. Elizabeth Kabura Nyaga, Anthony Gikandi Muriithi and Joseph Patrick Gweyi-Onyango. A Mechanism to Discover Hidden Markets and to Improve Information Flow Towards Food Producers: A Case of Kiambu District, Kenya. "Resilience of agricultural systems against crises" Tropentag, September 19 - 21, 2012 in Göttingen. www.tropentag.de/abstract.php?code=cRuzJLs3
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60. Gweyi-Onyango J P, Neumann G and Roemheld V (2008). Effects of Different Forms of Nitrogen on Relative Growth Rate and Growth Components of Tomato

- (*Lycopersicon esculentum* Mill.). Value chain of fruits for local market, export and processing. 8th International workshop on Sustainable Horticultural Production in the Tropics, Masinde Muliro University of Science and Technology (MMUST)-Kakamega, Kenya 8th-11th 2008; pp 17.
61. Ekwee P.E and Gweyi-Onyango J P (2008). Environmental and Socio-Economic Aspects on Utilization of Wild Fruits in Arid and Semi-Arid of Kenya. Value chain of fruits for local market, export and processing. 8th International workshop on Sustainable Horticultural Production in the Tropics, Masinde Muliro University of Science and Technology (MMUST)-Kakamega, Kenya 8th-11th 2008; pp 13.
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 63. Gweyi-Onyango J P, G Neumann and V Roemheld (2006). Rock-Phosphate Alleviates Detrimental Effects of Aluminium in Tomato (*Lycopersicon esculentum* L) Production in Acid Soils. "Prosperity and Poverty in a Globalized World-Challenges for Agricultural Research. Tropentag. Universitaet Bonn, Bonn, Germany- 11th -13th October 2006. www.tropentag.de/2006/abstracts/links/neumann_mUd2hxyd.pdf
 64. Gweyi-Onyango J P, V Römheld, G Neumann (2006). Differential expression of adaptations for acquisition of sparingly soluble P sources in two genotypes of tomato. "Plant Nutrition Meets Plant Breeding" – First Joint conference of The German Society for Plant Nutrition – DGP (Annual Meeting) and The Research Centre Biotechnology & Plant Breeding – Universitaet Hohenheim; FSP (21st Colloquium), University of Hohenheim, Stuttgart, Germany. September 26-28, 2006.
 65. Mulwa, R., E.-A. Nuppenau and J. P. Gweyi-Onyango (2006). Incorporating Environmental Bads in Total Factor Productivity Estimation. A Paper presented in 1st Halle Efficiency and Productivity Analysis Workshop (HEPAW), Halle, Germany, June, 2006.
 66. Gweyi-Onyango, J. P; Römheld, V.; Neumann, G (2006). Rock phosphate alleviates detrimental effects of aluminium in tomato production on acid soils. Proceedings of 3rd International Symposium on Phosphorus Dynamics in the Soil-Plant Continuum, Uberlandia, Minas Gerais, Brazil, May14-19 2006; pp165-166, (eds). Vera M. C. Alves et al. Sete Lagoas: Embrapa Milho e Sorgo.

Professional courses

1. June 2010 – Study visit University to undertake project in Hydroponics and crop physiology modeling
2. May 2013-Undertook a course in Teaching Methodology offered by Center for Teaching and Excellence &Evaluation, Kenyatta University
3. September 2012- Undertook executive training on "Monitoring and Evaluation of Information Projects, Products & Services Using the SMART Toolkit" in Entebbe Uganda. Course organized by CTA in collaboration with RUFORUM
4. May 2010- understandin performance in Modelling Post-Harvest Quality of High Value Crops in East Africa. A course organized by DAAD in collaboration GAFOON and Leibniz Universitaet, Hannover

ONGOING PhD SUPERVISION

1. Winnie Kimutai “Effects of Organic and Inorganic Fertilizers on Sustainable Soil Health and Productivity of Rice in Kirinyaga County” – Thesis writing
2. Mr. Michael Sakha “Selected Agroecology Approaches for Maize Production, Nutrients Cycling and Soil Management in Central and Eastern, Kenya” Submitted thesis for examination
3. Odhiambo Peter Okello “Yield and Quality Responses of Amaranth s to Water Stress, Phosphorous and Organic and Inorganic Super-Absorbents in Machakos and Makueni counties, Kenya” proposal submitted to graduate school
4. Benvindo Serafim Manuel Mário Verde “Influence of Crop Residue Management on Soil Organic Carbon Dynamics, Nutrient Availability and Performance of Maize in Manica Province, Mozambique” Thesis writing
5. Andrew Adodi Achola “Characterizing and Mapping Sugarcane Area, Modelling Sugarcane Growth, Yield and Quality Under Rain-Fed Conditions in Morogoro, Tanzania” Thesis writing
6. Richard Malingumu “Optimization of Black Soldier Fly-Composted Organic Fertilizer for Improved Soil Fertility and Crop Productivity” data collection, analysis and thesis writing.
7. Daniel Kapsandui Malinga “Use of Slaughterhouse Wastes and Composted Organic Wastes as Organic Fertilizer Blend” Proposal development
8. Joyce Makasi Nzevu “Use of Recycled Fish Pond for Irrigation and Improved Soil Properties, Growth, Yield and Quality of Amaranths and Cowpea in Kitui County, Kenya” Data collection
9. Stephen Wanjala Wamalwa “Regenerative Management Strategies Effects on Soil Health, Greenhouse Gas Emissions, Maize Yields and Modelling in Trans-Nzoia County” – Proposal defended in the department awaiting submission

ONGOING MASTERS SUPERVISION

1. Elizabeth Wambui Maina “Phosphorus Use Efficiency, Growth and Yield of Upland Rice as Influenced by Various Levels of Phosphorus, Kirinyaga County, Kenya” Defended thesis- Graduating in July 2026
2. Mr. Abdullahi Madey Adan “Evaluation of Grazing Strategies on Soil Carbon Stocks and Pasture Quality in Agro-Pastoral Systems of Mandera County, Kenya” Thesis writing
3. John Karanja Nyamu “Effects of Organic Matter and pH in Heavy Metals Uptake and Transfer by Selected Leafy Vegetables Nairobi County, Kenya”- Thesis writing
4. Drusilla Cherono “Effects of Nitrogen Rates on Growth, Yield, Nitrogen Use Efficiencies and Recovery by Pearl Millet and Sorghum In Kiambu County” Data collection and analysis
5. Ruth Ndichu “Evaluating of Potassium Forms on Growth, Yield, Quality and Seeds of Irish Potatoes in Nyandarua County, Kenya” Defended thesis- graduating in July 2026
6. Mr. Omoke Onger Douglas “Evaluation of Genotypic Effect on Selected Micronutrient, Phytochemical and Antinutrient Levels Irish Potatoes Grown in Nyandarua County, Kenya” Data collection

