

PROF REBECCA HN KARANJA (PhD)Email: karanja.rebecca@ku.ac.ke**BIOS**

Rebecca holds a PhD in Plant Science (Pollination Studies) & Msc in Plant Ecology. Her main areas of study include Biodiversity and Ecosystems analysis and conservation, pollination studies, Environmental Impact Assessment, Climate change and Sustainable Land Management. She has been trained on aspects of Biodiversity mapping, Climate Smart Agriculture and livelihoods restoration.

She is an Associate Professor in Ecology and Conservation section at Kenyatta University, Editor in Chief for African Journal of Pure and Applied Sciences (AJPAS) and member of the University Research, Collaborations and Innovation committee. She is a lead environmental expert with National Environment Management Authority and a trainer for Environment Institute of Kenya on issues of Biodiversity mapping, assessment and Management.

Rebecca is involved in research collaboration with local institutions such as iCIPE (CIAT & The Africa Reference Laboratory for Bee Health), National Museums of Kenya and Kenya Agriculture Livestock Research Organisation. Internationally Rebecca is involved in research with International collaborators such as University of Cambridge, National Institute of Agriculture Botany (Niab-UK) and Université Libre de Bruxelles among others.

She is a peer reviewer for National Research Fund-NRF, National Council of Science and Technology-NACOSTI, Kenya Climate Smart Agricultural Projects and Commission of University Education.

Areas of Expertise

Biodiversity mapping/Natural resources conservation and management	Biodiversity Management Plans and Action Points	Critical habitats mapping	Catchment management plans training	Biodiversity Monitoring and evaluation
Preliminary ecological and Social reporting	Environmental and Social screening and scoping	Environmental and Social due diligence	Environmental and Social Impact Assessment	Environmental and Social Assessment (SESA)
Environmental and Social Management Framework (ESMF)	Environmental and Social Management Plans (ESMPs)	Resettlement Action Plans (RAPs)	Stakeholders Mapping, assessment and engagement	Knowledge management and dissemination

Membership of Professional Associations:

- Member, of Environment Institute of Kenya . Member No: EIK/1/1593
- Registered Environmental Impact Assessment and Audit Lead Expert, National Environmental Management Authority, Kenya (NEMA). **Registration Number 2680**
- Member, Society for Conservation Biology (SCB) 2021 to 2023

- Vetted Climate Change and Resilience Expert for UNDP
- Member, Ecological Society of Eastern Africa (ESEA)
- Former Patron, Jomo Kenyatta Model Of United Nations (JKMUN)

Education

School, college and/or University Attended	Dates Attended (From-To Month/Year)	Degree/certificate or other specialized education obtained
Jomo Kenyatta University of Agriculture and Technology	2007 – 2010	PhD. Plant Science (Pollination studies as an Ecosystem Function) Jomo Kenyatta University of Agriculture and Technology, (Graduated on 13 th July 2010) Thesis Title: Pollination <i>Of Coffea arabica</i> L. And Associated Awareness Of Pollination Significance Among Farmers In Kiambu District, Kenya
Kenyatta University	1998 – 2001	Msc. Botany (Plant Ecology: Conservation of Rare Endemic Plant Species) Kenyatta University (Graduated on 19 th October 2001)
Kenyatta University	1992 – 1996	Bsc. Botany, Zoology, -Chemistry and Biology teaching methods; Education Kenyatta University (Graduated on 18 th October 1996)

Other Trainings

- Proposal Review for Climate Smart Agriculture Projects 17th to 20th September 2019.
- International good practice for biodiversity management in development projects" training course (5 March 2019, Nairobi)
- The Economic Assessment of Landbased Biodiversity and Ecosystem Services. European Union/GIZ/UNDP
- Researching the convergence of sustainable Agriculture, Informal Community Learning and Appropriate Technology. June 2018.
- Fundamentals of Oil and Gas exploration and Production: Key environmental considerations- Executive 90-minute Webinar introducing key environmental considerations related to oil and gas exploration and production. Webinar hosted by : Marisol Estrella, Saad Ibrahim, Joppe Cramwinckel, Inga Petersen, Chidinma Zik-Ikeorha Date : Thursday, 19 July 2018.
- Peer Reviewers Training. Commission for University Education.

