

## CURRICULUM VITAE

***Robinson Kinuthia Ngugi, PhD***

Associate Professor (Range Management)

**UNIVERSITY OF NAIROBI**

College of Agriculture & Veterinary Sciences

Department of Land Resources Management

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### PERSONAL DETAILS

**Date of Birth:** 13-05-54

**Marital status:** Married

**Number of children:** Two (Adults)

**Nationality:** Kenyan

**Religion:** Christian

### PROFESSIONAL PROFILE SUMMARY

Associate Professor (Range Management; Holder of PhD (Range Management), University of Wyoming, USA (1990); MSc (Range Management), Texas A&M University (1982); and Bachelor of Science (Agriculture), UON. Principal, Co-Principal or Investigator in several donor-funded research projects such as Making the Best of Climate: Adapting Agriculture to Climate Variability funded by Association for Strengthening Agricultural Research in Eastern and Central Africa (ASARECA); Creating Wealth For Smallholder Farmers in Arid Areas of Kenya: The Case of Mukau (*Melia Volkensii*) funded by Government of Kenya/European Union through the Kenya Agricultural Productivity Programme of Kenya; Foe or friend: Management and Utilization of *Prosopis juliflora* in Kenya, funded by Government of Kenya and European Union through the Kenya Agricultural Productivity Programme of Kenya. Representative the University in Steering Committee of the National Environmental Management Authority (NEMA), and in Management Board of the Wangari Maathai Institute of Peace and Environment (WMI). Research interest includes integrated livestock production/management, climate change and agricultural adaptation in dry lands. Has over 20 years' experience of teaching, research and community outreach at UoN, has initiated and implemented over 15 collaborative partnerships and projects between the university and local, regional and international organizations. Has supervised over 30 Masters and PhD students and published over 40 papers in internationally refereed journals. A dedicated and results-oriented person with a track record of professional achievements. Enjoys participating as well as managing, motivating and training successful and productive teams, and thrives in challenging working environments. Able to work well without supervision, exercising requisite prioritization in meeting set deadlines and delivering results.

### EDUCATION AND QUALIFICATIONS

- Bachelor of Science (Agriculture), University of Nairobi, Kenya, 1975-1978.
- Master of Science, Range Management, Texas A & M University, USA, 1980-1982.
- Doctor of Philosophy, Range Management, University of Wyoming, USA, 1986-1990

## PROFESSIONAL DEVELOPMENT

- **Associate Professor** (Range Management), University of Nairobi, **May, 2011- Date**
- **Senior Lecturer**, University of Nairobi, **April 2000- 2011**
- **Lecturer**, University of Nairobi, former Department of Range Management, **1990-2000**
- **Assistant Lecturer**, University of Nairobi, Department of Range Management, **1985-1990**
- **Civil Servant** - Agricultural Research Officer I in-Charge of Kitengela Sheep & Goat Multiplication Station of the Ministry of Agriculture & Livestock Development. In-charge of the day-to-day running of the station and co-ordination of research, demonstrations and extension activities (1982-1984).
- **Civil Servant**, Agricultural Research Officer II, Ministry of Agriculture & Livestock Development, Kenya; Katumani Dryland Farming Research Station, Machakos District. Attached to FAO/UNDP/GOK integrated farming systems research programme. (1978-1979).
- **Bank Clerk**, Standard Bank Limited, Kenyatta Avenue Branch (1975)
- **Untrained Teacher**, Mbugiti Secondary School (1974)

## CAREER SUMMARY

- **Former Ag. Dean**, Faculty of Agriculture, University of Nairobi (August 2, 2013 – 30<sup>th</sup> July 2014).

### Duties:

- Chairing the Faculty Board and standing committee meetings of Faculty;
- Communicating with Chairmen/persons on university policies;
- Developing a budget for the administration of the Faculty in conformity with guidelines;
- Maintaining links between the Faculty and other Faculties and Board of Postgraduate Studies;
- Establishing and maintain links with other institutions and academic bodies;
- Initiating and guiding development of new curricula;
- Ensuring quality in teaching, and examination;
- Initiating research within the Faculty;
- Member of Senate, Deans' Committee, and other University Committees;
- Carrying out other duties that may be assigned by Vice-Chancellor, College Principal or Faculty Dean

