

CURRICULUM VITAE

OLIVER VIVIAN WASONGA (BSC; MSC; PHD, RANGELAND ECOLOGY AND PASTORAL LIVELIHOODS)

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A. PERSONAL DETAILS

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|------|----------------------------|--|---|
| i. | Gender: | Male |  |
| ii. | Nationality: | Kenyan | |
| iii. | Area of competence: | Dryland Ecologist with speciality in Dryland Ecosystems Analyses; Climate Change Adaptation and Resilience; and Pastoral Production Systems. | |
| iv. | Current position: | Senior Lecturer, Head of Range Management Section, Department of Land Resource Management and Agricultural Technology. | |

B. CAREER OBJECTIVE

To contribute to resilient dryland ecosystems and pastoral livelihoods by generating and sharing information to support dynamic training and research for demand- and science-led policies and development.

C. SYNOPSIS

Dr. Oliver Vivian Wasonga is an Ecologist with specialization in Rangeland Ecology and Pastoral Production Systems and over 18 years' experience in work related to Sustainable Rangeland Management, Climate Change Adaptation and Pastoral Livelihoods. He is currently a Senior Lecturer in the Department of Land Resource Management and Agricultural Technology (LARMAT) at the University of Nairobi (<https://profiles.uonbi.ac.ke/oliverwasonga>). During 2011- 2014, he worked as a Post-Doctoral Research Fellow at the German Institute for Tropical and Sub-Tropical Agriculture (DITSL) at the University of Kassel in Witzenhausen, Germany (http://www.ditsl.org/index.php?option=com_content&view=article&id). In addition to teaching, he has supervised seven (7) PhD and thirteen (13) MSc students to completion, and currently supervising eleven (11) PhD and eight (8) MSc. students. He represents the Department of LARMAT in the Faculty of Agriculture committees for postgraduate studies, industrial attachment, and chairs the Faculty's timetabling committee. He has been leading the following current and previous research projects at the University of Nairobi: i) Socially Inclusive Adaptation Knowledge for Resilient Livelihoods in Northern Kenya; ii) Drought Resilience In East African dryland Regions (DRIER) project funded by the Royal Society, UK; iii) Economic Valuation of Sustainable Rangeland Management Practices in Northern Kenya; iv) Adaptation at Scale in Semi-Arid Regions (ASSAR) funded by IDRC and DFID; v) "Fodder Production for Enhanced Pastoral and Agro-Pastoral Resilience in the Drylands of Kenya (PREPARED)" funded by the Regional Universities

Forum for Capacity Building in Agriculture (RUFORUM); vi) “Assessing the Role of Stratified Livestock Production in Reduction of Post-Harvest Losses in Pastoral meat Value Chain in Kenya, funded by the German Federal Ministry of Education and Research (BMBF); vii) “Role of Livestock Marketing Associations in Pastoral Meat value chain“, funded by BMBF; viii) Foundations for climate resilient and sustainable growing settlements (U-RES) funded by the Natural Environment Research Council (NERC) through the Global Challenges Research Fund (GCRF; and ix) Re-Packing Indigenous Knowledge to Inform Policy, Development and Pastoral Community Action in Kenya (PIK) funded by the Christensen Fund. Dr. Wasonga’s other experiences include consultancies with several international and national organizations such as the World Bank, African Development Bank, UNDP, WFP, FAO, ILRI, IUCN, IIED, IGAD/ICPAC; IGAD/ICPALD; AWF/KWS, National Drought Management Authority (NDMA), AMREF, ACF, NCKK, GIZ, MS-TCDC-Action Aid, CORDAID-Netherlands, IFAW, CARE-Tanzania, Regional Land Management Unit (RELMA/sida), VSF-Belgium, among others. He is currently involved in the “Development of Regional Strategy for Rangeland Management in Arid and Semi-Arid Lands in IGAD Region“. He has published in diverse areas including rangeland ecology, pastoral livelihoods, climate variability and change adaptation, rangeland management, natural resource management, and indigenous knowledge.

D. EDUCATION

- 2004 – 2009:** Doctor of Philosophy, Rangeland Ecology and Pastoral Livelihoods, University of Nairobi.
- 1998 – 2001:** Master of Science, Range Management (Range Ecology Option), University of Nairobi
- 1992 – 1996:** Bachelor of Science, Range Management, University of Nairobi.

E. ACADEMIC CAREER

- Currently:** Senior Lecturer, University of Nairobi, Department of Land Resource Management and Agricultural Technology, Range Management Section (www.uonbi.ac.ke/staff_profile.php)
- 2011 – 2015:** Lecturer, University of Nairobi, Department of Land Resource Management and Agricultural Technology, Range Management Section (www.uonbi.ac.ke/staff_profile.php)
- 2011 - 2014:** Post-Doctoral Scientist, German Academic Exchange Service (DAAD), GrassNet Programme at the German Institute for Tropical and Sub-Tropical Agriculture (DITSL) at University of Kassel, Witzenhausen, Germany (www.ditsl.org/index.php)
- 2008 – 2011:** Tutorial Fellow, University of Nairobi, Department of Land Resource Management and Agricultural Technology.
- 2006 – 2008:** Part-time lecturer, University of Nairobi, Department of Land Resource Management and Agricultural Technology.

F. RESEARCH AND PUBLICATIONS

1. FUNDED RESEARCH PROJECTS

i. Socially Inclusive Adaptation Knowledge for Resilient Livelihoods in Northern Kenya

The project aims to support pastoralists and agro-pastoralists to use transformative and socially inclusive adaptation knowledge to build the resilience of their livelihoods and landscapes in northern Kenya. The specific objectives of the project are to: develop a social inclusive multi-stakeholder system for knowledge integration and exchange for adaptation and timely decision making; reduce barriers to the flow and integration of adaptation knowledge from different sources; and identify and empower women and youth networks with knowledge, skills and confidence to effectively articulate their adaptation needs.

Role: Co-Investigator, University of Nairobi

Project Duration: January, 2019 – December, 2019

ii. Drought Resilience In East African Dryland Regions (DRIER)

DRIER is a 3-year collaborative research project funded by the Royal Society and implemented by a consortium that include Bristol University, UK (Lead institution); University of Nairobi, Kenya; Addis Abba University, Ethiopia, among other collaborators. The project is concerned with near-future drought risk under climate change in East Africa (Kenya, Ethiopia and Somalia). Specifically, the project seeks to answer the following questions: i) What will be the impacts of climate change on soil moisture and groundwater? ii) How will different areas be affected? iii) What are the barriers to drought adaptation and uptake of information? DRIER project will develop new tools (including a mobile phone app) and data that will enable stakeholders and everyday people to access direct information on the state of the water balance in their local area under current and future rainfall conditions. Using these tools, the project team will work with regional partners and stakeholders to develop strategies for media communication, information uptake, and decision-making for drought adaptation using uncertain data. The products and new understanding from this research have the potential to benefit millions of people in the region.