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- Kenya Climate Action Learning Conference (UKAID Climate Action SDG 13:Kenya's Journey and the Path Ahead). May 2018.
 - Climate Resilience in International Value Chains. "Becoming a Climate Expert" Training of Trainers" training by International Trade Centre (ITC). June 2018
 - Measuring Green House Gases Emissions using EX-ACT tool for AFOLU. World Bank Online Course.
 - Community Mitigation for Climate Change in Agriculture (Micca) 2013/2014 .FAO
 - Swedish University of Agricultural Sciences (SLU) 2012: Exploring tradeoffs around farming livelihoods and Environment.
 - Netherland Government (NFP / TP-Fellowship) International Trainers of Trainers on Wetland Management 2010: Facilitation and Multi-stakeholder Processes and Curriculum Development.
 - Earth watch Institute Award 2009 to study Ecological / Environmental Monitoring at Mt Mulanje-Malawi.
 - Ethno-ecology, Community-based Conservation and Participatory Video. Sponsored by Christensen fund-Port Elizabeth South Africa (2007)
 - UNESCO (People and Plants initiative) Msc Scholarship (1998-2001).

Employment Record

From 2017 Oct to date :Kenyatta University

Position Held: Associate Professor Plant Science Department, Conservation Biology and Ecology Section.

Responsibilities: Editor in Chief African Journal of Pure and Applied Sciences (AJPAS): <https://journal.ku.ac.ke/index.php/AJPAS>.

Key tasks include: receiving papers from authors, testing for plagiarism, sourcing for reviewers and providing feedback to authors before publication.

Committee member Quality Management of Services: Ensure that environmental and social standards are maintained in the institution.

Chairperson research, collaborations and linkages committee tasked with grant and proposals writing,

Key Achievements: *Published 4 issues of AJPAS Journal and the 5th Issue is under review.*

Key Achievements: *Won 4 International grants and 6 local grants.*

Published papers in peer reviewed journals

Supervising Post graduate students in proposal development, research designing and thesis write ups

Class Advisor 3rd Year Students

Member of KU Mentorship Project: Currently I have 5 students/mentees

From 2006- 2017 Oct Employer: Jomo Kenyatta University of Agriculture and Technology.

Positions Held :Lecturer/Environment officer in charge of Environment Quality Management Services (Botany Department)/Examination officer/ Departmental timetable officer/Coordinator Biotechnology Programs

Provided guidance on Liquid waste generation and disposal, Chemical spillage and emissions, Consumption of energy, Hazardous waste disposal, Water use, Solid waste generation and disposal and Environmental enhancement.

Key achievements: contributed to university ISO 9001:2008 certification on Quality Management Systems (QMS) and re-certification in 2013.

From 1997 to 2006: Employer :Teacher service commission

Positions Held :Graduate Teacher

From 2005 to 2007

Employer :Catholic University of Eastern Africa

Positions Held : Lecturer, Biological Science Department

From 2003 to 2006

Employer :St. Mary's University of Minnesota

Positions Held : Visiting lecturer

Language & Degree of Proficiency :

	Speaking	Reading	Writing
English	Excellent	Excellent	Excellent
Kiswahili	Excellent	Excellent	Excellent

AREA OF SPECIALIZATION

- Plant Ecology
- Ecosystem services/Pollination Ecology
- Agroecology
- Biodiversity Assessments
- Climate Smart Agriculture
- Conservation Biology
- Landscape Restoration

RESEARCH INTERESTS

- **Ecosystem services:** Role of pollination and pollinators in crop production
- **Plant/Environmental Ecology:** interactions of biotic and abiotic factors in crop production mainly organic farming, mulching and climate smart agriculture;
- **Biodiversity Assessments:** Preliminary Ecological surveys; abundance and diversity of plant species, conservation status-IUCN categorisation, Legislative and regulatory frameworks in conservation including International Conventions.
- **Agroecology:** Role of climate smart agriculture in improving fertility, pest control,livelihoods food security/ enhancement of yields and pest control;
- **Environmental ecology:** Assessments of Environmental Impacts of Development projects on the flora of an area.
- **Landscape Restoration:**Restoration and conservation of degraded fragile ecosystems such as hilltops and wetlands, alternative livelihoods, participatory community conservation efforts and ecological benefits of landscape restoration.