7. Mr. Gumo Pius Okelo “Manure, Intercropping Patterns and Mulching in Enhancing Yield Stability of Selected Crops, Nutrient Use Efficiency and Soil Biotic Diversity”-Defended thesis- graduating in July 2026
8. Mr. Machio Mbelwa “Manure and Cover Crops for Improved Yield of Selected Crops and Soil Ecosystem” Data collection and analysis
9. Ms/Elizabeth Njeri Njagi “Different Fertilizer Application Rate Effects on Anthocyanin Content of Purple Tea in Meru County, Kenya”- Data collection
10. Patrick Lpima Ri Lesharana “Assessing Effects of Different Manure Management Practices on Soil Nutrient Availability in Samburu County, Kenya” Defended thesis- graduating in July 2027
11. Patrick Lemargeroi Lpopiroi “Evaluation of Tomato Growth, Quality and Yield Under Greenhouse and Shade Net Farming Technologies in Samburu County, Kenya” Defended thesis- graduating in July 2026
12. Mr. John Maina Gitonga “Soil Limiting Water Status, Soil Physicochemical Properties and Species Defense Indicators on Wild Grass Diversity in Laikipia County, Kenya” Data collection
13. Okirigiti Johnson Mokobi “Intercropping Patterns and Phosphorous Application on Productivity, Nutrient Use Efficiency, and Soil Chemical Properties in Maize and Cowpea in Kajiado County”
14. Mercy Kemei “Priming Methods and Accelerated Ageing on Seed Quality and Growth of Selected Peanut Varieties in Nairobi City County, Kenya” Data collection
15. Rahab Njeri Kariuki “French Bean (*Phaseolus Vulgaris* L) Production under Reduced Irrigation Frequencies Through Biostimulant Application in Kiambu County, Kenya” Data collection
16. Elias Mwanja Wafula “Performance of Soybean (*Glycine Max*), Under Inoculation of Seed with Rhizobium (*Bradyrhizobium spp*), Nitrogen and Phosphorous Application”
17. Kennedy Kiplagat Keter “Evaluation of Temperature Tolerance In Rice Varieties At Different Growth Stages in Mwea, Kirinyaga County, Kenya” writing thesis
18. Martin Ngugi Mutai “Alternate Wetting and Drying and Nitrogen Fertilization on Growth, Yield and Nitrogen Use Efficiencies of Nerica Rice Varieties in Kirinyaga County, Kenya”
19. Christine Wangui Ngunjiri “Biochar-based integrated strategies for enhanced soil chemical fertility and maize productivity in Kiambu County, Kenya”
20. Violet Barasa “Organic Soil Amendment for Amelioration of Salinity in Selected Vegetables in Kajiado County, Kenya” data collection.
21. Helen Gichinga “Responses of Potato to Different Fertilizer Rates and Combinations, Cropping Systems, Inherent Soil Properties and Sites in Nyandarua County, Kenya” Data collection
22. Robert Owao “Yield and Quality of Napier Varieties under Tumbukiza, Mulching and Conventional Practices in Machakos County, Kenya”- data collection
23. Chrispine Olindo “Optimization of Nitrogen Rates Uptake and Use Efficiencies of Maize (*Zea Mays L.*) Under Sole and Soybean (*Glycine Max L.*) Intercrop in Kakamega County, Kenya”-defended proposal

PHD SUPERVISION COMPLETED

1. Meshack Malo “Grazing intensity impacts on carbon stocks and nitrogen fluxes in soil and vegetation in Central Equatorial State, South Sudan” **Graduated in July 2025 (Supervisors: Prof Joseph Onyango, Prof. John Leju, and Dr. Joseph Mukeka)**
2. Symon Mugo “Physiological, morphological, and biochemical responses of sorghum varieties progressive water stress and rehydration in Siaya and Baringo Counties, Kenya” **Graduated in July 2025 (supervisors: Prof. Joseph Onyango Gweyi, and Dr. Rose Mayoli)**
3. Finyange Pole “Evaluation of inorganic and organic fertilizers on productivity and quality of Bixa Orellana in Kwale County, Kenya” Graduated on 19th July 2024 **(supervisors: Prof Joseph Onyango, Prof. Jane Ambuko, and Dr. Lusike Wasilwa)**
4. Manzi Hilda Kalekye “Characterization of Sorghum and Green Gram for Data Estimation Using Earth Observation in Machakos and Tharaka-Nithi Counties, Kenya” Graduated on 19th July 2024 **(Supervisors: Prof. Joseph Onyango Gweyi and Dr. Shadrack Ngene).**
5. Winnie Ntinyari “Assessment of nitrogen flows and greenhouse gases in cropping systems for improved nitrogen management in Lake Victoria basin.” graduated on 16th December 2022 (Supervisors: **Prof. Joseph Onyango Gweyi, Dr. Cargele Masso and Prof Benson Mochoge**).
6. Geoffrey Ongoya “Integration of Thymol soil improvers under biostimulants for management of Tomato pests, diseases, nematodes and rhizosphere microbial dynamics in Mwea, Kenya” **Graduated in July 2022 (supervisors: Prof. Waceke Wanjohi, Joseph Onyango, and Dr. Ruth Gathu)**
7. David Kipkurui Rono “Environmental and Socioeconomic Impact of Untreated Wastewater Use in Vegetable Production Urban and Peri- Urban area in Nairobi County. Masinde Muliro University of Science and Technology. PhD **(Graduated in December 2021). (Prof. Jacob Wakhungu, Dr. Joseph Onyango Gweyi)**
8. Ahmat Filbert Leone “Use of Rock phosphate and *Tithonia diversifolia* in Maize-bean intercrop for improved Maize Yield in Contrasting Agroecologies in Kenyan:– Kenyatta University- graduated in July 2015 **(supervisors; Dr Joseph Onyango Gweyi, Dr Jayne Mugwe and Dr Stephen Kimani)**
9. Chirchir Grace Jepleting “Influence of Osmo and Hydropriming on Seed quality in Soybean Cultivars under Different Environmental Conditions and Mother Plant Nutrient Profiles”- Graduated in December 2015 (supervisors: **Dr Joseph Onyango Gweyi, Dr Maina Mwangi and Dr Desterio Nyamongo**).
10. Lydia Kivuva Mutua “Evaluation of Mitigation and Response Strategies to Drought-Related Disasters for Sustainable Food Security in Makueni County, Kenya” Masinde Muliro University-Graduated in December 2016 (Supervisors: **Dr Stanley Omuterema and Dr. Joseph Onyango Gweyi**)