Role: Co-Investigator, University of Nairobi

Project Duration: January, 2019 – December, 2021

iii. Economic Valuation of Sustainable Rangeland Management Practices in Northern Kenya (SURAMA)

SURAMA is a one and half year collaborative project under the Economics of Land Degradation (ELD) initiative, which was established in 2011 by the German Federal Ministry for Economic Cooperation and Development (BMZ), the UN Convention to Combat Desertification (UNCCD) and the European Commission (EC). ELD is supported under the “*Reversing Land Degradation in Africa through Scaling-up EverGreen Agriculture*” in Kenya project, which is co-funded by BMZ and EC. The Initiative quantifies the costs of land degradation and sets out a universal approach for quantifying the economic benefits of SLM, providing answers to vital questions. These include: How high are the social and economic costs of land degradation? What are the short- and long-term benefits of applicable SLM approaches? What actions are needed to address the problem of land degradation effectively and efficiently, and what specific measures need to be implemented? The ELD Initiative highlights the value of SLM and provides an approach for analysis of the economics of land degradation. It helps decision makers better understand the overall costs and benefits when implementing policies and actions dealing with land, making economics of land management an integral part of policy strategies and decision making by increasing the political and public awareness of the costs and benefits of land and land-based ecosystems. SURAMA project includes University of Nairobi, Stockholm Environment Institute; Laikipia University; and Jomo Kenyatta University of Agriculture and Technology.

Role: Principal Investigator/Team Leader

Project Duration: July, 2018 – December, 2019

iv. Adaptation at Scale in Semi-Arid Regions (ASSAR)

Adaptation at Scale in Semi-Arid Regions (ASSAR) is 5-year (May 2014 –November, 2018) consortium funded by IDRC and DFID. The consortium is led by the University of Cape Town and covers Eastern Africa, Western Africa, Southern Africa, and Central Asia (India). ASSAR’s overarching objective is to deepen understanding of climate vulnerability and adaptation in semi-arid regions, and help transform current adaptation practice to a mode that achieves proactive, widespread adaptation embedded in development activities at multiple governance scales, to advance adaptive livelihoods for vulnerable groups. Specific objectives are to: (i) undertake high-quality, transdisciplinary research to generate new knowledge on vulnerability and adaptation; (ii) develop and trial relevant actionable strategies for adaptation; (iii) drive innovative communication approaches for knowledge sharing; and (iv) enable systemic capacity strengthening for adaptation in research, policy and practice.

Role: Co-Researcher

Project Duration: May, 2014 – November, 2018

v. Fodder Production for Enhanced Pastoral and Agro-Pastoral Resilience in the Drylands of Kenya (PREPARED)

Funded via sixth call for proposals under the graduate research grants (GRG). The objectives of the project are to: i) assess the current fodder production practices and pastoral/agro-pastoral community perceptions on fodder production and marketing in Makueni County of Kenya; ii) assess local knowledge on the indigenous grass species, their spatial distribution and trends over the last 40 years; iii) analyze the fodder value chain to determine actors and market linkages, and determine the profitability, functionality and efficiency of the value chain in the study area; iv) determine factors that influence households' participation in fodder production in the study area; v) determine strategies that enhance the producers' prices and efficiency along the fodder value chain in the study area; and vi) identify lessons and opportunities that can be used to build strong community institutions to sustain the fodder value chain in Kenya's drylands. The project is supporting two MSc students registered at Faculty of Agriculture, University of Nairobi.

Role: Principal investigator

Project Duration: July, 2015 - April, 2018

vi. Foundations for climate resilient and sustainable growing settlements (U-RES)

U-RES primary aim is to establish a community of trans-disciplinary experts (beyond academia) working together to provide the underpinning knowledge needed to support the transition from burgeoning settlements to resilient and sustainable cities and megacities in the face of a changing climate in Africa. It is a research consortium funded by the Natural Environment Research Council (NERC) through the Global Challenges Research Fund (GCRF). U-RES is led by University of East Anglia in UK and includes University of Nairobi; University of Newcastle, UK; Kwa Zulu Natal University, South Africa; OXFAM GB, UK; and Asian Institute of Technology in Thailand. The specific objectives of the project are to: Identify the most promising locations to nurture resilient cities, given current knowledge about past hazards from archaeological evidence, current urbanisation trends, and future climate risks; review the development and governance approaches in cities that have specifically tried to address the needs of the marginalised, and generate and share insights on processes through which urban governance processes could be improved and; identify information flows at the very early stages of urbanisation, including for marginalised groups, and the op+

portunities to influence urban development. The project aims to produce a 5-year international research and engagement plan focusing on better understanding the intervention points at the early stages of urbanization and the needs of marginalised communities.

Role: Co-investigator

Project Duration: January, 2017 – March, 2018

vii. Reduction of Post-Harvest Losses and Value Addition in East African Food Value Chains (RELOAD)

RELOAD is a 5-year (June 2013 – 2018) collaborative trans-disciplinary project funded by the German Federal Ministry of Education and Research (BMBF). The project brings together a consortium of partners in Germany, Kenya, Ethiopia and Uganda and is led by the Institute for Agricultural Engineering at the University of Kassel in Germany. In Kenya, one focus of RELOAD is on pastoral meat value chains. The high losses along the pastoral meat value chain include animal weight loss prior to slaughter, wastage of animal products and by-products, losses in quality of meat products and economic losses due to low profit margins for the producers. The project is funding four (4) PhD research studies to analyze different possibilities to reduce losses and increase efficiency along the pastoral meat value chains. These studies are jointly implemented by the University of Nairobi, National Museums of Kenya and the German Institute for Tropical and Sub-tropical Agriculture (DITSL) at the University of Kassel in Germany. The PhD candidates are registered at the University of Nairobi and University of Kassel (www.ditsl.org)

Role: Principal investigator for sub-project 6, workpackages 4 (Stratified livestock production systems) & workpackage 5 (Livestock marketing associations).

Project Duration: June, 2013 – December, 2018

viii. Re-Packing Indigenous Knowledge to Inform Policy, Development and Pastoral Community Action in Kenya (PIK)

PIK is a 17 months project funded by the Christensen Fund. The project is implemented by the University of Nairobi in partnership with a community-based organization, Resource Advocacy Programme (RAP) based in Isiolo County. It covers Marsabit, Samburu and Isiolo Counties and seeks to review indigenous knowledge (IK) of pastoralists in northern Kenya with the view of increasing its awareness, understanding and use both at community and decision makers' levels. The awareness creation is expected to restore confidence of the new generation in IK, as well as promote formulation of policies that recognize IK. All these are expected to attach value to IK as an important resource in conserving biological and cultural diversity and therefore encourage the recognition of principles of intellectual property to ensure the proper protection and use of indigenous traditional knowledge and products derived from it.

