

KOECH OSCAR KIPCHIRCHIR (BSc, MSc, Ph.D)

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A. PERSONAL INFORMATION

Date of birth	27 th July, 1985
Nationality	Kenyan
Gender	Male
Languages	English, Swahili, Luhya and Nandi
Marital status	Married
National ID No.	23884074

PROFESSION: Range Scientist specializing in Rangeland Management, Livestock Nutrition, Feed Resources in the Drylands, ASALs Livestock production systems and management

B. PROFESSIONAL MISSION STATEMENT

To be able to apply to the best of my ability, the theoretical and practical knowledge I have acquired in my professional training, to work and cultivate teamwork efficiency, personal responsibility and accountability in management and administration of organizations for the better performance and well being of the society and the Nation at large.

C. EDUCATION BACKGROUND

2011-2014	PhD in Dryland Resource Management (Production Systems), University of Nairobi, Department of Land Resource Management and Agricultural Technology, Faculty of Agriculture, Kenya. Thesis title ' <i>Comparative evaluation of six indigenous rangeland grasses for pasture production under varying soil moisture contents in Tana River county, southeastern Kenya</i> '
2008-2010	MSc. in Range Management University of Nairobi, Department of Land Resource Management and Agricultural Technology, Faculty of Agriculture, Kenya. Thesis title ' <i>Effects of Prosopis juliflora seedpod meal supplement on weight gain of weaner Galla goats in Baringo district, Kenya</i> '.
2004-2008	BSc. in Range Management University of Nairobi, Kenya (First Class Honours)
2003	Certificate in computer applications St. Peter Computer College, Kapsabet, Kenya
2002	KCSE Certificate (B+), Vihiga Boys high school, Vihiga, Kenya

1998 **KCPE Certificate**, Kamurguiywa Primary School, Kapsabet, Kenya

D. PROFESSIONAL QUALIFICATIONS & SKILLS

- [1] Competent in: Ms Word, Ms Access, and Ms excel, Ms PowerPoint, page maker and Ms Publisher among others.
- [2] Project planning, implementation and Management skills
- [3] Monitoring and evaluation of projects
- [4] Feasibility studies for project in natural resource, environment and agriculture
- [5] Data analysis, Report writing and database management.

E. PROFESSIONAL SPECIALISED TRAINING

- March 2018. ESPA's Professional Development Course (PDC) on Ecosystem Services for Poverty Alleviation held at Kenyatta University, Nairobi, from 5th to 7th of March 2018.
- October 2015: Scientific Research Paper Writing training at ILRI Campus, Addis Ababa Ethiopia offered by Beca and ILRI
- September 2015: Pedagogy Training, organized by School of Education, University of Nairobi
- March 2012: Tropical Biology Africa training on Designing research projects in the field at Mt. Rock Bantu Lodge, Naro Moru, Nanyuki.
- August 2012: Effective Teaching Strategies for Biological & Environmental Scientists at Esella Country, Hotel, Kampala Uganda
- May 2008: First aid training for emergency response by Kenya Red Cross society.
- June 2006: Leadership Training by the The Steadman Group K.C.B. Training Center, Karen, Nairobi

F. PROFESSIONAL MEMBERSHIP

- [1] Ecological society for Eastern Africa (ESEA)
- [2] Nairobi University Range management student's society, (NURMSS).
- [3] Nairobi University Agricultural students association (NUASA)
- [4] Wildlife clubs of Kenya

G. WORK & RESEARCH EXPERIENCE

- [1] **December 2015-Present:** Lecturer, University of Nairobi, College of agriculture and veterinary sciences, Department of Land Resource Management and Agricultural Technology, Range management section
Responsibilities: Teaching undergraduate and post graduate courses to students taking PhD, BSc. Range Management and BSc. Agro ecosystems and environment management. Student supervision and other departmental roles assigned to me.
- [2] **January 2012 - 2014: Tutorial Fellow**, University of Nairobi, College of agriculture and veterinary sciences, Department of Land Resource Management and Agricultural Technology

Responsibilities: Teaching undergraduate and post graduate courses to students taking BSc. Range Management and BSc. Agro ecosystems and environment management. Student supervision and other departmental roles assigned to me.

[3] **March-June 2016:** Post Doc Visiting Research fellow, Institute of Biological and Environmental and Rural sciences (IBERS), Aberystwyth University, United Kingdom: Research in methane gas measurements techniques from feed resources and livestock feeding in quest to abate GHGs from livestock production systems

[4] **Jan, 2010-Dec 2012:** Research Associate, Sustainable Rural and Urban development consultants (SRUDC) Ltd.

Responsibilities: Head of Livestock and livelihoods research, field work planning, Enumerator training and conducting a Participatory Rural Appraisal (PRA) and Focus Group Discussion

[5] **June 2011: Consultant team** for Livelihoods survey study for African Conservation Centre -Maasai mara and Amboseli Ecosystems

Responsibilities: Researcher and coordinated data collection, analysis and report writing.

[6] **Sept-Dec 2012:** Consultant team for World Vision Somalia on certified holistic Rangeland management and disaster risk reduction in Puntland and Somali land.