11. Chimoita Ligare Evans-“Factors influencing Production of Sorghum in Embu, Kenya”- PhD –UON- graduated in December 2017 (**Supervisor: Dr. Cecil Onyango, Dr Joseph Onyango Gweyi and Prof John Kimenju**).
12. Geoffrey Nakitare Nambafu “Mineral Management in African Indigenous Vegetable” Faculty of Life Sciences of the Humboldt-Universität zu Berlin, Germany-Graduated on 6th July 2018 (supervisors: **Prof. Dr. Christof Engels and Dr. Joseph P Onyango Gweyi**).
13. Peter Mwirigi: Morphological characterization, water stress tolerance and nutrient management of yellow passion fruits (*Passiflora edulis* f. *flavicarpa*) in Mbeere District, Embu County-Submitted thesis for examination (KU)- graduated in July 2019 (**Supervisors: Dr Maina Mwangi and Dr. Joseph P Onyango Gweyi**).
14. Judy Mwendu Wambua. “Waste Water Utilization and its Effect on Growth and Quality Aspects of Kale and African Indigenous Vegetables and their Distribution in Kitui County, Kenya” Kenyatta University (**Graduated December, 2019**). **Supervisors: Dr. Joseph P Onyango Gweyi, Dr. Nicholas Korir and Dr. Shadrack Ngene**).

MASTERS SUPERVISION COMPLETED

1. Mr. Koech Kiplangat Stanley “Effects of Selected Micronutrients on Pest and Disease Resistance, Yield and Quality of Tomato in Bomet County, Kenya” (**Supervisor: Dr. Everyne Samita, and Prof. Joseph Onyango**).
2. Ms. Mercy Kirui “Adoption of green building practices in Langata Nairobi city, Kenya” (**Supervisors: Prof. Esther Kitur and Joseph Onyango**).
3. Mr. Mwingirwa Joshua “Maize grain yield, profitability and selected soil properties as influenced by tillage systems and polyacrylamide application in Meru Conty Kenya”. (**Supervisor: Prof. Jayne Mugwe, and Prof. Joseph Onyango**).
4. Mr. Menza Khambi “Mangrove Forest cover and management systems in Kilifi, County, Kenya” (**Supervisors: Dr. Frederick Tamooch and Prof. Joseph Onyango**).
5. Ms. Jossette Uwimana “Evaluation of rapid propagation schemes and spacing for optimization of cassava pre-basic seeds production in Rwanda” (**Supervisors: Prof. Joseph Onyango, Dr. Silver Tumwegamire and Dr. Benjamin Danga**).
6. Mr. Justus Mogaka Mayaka “Evaluation of pre emergence harbicudes for control of annual grass and broad-leaved weeds in finger millet in Kakamega County, Kenya” (**Supervisors: Dr. Nicholas Korir and Prof. Joseph Onyango**).
7. Ms. Christabel Makari “Growth and yield responses of beans, cowpea, and Bambara nuts to phosphorus fertilization in Kakamega County, Kenya” (**Supervisors: Prof. Joseph Onyango, Dr. Sylvia Henga**).
8. Phelistus Watitwa; “An Investigation of Student Related Factors that Affect Performance in Biology Practicals in Teso District-Kenya” – Masinde Muliro University- graduated in 2010 (**Supervisor Joseph Onyango Gweyi and Michieka Ronald Mongare**).

9. Evans Ligare Chimoita; “Secondary School Students’ Understanding of energy flow in ecosystems: A case of Lugari district” –Masinde Muliro- Graduated in 2011 (**Supervisors: Dr. Joseph Onyango Gweyi and Herman E Embeywa**).
10. Rosa Onyango; “Characterization of virus-free Sweet Potato (*Ipomea batata*) Landraces Using Morphological and SSR Markers in East Kamagak, Homa Bay County” – Kenyatta University- graduated in 2014 (**Supervisors: Dr Wilson Thagana and Dr. Joseph Onyango Gweyi**).
11. Simon Mwangi Mwai “Influence of One and Two Node Cuttings on Vegetatively Propagated Infilling Tea Plants” Graduated in December 2014 (**Supervisors: Dr Nicholas Korir and Dr Joseph Onyango Gweyi**).
12. Anyang Robert Tabot “Effects of Varietal Differences, Plant Spacing and Weeding Regimes on Weed Density and Yields of Upland Rice in Uganda” Kenyatta University –graduated in July 2015 (**Supervisors: Dr. Joseph Onyango Gweyi and Dr. Wilson Thagana**).
13. Odhiambo Peter Okello “Water Stress Effect on African Nightshades Distribution and their Antioxidant Production in Kisii and Siaya counties, Kenya” Kenyatta University-graduated in July 2015(**Supervisors: Dr Joseph Onyango Gweyi, Dr Pauline Nawiri and Dr. Winnie Musila**).
14. Joel Ogembo Oyaro “Effects of Phosphorus Deficiency on Secondary Metabolites and African Nightshade Distribution in Kisii and Siaya counties, Kenyan” Kenyatta University- graduated in December 2015 (**Supervisors: Dr Joseph Onyango Gweyi, Dr. Pauline Nawiri and Dr Winnie Musila**).
15. Joas Tugizimana “Effect of Soil and Water Conservation Techniques on Soil Productivity and Bean Yield in Nyamasheke District –Rwanda” Kenyatta University-graduated in December 2015 (**Supervisors: Dr Kennedy Mwetu and Dr. Joseph Onyango Gweyi**).
16. Keneddy Alai “An analysis of public awareness campaigns and fire disaster risk reduction in Kenya: a case study of Nairobi”- Masinde Muliro University- Graduated December 6th 2016 (**Supervisors: Dr. Stanley Omuterema and Dr. Joseph Onyango Gweyi**).
17. Wafula Nelson Wekha “Effects of phosphate rates on nitrogen uptake, growth, yields and quality of finger millets in Busia and Kakamega counties, Kenya”-Kenyatta University-Graduated in August 2017. (**Supervisor: Dr. Joseph Onyango Gweyi, Dr. Nicholas Korir and Dr. Henry Ojulong**).
18. Winnie Kimutai “Assessing the Effect of Cowpea Genotype to Inoculation with Selected Native Rhizobia in Kilifi and Embu Counties, Kenya”-Kenyatta University- Graduated on 4th August 2017 (**Supervisors: Dr. Joseph Onyango Gweyi, Dr. Cargele Masso and Dr. Moses Thuita**).
19. Catherine Mathenge “Investigating Rhizobial Inoculation in Soybean (*Glycine max*) as Influenced by Soil Nitrogen and Carbon Levels in Varying Soil Textures” Kenyatta University-Graduated on 4th August 2017 (**Supervisors: Dr. Joseph Onyango Gweyi, Dr. Cargele Masso and Dr. Moses Thuita**).