**Chairman**, Department of Land Resources and Agricultural Technology (LARMAT) (2008-2013).

### Duties:

- Academic and administrative Head reporting to College Principal and Dean;
  - In-charge of day-to-day operation of department—teaching and examinations
  - Maintaining fiscal management of department resources;
  - Supervising staff assigned to the department;
  - Assigning faculty and staff workloads:
- **Acting Chairman**, Land Resources and Agricultural Technology (LARMAT) - various dates
  - **Acting Chairman**, former Department Range department & current LARMAT - various dates
  - **Head of Range Management Section**, Department of LARMAT, (2005-2008)
  - **Chairman**, Faculty of Agriculture Post Graduate Studies Committee (FPSC) (2004-2008)

- **Departmental representative**, Faculty of Agriculture Board of Post Graduate Committee (1997-2004)
- **Coordinator**, Department of Range Management Postgraduate Programmes (2000-2004)
- **Member of University Working Committee** for the establishment of Wangari Maathai Institute of Peace and Environmental Studies (WMIPES)
- **Board Member**, Wangari Maathai Institute of Peace and Environmental Studies (WMIPES)
- **University Representative**, Global Environmental Facility (GEF) National Steering Committee, 2010-Date
- **Patron**, Nairobi University Range Management Students' Society (**NURMSS**)
- **Patron**, Range Management Alumni Chapter, University of Nairobi
- **Patron**, Runway Environmentalist Group

## PROFESSIONAL ASSOCIATIONS

- Animal Production Society of Kenya (APSK)
- East African Wildlife Society (EAWLS)
- Eastern Africa Range Management Society (EARMS)
- Gideon's International Ministry

## RESEARCH GRANTS

1. **“Managing risk, reducing vulnerability and enhancing productivity under a changing climate”** A four-year regional (Kenya, Tanzania, Ethiopia, Sudan) project supported by International Development Research Centre (IDRC). **Grant Amount Canadian \$: 1,100,00**
2. **“Making the Best of Climate: Adapting Agriculture to Climate Variability”**. A regional (Kenya, Ethiopia, Madagascar) Collaborative Research Project supported by Association for Strengthening Agricultural Research in Eastern and Central Africa (ASARECA) Competitive Grant System (CGS) (FS-B), **Grant Amount: EUROS 420,000**
3. **“Capacity Building in Regional Climate Prediction and Application for the Greater Horn of Africa”**. A 2-year, USAID-funded collaborative research project between Department of Range management, the Drought Monitoring Centre, Nairobi (DMCN) and the International Research Institute for Climate Prediction (IRI) of Columbia University, NY, (200-2002). **Grant Amount: USD 75,000**
4. **“Regional Climate Prediction and Risk Reduction in the Greater Horn of Africa**. 2-year extension of the above collaborative research project between Department of Range management, the Drought Monitoring Centre, Nairobi (DMCN) and the International Research Institute for Climate Prediction (IRI) of Columbia University, NY, (2003-2005). **Grant Amount USD: 185,284**
5. **“Foe or friend: Management and Utilization of Prosopis juliflora in Kenya using value chain approach”** A 3-year collaborative research project funded by Government of Kenya and European Union through the Kenya Agricultural Productivity Programme of Kenya to provide alternative solutions to problems of managing Prosopis juliflora. **Grant Amount: USD 100,000**
6. **Creating Wealth for Smallholder Farmers in Arid Areas of Kenya: The Case of Mukau (Melia Volkensii)**. A 3-year collaborative research project funded by Government of Kenya and European Union through the Kenya Agricultural Productivity Programme of Kenya to promote propagation and cultivation of of Mukau (*Melia volkensii*) in southeastern Kenya. **Grant Amount: USD 100,000**