POSTGRADUATE TEACHING

- Ecology of Phytoplanktons, Ecology of Freshwater Macrophytes, Special Topics in Ecology, Dynamics of Plant Communities; Biodiversity Conservation; Natural Resource Management;

UNDERGRADUATE TEACHING

- Man and wilderness, Ecology of Tropical Rainforests, Aquatic Botany, Forest Ecology, Marine Botany, Biodiversity Conservation & principles; Basic Plant Taxonomy; Principles of Ethnobotany; Arid Land Ecology; Survey of the Plant Kingdom, Plant Morphology and Anatomy.
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COMMUNITY SERVICE

1. Mukurweini Technical Training Institute (2015-2018)

I was in-charge of the Academic Committee and Spearheaded Environmental Conservation programs in the Institute. I contributed to proposal writing for the Institute water harvesting and Energy conservation projects. Through this Upper Tana Natural Resources Management Program funded a Ksh 5million for construction of a Water pan in the Institute.

2. Othaya Girls High School (2016 to Present)

I am in the chairperson of Academic Committee in the school. The school mean score has improved from a mean score of 6.36 to 7.88. This year we target a mean score of 8.20.

Grants and Awards

Title of the Project	POLLEN: Pollinator Observations Linked to Environmental DNA in Mango and Avocado Agroecosystems The Cambridge-Africa Alborada Research Fund 2024/2025. National Institute of Agricultural Botany, Kenyatta University and National Museums of Kenya. Role: Principal Investigator/African Collaborator £19,700.
Title of the Project	Pollination of <i>Vicia faba</i> in Polycultural agricultural systems in Kenyan Drylands The Cambridge-Africa Alborada Research Fund 2022. Cambridge University and Kenyatta University Role: Principal Investigator/African Collaborator

	£20,000
Title of the Project	Field study on geographical spread of <i>Senna obtusifolia</i> and assessment of its provenances. British Ecological Society Grant 2020/2021 £10,000
Title of the Project	An investigation into the interdependence of species with rainforest understory plant <i>Polia condensata</i> Alborada Cambridge /Africa Fund 2016-2017 Cambridge University and Jomo Kenyatta University (African Collaborator) £15000
Title of the Project	Strengthening productivity of African indigenous vegetables and pulses through climate smart practices, enhanced pollination and value addition for improved resilience and food security (A case study of Murang'a South Sub-County). Kenyatta University Vice Chancellor's Research and Innovation Grant 2020/2021" KES 1,100,000
Title of the Project	Economic Valuation of Selected Sustainable Rangeland Management Practises in Isiolo County, Kenya (2019 to 2020). University of Nairobi and Kenyatta University- GIZ funded KES 3,000,000
Title of the Project	An Innovative Approach on the Use of Managed Bees (Honeybees) as Biocontrol Agents Vectors for Increased Coffee Production in Kiambu County.2018 Jomo Kenyatta University & Kenyatta University. KES 4,500,000
Title of the Project	Environmental Impact Assessment of residual herbicides in soils of Western Kenya sugar belt: their removal by native bacteria and their effects on non-target organisms. Egerton University Jomo Kenyatta University& Multi Media University KES 5,000,000

Thesis Examination

I have examined over 50 Msc theses both as an internal and external examiner and over 25 PhD thesis internally and externally. As an external theses examiner, i have served Rhodes University, Wageningen University & Research, Pan African University Institute for

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Basic Sciences Technology and Innovation (PAUSTI) ,Jomo Kenyatta University, University of Nairobi and University of Embu.