Responsibilities: Design of Holistic Range Management Curriculum, carry out feasibility studies on its applicability, assess the existing disaster risk reduction strategies and how they can be improved.

[7] **2012: PhD. Research project** on Fodder production in the ASALS of Kenya to provide strategic feed resources for livestock. Project funded by National Irrigation Board (NIB), DAAD Kenya and NCST & I.

[8] **2011: Consultant for Action Aid-** Food security assessment for project planning and design to implement food security projects in Isiolo, Mbeere and Kitui

Responsibilities: Conducting survey, FGDs, PRAs, and development of feasible project plans in the area to come up with project proposals and reports

[9] **May 2010-2011:** Part time Lecturer at the Mt. Kenya University

Responsibilities: Sourcing and preparing relevant lecture notes on Research methods, principles of range management, Climatology and agroforestry and teaching.

[10] **Dec 2008 to 2011:** Head of Livestock production systems Analyst, **SEDPA LIMITED**, Nairobi, Kenya

Responsibilities: In charge of research in livestock production systems designs, evaluations including Grazing systems planning and management, Nutrition management and pastures.

[11] **2009-2010: PI, MSc Research student:** University of Nairobi (College of Agriculture and Veterinary sciences) Projects Research in my MSc. Range Management-Livestock nutrition at Kenya Agricultural research institute (KARI)-Marigat in Baringo district).

[12] Project title: Effects of *Prosopis juliflora* seedpods as a strategic supplement for Weaner Galla goats in the ASALS.

Responsibilities: Principle Researcher, collecting data, entry, analysis and reporting findings

- [13] **April 2010:** Reviewer, **World Vision** East Africa office food security Projects
Responsibilities: Evaluating World Vision projects Reports for the Eastern African Region for Monitoring and evaluation of projects progress.
- [14] **March 2010:** Research Assistant to PhD student at the University of Nairobi
Responsibilities: Enumerator training and conducting a Participatory Rural Appraisal (PRA) and Focus Group Discussion for a study on Climate Variability and Livestock Insurance among the Maasai Pastoral community in Laikipia North district, Kenya.
- [15] **January 2010:** Research Assistant to MSc Student at the University of Nairobi
Responsibilities: Enumerator training to carry out a survey on Climate Variability and Poverty among Pastoral and Agropastoral communities in the larger Baringo district, Kenya
- [16] **July-Sept, 2008:** Research assistant in **ACCCA Project** .Addressing livelihoods under climatic variability and change; strengthening the adaptive capacity of rural poor to water scarcity in Kenya's Dry lands.
Responsibilities: Enumerator training and conducting a Participatory Rural Appraisal (PRA) and Focus Group Discussion.

H. AWARDS, FELLOWSHIPS, GRANTS

- [1] Sept 2017-Sept 2020: Second phase Collaborative research grant on ways to propagate Frankincense Boswellia tree species (Boswellia Sacra, Boswellia frereana) in Somaliland and management and utilization of Prosopis juliflora. Funded by World Vision Somalia and Australian government. Grant amount: USD 163, 840
- [2] Kenya Accelerated Value Chain Development (AVCD) program Livestock component. Funded by USAID funded under FEED THE FUTURE. Project partners; ILRI, KLMC.
Grant amount: USD 1 Million for three years, 2016-2018
- [3] Jan 2017: Collaborative research grant on ways to propagate Frankincense Boswellia tree species (Boswellia Sacra, Boswellia frereana) in Somaliland. Funded by World Vision Somalia. **Grant amount:** USD 36, 710
- [4] Jan- June 2017: Field Attachment Programme Award (FAPA) RU 2017 FAPA – CRP Dry land Cereals Post Doc by the Regional Universities Forum for Capacity Building in Agriculture (RUFORUM). **Grant amount:** USD 10, 000
- [5] March-June 2016: Post Doc Visiting Research fellow, Institute of Biological and Environmental and Rural sciences (IBERS), Aberystwyth University, United Kingdom: Research in methane gas measurements techniques from feed resources and livestock feeding in quest to abate GHGs from livestock production systems
- [6] 2014-2015: Current Research Project: Enhancing Resilience Of Livestock-based Livelihoods in Northern Kenya. This project is supported by IGAD Applied Research in Drylands Grants Facility (ARDGF) from 1st July 2014 to 31st October, 2015. Heading pastures reseeding and bulking activities in Marsabit and Isiolo Counties in North eastern Kenya.

- [7] 2012-2014: National Council for Science and Technology (NCST) Science, Technology and Innovation (ST&I) grant for your PhD research proposal entitled 'Comparative growth and interspecific competition responses of irrigated range grasses to varying watering schedules in the rangelands of Kenya'
- [8] 2011-2014: German Academic Exchange Service (DAAD Kenya) In-country and in-Regional postgraduate studies scholarship
- [9] National Irrigation Board Research grant on Fodder production in the ASALs of Kenya to provide strategic feed resources for livestock. Project funded by National Irrigation Board (NIB) in Tana River (Bura) and Turkana County (Katilu)
- [10] 2008-2010: MSc Scholarship granted by the University of Nairobi