20. Ikiba Lawrence Kalawa “Effects of Gibberellic acid and Cytokinin application on Morphological Development, Growth, Quality and Yield of French Beans Grown Under Different Irrigation Schedules”- Kenyatta University-Graduated on 4th August 2017 (**Supervisors: Dr. Nicholas Korir and Dr. Joseph Onyango Gweyi**).
21. Munyasi Tom. Effect of Inorganic Fertilizer on Root Knot Nematode *Meloidogyne* spp. in Greenhouse Sweet Pepper (*Capsicum annuum* L.) Production in Kenya. Kenyatta University, completed in July 2017- to graduate in December 2017 (**Supervisors: Dr George M Kariuki and Dr. Joseph Onyango Gweyi**).
22. Rosepiah Munene “Effects of Nitrogen Forms on growth, Yield and Quality of Amaranths Accessions in Nairobi, Kiambu and Kirinyaga Counties” Kenyatta University- completed in September 2017- to graduate in December 2017 (**Supervisors: Dr. Joseph Onyango Gweyi, Dr. Nicholas Korir and Dr. Evans Changamu**).
23. Edgar Ocharo “Row Spacing and Mulching on Weed Control, Growth and Yield of Green Pepper in Busia County, Kenya” graduated on 3rd August 2018 (**Supervisors: Dr. Nicholas Korir and Dr. Joseph Onyango Gweyi**).
24. Tabitha Kariithi “Effect of Organic and Inorganic Fertilizers on Yield and Quality of Amaranthus Species in Kiambu County” graduated on 3rd August 2018 (**Supervisors: Dr. Joseph Onyango Gweyi and Dr. Wilson Thagana**).
25. Ntinyari Winnie “Evaluation of Nutrient Management for Improved for Improved Nitrogen Use and Agronomic Efficiencies in Rice (*Oryza sativa* L) in Kisumu, Busia and Kirinyaga Counties, Kenya” (**Supervisors: Dr. Joseph Onyango Gweyi and Dr Cargele Masso**).
26. Cirhuza Mirali Jackson “Effects of Phosphorus and Cassava-Soybean Intercrop on Soybean Nodulation and Cassava Yield in South-Kivu, Democratic Republic of Congo” (**Supervisors: Dr. Joseph Onyango Gweyi, Leon Nabahungu Nsharwasi and Felix Ngetich**).
27. Symon Mugo Njinju “Influence of Variety and Nitrogen fertilization regimes and on growth, yield and quality of rice in Mwea irrigation scheme, Kenya” (**Supervisors: Dr. Joseph Onyango Gweyi, Dr. Mukiri wa Githendu and prof Daigo Makihara**).
28. Alice Ngetich. Influence of Intra-row Spacing and Nitrogen Rates on Growth, Yield Components, Yields and Plasticity of Grain Amaranth in Kajiado County, Kenya (**Supervisor: Dr. Nicholas Korir and Dr. Joseph Onyango Gweyi**).
29. Mutuerandu Catherine Miriko “Effects of Phosphorous and Rhizobia Inoculation on Growth and Yield of Desmodium and Lucerne in Kiambu County, Kenya” (**Dr. Joseph Onyango Gweyi and Dr. Nicholas Korir**).
30. Mr. Sakha Ajanja Michael “Effectiveness of Mycorrhizal Fungi Inoculant on Phosphorus Uptake, Growth, and Yield Production of Two Varieties of Sweet Potato (*Ipomoea batatas* (L) Lam)” Graduated in July 2019- (**supervisors: Dr. Joseph Onyango Gweyi and Dr Joyce M Jefwa**).
31. Mr. Etabo Edung Mathew “Effects of Irrigation and Fertilizer on Yield of Nerica Rice in Turkana County” Graduated in December 2019 (**Supervisors: Dr. Nicholas Korir and Dr. Joseph Onyango Gweyi**).