EXTERNAL EXAMINATION

Student	Thesis Title	University	Level
Liobah Rono	Characterization of Food Waste and Effect of Composting Process on the Environment and on the Quality of Food Waste-Derived Compost and its Effect on Plant Growth Performance of <i>Brassica perviridis</i> and <i>Tagetes erecta</i> .	JKUAT	Msc 2025
David Mwenda Nyaga	Evaluation Of The Impact Of Climate Change And Land Use Changes On Tree Diversity And Related Ecosystem Services In Mt Kenya East Region.	UNIVERSITY OF NAIROBI	PhD 2025
STARBACK MEGAN	Bio-Vectoring By Honeybees And Symbiosis: A Combined Approach To Controlling Botrytis	Rhodes University	Msc 2024
Anyieni Ruth Moraa	Diversity And Abundance Of Flower-Visiting Insects Associated With Apple (<i>Malus Domestica</i>) In Nyeri And Laikipia East Cropping Systems.	JKUAT	Msc 2023
Sharon Anyango Onyango	Vegetation Status and Impacts of In-Situ Plants on Thermal Comfort in Urban Open Spaces of Nairobi	JKUAT	Msc 2023
GEORGE OLUOCH	Efficacy of Chitosan-nanoencapsulated Eugenol and Thymol in control of Bacterial wilt (<i>Rastonia solanacearum</i>) in potato (<i>Solanum tuberosum</i> L.)	PAUSTI	PhD 2022
ISAAC MOKONO MAOBE	Diversity And Conservation Status Of Avian Species In Etogo Sub-County Kisii County Kenya.	JKUAT	Msc 2022
ANYIENI RUTH MORAA	Diversity And Abundance Of Flower-Visiting Insects Associated With Apple (<i>Malus Domestica</i>) In Nyeri And Laikipia East	JKUAT	Msc 2023

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	Cropping Systems.		
MBATHA ANTHONY MUTUA	COVER CHANGE AND VEGETATION CARBON STOCKS OF MANGROVE FORESTS IN LAMU COUNTY, KENYA	University of Embu	Msc 2022
LLEN JOHHNY BORLAY	Characterisation and De novo transcriptome analysis of drought tolerance potential of Doum Palm (<i>Hyphaene compressa</i>) from selected regions in Kenya.	JKUAT	PhD2022
NJOROGE STEPHEN KIBE	<i>Helicobacter pylori</i> diagnosis, virulent genes, resistance to conventional antibiotics and antimicrobial activity of elected medicinal plants on isolates obtained from patients undergoing endoscopy at Agha Khan hospital.	JKUAT-PAUSTI	PhD2021
Cecilia Oyuga Olima	VALUATION OF HARVESTED GOODS AND COASTAL PROTECTION SERVICES BY MIDA CREEK'S MANGROVE FOREST, APPLICATION OF TESSA APPROACH.	KU	Msc 2020
Ph.D -086-2020	Wetland Utilisation and Community Perception on Payment for Ecosystem Services in Conservation of Nyando Wetland of the Lake Victoria Basin.	KU	PhD 2020
FRANCIS J WANYERA	Assessing Anthropogenic Impacts On Ecosystem Services In Protected Areas: A Case Study Of Bwindi And Volcanoes National Parks.	UON	PhD 2019
M-TH-018-2021	Optimisation of germinability and regeneration of <i>Melia volkensii</i> Gurke under natural conditions in Kitui County, Kenya.	KU	Msc 2021
JOHN JULIUS ANYANGO	Diversity And Foraging Activities Of Termites Under Conventional And Organic Farming Systems In The Central Highlands Of Kenya	JKUAT	PhD 2021
Ph.D/ 107/2020	Spatial temporal variation in forage resource	KU/Capet	PhD