I. ADMINISTRATIVE RESPONSIBILITIES AT MY COLLEGE AND DEPARTMENT

a) Faculty of Agriculture

2014 – Present: Chairperson, Post graduate student-led seminar Committee on PhD candidate's presentation of research findings in the Faculty of Agriculture

Main responsibilities:

- [1] To coordinate and plan PhD seminar series for the Faculty
- [2] Write and produce PhD seminar series proceedings
- [3] Provide academic Mentorship to new PhD students who enroll in the faculty and induct them to seminar series
- [4] Ensure PhD seminar series program is coordinated and running
- [5] Communicate to PhD candidates on important communications including research calls and invitations for seminar lectures
- [6] Write and produce PhD seminar series proceedings

2016 – Present: Chairperson, Faculty of agriculture field attachment Co-coordinator

Main responsibilities:

- [1] Organizing for placement of third years students in the faculty
- [2] Organizing for field attachment supervision by staff in the faculty
- [3] Providing letters of support to students for field attachment applications
- [4] Linking students with industry for placement opportunities
- [5] Mentoring students on internship opportunities, networking and preparation for internship period

2014 – Present: Member, Student mentorship programme

Main responsibilities:

- [6] Organizing guest visitor's invitation to give talk to students
- [7] Orientation and guidance to new enrolled first year students
- [8] In charge of fourth year students mentorship in the Range management section

b) Department of LARMAT

2014 – Present: Department of LARMAT Examination officer

Main responsibilities:

- To assist the Chairman to coordinate and plan for examination processes including submission of exam drafts, collection and submission of reviewed exams to Exam office in Chiromo.

2014 – Present: Department of LARMAT, Range section Internship co-coordinator

Main responsibilities:

- To assist the Chairman to coordinate and plan for BSc. Range Management internship opportunities during their year.
- Plan and co-ordinate range section student supervision during internship

c) Upper Kabete Faculty Club welfare group

2016 to Present – Clubs Secretary

Main responsibilities:

- Supervise on the day to day operations of the club
- Writing minutes of the management committee meetings and AGM
- Custodian of all the clubs assets records and staff records
- In charge of staff welfare and management
- Plan and co-ordinate clubs calendar activities like AGM, tree planting

J. PUBLICATIONS (REFEREED JOURNALS)

- [1] **Hillary Kipngetich Rotich, Richard Onwonga, Judith Syombua Mbau , Oscar Kipchirchir Koech. (2018).** Soil Organic Carbon Content and Stocks in Relation to Grazing Management in Semi-Arid Grasslands of Kenya. *Journal of Rangeland Science*, 2018, Vol. 8, No. 2
- [2] **Austine Otieno, George Karuku, James Raude, and Oscar Koech.** Accumulation Of Nitrogen And Phosphorous By Vetiver Grass (*Chrysopogon Zizanioides*) In A Model Constructed Wetland Treatment System For Polishing Municipal Wastewater. *International Journal of Innovation and Applied Studies* 22(4) 2018, pp. 291-298 <http://www.ijias.issr-journals.org/>
- [3] **Ombega, N. J., Mureithi S. M, Koech O. K., Karuma A. N, & Gachene C. K. K. (2017)** Effect of rangeland rehabilitation on the herbaceous species composition and diversity in Suswa catchment, Narok County, Kenya. *Ecological Processes* 6(1)41 DOI 10.1186/s13717-017-0109-1
- [4] **Jawuoro, S. O., Koech, O. K., Karuku, G. N., & Mbau, J. S. (2017).** Organization and Performance of Water Resource Users' associations in the Southern Rangelands of Kenya. *Tropical and Subtropical Agroecosystems*, 20(3)(2017): 401 – 4011. <http://www.revista.cba.uady.mx/ojs/index.php/TSA/article/view/2302>
- [5] **Otieno, A. O., Karuku, G. N., Raude, J. M., & Koech, O. (2017).** Effectiveness of the Horizontal, Vertical and Hybrid Subsurface Flow Constructed Wetland Systems in

Polishing Municipal Wastewater. *Environmental Management and Sustainable Development*, 6(2), 158-173.