Role: Principal Investigator

Project Duration: July, 2016 – April, 2018

ix. Assessing the Total Economic Value of Pastoralism in Isiolo County, Kenya (Completed)

A 3-year collaborative research co-funded by CORDAID and DFID and led by the Institute for Environment and Development (IIED). The objective of the project is to generate scientific evidence and build the capacity of pastoral citizens and their advocates to make the argument that pastoralism is central to the future development of the drylands in Kenya while strengthening the ability of decision-makers to review and reform policy in the light of these arguments. The consortium includes the University of Nairobi through the Department of LARMAT; Adaptation Consortium at the National Drought Management Authority; IIED; Isiolo County government institutions; the Resource Advocacy Programme (RAP); among other local civil society groups and relevant NGOs. The project is supporting four (4) postgraduate research studies registered in the Department of LARMAT.

Role: Principal investigator

Project Duration: April, 2013- August, 2016

x. Grants for Local Adaptation Support to facilitate Peer-to-Peer Learning on Climate Change Adaptation Among Pastoral communities in Kenya

Grants for Local Adaptation Support (ASSAR-GLAS) is a competitive small grant awarded by Global System Change for Analysis Research and Training (START), on behalf of the Collaborative Adaptation Research Initiative in Africa and Asia (CARIAA) and the Adaptation at Scale in Semi-Arid Regions (ASSAR) Project. This grant is in recognition of the need to go beyond academic capacity building within ASSAR to do more to strengthen the capacities of those living and working in the ASSAR study sites. The GLAS is intended to draw from findings of on-going ASSAR research to support the most vulnerable groups in each region on overcoming top barriers to and supporting enablers of their adaptation. The GLAS award for the East African ASSAR research team will be particularly used to facilitate peer-to-peer learning among pastoral communities on various climate change adaptation options, among others, diversification of pastoral herds to embrace more drought tolerant species such as camels in Isiolo County; pasture production and reservation in Kajiado and Makueni Counties; and customary natural resource management in Isiolo County.

Role: Principal Investigator

Project Duration: January – June, 2018

2. PUBLICATIONS

Papers in refereed journals:

- i. Ahmed M. Musa, **Oliver V. Wasonga**, Nadhem Mtimet. **2019**. Factors influencing livestock export in Somaliland's terminal markets. *Pastoralism Research, Policy and Practice* (in press).
- ii. Anthony Egeru, **Oliver Wasonga**, Geoffrey Gabiri, Laban MacOpiyo, John Mburu, and Jackson Gilbert Mwanjalolo Majaliwa. **2019**. Land Cover and Soil Properties Influence on Forage Quantity in a Semi-arid

- Region in East Africa. Applied and Environmental Soil Science Volume 2019, Article ID 6874268, 15 pages. <https://doi.org/10.1155/2019/6874268>
- iii. Alphayo I. Lutta, Lance W. Robinson, **Oliver V. Wasonga**, Eric Ruto, Jason Sircely, and Moses M. Nyangito. **2019**. Economic valuation of grazing management practices: Discrete choice modeling in pastoral systems of Kenya. *Journal of Environmental Planning and Management*, 2019. Vol. 0, No. 0, 1–17, <https://doi.org/10.1080/09640568.2019.1584097>
 - iv. Osaliya. R., **O. V. Wasonga**., J. G. M. Mwanjalolo., G. Kironchi and E. Adipala. **2019**. Land conversion is changing the landscape in the semi-arid Kapir catchment, northeastern Uganda. *African Journal of Rural Development*, Vol. 3(3): July- September 2018: pp... ISSN 2415-2838
 - v. Raphael Lotira Arasio, Brigitte Kaufmann, David Jakinda Otieno, **Oliver Vivian Wasonga**. **2018**. Understanding the emergence and evolution of pastoral community groups from the perspective of community members and external development actors in northern Kenya. *Journal of Agriculture and Rural Development in the Tropics and Subtropics* Vol. 119 No. 2 (2018) 53–66. <https://doi.org/10.17170/kobra-2018121865> ISSN: 2363-6033 (online); 1612-9830 (print) – website: www.iarts.info
 - vi. Bulle Hallo Dabasso, **Oliver Vivian Wasonga**, Patrick Irungu, Brigitte Kaufmann. **2018**. Stratified cattle production in pastoral areas of Kenya: Existing forms, driving factors and management practices. *Applied Animal Husbandry & Rural Development* 2018, Volume 11. http://www.sasas.co.za/sites/sasas.co.za/files/Dabasso_vol%2011_Issue%201_Stratified%20cattle%20production%20in%20pastoral%20areas%20of%20Kenya.pdf.
 - vii. Erick Ouma Omollo, **Oliver Vivian Wasonga**, Mohammed Yazan Elhadi and William Ngoyawu Mnene. **2018**. Determinants of pastoral and agro-pastoral households' participation in fodder production in Makueni and Kajjado Counties, Kenya. *Pastoralism Research, Policy and Practice* 2018:9 <https://doi.org/10.1186/s13570-018-0113-9>
 - viii. Kennedy Sakimba Kimiti, David Western, Judith Syombua Mbau and **Oliver Vivian Wasonga**. **2018**. Impacts of long-term land-use changes on herd size and mobility among pastoral households in Amboseli ecosystem, Kenya. *Ecological Processes* (2018) 7:4 DOI 10.1186/s13717-018-0115-y.
 - ix. Joseph Ssekandi, John Mburu, **Oliver Wasonga**, Laban Macopiyo, Francis Charles. **2017**. Effects of Post Eviction Resettlement on Land-Use and Cover Change in Uganda's Oil Exploration Areas. *Journal of Environmental Protection*, 2017, 8, 1144-1157 <http://www.scirp.org/journal/jep> ISSN Online: 2152-2219 ISSN Print: 2152-2197
 - x. Joseph Ssekandi, John Mburu, **Oliver Wasonga**, Laban Macopiyo, Francis Charles. **2017**. Resilience Enhancing Characteristics of Land Eviction-Displaced Communities in Uganda's Oil Exploration Areas. *Open Journal of Applied Sciences*, 2017, 7, 443-457 <http://www.scirp.org/journal/ojapps> ISSN Online: 2165-3925 ISSN Print: 2165-3917
 - xi. Muhammad Sabiu Suleiman, **Oliver Vivian Wasonga**, Judith Syombua Mbau, Yazan Ahmed Elhadi. **2017**. Non-timber forest products and their contribution to households' income around Falgore Game Reserve in Kano, Nigeria. *Ecological Processes* 6:23 DOI 10.1186/s13717-017-0090-8.
 - xii. Muhammad Sabiu Suleiman, **Oliver Vivian Wasonga**, Judith Syombua Mbau, Yazan Ahmed Elhadi. **2017**. Spatial and temporal analysis of forest cover change in Falgore Game Reserve in Kano, Nigeria. *Ecological Processes* (2017) 6:11. DOI 10.1186/s13717-017-0078-4.
 - xiii. **Oliver Vivian Wasonga**, John Musembi, Kennedy Rotich, Ibrahim Jarso, Caroline King-Okumu. **2016**. Vegetation resources and their economic importance in Isiolo County, Kenya, IIED, London. <http://pubs.iied.org/10141IIED> ISBN: 978-1-78431-247-3.
 - xiv. Lutta Alphayo, **Oliver V. Wasonga**, Wilfred O. Odadi, Robinson K. Ngugi. **2016**. Differences of Soil Properties between Planned and Unplanned Grazing Sites in Semi-Arid Pastoral Rangelands of Northern Kenya. *International Journal Of Innovative Research & Development* Vol. 5 Issue 13. ISSN 2278 – 0211 (Online). www.ijird.com/index.php/ijird/article/view/105906
 - xv. Priscilla K. Lalampaa, **Oliver V. Wasonga**, Daniel I. Rubenstein and Jesse T. Njoka. **2016**. Effects of holistic grazing management on milk production, weight gain, and visitation to grazing areas by livestock and wildlife in Laikipia County, Kenya. *Ecological Processes* (2016) 5:17 DOI 10.1186/s13717-016-0061-5. <https://ecologicalprocesses.springeropen.com/articles/10.1186/s13717-016-0061-5>
 - xvi. Kennedy Sakimba Kimiti, **Oliver Vivian Wasonga**, David Western and Judith Syombua Mbau. **2016**. Community perceptions on spatio-temporal land use changes in the Amboseli ecosystem, southern