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	production in Richtersveld National Park, South Africa.	own University	2021
ALIOU BA	Combining ability, heterosis and genome-wide association studies of qualitative and quantitative traits in hexaploid cultivated sweetpotato (<i>Ipomea batatas</i> (L.)Lam) using DArT SNP markers.	PAUSTI	Msc 2019
Girisa Dorothy Awinde	Girisa Dorothy Awinde thesis titled: Status of Occupational Safety and Health within Selected Banks in Nakuru County, Kenya.	JKUAT	Msc 2019
Peter Kamau Karanja	An Assessment of the Microbial, immunomodulatory effects, and Partial Characterization of Extracts from Kenyan <i>Physalis Peruviana</i> L.	JKUAT	PhD2020
Mary Wahu Kuria	Genetic Diversity, species niche modeling and ethnobotanical uses of <i>Strychnos heningsii</i> for sustainable utilization and conservation.	JKUAT	PhD 2018
Antony Omondi Radol	Anti-Viral And Anti-Oxidant Value Of Selected Medicinal Plants Collected From Western Kenya.	JKUAT	PhD 2018
Nicole Mwende Musyoka	Carbon stocks and sequestration potential in managed mangrove plantations of Gazi Bay, Kenya	University of Nairobi	Msc 2015
Kamau Anthony Ndegwa	Assessment of the Socio-economic and Environmental Impacts of Utilization of Water Hyacinth (<i>Eichhornia crassipes</i>) as feedstock for biogas production	JKUAT	Msc 2015
Cedric Aduvaga	Black Rhinoceros (<i>Diceros Bicornis Michaeli</i>) browse availability, suitability and its influence on distribution patterns and home ranges of re-introduced rhinos in Tsavo West National Park-Kenya.	University of Nairobi	2016
ROSE NYAKEMISO	Thank you for giving me a chance to examine	JKUAT	Msc

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SAGWE	the thesis titled: Butterflies as indicators of environmental health of Kisii highlands, Kenya: Implication of various land use pattern.		2016
Stephen Atika Oyondi	Effects of farming activities on bird abundance in Trans Mara Sub County Kenya.	JKUAT	Msc 2016
Loise Kawira Njeru	Effects of Larval age and supplemental feeding on Morphometrics and Oviposition in the Honey Bee Queen (<i>Apis mellifera scutellata</i>) in Karura Forest Kenya	UON	

INTERNAL THESIS EXAMINATION

Student	Thesis Title	University	Stage
MTH-203-2023	Spatial Distribution Of Maize-Raiding, Damage Level And Economic Loss Caused By Monkeys In Farms Bordering Saiwa Swamp, Kitale, Kenya	KU	Msc2023
Ph.D -062-2023	Temporal Variations, Abundance And Population Characteristics Of Species In The Catches Of Light Attraction Fishery Of Lake Albert, Uganda.	KU	PhD 2024
M/th/280/2023	Effects Of Frequency Of Grading On The Growth,Nintra–Cohort Cannibalism And Economic Benefits Of African Catfish (<i>Clarias Gariepinus</i> , Burchell, 1822) Culture	KU	Msc2024
M/TH/030/2023	Impact Of Soil Salinity On Growth, Selected Physiological Parameters And Yield Of Two Butternut Squash (<i>Cucurbita Moschata</i> L. Mellonia) Varieties In Mwea, Kenya.	KU	Msc 2023
M/TH/190/2022	Infestation of crops by field dodder (<i>Cuscuta campestris</i> Yunker) in Chilchila ward, Kericho County, Kenya. T	KU	Msc 2022
M/TH/165/2022	Distribution Of Raptors In The City Metropolitan, Nairobi, Kenya	KU	Msc 2022
M-P-464-2021	Urban Development And Its Implications On	KU	Msc