- [6] **Jawuoro, S. O., Koech, O. K., Karuku, G. N., & Mbau, J. S. (2017).** Effect of piospheres on physio-chemical soil properties in the Southern Rangelands of Kenya. *Ecological Processes*, 6(1), 14.
- [7] **Jawuoro, S. O., Koech, O. K., Karuku, G. N., & Mbau, J. S. (2017).** Plant species composition and diversity depending on piospheres and seasonality in the southern rangelands of Kenya. *Ecological Processes*, 6(1), 16.
- [8] **Onekon Walter Angwere and Koech Oscar Kipchirchir (2016).** Assessing the Effect of Charcoal Production and Use on the Transition to A Green Economy In Kenya. *Tropical and Subtropical Agroecosystems*, 19(3)2016): 327 - 335
- [9] **Kuria S G, Koech O K, Adongo A O, Murithi S, Njoka J T and Kamande P 2016:** Cost of production, marketing and revenue generation from somali camel breed in Isiolo and Marsabit counties of northern Kenya. *Livestock Research for Rural Development. Volume 28, Article #229.* Retrieved December 2, 2016, from <http://www.lrrd.org/lrrd28/12/kuri28229.html>
- [10] **Koech, OK, Kinuthia RN, G.N. K, Mureithi SM, Wanjogu R. 2016.** Irrigation levels affects biomass yields and morphometric characteristics of range grasses in arid rangelands of Kenya. *Springerplus*. 5(1):1-15.
- [11] **Koech, O. K., Kinuthia, R. N., Karuku, G. N., Mureithi, S. M., & Wanjogu, R. (2016).** Field curing methods and storage duration affect the quality of hay from six rangeland grass species in Kenya. *Ecological Processes*, 5(1), 1-6
- [12] **Kuria S G, Adongo A O A, Murithi S, Koech O K, Njoka J T and Kamande P (2016).** Acquisition and management of Somali camel breed for pastoral resilience within peri-urban Isiolo and Marsabit counties of Northern Kenya. *Livestock Research for Rural Development. Volume 28, Article #172.* Retrieved from <http://www.lrrd.org/lrrd28/9/kuri28172.htm>
- [13] **Walter Angwere Onekon and Koech Oscar Kipchirchir (2016)** Assessment of Consumer Awareness on Environmental Effects of Charcoal Production and Use in Nairobi City, Kenya. *International Journal of Science and Research (IJSR) ISSN (Online): 5(1)2319-7064.*
- [14] **Koech, O. K., Kinuthia, R. N., Karuku, G. N., Mureithi, S. M., & Wanjogu, R. (2015).** Water use efficiency of six rangeland grasses under varied soil moisture content levels in the arid Tana River County, Kenya. *African Journal of Environmental Science and Technology*, 9(7), 632-640. <http://www.academicjournals.org/AJEST> DOI: 10.5897/AJEST2015.1917
- [15] **Kipchirchir, K. O., Ngugi, K. R., Mwangi, M. S., Njomo, K. G., & Raphael, W. (2015).** Water Stress Tolerance of Six Rangeland Grasses in the Kenyan Semi-arid Rangelands. *American Journal of Agriculture and Forestry*, 3(5), 222-229.
- [16] **Koech O. K., Kinuthia R. N., Mureithi S. M., Karuku G.N, Wanjogu R (2014).** Effect of Different Soil Water Content and Seed Storage on Quality of Six Range Grasses in the Semi-Arid Ecosystems of Kenya. *Environment and Ecology Research* 2(2): 261-271, 2014 <http://www.hrpub.org> DOI: 10.13189/ eer.2014.020701

- [17] **Koech, O. K., Kinuthia, R. N., Mureithi, S. M., Karuku, G. N., & Wanjogu, R. K. (2014).** Effect of Varied Soil Moisture Content on Seed Yield of Six Range Grasses in the Rangelands of Kenya. *Universal Journal of Agricultural Research* 2(5): 174-179, 2014
- [18] **Kipchirchir, K. O. (2013).** Food Security: In The Pastoral Communities In Arid And Semi-arid Lands Of Africa.
- [19] **Koech O. Kipchirchir, Kinuthia R. Ngugi and R.G. Wahome, 2011.** Use of Dry Land Tree Species (*Prosopis juliflora*) Seed Pods as Supplement Feed for Goats in the Arid and Semi Arid Lands of Kenya. *Environmental Research Journal*, 5: 66-73
- [20] **O.K. Koech, R.N. Kinuthia, R.G. Wahome and S.K. Choge, 2010.** Effects of *Prosopis juliflora* Seedpod Meal Supplement on Weight Gain of Weaner Galla Goats in Kenya. *Research Journal of Animal Sciences*, 4: 58-62

K. CHAPTER IN A BOOK

- [1] Austin Otieno and Oscar Koech (2017): Effectiveness of Different Flow Arrangements Under Subsurface Flow Constructed Wetland Systems In Effluent Polishing (pp. 56-85). In *constructed wetlands for wastewater management*. In LAP Lambert Academic publishing, by Austine Otieno, George karuku and James Raunde.
- [2] Kipchirchir, K. O., Kinuthia, N. R., & Githaiga, W. R. (2014). Use of *Prosopis juliflora* Seedpod as Livestock Feed Supplement in the Arid and Semi-arid Rangelands of Kenya. In *Science, Policy and Politics of Modern Agricultural System* (pp. 197-209). Springer Netherlands, by Behnassi, M., Shahid, S. A., & Mintz-Habib, N

L. PAPERS PRESENTED IN CONFERENCES/WORKSHOP

- [1] Urban farming practices and effects on environment; Case of Nairobi. Third International Conference on Drylands, Centre for Dryland Agriculture, Bayero University, Nigeria on 24-28th September 2018. Conference theme: Resource constraints, conflicts, and changing climate in drylands: Options for attaining SDGs
- [2] Reflections: Imperatives for Successful CSA Scaling in Africa Scaling Climate Smart Agriculture: Lessons from ESPA Synthesis". Sino-Africa Joint Research Centre (SAJOREC) Botanical Gardens, Jomo Kenyatta University for Agriculture and Technology. Dates: 16th January 2018
- [3] Intensification of pastures in the tropics should consider Enteric Methane Emission to the environment to save the climate: An in vitro CH₄ analysis from common intensified range pastures in Kenya. 2016 Fifth African Higher Education Week and RUFORUM: Biennial Conference. RUFORUM Working Document Series (ISSN 1607-9345) No. 14 (3): 341-344. Available from <http://repository.ruforum.org>
- [4] Community perception of importance, trends, and variations of indigenous grasses in Southern Kenya. 2016 Fifth African Higher Education Week and RUFORUM: Biennial Conference. RUFORUM Working Document Series (ISSN 1607-9345) No. 14 (2) : 807 - 817. Available from <http://repository.ruforum.org>
- [5] Effect of stage of maturity, curing and storage methods on the quality of hay from six indigenous grass species of Kenyan rangelands. 2nd International Conference on