- Kenya. *Pastoralism: Research, Policy and Practice* (2016) 6:24 DOI 10.1186/s13570-016-0070-0. link.springer.com/article/10.1186/s13570-016-0070-0
- xvii. Kyuma R. K., Wahome R. G., Kinama J. M. and **V. O. Wasonga**. 2016. Temporal relationship between climate variability, *Prosopis juliflora* invasion and livestock numbers in the drylands of Magadi, Kenya. *African Journal of Environmental Science and Technology*. Vol. 10(4), pp. 129 – 140. DOI: 10.5897/AJEST2015.2034. Article Number: 2AD0D6B58204. ISSN 1996-0786.
- xviii. Klerkson Okomboli Lugusa, **Oliver Vivian Wasonga**, Yazan Ahmed Elhadi and Todd Andrew Crane. 2016. Value chain analysis of grass seeds in the drylands of Baringo County, Kenya: A producers' perspective. *Pastoralism: Research, Policy and Practice* (2016) 6:6.
- xix. Watete Wekondi Patrick, Kogi-Makau Wambui, Njoka Jesse Theuri, MacOpiyo Laban Adero, **Oliver Vivian Wasonga**. 2016. Moving in and out of poverty: A case of the Somali and Turkana of northern Kenya. *Nomadic Peoples*, Volume 20, Number 1, 2016, pp. 123-140(18)
- xx. Francis Opiyo, **Oliver V. Wasonga**, Moses M. Nyangito, Stephen M. Mureithi, Joy Obando and Richard Munang. 2015. Determinants of perceptions of climate change and adaptation among Turkana pastoralists in northwestern Kenya. *Climate and Development*, 2015. <http://dx.doi.org/10.1080/17565529.2015.1034231>.
- xxi. Yazan Ahmed Elhadi, Dickson M Nyariki, **Oliver V Wasonga**. 2015. Role of camel milk in pastoral livelihoods in Kenya: contribution to household diet and income. *Pastoralism: Research, Policy and Practice* (2015) 5:8. DOI 10.1186/s13570-015-0028-7.
- xxii. Egeru, Anthony; **Wasonga, Oliver**; MacOpiyo, Laban; Mburu John; Majaliwa, Mwanjalolo G.J. 2015. African Study Monographs 36(4): 261-296. Abundance and Diversity of Native Forage Species in Pastoral Karamoja Sub-Region, Uganda. <http://dx.doi.org/10.14989/202827>
- xxiii. John Ndung'u Wairore, Stephen Mwangi Mureithi, **Oliver Vivian Wasonga** and Gert Nyberg. 2015. Characterization of enclosure management regimes and factors influencing their choice among agropastoralists in North-Western Kenya *Pastoralism: Research, Policy and Practice* (2015) 5:14 DOI 10.1186/s13570-015-0036-7
- xxiv. Benard Chira Gituku, **Oliver Vivian Wasonga** and Robinson Kinuthia Ngugi. 2015. Economic contribution of the pastoral meat trade in Isiolo Town, Kenya. IIED Country Report. IIED, London. <http://pubs.iied.org/10124IIED> ISBN: 978-1-78431-153-7.
- xxv. John N. Wairore, Stephen M. Mureithi, **Oliver V. Wasonga** and Gert Nyberg. 2015. Enclosing the commons: reasons for the adoption and adaptation of enclosures in the arid and semi-arid rangelands of Chepareria, Kenya. SpringerPlus (2015) 4:595 DOI 10.1186/s40064-015-1390-
- xxvi. Anthony Egeru, **Oliver Wasonga**, Laban MacOpiyo, John Mburu, Elhadi Yazan, Mwanjalolo G.J. Majaliwa and Yazidhi Bamutaze. 2015. Determinants of forage availability: An integration of remote sensing and traditional ecological knowledge in Karamoja Sub-region, Uganda. *Pastoralism: Research, Policy and Practice*. *Pastoralism: Research, Policy and Practice* (2015) 5:19 DOI 10.1186/s13570-015-0037-6
- xxvii. John N. Wairore, Stephen M. Mureithi, **Oliver V. Wasonga**, Gert Nyberg. 2015. Benefits derived from rehabilitating a degraded semi-arid rangeland in private enclosures in west Pokot County, Kenya. *Land Degradation & Development*. DOI: 10.1002/ldr.2420.
- xxviii. Francis Opiyo, **Oliver V. Wasonga**, Moses M. Nyangito, Janpeter Schilling, Richard Munang. 2015. Drought Adaptation and Coping Strategies among the Turkana Pastoralists of Northern Kenya. *International Journal of Disaster Risk Science*. DOI 10.1007/s13753-015-0063-4..
- xxix. Margaret Waithera Mwaura, **Oliver Vivian Wasonga**, Yazan A M Elhadi and Robinson Kinuthia Ngugi. 2015. Economic contribution of the camel milk trade in Isiolo Town, Kenya. IIED Country Report. IIED, London. <http://pubs.iied.org/10123IIED> ISBN: 978-1-78431-152-0.
- xxx. Anthony Egeru, **Oliver Wasonga**, Laban MacOpiyo, John Mburu, John Tabuti, Majaliwa Mwanjalolo. 2015. Piospheric influence on forage species composition & abundance in semi-arid Karamoja sub-region, Uganda. *Pastoralism: Research, Policy and Practice*. 5:12 DOI 10.1186/s13570-015-0032-y.
- xxxi. Pedro A. Segura, Hideshige Takada, José A. Corre, Karim El Saadi, Tatsuya Koike, SiawOnwona-Agyeman, John Ofosu-Anime, Edward Benjamin Sabi, **Oliver V. Wasonga**, Joseph M. Mghalu, Antonio Manuel dos Santos Junior, Brent Newman, Steven Weerts, Viviane Yargeau. 2015. Global occurrence of anti-infectives in contaminated surface waters: Impact of income inequality between countries. *Environmental International*. 80 (2015) 89-97.
- xxxii. Yazan A M Elhadi and **Oliver V. Wasonga**. 2015. Economic and nutritional contribution of camel milk in Northern Kenya: A field study in Isiolo County. IIED Country Report. IIED, London. <http://pubs.iied.org/10125IIED> ISBN: 978-1-78431-154-4.