CURRICULUM VITAE – PROF REBECCA HUGIRU NGUMBURU KARANJA

	Nairobi River Riparian Zone, Nairobi City County, Kenya		2021
M-TH-144-2021	Effects Of Umba River Sedimentation On The Distribution And Morphology Of Mangroves Of Vanga, Kenya	KU	Msc 2021
MUNYAO JOSEPH KYALO	Effects Of Conservation Tillage Practises On Soil Moisture And Chemical Properties , Maize And Bean physiological Parameters And Yields.	KU	Msc 2019
M/TH/022/2020	Human Use of Forest Trees and its Impact on their Diversity and Abundance in Chemususu Forest, Baringo County, Kenya.	KU	2020
KIPYEGON CHERUIYOT	Anthelmintic activity of encapsulated <i>Prosopis juliflora</i> (sw.) extracts against <i>Haemonchus contortus</i> of sheep.	Jomo Kenyatta University	Msc 2017
VICTOR MUASYA MUTUKU	Investigation on implementation and compliance of environmental management systems by companies in Kenya.	JKUAT	Msc 2019
Loyce Jepkorir	Biophysical And Socio-Economic Factors Influencing On-Farm Fruit Tree Species Richness And Diversity In Siaya And Kakamega Counties.	JKUAT	Msc2017
BANKOLE OLALLEKAN ABIDEMI	Effects of litter diversity on the rate of decomposition in an agroforestry system in a semi-arid zone in Juja, Kenya.	Jomo Kenyatta University	Msc 2017
EKIWOM JUSTUS EREGAE	An assessment of Carbon sequestration by dry land forest and Eco-char system in Taita Ranch, Kenya.	Jomo Kenyatta University	MSC 2017

Students supervision

Student	Thesis/Proposal Title	Thesis Progress
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Gladys Chebet	Socioecological Characterization Of Western Mau Forest, Kenya.	Proposal stage 2024
Justus Eregae Jomo Kenyatta University of Agriculture and Technology	Economics of Ecosystem Services (ES), Resource Utilization and Impact on stock and flow of benefits within Water Catchment Ecosystems in Kenya	Graduated 2023
Angelina Nduta Mwenda (PhD). Wageningen University	Spatial Information in Public Consultation within Environmental Impact Assessments	Graduated (2015)
Mary Stella Wekhanya Kenyatta University	Phenology of Flowering Plants that acts as refugia for Bee Pollinators of Pumpkins in Yatta and Masinga Sub-Counties, Machakos County, Kenya	Submitted
Teresia Njeri Jomo Kenyatta University of Agriculture and Technology	Quantification and economic valuation of selected ecosystem services in small scale farms in Maragua subcounty	Draft Thesis
Edwin Luguba Kadiori Jomo Kenyatta University of Agriculture and Technology	Breeding System, Floral and Pollination Biology of the Purple Passion Fruit (<i>Passiflora edulis</i> Sims) in Kenya	Proposal
Regina Waiganjo Kenyatta University	Impact Of Stingless Bees On The quality and Productivity Of Strawberry at ICIPE, Nairobi County In Kenya	Data Collection
Msc STUDENTS		
Student	Thesis/Proposal Title	Thesis Progress

CURRICULUM VITAE – PROF REBECCA HUGIRU NGUMBURU KARANJA

Sheila Koech Kenya University	Effects Of Landscape And Flowering Seasons On Preference, Diversity And Quality Of Honeybee-Collected Pollen And Their Pesticide Contamination In Kenya	Graduated 2024
Eric Muthama	Pest Population And Yield Dynamics Of Selected African Indigenous Vegetables And Pulses Under Different Climate-Smart Agricultural Practices In Murang'a County, Kenya.	Graduated 2024
Joseph Kamicha Kenya University	Abundance And Utilization Of <i>Urtica Dioica</i> L. In Kieni West Sub County, Nyeri County, Kenya	Graduated 2024
Jane Muthoni Macharia Jomo Kenya University of Agriculture and Technology	Honeybees (<i>Apis mellifera</i>) As Vectors of Bio-control Agent (<i>Trichoderma asperellum</i>) Against Grey Mold Disease, and their effect on strawberry Quality and Yield.(A Case Study of Jomo Kenya University of Agriculture and Technology (JKUAT) Experimental Farm in Juja).	Graduated 2022
Jane Maina Kenya University	Impact Of <i>Ipomoea Hildebrandtii</i> Vatke On Abundance And Diversity Of Herbaceous Plants In Namanga, Kajiado County.	Final Draft Thesis
Kevin Kiprotich Embu University	Pollination Of Watermelon In Greenhouse Using Stingless Bee Species In Nairobi County, Kenya	Data Analysis
James Kamau Kenya University	Pollination of greenhouse egg plants (<i>Solanum melongena</i>) using selected MELIPONINE (stingless) bee species.	Proposal
Kika Lusa Kenya University	Assessment of fruit set and seed quality in greenhouse cucumber pollinated by two stingless bee species and the African honeybee.	Graduated July 2019