Drylands: Agricultural Diversification - Panacea To Food Insecurity In Drylands, Bayero University, Kano, Centre For Dryland Agriculture

- [6] Challenges Facing Pasture Production and Use in the Northern Rangelands of Kenya: A Case Study of Marsabit County. 2nd International Conference on Drylands 2016: Agricultural Diversification - Panacea To Food Insecurity In Drylands, Bayero University, Kano, Centre For Dryland Agriculture
- [7] Methane measurement workshop, Aberystwyth University, Institute of Biological, Environmental & Rural Sciences (IBERS), UK from 10 - 11 May 2016
- [8] Strategic fodder production in the drylands: Evaluation of indigenous rangeland grasses production under irrigation. NIB workshop presentation on research findings and proposals: Naivasha, Morendat training and conference centre: 9th -10th July 2015
- [9] Effects of supplementing mesquit (*Prosopis juliflora*) seedpod meal on the performance of weaner Galla goats in the drylands of Kenya. RUFORUM regional capacity building conference: 20 – 24 September, 2010. Entebbe, Uganda
- [10] The importance of trees and shrubs as livestock feed in the arid and semi arid rangelands of Kenya: Case of *Prosopis juliflora* in Baringo district. RUFORUM regional capacity building conference: 20 – 24 September, 2010. Entebbe, Uganda

M. POSTERS PRESENTED IN WORKSHOPS

- [1] **Koech OK, Mureithi SM, Jesse NT, Kamande P:** Pasture Week across 5 ASAL Counties: Accelerating Value Chains Development (AVCD) for smallholder Farmers and Pastoralists with Technologies and Innovations in Kenya: Livestock Value Chain (LVC) Component (Wajir, Turkana, Isiolo, Garissa and Marsabit). Kenya Pastoralists Week 2018, 10 -13th April 2018
- [2] **Koech OK, Kinuthia RN¹, Mureithi SM¹, Wanjogu R², Karuku GN:** Irrigated pasture production for enhanced resilience of pastoral livelihoods in Kenya. Kenya Pastoralists Week 2018, 10 -13th April 2018
- [3] **Koech OK, Mureithi SM, Jesse NT, Kamande P:** Pastoral Community Training to Increase Pasture Production, Value addition and Trade: Supported by Accelerated Value Chain Development (AVCD project) in 5 Counties (Wajir, Turkana, Isiolo, Garissa and Marsabit) Kenya Pastoralists Week 2018, 10 -13th April 2018

N. TEACHING DUTIES AT UNIVERSITY OF NAIROBI

a) Under graduate

Teaching course in Range Livestock Nutrition, Pastoral Production Systems, Principles of Range Management, Research Methods and Communication

Course units: (Each 45 hours)

ARM 301 Principles of Rangeland Management

ARM 304 Range Livestock Nutrition

ARM 410 Range Research Methods

ARM 409 Range Livestock Production Systems

b) Post Graduate

Teaching course in Range livestock Nutrition, Management of Rangelands for Grazing, Range Research Methods, Integrated livestock production systems

Course units:

ARM 507 Range Animal Nutrition

ARM 501 Management Of Rangelands For Grazing

ADR 717 Animal Feed Resources in Drylands

O. POST-GRADUATE STUDENTS SUPERVISION

No.	Name of student	PhD/MSc	Title
1.	Bakari Ahmed Maugunja	Graduated	<i>Ethnobotanical assessment of distribution and utilization of wild medicinal plants by households adjacent to Arabuko sokoke forest in Kilifi County of Kenya</i>
2.	Stanly Jawuor	Graduated	<i>Evaluation of the effects of artificial water sources and their management on plant species composition, diversity and soil organic carbon in Kajiado county</i>
3.	Austine Owuor Otieno	Graduated	<i>Evaluating effectiveness of constructed wetland treatment system for polishing effluent from Gusii water treatment plant in Kisii, Kenya</i>
4.	Sani Abdullahi Kende	PhD-Ongoing	<i>Economic, ecological and social tradeoff analysis and uptake simulation of Aquaponics-Livestock integration versus conventional farming in wetland-Kebbi, Dryland Nigeria</i>
5.	Enock Ontiri	PhD-Ongoing	<i>Effects of Land use and Land Cover Change on Wildlife Conservation in Kawai-Engosi Landscape, Maasai Mara, Kenya</i>
6.	Hanna Kamau	MSC-Graduated	<i>Evaluating Suitability of Indigenous Grass Species for Rehabilitation of Degraded Semi-Arid Rangeland in Suswa, Kenya</i>
7.	Luiza Njeri	MSC-Completed	<i>Effects of Acacia Reficiens on Soil Physical And Chemical Properties And Understorey Vegetation In Laikipia And Samburu Regions, Kenya</i>
8.	Joseph Ombega	MSC-Completed	<i>Effect Of Land Rehabilitation On Soil Physico-Chemical Properties And Diversity Of Herbaceous Layer In Suswa Catchment, Narok County</i>
9.	Dorcus Kagwiria	MSC-ongoing	<i>Effect Of Organic And Inorganic Fertilizer Regimes And Levels On Grain Sorghum (Sorghum Bicolor L. Moench) Growth, Yield And Feed Quality</i>