- xxxiii. Marcelino Napao Iruata, **Oliver V Wasonga** and Robinson Kinuthia Ngugi. **2015**. Economic contribution of the pastoral meat trade in Isiolo County, Kenya: Findings from Oldonyiro and Garbatulla Towns . IIED Country Report. IIED, London. <http://pubs.iied.org/10126IIED> ISBN: 978-1-78431-155-1.
- xxxiv. Fikir Alemayehu, Onwonga Richard, Mwangi James Kinyanjui & **Wasonga Oliver V. 2015**. Assessment of Shoreline Changes in the Period 1969-2010 in Watamu area, Kenya. *Global Journal of Science Frontier Research: H Environment & Earth Science*. Volume 14 Issue 6 Version 1.0 Year 2014. Online ISSN: 2249-4626 & Print ISSN: 0975-5896. https://globaljournals.org/GJSFR_Volume14/3-Assessment-of-Shoreline-Changes.pdf
- xxxv. Michael Elias, Oliver Hensel, Uwe Richter , Christian Hülsebusch, Brigitte Kaufmann and **Oliver Wasonga. 2015**. Land Conversion Dynamics in the Borana Rangelands of Southern Ethiopia: An Integrated Assessment Using Remote Sensing Techniques and Field Survey Data. *Environments* 2015, 2, 1-31; doi:10.3390/environments2010001. ISSN 2076-3298
- xxxvi. Francis Opiyo, Moses Nyangito, **Oliver Vivian Wasonga** and Phillip Omondi, **2014**. Trend Analysis of Rainfall and Temperature Variability in Arid Environment of Turkana, Kenya. *Environmental Research Journal*, 8: 30-43.<http://medwelljournals.com/abstract/?doi=erj.2014.30.43>
- xxxvii. Anthony Egeru, **Oliver Wasonga**, Joseph Kyagulanyi, GJ Mwanjalolo Majaliwa, Laban MacOpiyo and John Mburu. **2014**. Spatio-temporal dynamics of forage and land cover changes in Karamoja sub-region, Uganda. *Pastoralism: Research, Policy and Practice*, 4:6 <http://www.pastoralismjournal.com/content/4/1/6>
- xxxviii. Francis Opiyo, **Oliver V. Wasonga** and Moses Nyangito. **2014**. Measuring household vulnerability to climate-induced stresses in pastoral rangelands of Kenya: Implications for resilience programming. *Pastoralism: Research, Policy and Practice* 2014, 4:10<http://www.pastoralismjournal.com/content/4/1/10>
- xxxix. Egeru Anthony, Osaliya Richard, MacOpiyo Laban, Mburu John, **Wasonga Oliver** Barasa Bernard Said Mohammed, Aleper Daniel and Majaliwa Mwanjalolo Gilbert Jackson. **2014**. Assessing the spatio-temporal climate variability in semi-Arid Karamoja sub-region in north eastern Uganda. *International Journal of Environmental Studies* DOI: [10.1080/00207233.2014.919729](https://doi.org/10.1080/00207233.2014.919729). <http://dx.doi.org/10.1080/00207233.2014.919729>
- xl. Stephen M Mureithi, Ann Verdoodt, Charles KK Gachene, Jesse T Njoka, **Vivian O Wasonga**, Stefaan De Neve, Elizabeth Meyerhoff, Eric Van Ranst. **2014**. Impact of enclosure management on soil properties and microbial biomass in a restored semi-arid rangeland, Kenya. *Journal of Arid Land*, doi: 10.1007/s40333-014-0065-x.
- xli. Opiyo, F.E.O., **Wasonga, V.O.** JanPeter, S. Mureithi, SM. **2013**. Resource-based Conflicts in Drought-prone North-western Kenya: The Drivers and Mitigation Mechanisms. *Wudpecker Journal of Agricultural Research*, 1(11): 442 – 453.
- xlii. Yazan A.M. Elhadi, D.M. Nyariki, **V.O. Wasonga** and W.N. Ekaya. **2012**. Factors Influencing Transient Poverty among Agro-pastoralists Semi-Arid areas of Kenya. *African Crop Science Journal*, Vol. 20, Issue Supplement s1, pp. 113 - 122 ISSN 1021-9730/2012
- xlili. Yazan A.M. Elhadi, D.M. Nyariki, **V.O. Wasonga** and W.N. Ekaya. **2012**. Transient Poverty among Pastoral Households in the Semi-Arid Lowlands of Baringo District, Kenya. *Ozean Journal of Social Sciences* 5(1), 9-19 2012
- xliv. **Wasonga, V.O.**, D.M. Nyariki and R.K. Ngugi. **2011**. Assessing Socio-Ecological Change Dynamics using Local Knowledge in the semi-arid lowlands of Baringo District, Kenya. *Environmental Research Journal*, 5 (1): 11 -17.
- xlv. Mwang'ombe, A.W., W.N. Ekaya, W.M. Muiro, **V.O. Wasonga**, W.N. Mnene, P. Monga're and S.W. Chege. **2011**. Livelihoods under Climate Variability and Change: An analysis of the Adaptive capacity of Rural Poor to water Scarcity in Kenya's Drylands. *Journal of Environmental Science and Technology*, ISSN 1994-7887/DOI: 3923/JEST.2011.
- xlvi. **Wasonga, V.O.**, R.K. Ngugi, D.M. Nyariki, G. Kironchi and T.J. Njoka. **2005**. Effect of *Balanites glabra* canopy cover on grass production, organic matter and soil moisture in a southern Kenya rangeland. *African Journal for Range and Forage Science*, 20 (3): 265–270.
- xlvii. **Wasonga, V.O.**, R.K. Ngugi and A. Kitalyi. **2003**. Traditional Range Condition and Trend Assessment: Lessons from the Pokot and Il Chamus Pastoralists of Kenya *Anthropologist*, 5 (2): 79-87.
- xlviii. **Oliver Vivian Wasonga**, John Musembi, Kennedy Rotich, Ibrahim Jarso, Caroline King-Okumu. **2016**. Vegetation resources and their economic importance in Isiolo County, Kenya, IIED, London. <http://pubs.iied.org/10141IIED> ISBN: 978-1-78431-247-3.