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Edwin Luguba Kadiori University of Chinese Academy	Reproductive Strategies in Response to Climate Change in Alpine Plants: a Meta-Analysis	Graduated 2017
Brenda Waithera Wamae Jomo Kenyatta University of Agriculture and Technology	Investigation of the phytochemicals, antioxidant activity and anti-diabetic efficacy and safety of <i>Capparis tomentosa</i> roots	Graduated (2017)
Regina Wambui Waiganjo Jomo Kenyatta University of Agriculture and Technology	Impacts of enclosures on range productivity in Chepararia, West Pokot, Kenya.	Graduated (2015)
Kelvin Babu Githaiga University of Chinese Academy	Correlation Between Soil Mineral Composition, Plant Species Diversity And Species Richness Along Elevational Gradients In Mount Kenya.	Graduated 2018
Anita Owino University of Chinese Academy	Variations of physiological and biochemical characteristics of exotic species <i>Alternanthera philoxeroides</i> in different ecotypes with atmospheric CO ₂ increment	Graduated 2017
Ronald Kimtai Kirichwa Jomo Kenyatta University of Agriculture and Technology	Determining The Socio-Economic And Technical Factors Hindering Adoption Of Purple Tea Farming By Farmers As An Adaptation Mechanism In Tea Sector To Climate Change In Kericho County	Graduated June 2019
Ann Wanjiru Wambugu Jomo Kenyatta University	Assessment Of Impacts Of Irrigating High Value Crops On Water Quality Along The Kithinu And Mutonga Rivers Catchment Areas	Graduated June 2019
Gladys Chebet	Abundance, Survival, And	Graduated 2019

Kenyatta University	Conservation Status Of <i>Prunus Africana</i> (Hook. F) Kalkm. In Western Mau Forest, Kenya	
Sheilla Koech Kenyatta University	Species diversity and abundance of macadamia pollinators in different locations and farming methods in Kenya	Draft Thesis
Lilian Nyanchama Jomo Kenyatta University	Abundance And Diversity Of Bee Pollinators Along A Disturbance Gradient In Borabu Sub County Nyamira County	Draft Thesis
Charles Nyarang'o Nyamwamu Jomo Kenyatta University	Abundance and Diversity Of Weeds In Farms In Kisii Central Sub County, Western Kenya	Graduated 2019

International Consultancies.

I have been a consultant for over 50 assignments. The most relevant include:

- Nov 2023-Ongoing:End Of Project Evaluation Of The Transforming Rural Economies And Youth Livelihoods (TREYL) Project, Kenya. Practical Action.
- September to October 2023 National consultant for Natural Resources Management supporting in review and developing a Project Completion Report for Upper Tana Catchment Natural Resources Management Project.IFAD.
- May 2023 to Oct 2024 International Panel of Experts (IPE)/ Environmental /Biodiversity Expert for Shire Valley Transformation Programme (1) funded by world bank and The Government Of Malawi Ministry Of Agriculture.
- Oct 2022 to Feb 2023: A team leader of 3 experts; 1 international and 2 local experts supporting AfDB in Audit of Environmental and Social Safeguards (E&S) through NIRAS International.
- November 2021 to November 2023 Independent Environmental Dam Experts for 10 Dam projects for providing water for Irrigation in Malawi for IFAD
- October 2021 to October 2022 Independent Oversight Agent for IFAD funded projects in Upper Tana
- December 2021 to March 2022: National Consultant for Terminal Evaluation for UNDP GEF funded projects
- October 2021 to March 2022 Biodiversity Safeguards Analysis Expert for the Small Hydropower projects in Kenya, Uganda, Rwanda, Sierraleone and Malawi for IFC.