32. Fidelis Githua “Effects of Acidulated Rock Phosphate on Growth and Yield Performance of Selected Leafy Vegetables in Kiambu County, Kenya” Graduate in December 2019 (**Supervisors: Dr. Joseph Onyango Gweyi and Dr. Nicholas Korir**)
33. Sammy K Kagito “Physiological and Morphological Basis of Yield Responses of Upland Rice Varieties (*Oryza sativa*) to Low Nitrogen in Mwea, Kirinyaga County” Graduated in December 2019 (**Supervisors: Dr Joseph Onyango Gweyi and Dr. Esther Gikonyo**).
34. Mr. Nicholas Mbatha “Response of Hybrid Rice (*Oryza sativa* L.) Varieties to System of Rice Intensification Fertilizer Practices in Ahero and Mwea Irrigation Schemes” Graduated 2020) (**Supervisor: Dr. Nicholas Korir and Dr. Joseph Onyango Gweyi**).
35. Chelangat Awa “Influence of Arbuscular Mycorrhizae on Plant Phosphorous Nutrition, Rooting, and Growth of Tea Clones” (Completed 2021) (**Supervisor: Dr. Joseph Onyango Gweyi and Dr. Nicholas Korir**).
36. Hassan Kiprotich. Effects of Inorganic and Organomineral fertilizer on Soil properties, growth and yield of Tea (*Camellia sinensis* (L). o kuntze) clones (July 2020) (Supervisors: **Dr. Nicholas and Dr. Joseph Onyango Gweyi**),
37. Musito James Wafula “Effect of Mulching on Physiology, Growth, Quality and Yield of Tomato (*Solanum lycopersicum*) in Bungoma County” (Graduated 2020) (Supervisors: **Dr. Joseph Onyango Gweyi and Dr. Everlyne Samita**).
38. Mr. Achola Andrew “Effect of Synthetic Cytokinin on Germination and Tillering of Selected Sugarcane Varieties in Kabras Area, Kakamega County” (Graduated in December 2020). (**Dr. Nicholas Korir, Dr. Joseph Onyango Gweyi and Dr. George Omoto**).
39. Richard Mose “Effect of Uv-B Exclusion and Selenium Nutrition on Catechins, Antioxidant Activity and Amino Acids in Tea Varieties in Kericho County” (Graduated in 2019) (Supervisor: **Dr. Joseph Onyango Gweyi and Dr. Simon Ochanda**)
40. Nyakwana N. Duke “Effect of Nitrogen Fertilizer and Harvesting age on Yield, Quality and Rhizosphere Micro-Organisms of Rhode grass and Pearl Millet in Kiambu County” (Graduate in 2021) (Supervisors: **Dr. Joseph Onyango Gweyi and Dr. Isaac Osuga**).
41. Christabel M. Makari “Growth and Yield Responses of Beans, Cowpea and Bambara Nuts to Phosphorus Fertilization in Kakamega County” -Graduated 22nd July 2022) (**Supervisors: Prof Joseph Onyango Gweyi and Dr. Sylvia Henga**)
42. Justus Mogaka Mayaka “Effectiveness of Pre- Emergence Herbicides in Control of Annual Grass and Broad-Leaved Weeds in Direct Sown Finger Millet (*Elusine coracana*) in Western Kenya -Graduated on 16th December 2022 (**Supervisors: Dr. Nicholas and Prof. Joseph Gweyi**).
43. Josette Uwimana “Evaluation of Rapid Propagation Schemes and Spacing for Optimization of Cassava Pre-Basic Seeds Production Seeds Production in Rwanda”

Graduated on 21st of July, 2023 (**Supervisors: Prof. Joseph Gweyi, Dr. Silver Tumwegamire and Dr. Benjamin Danga**).

44. Edward Menza Khambi “Mangrove Forest Cover and Management Systems in Kilifi County, Kenya”. Graduated on 21st July 2023 (Supervisors: **Dr. Fredrick Tamooah and Prof. Joseph Gweyi**).
45. **Joshua Mwingirwa Gitaari** “Maize Grain Yield, Profitability and Selected Soil Properties as Influenced by Tillage Systems and Polyacrylamide Application in Meru County, Kenya” Graduated on 21st July 2023 (Supervisors: **Prof. Jayne Mugwe and Prof. Joseph Gweyi**).
46. Erick Mogire Osoro “Soil Amendment and Irrigation Influence on Growth, Yield, Quality and Heavy Metal Uptake in French Beans in Machakos County, Kenya” Graduated in July 2025. (**Supervisors: Prof. Joseph Gweyi and Dr. Joseph Miriti**).
47. Mr. Musumba James Orinda “Silicon and Application Methods Influence on Growth, Yield, Nutritional Quality, Pest and Pathogen Management of Tomato in Kiambu County, Kenya. Graduated on 18th July 2025. (**Supervisors: Prof. Joseph Gweyi and Dr. Samita Namikoye**).

2.4 PROFESSIONAL / CONSULTING

i. Evidence of networking and collaborating with at least two external organisations

1. Collaboration with International Institute of Tropical Agriculture (IITA)- (i) with support from Dr. Masso Cargele and Dr. Moses Thuita, sponsored Winnie Kimutai for MSc in Agronomy (KU-AST department) under;- COWBIA “Multi-purpose cowpea inoculation for improved yields in smallholder farms in Kenya” (ii) With support from Dr. Cargele Masso and Dr. Moses Thuita under COMPRO II project sponsored Catherine Mathenge to undertake MSc Agronomy (KU-AST Department), (iii) with Support from Dr. Cargele Masso under International Nitrogen Management System- INMS, partially supported MSc (Agronomy) thesis for Winnie Ntinyari (KU-AST department), **Winnie Ntinyari – PhD under INMS (full scholarship) starting June 2019. KALRO/KENYA WILDLIFE – Hilda Manzi and Symon Njinju – PhD scholarship starting 2019.**
2. 2017: Collaborated with University of Nairobi, Rockefeller foundation, FAO and others in organising the 1st All Africa postharvest conference.
3. 2017: Collaborated with the University of Nairobi, KEFRI, JKUAT, Pwani University participated in Kenya Coastal Development Projected (KCDP) where four students were offered full scholarships to study in Kenyatta University to undertake Masters courses in (i) Agronomy (1 student), (ii) Zoology (1 student) and (iii) Environment (2 students).
4. 2014: Collaboration with Humboldt Universitaet (Germany), Jaramogi Ogiga Odinga University of Science and Technology (JOUST) and Egerton University- Initially under a project “Diversifying Food systems: Horticultural Innovations and Learning for Improved Nutrition and Livelihoods- HORTINLEA

5. 2012: Collaboration with National Museums of Kenya and KALRO Kibos in a project “African Nightshade distribution in Kenyan agroecologies in response to phosphorus and water status: Phenolics and related antioxidants profiling” under RUFORUM project.

ii. A referee for professional periodical or being an invited member of an editorial board

1. 2022-Appointed reviewer, Environmental Research Communication
2. 2002- Appointer reviewer, Plant-Environmental interaction Journal
3. 2022- Appointed reviewer, Environmental Research Letters
4. 2022-Appointer reviewer, Frontiers in Sustainable food Systems
5. 2021- Appointed reviewer, All Life Journal (Taylor and Francis)
6. 2018-Appointed reviewer, International Journal of Plant and Soil Science
7. 2018: Appointed reviewer, African Journal of Food, Agriculture, Nutrition and Development (AJFAND)
8. 2016: Appointed reviewer, African Journal of Horticultural Science
9. 2016: Appointed as editorial board member of the Journal of Dynamics in Agricultural Research (JDAR)
10. 2022-Appointed to Review Research grants: ARISE by The African Academy of Sciences

iii. Appointment to National, regional or international boards as a consultant

1. April –July 2017: Appointed to offered Consultancy Services to betweenThe Horn Economic and Social Policy Institute (HESPI) for Assessment of status of Warehouse Receipt System (WRS) in Kenya and Uganda
2. 16th of May 2018-Appointed by Ministry of Agriculture, Livestock and Fisheries as member of board of National Technical Committee on Food Loss and Waster Reduction.