Refereed Papers Published in Workshop Proceedings

- i. **Wasonga, O.V.**, Ngoyawu, W. M. & Elhadi, Y.A.M. **2017**. Fodder production for enhanced pastoral and agro-pastoral resilience in the drylands of Southern Kenya. Fifth RUFORUM Biennial Regional Conference, 17-21 October 2016, Cape Town, South Africa. RUFORUM Working Document Series (ISSN 1607-9345) No. 14 (2): 819 - 825. Available from <http://repository.ruforum.org>
- ii. Omollo, E., **Wasonga, O. V.**, Elhadi, Y. A .M. & Mnene, W. N. **2017**. Grass seed value chain analysis in the Southern Kenya range lands of Makueni and Kajiado counties. Fifth RUFORUM Biennial Regional Conference, 17-21 October 2016, Cape Town, South Africa. RUFORUM Working Document Series (ISSN 1607-9345) No. 14 (2): 645 - 651. Available from <http://repository.ruforum.org>
- iii. Ndung'u, P. L. N., **Wasonga, O.V.**, Mnene, W. N., Koech, O.K. & Elhadi, Y. A. M. **2017**. Community perception of importance, trends, and variations of indigenous grasses in Southern Kenya. Fifth RUFORUM Biennial Regional Conference, 17-21 October 2016, Cape Town, South Africa. RUFORUM Working Document Series (ISSN 1607-9345) No. 14 (2): 807 - 817. Available from <http://repository.ruforum.org>.
- iv. Syano, N.M., **Wasonga, O.V.**, Nyangito, M., Kironchi, G. & Egeru, A. **2017**. Ecological and socio-economic evaluation of dryland agroforestry systems in East Africa. RUFORUM Working Document Series (ISSN 1607-9345) No. 14 (1): 525-535. Available from <http://repository.ruforum.org>
- v. Raphael Arasio, Brigitte Kaufmann, David Otieno, **Oliver Wasonga**. **2017**. Socio-Cultural Foundations and Characteristics of Well-Functioning Pastoral Community Groups in Northern Kenya: The Emic View. Proceedings of Tropentag, 2017 conference "Future Agriculture: Social-ecological transitions and bio-cultural shifts". Held in University of Bonn, Germany in September 20 - 22, 2017. <http://www.tropentag.de/abstract.php?code=R2w7MaEE>
- vi. Bulle Hallo Dabasso, **Oliver Wasonga**, Patrick Irungu, Brigitte Kaufmann. **2017**. Characterizing Stratified Cattle Production as Option for Enhancing Market Outlet for Lean Animals from Pastoral Areas of Kenya. Proceedings of Tropentag, 2017 conference "Future Agriculture: Social-ecological transitions and bio-cultural shifts". Held in University of Bonn, Germany in September 20 - 22, 2017. <http://www.tropentag.de/abstract.php?code=4Yp59ZF6>
- vii. **Oliver Wasonga**. **2015**. Introduction to healthy rangelands. A paper presented at the National stakeholder workshop to validate the report on "Investing in healthy rangelands in a devolved Kenya" held at Boma-Inn Hotel South-C on 28-29 July 2015. Sponsor: IUCN
- viii. **Oliver Wasonga**. **2015**. Using value Chain approach to estimate economic contribution of pastoralism to Isiolo County presented at a Workshop on the profile and dynamics of the natural resource based economy of Isiolo County organized by International Institute for Environment and Development (IIED) and Resource Advocacy Programme (RAP) and County Government of Isiolo on 6th August 2015. Sponsor: IIED
- ix. Yazan A M Elhadi and **Oliver V. Wasonga**. **2015**. Economic and nutritional contribution of camel milk in Northern Kenya: A paper presented at Workshop on the profile and dynamics of the natural resource based economy of Isiolo County organized by International Institute for Environment and Development (IIED) and Resource Advocacy Programme (RAP) and County Government of Isiolo on 6th August 2015. Sponsor: IIED
- x. Michael Elias, Uwe Richte, Oliver Hensel, Christian Hülsebusch, Brigitte Kaufmann and **Oliver Wasonga**. **2013**. Expansion of crop cultivation and the land cover changes in the Borana Rangelands of Southern Ethiopia. **Poster** presented at the Tropentag 2013 Conference at University of Hohenheim, Institute for Plant Production and Agro-ecology of the Tropics and Subtropics, Stuttgart, Germany (17 – 19 September, 2013).
- xi. Mwanaima Rhajab, **Oliver Wasonga**, Christian Hülsebusch, Brigitte Kaufmann. **2013**. Contributions of wild edible plants to diet of pastoral areas of Kajiado County, Kenya. **Poster** presented at the Tropentag 2013 Conference at University of Hohenheim, Institute for Plant Production and Agro-ecology of the Tropics and Subtropics, Stuttgart, Germany (17 – 19 September, 2013).
- xii. Jie Zhang, **Oliver Wasonga**, Christian Hülsebusch, Brigitte Kaufmann. **2013**. Contribution of wild medicinal plants to health care of pastoral livelihoods in Kajiado County, Kenya. **Poster** presented at the Tropentag 2013 Conference at University of Hohenheim, Institute for Plant Production and Agro-ecology of the Tropics and Subtropics, Stuttgart, Germany (17 – 19 September, 2013).

- xiii. **Wasonga V.O.**, Opiyo F.E, Nyangito M., Hueselbusch C. **2012**. “Adapting or Coping? An analysis of Pastoralists’ Responses to Extreme Climatic Events in Northwestern Kenya”. **Poster** presented at the Tropentag 2012 Conference at the University of Gottingen, Germany (18 - 21September, 2012)
- xiv. **Wasonga V.O.**, D.M. Nyariki and Amwata D. **2008**. “Pastoral Vulnerability to Climate Change in Kenya: The Undermined Adaptive Strategies”. Presented at the conference on Environmental concerns of Climate Change with respect to Sustainable Livelihoods in Eastern Africa organized by the Eastern Africa Environmental Network (EAEN), AMREF International Training Centre (24-25 May, 2008)
- xv. **Wasonga V.O.**, Ngugi K. and D.M. Nyariki. **2006**. “Assessing the efficacy of enclosures in ecological restoration of degraded rangelands in northern Kenya”. **Poster** presented at the Sixth Student Conference on Conservation Science organized by British Ecological Society, Centre for Applied Biodiversity Science and Conservation International at the University of Cambridge (15-21 March, 2006)
- xvi. **Wasonga V.O.** **2002**. Traditional Range Condition and Trend Assessment: Lessons from the Pokot and Il Chamus Pastoralists of Kenya. Presented at the workshop on Documentation of indigenous techniques of assessing and monitoring range resource organized by Regional Land Management Unit (RELMA at ICRAF) at Novotel Mout Meru Hotel, Arusha (20-23 February, 2002)