10. Hillary Rotich	MSC-ongoing	<i>Influence Of Different Grazing Management Practices On Soil Organic Carbon And Greenhouse Gas Emissions In Semi Arid Grasslands Of Makueni County</i>
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P. Thesis Examined

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| 1. Mayaka Kwamboka | MSc | Effects of Climate Variability on Food Security in Ooloolua Area of Kajiado County, Kenya. |
| 2. John Ndungu Wairore | MSc | <i>Influence of enclosure management systems on rangeland rehabilitation in Chepararia, west Pokot County, Kenya</i> |
| 3. Miss Lalampaa Kushi Priscilla | MSc | <i>Influence of Holistic Grazing Management on Herbaceous Species Diversity, Range Use Patterns and Livestock Production In Laikipia County, Kenya</i> |

Q. CONFERENCES/WORKSHOPS ATTENDED

- ✓ Workshop on Regreening Kenya with Trees: Mapping a Collaborative Approach at the World Agroforestry Centre's (ICRAF), Nairobi. Date: October 11, 2018
- ✓ Third International Conference on Drylands on 24-28th September 2018, Centre for Dryland Agriculture, Bayero University, Nigeria. Theme: Resource constraints, conflicts, and changing climate in drylands: Options for attaining SDGs
- ✓ Meeting on Partners learning event on advancing localization and capacity development at SKA, Mogadishu in Somalia on July 11th 2018
- ✓ ESPA's Professional Development Course (PDC) on Ecosystem Services for Poverty Alleviation held at Kenyatta University, Nairobi, from 5th to 7th of March 2018.
- ✓ Sino-Africa Joint Research Centre (SAJOREC) Botanical Gardens, Jomo Kenyatta University for Agriculture and Technology. Date: 16th January 2018
- ✓ Pasture Value Chain Stakeholders Workshop in Kajiado County. Pasture stakeholder's workshop. Monday 16th April 2018 at Enchula Resort in Kajiado.
- ✓ "Scaling Climate Smart Agriculture: Lessons from ESPA Synthesis" Sino-Africa Joint Research Centre (SAJOREC) Botanical Gardens, Jomo Kenyatta University for Agriculture and Technology 16th January 2018
- ✓ Stakeholders workshop event organized at the Cooperative Retreat and Conference Centre (CRCC), Hall 1, Cooperative University of Kenya, Date: 18th January 2018
- ✓ Rangeland Communities Exchange Conference: Theme: Examining the Interface between Community Resource Management Practices and Governance Frameworks in the Kenyan Rangelands at Kenya Commercial Bank Leadership Centre - Karen, Nairobi 18th and 19th December, 2018

- ✓ Workshop on Participatory assessment of land degradation and sustainable land management in grassland and pastoral systems, held at Ole Sereni hotel on 24th and 25th January, 2018. Funded by Global Environment Facility (GEF)

R. TECHNICAL REPORTS/ POLICY DOCUMENTS

- ✓ Training report on Participatory approaches in project planning and management held at Cradle hotel, in Lodwar, Turkana county from 2nd to 6th October 2018
- ✓ Technical report - End of Project Evaluation for the Providing Analytical Services for Informed Farming in Kenya (PASIFIK) Project: The Project targeted twelve thousand (12,000) dairy-producing households in six (6) counties namely Uasin Gishu, Bomet, Nandi, Nyeri and Nyandarua. Date: December 2017-Jan 30th 2018
- ✓ Draft Wajir County Feed Policy (2017) Department Of Agriculture, Livestock And Fisheries, County Government of Wajir
- ✓ Technical report on End of Project Evaluation for the Providing Analytical Services for Informed Farming in Kenya (PASIFIK) Project. Dec 2017-Feb 2018 for Heifer International
- ✓ Baseline Survey report: Devolved Climate Change Community Prioritised Investments in Kitui, Mkaueni, Garissa and Wajir Counties. April – June 2016 for International Institute for Environment and Development (IIED)-UK
- ✓ Technical report on Baseline survey study on food for all project Kenya in Meru, Embu, Machakos, Makueni and Tharaka Nithi Counties. September – October 2015 for Solidaridad Eastern & Central Africa Expertise Centre
- ✓ Technical report on Scoping study to evaluate the food safety standards of fresh fruits and vegetables (FFV) in selected domestic markets in Kenya. April – May 2015 for SNV Netherlands Development Organisation, hortIMPACT project
- ✓ Policy Brief on Sustainable Rangeland Management in Wajir County: Critical Issues And Tough Choices. May 2014
- ✓ Technical Study report: Study to Strengthen Rangeland Management in Wajir County: Study on Dfid Funded Strengthening Community Resilience Project in Wajir. May 2014
- ✓ Technical Consultancy Report for assessing the potential of fish development among small-scale fishermen of Ewaso Ngiro South. December 2014 – January 2015 for African conservation Centre