***Masters***

1. Nyagito, M.M. 1995. "Effect of poultry waste and grain sorghum supplement on utilization of range hay by Small East African Goats". ***RK Ngugi and NKR Musimba***
2. Ndung'u, J.N. 1995. Forage intake and nutritive value of sheep and goat diets in Southern Central Kenya". ***RK Ngugi and NKR Musimba***
3. Doyo, G.J. 1995. "Gum Arabic production potential from *Acacia senegal* (L.) Willd. in northern Kenya." ***RK Ngugi and NKR Musimba***
4. Kahsay, N.G. 1998. "Effects of restricted water intake on live weight gain, milk production and kids' growth rate of Husani goats in the southwestern lowlands of Eritrea". ***RK Ngugi and NKR Musimba***
5. Oliver, V.M. 1999. Effects of tree canopy cover on soil organic matter, soil moisture and above ground biomass productivity of understory grasses in southern Kenya rangelands, M.Sc. 1999. ***RK Ngugi and DM Nyariki***
6. Henry C. Kahi. 2002. Effects of *Prosopis Juliflora* and *Acacia tortilis* canopies on understory plants and soil properties in Baringo District, Kenya. ***R Ngugi and JC Ng'ethe***
7. Kilonzo J.Mutuku. 2002. Feeding ecology and nutrition of sheep (*Ovis aris*) and Grant's gazelle (*Gazella grantii*) on Kapiti Ranch, Kenya. M.Sc. ***WEkaya and RK Ngugi***
8. Najjoke N. Tabbiruka. Effect of watering frequency on nutrition and body weight changes in Nganda sheep in mid-eastern Uganda. ***RK Ngugi and CK Karue***
9. Silvanos G. Otieno. 2002. Wildlife/cattle/plant interactions: An analysis of herbaceous layer productivity and utilization of primary production in black cotton soil ecosystem in Laikipia, Kenya. ***TJ Njoka and RK Ngugi***
10. Omondi Francis E. Opiyo. Rangeland rehabilitation: Ecological and socio-economic effects of land preparation methods on *Cenchrus ciliaris* (L), *Eragrostis superba* (Pyr) and *Enterogogon macrostachyus* (Hochst and Rich) Munro Ex Benth in Kitui District, Kenya. ***WEkaya and RK Ngugi***
11. Kipkoech Bernard Korir. 2008. Effects of housing, helminthes control and supplementary feeding on performance of weaner kids in southcentral Kenya rangelands. ***RK Ngugi and DM Nyariki***
12. Koech, O.K. 2010. Effects of *Prosopis juliflora* seedpod meal supplement on weight gain of weaner Galla goats in Kenya. ***RK Ngugi and R Wahome***
13. Kimathi Isaac. 2009. Effects of burn size and burn patterns on the aboveground net primary production on savanna ecosystem, Laikipia Kenya. ***TJ Njoka and RK Ngugi***
14. Vednessa Wambua. 2012. Effects of weather and soil type on rate of cattle and Zebra dung decomposition. ***TJ Njoka and RK Ngugi***
15. Machogu Clara. 2012. A comparative study of the productivity of *brachiaria* hybrid cv. Mulato ii and native pasture species in semi-arid rangelands of Kenya. ***RK Ngugi, L. MacOpiyo & WN Mnene***
16. Carol Kyalo 2015: Carbon sequestration and livelihood support of *Melia volkensii* in semi-arid areas of Eastern Kenya (Kibwezi district, Makueni County). Jürgen Blaser, Kinuthia Ngugi, Vincent Oeba

17. Lutta Inyende Alphayo, 2015. Effects of Holistic Grazing Management on Soil Physico-Chemical Properties and Herbaceous Vegetation Production in Naibunga Conservancy, Laikipia County, Kenya. RK Ngugi, VO Wasonga and WO Odadi
18. Ouma Daniel Onyango . 2017. Assessing Factors Influencing Food And Livelihood Security Among Pastoral Communities In Turkana County, Kenya. DM Nyariki and RK Ngugi

### **Doctoral**

1. Karimi, S.K. Socio-economic and epidemiological factors affecting morbidity, mortality and growth rate of calves among the Maasai pastoralists of Kajiado District, Kenya. *J M Gathuma, J J McDermott, G K Gitau, R K Ngugi*
2. Chomba, N. Thesis Title: Factors affecting productivity, mobility and mortality of camel calves, kids and lambs in the Rendille livestock production systems. *J M Gathuma, G K Gitau, F M Njeru, R K Ngugi*
3. Vivian O. Wasonga. 2009. Linking desertification to society: The case of Baringo rangelands, Kenya. *DM Nyariki and R K Ngugi*
4. Joseph Ndungu. "Quantitative and qualitative prediction of cattle diets and performance by analysis of fecal near infrared spectra in southeastern drylands of Kenya". *R K Ngugi and M M Wanyoike, L Macopiyo*
5. Koech, O.K. 2010. Comparative growth and interspecific competition f range grasses to varying watering schedules in rangelands of Kenya. *RK Ngugi, G. Karuku, R. Wanjogu*