Books and Book Chapters:

- i. Government of Kenya. **2019**. Training Manual for Mainstreaming Climate Risk Management in National and County Planning in Kenya: A Facilitator’s Guide. National Drought Management Authority, Ministry of Devolution and ASALs, Republic of Kenya.
- ii. Government of Kenya. **2016**. A Climate Risk Management Framework for Kenya. Integrating Disaster Risk Reduction and Climate Change Adaptation at National and County Levels. Republic of Kenya, the National Drought Management Authority, Directorate of Special Programmes, and the State Department of Planning.
- iii. **Wasonga, V.O.**, D. Kambewa and N. Ngece. **2010**. Community-Based Natural Resource Management. In: Ochola, W., P. Sanginga and I. Bekelo (Eds.). Managing Natural Resources for Development in Africa: A Resource Book. University of Nairobi Press.[id/bnc.idrc.ca/dspace/bitstream/10625/45873/2/132361.pdf](http://bnc.idrc.ca/dspace/bitstream/10625/45873/2/132361.pdf)
- iv. Nyariki, D.M., **Wasonga, V.O.** and J.K. Mworia. **2010**. Ecological, socio-economic and livelihood differentiation of Kenya’s Lembus forest proximate communities: The case of the Tugen and Lembus. In Bhasin V. and Susanne C. 2010. Anthropology Today: Trends and Scope of Human Ecology. Special Vol. No. 5: 147-156. Kamla-RaJ Enterprises, India.
- v. Nyariki Dickson, **Wasonga Oliver**, Otieno Caleb, Ogadho Eric, Ikutwa Charles, Kithinji Julius. **2009**. The Economic Contribution of Copyright-Based Industries in Kenya. The World Intellectual Property Organization. Geneva, Switzerland.
http://www.wipo.int/export/sites/www/copyright/en/performance/pdf/econ_contribution_cr_ke.pdf
- vi. Nyariki, D. M., P. I.D. Kinyua and **V. O. Wasonga**. **2006**. A Comparative Study of Commercial Consumptive and Non-Consumptive Utilization Options for Wildlife Conservation Strategies in Kenya. International Fund for Animal Welfare (IFAW).
- vii. Nyariki, D.M., A. Kitalyi, **V.O. Wasonga**, I. Issae, E. Kyagaba and M. Lugenja. **2005**. Indigenous Techniques of Assessing and Monitoring Range Resources in East Africa. Occasional Paper No.2. Nairobi: World Agroforestry Centre.
www.worldagroforestry.org/downloads/publications/PDFs/OP13865.PDF

Technical Reports:

- i. King-Okumu, C, **Wasonga, OV**, Jarso, I, and Salah, YMS. **2016**. Direct use values of climate-dependent ecosystem services in Isiolo County. IIED, London.
- ii. Caroline King-Okumu, **Oliver Vivian Wasonga** and Eshetu Yimer. **2015**. Pastoralism pays: new evidence from the Horn of Africa. IIED Briefing. Issue date, October 2015.
<http://pubs.iied.org/17312IIED>.

- iii. **Wasonga V.O. 2011.** Climate risk management and adaptations options for pastoral and agro-pastoral systems in East and Central Africa. Technical Report, International for Livestock Research Institute (ILRI).
- iv. **Wasonga V.O. 2011.** Livestock Husbandry and Rangeland Management: A feasibility study report for the proposed wildlife conservation project in Northern Kenya funded by the French Development Agency (AFD), the French Fund for the Environment (FFEM) and the Government of Kenya, Ministry of Forestry and Wildlife
- v. **Wasonga V.O., F.O. Juma, E. Massawe. 2011.** Helping Pastoralists to Help Themselves. Summary Technical Report on Pastoralists Basket Fund Program (PBFP), CARE International in Tanzania.
- vi. **Wasonga V.O., G. Rukunga, C. Ikutwa. 2010.** Medicinal Plants of Kajiado: Knowledge, Attitude and Practice on exploitation and conservation of medicinal plants in Mashuru and Namanga Divisions of Kajiado District.
- vii. Nyariki, D. M., **V. O. Wasonga** and J. K. Mworia. **2007.** The Lembus forest ecosystem: A socioeconomic baseline survey. Technical report, The world conservation union (IUCN).
- viii. Nyariki, D. M., **V. O. Wasonga** and J. K. Mworia. **2007.** Indigenous knowledge and natural resource management systems of the Lembus forest community. Technical report, The world conservation union (IUCN).

Theses:

- i. **Wasonga V. Oliver. 2001.** Effects of *Balanites glabra* Canopy Cover on Soil Organic Matter, Sopil Moisture and Selected Grass Species Production in Isinya, Kajiado, Kenya. Master's Thesis University of Nairobi.
- ii. **Wasonga V. Oliver. 2009.** Linkages Between Land –Use, Land Degradation and Poverty in Semi-arid Rangelands of Kenya: The Case of Baringo District. PhD Thesis University of Nairobi.

G. TEACHING & INSTRUCTION

1. THESES SUPERVISION

Completed PhD:

- i. **2013 – 2017:** **Joseph Ssekandi.** Effects of land evictions on ecological and livelihood systems in Uganda's drylands: The case of oil-rich Buliisa District
Co-Supervisors: Dr. Laban MacOpiyo and Dr. John Mburu
- ii. **2014 – 2017:** **Muhammad Sabiu Suleiman.** Determinants of the Non-Timber Forest Resources Conservation of the Falgore Game Reserve Kano, Nigeria (PhD student registered at the University of Nairobi)
Co-Supervisors: Dr. Judith Mbau and Prof. Aminu Suleiman
- iii. **2011 – 2016:** **Michael Elias.** Impacts of land conversion on carbon stocks in Borena Rangelands of southern Ethiopia (PhD student registered at University of Kassel, Germany, funded by DAAD-GrassNet project)
Co-Supervisors: Prof. Oliver Henzel, Dr. Christian Huelsebusch, Dr. Uwe Ritche and Brigitte Kaufmann
- iv. **2011-2014: Opiyo, F.Omondi.** Influence of climate variability on vulnerability and adaptation Strategies among Turkana Pastoralists of North-western Kenya (PhD obtained from the University of Nairobi, Department of LARMAT, funded by START international).
Co-Supervisors: Prof. Moses M. Nyangito
- v. **2011 -2014:** **Yazan A.M. Elhadi.** Assessing the potential of camel milk production as an Adaptation to Climatic Variability in the Drylands of Kenya (PhD obtained from the University of Nairobi, Department of LARMAT, funded by RUFORUM).
Co-Supervisors: Prof. Dickson M. Nyariki
- vi. **2012- 2015:** **Richard Kavila Kyuma.** Assessing the potential of *Prosopis juliflora* productivity as alternative animal feed and carbon storage in the climate variability prone drylands of Magadi, Kenya (PhD student registered at the University of Nairobi)
Co-Supervisors: Prof. Raphael Wahome and Dr. Josiah Kinama