- ✓ Livelihoods survey study Report for African conservation centre in Maasai mara and Amboseli. June 2014 for African conservation Centre
- ✓ Technical Study Report to strengthen rangeland management consultancy: study on DFID funded strengthening community resilience project in Wajir. May 2014 for Oxfam Kenya
- ✓ Technical End of project evaluation Report for the program to support the emergency in water and livelihood in Somalia. July 2013 for Adventist Development and Relief Agency (ADRA), Somalia.
- ✓ Technical Baseline study report on Snap production and marketing in Kenya, Uganda and Tanzania, under “Validation of snap bean integrated crop management technologies for improved livelihoods. May 2013 for the Association for Strengthening Agricultural Research in Eastern and Central Africa (ASARECA).
- ✓ Value chain assessments of Livestock, Fodder, Milk Production and Marketing in Arid and Semi-Arid Lands of Kenya under “Promotion and Strengthening Enterprises and Market Systems an Drought-Prone ASAL Areas. April 2013 for Netherland Development Organization (SNV).
- ✓ Technical report on Certified Holistic/Rangeland Management for Somaliland/Puntland Food Security & Livelihood Project. 2012 for World Vision Somalia

S. TRAINING MANUALS DEVELOPED

- ✓ 2018: Dr. Koech Oscar, Dr. Stephen Mureithi and Pauline Atapo Lochipo: Fodder production and conservation manual. Manual for the Field Extension Workers in ASAL Counties, Kenya
- ✓ 2017: Dr. Koech Oscar and Dr. Stephen Mureithi: Fodder Production and Conservation Training Manual. Enhancing Resilience of Livestock-Based Livelihoods in the Drylands. African Drylands Institute for Sustainability (ADIS)
- ✓ 2017: Dr. Koech Oscar: Frankincense Management and Utilization Training Manual in Somaliland
- ✓ 2017: Dr. Koech Oscar and Prof. Geoffrey Kironchi: Training manual on Sustainable Rangeland Natural Resource Management in Somaliland
- ✓ 2017: Dr. Koech Oscar: Training Manual on *Prosopis Juliflora* Management and Utilization as feed, energy and other uses

- ✓ 2017: Dr. Koech Oscar, Dr. Yazan Ahmed, Dr. Caroline Ngw'eno and Dr. Kevin Momanyi: Training Modules on Sustainable Wildlife and Natural Resource Management and Improved Livestock Production System for Mara Training Centre, Enonkishu conservancy, Maasai mara
- ✓ 2012: Prof. Moses Nyangito, Dr. Oscar Koech and Dr. Yazan Ahmed: Training manual of Holistic Rangeland Management in Somaliland and Puntland. For World Vision Food Security & Livelihood Projects in Somalia

T. TECHNICAL AND COMMUNITY TRAININGS CONDUCTED

- ✓ October 2-8th 2018: Turkana County staff Capacity Development in participatory approaches in Rangeland Resource Management and Utilization. Venue: Lodwar, Cradle Hotel supported by GIZ- technical cooperation facility, Kenya (GIZ-IGAD).
- ✓ Community Training on Vegetative propagation of the Frankincense trees at Biyo-dhacay and Daw-daw villages, Elafwein District in Somaliland on 13th-16 September 2018
- ✓ Community training management of Prosopis juliflora and use of the seedpod for feed through value addition and feeding in Beereto Village, Oodawayne region of Somaliland: 14th June to 18th September 2018
- ✓ Introduction of tissue culture orange flesh sweet potato to Somaliland for increased food security and adapt agropastoralists to climate change by University of Nairobi, September 2018
- ✓ Community training on land preparation for pasture production and reseedling technologies to Namon Rangeland Development Group in Turkana County in June 14th 2018
- ✓ Community training on pasture conservation and utilization in Lokongae Ward, Lokangae Community Environment and Livelihood Group in Turkana County in June 13th 2018
- ✓ Community trainings on sustainable agronomic practices, agroforestry, apiculture and land and water management 2018 in Oodawayne region of Somaliland: 28th June to 6th July 2018
- ✓ Technical Training on Vegetative propagation of the Frankincense trees at IGAD Sheikh Technical Veterinary School (ISTVS) in Somaliland on 26-28 June 2018
- ✓ Continuous trainings: Producers and Practitioners Short course trainings. I am the main trainer at Mara Training Centre on Sustainable Rangeland Management and Livestock husbandry.