### **BOOK CHAPTER & SCIENTIFIC PAPERS**

1. **Chapter 7: Part II: LIVESTOCK RESOURCES:** Rangeland Resources in Eastern Africa: Their Ecology and Development. Dennis Herlocker (Editor), Published by GTZ, German Technical Cooperation, Nairobi 1999.
2. **Kinuthia R. Ngugi**, J. Powell, Frank C. Hinds and Richard A. Olson, 1992: Range Animal diet composition in South Central Wyoming, *Journal of Range Management* 45(6): 542-545.
3. **Kinuthia R. Ngugi**, Frank C. Hinds and J. Powell, 1995. Mountain big sagebrush browse decreases dry matter intake, digestibility, and nutritive quality of sheep diets, *Journal of Range Management* 48(6): 487-492.
4. **Kinuthia R. Ngugi**, Frank C. Hinds and J. Powell, 1995. Influence of mountain big sagebrush browse on intake, digestibility, and nutritive quality of sheep diets. USDA, Wyoming Agricultural Experiment Station, Department of Rangeland Ecology and Watershed Management, College of Agriculture, RJ-213.
5. Moses M. Nyangito, **R.K.Ngugi** and N.R.K. Musimba, 1998. Effects of poultry waste and grain sorghum supplements on utilization of range hay by Small East African Goats. *East African Agricultural. & Forestry Research Journal* 62:4.
6. Kahsay, N.G., **Ngugi, K.R.** Musimba, N.K.R. & Nyariki, D.M. 1999. The performance of Husani dairy goats under water restriction in the arid western lowlands, Eritrea. *Bulletin of Animal Health and Production in Africa.* 47:97-101.
7. Kahsay, N.G., **Ngugi, R.K.**, Nyariki, D.M. & Musimba, N.K.R. 2000. Effect of restricted water intake on liveweight gain, milk production and kids' growth rate of Husani does in Eritrea's arid western lowlands. *East African Agricultural. & Forestry Research Journal* 63(1)
8. Farah, K.O., Nyariki, D.M., Noor, A.A., **Ngugi, R.K.** & Musimba, N.K. (2001). The socio-economic and

ecological impacts of small-scale irrigation schemes on pastoralists and drylands in northern Kenya. *Journal of Social Sciences* 6:1-8

9. Mengistu, R.A., Ngugi, K.R. Musimba, N.K.R. & Nyariki, D.M. 2002. Feeding value of *Acacia tortilis* pods in goats. *Indian Journal of Animal. Science.* 73(7):826-828
10. Mengistu, R.A., Ngugi, K.R. Musimba, N.K.R. & Nyariki, D.M. 2002. Effects of *Acacia tortilis* pods on intake, digestibility and nutritive quality of goat diets in southwestern Eritrea. *African Journal of Range. & Forage Science.* 20(1):59-62
11. Wasonga, V.O., Ngugi, R.K., Nyariki, Kironchi, G., & Njoka, T.J. 2003. Effect of *Balanites glabra* canopy cover on grass production, organic matter and soil moisture in southern Kenya rangelands. *African Journal of Range & Forage Science.* 20(3):259-264.
12. Nyariki, D.M. & Ngugi, R.K. 2002. A review of African pastoral production systems: Approaches to their understanding and development. *Journal of Human Ecology.* 13(6):237-250.
13. Wasonga, V.O., R.K. Ngugi and A. Kitanyi. 2003. Traditional Range Condition and Trend Assessment: Lessons from Pokot and Il Chamus Pastoralists of Kenya. *Anthropology,* 5(2): 79-87(2003)
14. Njanja, J.C., Gathuma, J.M., Gitau. G.K. Njeru F.M. and R.K. Ngugi. 2003. Pastoralists' perception of livestock production systems and opportunities for improvement in southwestern Marsabit, Kenya. *Journal of Research in Livestock and Rural Development.* (Accepted 1 June 2003)
15. Ngugi, R.K., Ndung'u J.N., Musimba, N.K.R. & Nyariki, D.M, (2004). Seasonal Botanical and Chemical Composition of Sheep and Goats Diets on Semi-Arid Rangeland in Southeastern Kenya. *African Journal of Range & Forage Science.* 21(1):11-19
16. Kilonzo, J.M., Ekaya W.N. and Kinuthia R.N. (2004). Feeding characteristics of sheep and Grant's gazelles on Kapiti ranch, Kenya. *African Journal of Range & Forage Science* 22(1):1-10.
17. K.O.Farah, D.M. Nyariki, R.K. Ngugi, I.M. Noor and A.Y. Guliye. 2004. The Somali and the Camel: Ecology, Management and Economics. *Anthropologist,* 6(1):45-55.
18. Bariagabre, S.A., Ngugi R.K., Musimba N.K. and Nyariki D.M. (2004). Chemical composition and feed value of spiny and spineless cacti (*Oputia*) to livestock. *Bulletin of Animal Production in Africa.* 52:198-202
19. Najjoke N.T., Ngugi R.K. Karue C.N. and Nyariki D.M. (2004). Effects of increasing duration of water deprivation on water intake, feed intake, feed digestibility and body weight gain by Nganda sheep. *Bulletin of Animal Production in Africa.* 52:259-261
20. Ngugi, R.K. & Nyariki, D.M. 2005. Rural livelihoods in the arid and semi-arid environments of Kenya: Sustainable alternatives and challenges. *Journal of Agricultural and Human Values* 22:65-71
21. Karimi S.K., G.K. Gitau, J.J. McDermott, R.K. Ngugi J.M. Gathuma. 2005. Estimation of birth weight of Maasai Zebu calves and their crosses with Sahiwal and Boran in Kajiado District, Kenya. *Bulletin of Animal Health and Production in Africa.* 53: 35-41
22. Karimi S.K., Gitau G.K., McDermott J., McDermott B., Gathuma J.M. and R.K. Ngugi. 2008 Causes of calf mortality and morbidity in Maasai herds in Kajiado District, Kenya. *E.Afri. Agric. For. J.* 74 (3) 185-192
23. Karimi S.K., Gitau G.K., McDermott J., McDermott B., Gathuma J.M. and R.K. Ngugi. Risk factors for seroprevalence of tick-borne diseases of calves in Maasai pastoral herds in Kajiado District, Kenya. *Proceedings of Research Conference at Egerton University 2008*
24. Kahi, C.H., Ngugi, R.K., Mureithi, S.M. and J.C. Ng'ethe. 2009. The effects of *Prosopis juliflora* Hyne (DC)