iv. Consulting for an external academic / professional organisations/ institutions

1. 2017, 19th Dec: Appointed Member, organising committee of the 1st All Africa Post Harvest congress and Exhibition.
2. 2018 July: Appointed external reviewer to review proposals “SCIENTIFIC COOPERATION GRANT INITIATIVE FOR EASTERN AFRICA”
3. May 2016-Appointed as expert reviewer for Kenya Plant Health Inspectorate Service (KEPHIS) for opinion on import of bio-fertilizer.

v. Membership to academic/professional bodies

1. Member of Kenya DAAD scholars association
2. Member of East African Soil Science Society
3. Executive member of Horticultural Association of Kenya
4. Member of German Alumnus Food network (GaFooN)
5. Member and Vice President of Afro-GaFooN (African Branch of GaFooN)

vi. Any other:

a. External examiner for other universities

- Jomo Kenyatta University of Agriculture and Technology, Department of Horticulture- Mr. Juma Robinson Jalang’o; “Response of Tissue Cultured Bananas inoculated with Arbuscular Mycorrhizal Fungi” MSc, (2011).
- University of Nairobi, Department of Land Resource Management and Technology. M/s Sibusisiwe Caroline Kamanga “Effect of Organic and

- Inorganic Fertilizer Application on Soil Properties, Striga Density and Maize Yield” MSc, (2013)
- University of Nairobi, Department of Land Resource Management and Technology. M/s Genga Quintar Acholar “organic based soil fertility management strategies for production of marketable quality kales in kiambu county, kenya” MSc, (2013).
 - Masinde Muliro University of Science and Technology. M/s Florence Wakiuru Muchiri “Role of health and safety measures in disaster risk reduction strategy in selected Kenya horticultural research institutions- PhD (2015).
 - Masinde Muliro University of Science and Technology, Ms Stella Tino “gender and agricultural production in post conflict greater Gulu district, Uganda” PhD, (2015)
 - Masinde Muliro University of Science and Technology-M/s Mary Stella Wabwoba “Household vulnerability to food insecurity in Bungoma County, Kenya” PhD, (2015)
 - University of Nairobi, Department of Land Resource Management and Technology. M/s Noel Anyuka Templer “Enhancing Phosphorus Release from Minjingu Rock Phosphate using Legume-Maize Cropping Systems for Improved Maize Yields and Soil Properties in Kabete, Kiambu County” MSc, (2014)
 - University of Nairobi, Department of Land Resource Management and Technology. Mr. Maloba Etabale “Application of Ethephon and Potassium Nitrate to Induce Off-season Flowering and Fruit Production in Mango Fruits” MSc-University of Nairobi, (2016)
 - Masinde Muliro University of Science and Technology. Mr. Asiema Onesmus Ayuya “Adoption of On-farm Water Soil Erosion Control Structures in Vihiga County Kenya” MSc-(2016)
 - Department of Horticulture, Jomo Kenyatta University of Agriculture and Technology Mr. Mwashasha Rashid Mwajita “Use of Bio-Fertilizers for Sustainable Rice Production in Kenya” PhD, (2016)
 - University of Nairobi, Department of Land Resource Management and Technology. M/s. Sitienei Ruth Chemutai’s “Monitoring Changes in Soil Carbon, Moisture Content, Nutrient Status and Maize Yield in A Legume-Maize (*Zea mays* L) Cropping Sequence in Kabete” MSc, (2016).
 - Department of Crop production and protection, University of Nairobi, M/s Wairimu Jacinta Muiruri “Evaluation of Maturity Indices for Selected Mango Varieties and the Effect of Harvest Maturity of Quality Attributes” MSc (2016).
 - Masinde Muliro University of Science and Technology, M/S Maureen Kaleha Amayi. “The Role of Urban Agriculture in Enhancing Nutrition Security among Households in Embakasi Subcounty, Kenya” MSc, (2016).
 - Masinde Muliro University of Science and Technology, Agnes Edid Koome “Fire Hazards Influencing Vulnerability in Kibera Informal Settlement, Nairobi County, Kenya” PhD, (2016).
 - University of Nairobi, Department of Land Resource Management and Technology, Mr. Paul Anguria “Nutrient Management Options for Enhancing Sesame (*Sesamum indicum* L.) Seed Quality in North Eastern Uganda” (2017).
 - Center of Disaster Management, Masinde Muliro University of Science and Technology, Mr. Kennedy Otieno Ongeko “Climate Change Impacts and its

Relation to Community Knowledge, Risk Perception and Adaption Strategies in Homa Bay County, Kenya”, PhD, (2017).

- Department of Crop production and protection, University of Nairobi. Mr. Joseph K. Njuguna “Optimization of Mango (*Mangifera Indica* L) Mineral Nutrition for Jelly Seed Control, Improved Yield, and Better Fruit and Better Fruit Quality” PhD, (2017).
- **Addis Ababa University, Department of Microbial, Cellular and Molecular Biology**, Mr. Edossa Fikiru Wayima “Evaluation of Aluminium Tolerance and Genetic Diversity of Ethiopian Durum Wheat Germplasm” PhD-(2017).
- University of Nairobi, Department of Land Resource Management and Technology. Mr. Kizito Musundi Kwenza “Contribution of Pigeon pea to Nitrogen, Phosphorus and Crop Yields in Maize Cropping Systems in Kenya” PhD -(2018)
- Department of Crop production and protection, University of Nairobi, Mr. Geoffrey Muchoki Nganga “Effect of Spacing and Quantity of Inorganic Fertilizer Used on Tomato Seed Production” -. MSc (2018)
- Department of Crop production and protection, University of Nairobi.-Mr. Peter M. Mutiso “Effect of Fertilizer Microdosing and *in situ* Moisture Conservation Techniques on Yield and Resource Use Efficiency of Pearl Millet in Makueni”- MSc, (2018).
- Chuka University, Mr. Nicasio Njiru Njagi’s “Assessment of Perceptions on the Adaptation of New Grain Storage Technologies in Mbeere, Embu Sub-County, Kenya” MSc, (2018).
- Masinde Muliro University, M/s Omach Lilian Adhiambo “Influence of Agricultural extension Education on Marketing of poultry products in Butere sub-County, Kakamega County, Kenya- MSc (2019).
- Masinde Muliro University, Mr. Wislon G.S Oduori “Contribution of Human and Technological Factors to the farmers field schools (FFS) sustainability in Busia County, Western Kenya – MSc (2019).
- Masinde Muliro University, Tabitha Auma Ojuodhi “Influence of Information Access on Adoption of Improved Sweet Potato Varieties in Migori County, Kenya (MSc) – 2019
- University of Nairobi, M/s Chepkemoi Janeth “Influence of topography and vegetation cover on soil organic carbon stocks, water balance and greenhouse gas fluxes in wooded grasslands of Laikipia County, Kenya” PhD
- University of Nairobi, Mr Muigai Duncan Kimani “Simulating Maize (*Zea mays* L) performance using aquacrop model under varying irrigation schedules and water depletion levels in Bura irrigation scheme, Kenya” MSc
- University of Nairobi, M/s Munialo Sussy “Determination of factors influencing maize yield gaps on smallholder farms in two contrasting sites in Western Kenya” PhD
- Chukka university, Mr Ian Mwenda Kirimi “ Maize performance and Soil Moisture retention under inoculated cowpea intercrop in lower Eastern Kenya” MSc
- Chuka University, Mr Sioma Mulambula “Integrated Effects of rhizobium inoculation and phosphorus application on soybean growth and yield” MSc
- Egerton University, M/s Rukia Bakari Khamis “ Effects of inoculation and liming on nodulation and nitrogen fixation of soybean (*Glycine max*) in Kenya” MSc