- ✓ 22nd March 2018: Community training on land management and sustainable livestock production as a business during the launch of the Turkana County pastures and fodder week. Supported by Feed the Future: Accelerating Value Chains Development (AVCD) for smallholder Farmers and Pastoralists with Technologies and Innovations in Kenya
- ✓ 18 MAY 2017: Community training of land management and sustainable livestock production as a business during the launch of the Garissa County pastures and fodder week. Supported by Feed the Future: Accelerating Value Chains Development (AVCD) for smallholder Farmers and Pastoralists with Technologies and Innovations in Kenya
- ✓ 25th May 2017: Wajir Pasture Week Training to Increase Production, Value addition, Access and Trade in pastures: Supported by Accelerated Pasture Value Chain Development (AVCD project) in Wajir County.
- ✓ 29th May 2017: Training on Pasture Harvesting and Storage and Monitoring of planted farms in Marsabit County, Saku Sub County. Supported by Feed the Future Accelerating Value Chains Development (AVCD) for smallholder Farmers and Pastoralists with Technologies and Innovations in Kenya.
- ✓ December 2015: Training on agricultural biodiversity and management for Horticultural Crops Development Authority staff supported by DLV Plant- Netherlands and Kenya Flower Council
- ✓ December 2015: Training on Climate Change, Carbon footprint and water foot print for Horticultural Crops Development Authority staff supported by DLV Plant- Netherlands and Kenya Flower Council

U. MEMBERSHIP OF EDITORIAL COMMITTEES OF JOURNALS

- [1] Reviewer; Ecological Processes; Springer
- [2] Horizon Research Publishing (HRPUB)
- [3] American Journal Of Experimental Agriculture
- [4] Journal Of Agriculture And Ecology Research
- [5] British Journal of Applied Science and Technology
- [6] Asian Journal of Agricultural Extension, Economics and Sociology

V. PUBLIC LECTURES ATTENDED

- ✓ Improving Water Security for the Poor: Scholars from University of Oxford, University of Dhaka, Water and Land Resource Centre - Ethiopia and the University of Nairobi. Date: Thursday 6th April 2017 at 2.30-5.00pm. Venue: Lecture Theatre 401, 4th Floor University of Nairobi Towers

- ✓ The Value of Space technology' by Prof. George Maeda of Kyushu Institute of Technology (KYUTECH), Japan at Manu Chandaria Auditorium, UoN towers, 6th floor on Tuesday, March 20, 2018 at 3:00 -5:00 pm.
- ✓ Assessment of Climate Change Impacts on Regional Security: a case study of Kajiado District, at Wangari Maathai Institute for Peace and Environmental Studies Public Seminar by Amane Kobayashi on Monday 23rd March, 2015 at 2:00pm, College of Agriculture and Veterinary Sciences (CAVS), Faculty of Veterinary Medicine, in the Small Pathology Lecture Theatre

W. RESEARCH PARTNERSHIPS AND LINKAGES

- ✓ University of Nairobi and world vision Somalia research collaboration on frankincense propagation, management and utilization in Somaliland
- ✓ University of Nairobi and IGAD Sheikh Technical Veterinary School (ISTVS) on Research on tissue culture propagation of Frankincense and Prosopis Juliflora management and utilization
- ✓ University of Nairobi, RUFORUM and ICRISAT on Field Attachment Programme Award (FAPA) RU 2017 FAPA – CRP Dry land Cereals Post Doc research fellowship
- ✓ University of Nairobi and Institute of Biological and Environmental and Rural sciences (IBERS), Aberystwyth University, United Kindom, Post Doc Visiting Research fellow on methane gas measurements techniques from feed resources and livestock feeding in quest to abate GHGs from livestock production systems
- ✓ Kenya Agricultural Research Institute (KARI), Marsabit Research Centre. Collaboration through the IGADs Applied Research in Drylands Grant Facility (ARDGF)
- ✓ Pastoralist Community Initiative and Development Assistance (PACIDA). Collaboration through the IGADs Applied Research in Drylands Grant Facility (ARDGF)
- ✓ Ministry of Agriculture, Livestock and Fisheries Development, Marsabit County. Collaboration through the IGAD" s Applied Research in Drylands Grant Facility (ARDGF)
- ✓ Ministry of Agriculture, Livestock and Fisheries Development, Isiolo County. Collaboration through the IGADs Applied Research in Drylands Grant Facility (ARDGF)

X. NEGOTIATED MEMORANDA OF UNDERSTANDING

- ✓ 2017: Memorandum of Understanding (MOU) between World Vision Somalia UoN and IGAD Sheikh Technical Veterinary School (ISTVS) in Somaliland.
- ✓ Collaboration Research and Outreach agreement between World Vision Somalia UoN and IGAD Sheikh Technical Veterinary School (ISTVS) in Somaliland
- ✓ 2016: Aberystwyth University, Institute of Biological, Environmental & Rural Sciences (IBERS), UK and the University of Nairobi, Kenya

- ✓ 2016: MoU between Ol Pejeta Conservancy and the University of Nairobi (UoN)
- ✓ 2017: Memorandum of Understanding (MOU) between Soil4Climate, Maasai Centre for regenerative project (MCRP) and the University of Nairobi

Y. PERSONAL ASSESSMENT AND ABILITIES

I have the Ability to work under minimum supervision, Honest, Team player, Hardworking and Self-discipline. I have good Leadership and Organizational skills, Analytical Thinking, Self-motivation, Team player, Diligent, Computer and Internet skills, and Professionally confident.

Z. LIST OF REFERENCES

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