and *Acacia tortilis* (Forssk) trees on herbaceous plants species and soil physical and chemical properties, on Njempis flats, Baringo District, Kenya. *Tropical and Sub-tropical Ecosystems* 10 (3) (441-449).

25. Opiyo F.E. O., Mureithi S.M. and Ngugi R.K. 2010. Water availability influence on pastoralist's resource use in Mwingi and Kitui Districts in eastern Kenya. (Accepted, July 22, 2010 *Human Ecology*)
26. Koech, O.K., R.K. Ngugi, Wahome R.G. and Choge, S.K. 2010. Effects of *Prosopis juliflora* seedpod meal supplement on weight gain of weaner Galla goats in Kenya. *Research Journal of Animal Sciences*, 4 (2):58-62, 2010
27. Korir, B.K., R.K. Ngugi, Nyariki, D.M. 2010. Effects of selected routine husbandry practices on growth rate of weaned Small East African Goats. *Research Journal of Animal Sciences* 4 (2):66-71, 2010
28. R.K. Ngugi, S.M. Mureithi, P.N. Kamande. 2011. Climate forecast information: the status, needs and expectations among Smallholder agro-pastoralists in Machakos District, Kenya. *International Journal of Current Research*, 3(11):006-012
29. R. K. Ngugi<sup>1</sup>, J. M. Kilonzo<sup>1</sup>, J. M. Kimeu<sup>1</sup> and S. M. Mureithi. 2014. Seasonal botanical characteristics of the diets of Grant's (*Gazella granti* Brooke) and Thompson's (*Gazella thompsoni* Guenther) in the dry land habitats of south-central Kenya. *International Journal of Biodiversity and Conservation*, Vol 6(8), pp. 581-588, 2014.
30. Koech Oscar Kipchirchir; Robinson Kinuthia Ngugi; George Karuku; Raphael Wanjogu; Stephen M. Mureithi. 2014. Water Use Efficiency of Six Range Grasses under Varied Soil Water Content in Kenyan Semi-arid Rangeland. Vol. 2(7), pp. 261 – 271
31. Koech Oscar Kipchirchir; Robins Kinuthia Ngugi; George Karuku; Raphael Wanjogu; Stephen M. Mureithi. 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
32. Koech Oscar Kipchirchir; Robins Kinuthia Ngugi; George Karuku; Raphael Wanjogu, Stephen M. Mureithi. 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* Vol 2(2): 261-271, 2014