- Egerton University, Mr. Ondari Jairus Geteri “Effect of P-Fortified Compost on Growth and Yield of Maize (*Zea mays*) and Lablab (*Lablab Purpureus*) In Maize-Lablab Intercrop Systems of South Nandi Bub County, Western Kenya” MSc thesis
- Egerton University: M/s Alice Mbithi Munuu Effects of Different Application Rates of Vermicompost and Biofertilizer on Growth, Yield and Quality of Beetroot (*Beta Vulgaris* Var. *Crassa* L.)”-MSc
- Masinde Muliro University of Science and Technology: Mr. George Michael Mbakahya” Application of Social Network Analysis on Information Flow For The Adoption of Sustainable Agricultural Innovations in Western Kenya” PhD
- Jomo Kenyatta University of Agriculture and Technology: Ms Esther Hugiru Irungu Assessment of the Agronomic Performance of Maize (*Zea Mays* L.) Under Different Weed Management Regimes –MSc
- Jomo Kenyatta University of Agriculture and Technology: Stephen Waringo Waweru “Plant Coloniation and Soil Development Processes of Quarried Land in Ndarugu, Kiambu County” MSc
- Jomo Kenyatta University of Agriculture and Technology: Edwin Nderitu Mwangi “Phosphorus Fluxes and Vegetable Growth as Influenced by Phosphate Rock Management under Acid Soils” MSc
- Egerton University: Norbert Iraboneye “Effect of Canola Green Manure and Compound Fertilizer on Potato (*Solanum Tuberosum*) Growth, Yield and Bacterial Wilt Management” MSc
- Egerton University: Obondo Kelvin Otieno “Effects of Water Hyacinth (*Eichhornia Crassipes*) Compost on Soil Properties and Maize (*Zea mays* L.) Growth and Yield in Lake Victoria Basin, Kenya” MSc
- Egerton University: Aloys Fashaho “Characterization of Soil Properties of Terraced Lands and Their Response to Bio-Slurry, Nitrogen and Phosphorus Fertilizer Under Maize (*Zea mays* L) Cultivation in Rwanda” PhD
- Taita Taveta University: Simon Kundu Wekesa “Upland Rice Productivity as a Supplementary Forage in The Highlands of Taita Taveta County” MSc
- Taita Taveta University: Isaac Righa Chawana “Soil Nitrogen Sources and Their Influence on Paddy Rice Grain and Straw Yield ” MSc
- University of Nairobi, Department of Land Resource Management and Technology. Mr Kataka Mirembe Jean-Léon “Macrofauna Abundance and Diversity, and Selected Soil Properties Under Trees Woodlots in Eastern Democratic Republic of Congo”- MSc thesis (2022).
- Jaramogi Oginga Odinga University of Science and Technology. Mr. Wycliffe Orwoba Nyanchoma “Performance of Kuroiler Chicks Fed On Silkworm Pupae” MSc Thesis (2022)
- South Eastern Kenyan University. Ms Judy W Wachira “Comparative Growth and Productivity Evaluation of Phoenix Oyster Mushroom (*Pleurotus* Spp.) on Residual Agro-Waste Substrates in Semi-Arid Lands of Kenya” MSc thesis (2022).
- Taita Taveta University Abwunza Martha Kavere “Morphological Variations in Green Grams Subjected to Inorganic Fertilizer Application and Furrow Planting in Taita Taveta” MSc thesis (2022)
- Masinde Muliro University of Science and Technology. Mr. Mutie Aaron Kimeu “Effects of Terrestrial Oil Spills on Water Quality along Kenya Pipeline in Makueni County, Kenya” MSc thesis (2022)

- Masinde Muliro University of Science and Technology. Mr Samwel Manoti Masese “Integrating Geographical Information Systems, Community Coping Strategies and Local Knowledge in Flood Management within Narok Town, Kenya” PhD thesis (2022).
- Masinde Muliro University of Science and Technology. Mr. Anthony Simiyu Mabele “Serological and Molecular Characterization of Phasey Bean Mild Yellow Virus and Cucurbit Aphid-Borne Yellow Virus Infecting Groundnut (*Arachis Hypogaea*) in Western Kenya” PhD thesis.
- Jomo Kenyatta University of Agriculture and Technology (JKUAT) “Effect of Commercial Organic Fertilizers on Growth, Yield, and Nutritional Quality of Kale (*Brassica Oleracea L*), and Farmers' Attitudes towards Organic Fertilizer Utilization” MSc Thesis.