- August 2021 Preliminary Ecological Appraisal (PEA), Mapping biodiversity , critical habitats and possibility of creating green corridors in agricultural and Industrial development in Green Heart Kenya.
- November 2020 Consultancy Services For Assessment Of The Maroochi Project Against Proparco Biodiversity Requirements: To assess biodiversity sensitivities in High Carbon stock areas and High conservation areas. Client: Kenya Nut Company
- September 2020: Development of an Environmental and Social Management Framework (ESMF) for the Resilience for People and Landscapes Programme (REPLAP). Client: IUCN.
- June 2020 to December 2021.Environmental Baseline studies and Catchment Management Plans for Angololo Water Resources Development Project in Kenya and Uganda by Nile Basin Initiative.
- (2019 to 2020): Ecological and Economic valuation of Dedha system in Isiolo among the pastoral Community as a means of enhancing food security, sustainable livelihoods and Sustainable Rangeland Management Practise. Client: GIZ.- Protected areas and community conservancies.
- 2019-January 2020 Consultancy Services To Carry Out Community Proposal Appraisal (Both Desk), Implementation Monitoring And Evaluation As An Independent Oversight Agent. Client: IFAD
- 2018: Supporting the Implementation of Kenya's National Green Economy Strategy Through the Development of Low through the Development of Low Carbon and Climate Resilient Projects and Resource Mobilisation. Client: National Environmental Trust Fund (NETFUND)-PEGASUS AFRICA AND MIDDLE EAST.
- 2018-ongoing: Trainer of Trainers in Environmental and Social Impact Assessment; Environmental and Social Safeguards, Strategic Environmental Assessments Location: Nairobi Kenya. Client: Environment Institute of Kenya.
- 2017/2018: Project Results Assessment for Green Zones Development Support Project and Kimira Oluch small holder farm improvement project (2005-2016) implemented by Kenya Forest Service and Nyayo Tea Zones Development Corporation in 17 counties. Client: African Development Bank,
- 2017: Feasibility Studies, Detailed Design And Tender Documents For The Nyimur Multipurpose Water Project (Environmental Baseline studies component/Water catchment Management strategies).Location: Northern Uganda and Southern Sudan. Client: Nile Basin Initiative (Nile Equatorial Lakes Subsidiary Action Program -NELSAP)
- 2014: Mid term review of the Community Environment Facility (Community Development Programme Phase 4) implemented in Mt Kenya, Aberdares, Cherangani, Mt Elgon and Mau water towers through Community Development Trust Fund. Client Agricom Consultants/European Union
- 2014-2016: Environmental and Social Impact Assessment for the proposed Lesso/Keben Multipurpose Dam in Nandi Forest, Nandi County Client: Agricom Consultants/National Irrigation Board

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- 2014: Proposal Appraisal, Monitoring and Evaluation of Community Projects in the Upper Tana Catchment Client: Upper Tana Natural Resources Management/IFAD
 - 2014: Midterm Evaluation of projects geared towards Mainstreaming Sustainable Land Management for Improved Food Security In Agro pastoral Production Systems In Kenya (Daadab, Kyuso, Mbeere and Narok) Client: UNDP (United Nations Environmental Program)
 - 2013: Baseline assessment of Sustainable Land Management Practices in Laikipia County region in line with the COMDEKS approach (Community Development and Knowledge Management for the Satoyama) and identification of gaps for Small Grant Program United Nations Development Programme
 - 2013: Environmental and Social Impact Assessment for the proposed Suba Irrigation Development Scheme in Homabay, Mbita and Migori counties. Client: National Irrigation Board/Agricom Consultants
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PATENTS

Koimburi B.N., Gitau, M.K, Wangai, L.N, Karau, G.M., Karanja R.H.N & Ndura, P.K (2015): *Capparis tomentosa*; Medicinal product used in management of chronic diseases (2015).

PUBLICATIONS

1. Nang' oni Mary Stella, Muo Kasina, Karanja Rebecca, , Guantai Mary, Kinyanjui Rahab, Omuse Evanson , Lattorff Michael, Elfatih M. Abdel-Rahman, Marian Ada, Samira A Mohamed and Thomas Dubois (2025) Annual Diversity Of Honey Bee Pollen Sources In Two Pumpkin Growing Landscapes, Machakos County, Kenya. Journal of Pollination Ecology, 38(7), 2025, pp 97-109. DOI: 10.26786/1920-7603(2025)809.
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