## SELECTED TECHNICAL REPORTS & WORKSHOP PROCEEDINGS

1. Nyariki, D.M. & **Ngugi, R.K.** (1999). Resources, livelihoods and opportunities for community development in the ASAL. Proceedings of a Workshop on "Improving Rural Livelihoods and the Environment in Arid and Semi-Arid Areas through Small Enterprise Development"; organised by Fibec, University of Nairobi and Genesis, held on 23<sup>rd</sup> June 1999 at Fairview Hotel, Nairobi.
2. Nyariki, D.M. & **Ngugi, R.K.** (2001). Contribution of livestock to food security in agro pastoral systems: Cases from southeast Kenya. Proceedings of the Animal Production Society of Kenya (APSK) Annual Symposium held on 7<sup>th</sup> – 12<sup>th</sup> March 2001 at Egerton University, Njoro, Kenya.
3. **Ngugi, R.K.** (2002). Climate forecast information: the status, needs and expectations among smallholder agro-pastoralists in Machakos District, Kenya. A Report for the International Research Institute for Climate Prediction of Columbia University, NY. USA.

## SELECTED RESEARCH COLLABORATION LINKAGES

- University of Nairobi and International Research Institute/Columbia University (NY)
- University of Nairobi and Strengthening Agricultural Research in Eastern and Central Africa (ASARECA)
- University of Nairobi and Kenya Agricultural Research Institute (KARI)
- University of Nairobi and Ethiopia Agricultural Research Institute (EARI)
- University of Nairobi and Colorado State University

- University of Nairobi and ICRISAT
- University of Nairobi and USAID
- University of Nairobi and SOMEAH, Madagascar
- University of Nairobi and FOFIFA, Madagascar
- University of Nairobi and IDRC
- University of Nairobi and ASARECA
- University of Nairobi and RUFORUM
- University of Nairobi and KEFRI
- University of Nairobi and the SOROS Foundation
- University of Nairobi and START

## RESEARCH/CONSULTANCY ASSIGNMENTS

1. Environmental Impact Assessment Study (PEIAS) on proposed Tana River Hydroelectric power project for Kenya Power and Lighting Company, (1991).
2. Environmental Impact Assessment Study (PEIAS) on proposed Ewaso Ngiro south hydroelectric power project for Kenya Power and Lighting Company,(1991)
3. Climate forecasting and drought knowledge, Rural Appraisal Survey in Mwingi District for UNDP's Office to Combat Desertification and Drought (UNSO) and World Meteorological Organization (WMO). April/May, 1999.
4. Improving rural livelihood and Environment in arid and semi-arid (ASAL) through small enterprise development in Kenya. April/May, 1999 .

## KEY CONFERENCES/WORKSHOPS ATTENDED

1. 24th, March, 2000: Conference on "Forecasting, Food and Farming in Africa" held at Columbia University, NY, USA
2. 7th-11th September, 2000: Workshop on "Great Horn of Africa Climate Outlook Forum" held in Arusha Tanzania
3. 18th-21st, 2006: Workshop on Climate Information for Development Needs: An Action Plan for Africa, Addis Ababa.
4. 17th-21st, 2006: Conference on "Living with Climate Variability and Change" held in Helsinki, Finland.
5. 21st-25th, August 2006: ASARECA-CGS Project, Stakeholders Consultation Meeting, Melkassa Agricultural Research Center.
6. 15th- 22nd, January 2007, Annual Review of SWMnet Steering Committee, Ethiopia, Addis Ababa
7. 2015 Joint Africa, Australia University Network (AAUN), Australia Awards Agricultural Research Symposium, 25 November 2015
8. 2016 Joint Africa, Australia University Network (AAUN), Australia Awards Agricultural Research Symposium, 5-6 May, 2016, Cape Town, South Africa
9. International Data Week 2018 (IDW 2018), 5-8 November, 2018, Gaborone, Botswana.

## SOFT SKILLS

1. Short course on curriculum development for climate change in African Universities (Nairobi, Kenya).
2. Short course on scientific writing and oral communication (Kigali, Rwanda)
3. Writing, teaching (pedagogy) and presentation (Power Point)
4. Formulation of winner research proposals
5. Development of research work-plans and budgets
6. Planning, organization and coordination of seminars and workshops



## REFERENCES

1. **Professor Shellemiah O. Keya**  
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Department of Land Resource Management & Agricultural Technology  
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3. **Professor Dickson M. Nyariki**  
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