Moderation for examination for various universities

- Appointed to moderate exams as External Examiner for School of Agriculture and Natural Resources (2015-2018), Moi University.
- Appointed to moderate exams as external examiner, Department of Horticulture (July 2017), Jomo Kenyatta University of Agriculture and Technology.
- Moderation of as External examiner; Department of Crops, Horticulture and Soils, Faculty of Agriculture, Egerton University (2018- 2025)
- Appointed to moderate exams as external examiner; School of Science, Turkana University College, constituent college of Masinde Muliro University of Science and Technology (2018-2021).
- Appointed to moderate exams as external examiner, Department of Horticulture, Jomo Kenyatta University of Agriculture and Technology for three year starting January 2020.
- Appointed as external examiner to moderate exams- LARMAT department, University of Nairobi (January 2022- ongoing)
- Appointed to moderate exams as external examiner, Department of Sciences, Chuka University from June 2024 – to-date
- Appointed as external examiner, Department of Soil and Geological Science, Sokoine University of Agriculture, Morogoro Tanzania for moderate exams (2025-2028)

2.5 ADMINISTRATION AND RESPONSIBILITIES

2.5.1 Recognised university administrative positions

Director of a unit/ centre

- i. December 2024-todate: Deputy Executive Dean, School of Agriculture and Environmental Sciences
- ii. February 2024-December 2024: Departmental Research, Innovation and Outreach Coordinator
- iii. February 2020-February 2024: Chairman, department of Agricultural Science and Technology (for 2 terms of 2 years each).
- iv. June 30th 2011: Appointed Deputy exam coordinator- Department of Agricultural Science and Technology

v. x. member of a Senate committee or University Board

1. January 2022: Appointed as member of task force to develop Diploma course for the department for TVET curriculum: So far diploma in Horticulture delivered by AST department
2. October 8th 2010: Appointed to Silver Jubilee Celebration Community Outreach Sub-Committee as a member.
3. October 29th 2012: Appointed as committee on operationalization of Agriculture and Enterprise Development Farm.
4. 7th November, 2012: Appointed committee member on “Extension of Biochemistry Laboratories”
5. Appointment as University Coordinator for Capacity Building activities of Kenya Coastal Development Program (KCDP)
6. 7th November, 2012: Appointed committee member on “Extension of Biochemistry Laboratories”
7. 2011- Chairman of the committee on “Utilization of Kitui Campus”
8. 2013:- Member of KU Dairy Farm Establishment as an expert resource person on Pasture and Fodder establishment and management
9. August 2018: Appointed as member of Innovative Project ideas- office of the Deputy Vice Chancellor – Research, Innovation and Outreach

2.5.2 Other responsibilities in the university

1. 2011-todate- First year students Advisor- Department of Agriculture and Enterprise development
2. From 2010 - appointed member to following department committees:
 - a. head of academic program- Section-Agronomy
 - b. member of management and advisory committee;
 - c. member examination moderation committee;
 - d. research and resource mobilisation committee
 - e. departmental advancement, community outreach, linkages and consultancy committee
 - f. 2013: Acting Chairman-School Postgraduate committee –School of Agriculture and Enterprise Development
 - g. chairman: Departmental Postgraduate committee
 - h. ISO certification and quality assurance
- i. Initiating new academic programmes
2013-2017: Initiated development of BSc and MSc curricula in Horticulture. Curriculum progressing towards approval.
- ii. 2007: Acting Chairman, Department of Biological Science, Masinde Muliro University of Science and Technology: various.
- i. **Community service and outreach:**
 1. Chairman of school board of governors of Dstar High School (“the school”): Appointed for the first time on 20th November 2014.
 2. Board Member, Embako Public health- a non-profit, Non-Governmental organization operating in Trans-Nzoia, Butere and Mumias. First appointed in 2011
 3. July 2017: Appointed member of disaster management committee, Elgeyo Marakwet County

ii. Professional affiliation and portfolios

iii. Recognition, Awards and Honours

1. **1989:** Qualified in to be in the Dean's list of Excellence in First Year,
2. **1993:** Awarded German Academic Exchange programme (DAAD)- Scholarship to undertake MSc (Agronomy) at the University of Nairobi.
3. **2002:** Awarded German Academic Exchange programme (DAAD)- Scholarship to undertake PhD (Plant Nutrition) at the Institute of Plant Nutrition, University of Hohenheim, Germany.
4. **2010:** Award DAAD re-visitation scholarship as a visiting scientist, Institute of Biological Production Systems - Vegetable Systems Modelling, Leibniz Universitaet Hannover, investigating; "The role of nitrogen contents and forms on yield and quality of three commercially cultivated East African *Amaranthus* spp"
5. December 2017 visited Addis Ababa University, Department of Microbial, Cellular and Molecular Biology to examine a PhD thesis entitled "Evaluation of Aluminium Tolerance and Genetic Diversity of Ethiopian Durum Wheat Germplasm" by Edossa Fikiru Wayima (2017).
6. 2011: facilitator –Agricultural Radio Interns training workshop by University and the Farmer Voice Radio initiative. Kenyatta University, BSSC 11-15th 2011.
7. 2011: Chairman of a session; session B2-Horticulture2 during 10th African Crop Science Conference: From Soil to Soil: Crop production for Improved African Livelihoods and a better Environment for Future Generations- Maputo, Mozambique 10th-13th 2011
8. Chair of a session; session 5: Biometry, Statistics and Quantitative Genetics, Tuesday 3rd November 2015-Economically viable and sustainable agricultural systems for food and nutrition security in Africa. African Society of Agronomy, Crop, Soil and Environmental Sciences. Abuja 2nd -5th November 2015.
9. Session chair: Parallel session1. Kenyatta University Biennial Research and Innovation Conference. Research and Innovation for the achievement of SDGS and Kenya's Big Agenda. 23rd -25th October 2019

10. VI. Convening and coordinating conferences

- 2013: Organizing committee of the 1st International Symposium on ornamentals in Africa. 9-13th September, Morendat Training and conference center, Naivasha. Theme – Ornamentals for people, planet and profit.
- 2015: Organizing committee and reviewer, of the 15th Workshop on Sustainable Horticultural Production in The Topics. 1st-4th December 2015. Strengthening the Experimental Research Environment –Field Experimentation.
- 2016: Organizing committee and reviewer of the 16th Workshop on Sustainable Horticultural Production in the Tropics: 28th November -2nd December 2016. Strengthening the Experimental Research Environment- Laboratory Techniques.
- 2010: Organizing committee and reviewer of 10th Workshop on Sustainable Horticultural Production in the Tropics. ICAD, JKUAT 8th -11th December.
- September 2012: Participation and presentation of paper "Role of Pre-harvest Mineral Nutrition on Postharvest handling and Quality of Selected *Amaranth* spp. Workshop organized by GAFOON in Universitas Gadjah Mada-Yogyakarta-Indonesia

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