- vii. **2012 – 2015:** **Fikir Alemayehu.** Impacts of land use change on shoreline erosion and mangrove dynamics: A case study of Watamu-Mida creek in Kenya (PhD student registered at the University of Nairobi, Department of LARMAT)
Co-Supervisors: Dr. Richard Onwonga and Dr. James Mwangi

Completed MSc:

- i. **2015 – 2018:** **Hannah Naykio Kamau.** Evaluation of Indigenous Grass Species Suitability for Rehabilitation of Degraded Semi-Arid Rangeland in Suswa, Kenya
Co-Supervisors: Dr. Oscar Koech and Dr. Stephen Mureithi
- ii. **2015 – 2017:** **Erick Omollo.** Analysis of Fodder Production and Marketing in the Southern Rangelands of Kenya
Co-Supervisors: Dr. Yazan Elhadi & Dr. William Mnene
- iii. **2013 -2015:** **Maunguja Bakari Ahmed.** Use Value Indices of Threatened Endemic Plants in Arabuko Sokoke Forest Kilifi County, Kenya (MSc. student registered at the University of Nairobi)
Co-Supervisors: Dr. Meckizedeck Osore
- iv. **2013 – 2015:** **Kimili K. Sakimba.** Longitudinal changes in Amboseli ecosystem: An integrated analysis using remote sensing techniques and local perceptions (MSc. student registered at the University of Nairobi)
Co-Supervisors: Dr. David Western
- v. **2014 – 2017:** **Priscilla Lalampa.** Bunched Grazing in Rangelands in Laikipia: Impacts on Animal Use and Productivity
Co-Supervisors: Prof. Jesse T. Njoka and Prof. Daniel Rubenstein
- vi. **2014 -2015:** **John N. Waireore.** Impact of Management Regimes on Enclosure Rehabilitation in Chepareria, West Pokot County, Kenya (MSc. student registered at the University of Nairobi)
Co-Supervisors: Dr. Stephen Mureithi and Prof. G. Nyberg
- vii. **2014-2015: Lutta Alphayo.** Assessing Carbon Stocks and Herbage Productivity and Diversity Under Different Grazing Regimes in Semi-Arid Rangelands of Northern Kenya (MSc. student registered at the University of Nairobi)
Co-Supervisors: Prof. Kinuthia Ngugi and Dr. Wilfred Odadi
- viii. **2013 -2015:** **Okomboli Klerkson Lugusa.** Assessing the existing fodder value chain as a complementary source of pastoral livelihood in Tana River County (MSc. student registered at the University of Nairobi)
Co-Supervisors: Prof. Todd Crane and Dr. Yazan Elhadi
- ix. **2011-2013: Henry Komu Mwaka.** Pastoral community learning on natural resource conservation and governance: A case of Il Ngwesi conservancy in Laikipia County, Kenya MSc obtained from the University of Nairobi, funded by UoN).
Co-Supervisors: Prof. Jesse T. Njoka
- x. **2011-2013: Mwanaima Rhajab.** Utilization and conservation status of wild edible plants in pastoral areas of Kajiado County, Kenya (MSc obtained from University of Kassel, Germany, funded by DAAD-GrassNet project).
Co-Supervisors: Prof. Brigitte Kaufmann
- xi. **2011 -2013:** **Jie Zhang.** Assessing socio-economic potential of wild medicinal plants and their threats as a basis for their conservation for enhanced pastoral livelihoods in Kajiado County, Kenya (MSc obtained from University of Kassel, Germany, funded by DAAD-GrassNet project).
Co-Supervisors: Prof. Brigitte Kaufmann
- xii. **2010 – 2011:** **Ning Huang.** Impacts of grazing on belowground net primary productivity in Songnen Plain, China (MSc obtained from University of Kassel, Germany, funded by DAAD-GrassNet project).
Co-Supervisors: Prof. Brigitte Kaufmann

- xiii. **2008 -2010:Yazan A.M. Elhadi.** Links between seasonal climatic variability and poverty: A case study of pastoral and agro-pastoral communities in Baringo District, Kenya (MSc obtained from the University of Nairobi, funded by RUFORUM).
Co-Supervisors: Prof. Dickson M. Nyariki

On-going PhD:

- i. **2017 – 2020: Kisambo, Bosco Kidake.** Effects of grazing management and drought stress on productivity of *Cenchrus ciliaris* and *D. macroblephara* ecotypes and soil carbon in South Eastern Kenya
Co-Supervisors: Dr. Oscar Koech
- ii. **2017 – 2020: Geoffrey Lenyayon Lelenguyah.** Impacts of Climate variability and Herd Mobility on livestock disease control in Samburu Rangelands, Kenya
Co-Supervisors: Prof. Moses Nyangito
- iii. **2017 – 2020: Olila Dennis Opiyo.** Economic Analysis of the effect of climate Variability and Urbanization on Households' Livelihood Resilience in drylands of Machakos County, Kenya
Co-Supervisors: Dr. David Jakinda
- iv. **2017 – 2020: Haileelassie Ghebremariam Araya.** Analysis of the ecological and socioeconomic impacts of range exclosures in Tanqua Abergelle Woreda, Tigray province, Ethiopia
Co-Supervisors: Prof. Geoffrey Kironchi
- v. **2016 – 2019: Lutta Alphayo.** Valuation of the Impacts of Rangeland Management Practices in Pastoral Systems
Co-Supervisors: Prof. Lance Robinson & Prof. Moses Nyangito
- vi. **2016 – 2019: Ng'asike Philemon Ong'ao.** Analysis of Governance in Cross-Border Livestock Trade Flows between Kenya and Somalia
Co-Supervisors: Prof. Jesse Njoka, Dr. Paul Githiga and Prof. Tobias Hagmann
- vii. **2016 – 2019: Ahmed Mohamed Musa.** Analysis of the Effects of Institutional, Environmental and Governance Changes on Livestock Trade in Berbera Corridor of Somaliland
Co-Supervisors: Dr. Oscar Koech, Prof. Tobias Hagmann and Prof. Nathem Mtimet
- viii. **2014- 2017: Bulle Dabasso.** Contribution of stratified livestock production and marketing system in reduction of losses in the pastoral livestock value chain in Kenya (PhD student registered at the University of Nairobi)
Co-Supervisors: Prof. Brigitte Kaufmann and Dr. Patrick Irungu
- ix. **2014- 2017: Raphael Lotira.** Assessing the potential of pastoral livestock marketing groups to reduce losses in the pastoral livestock value chain in Kenya (PhD student registered at the University of Nairobi)
Co-Supervisors: Prof. Brigitte Kaufmann and Dr. David Jakinda
- x. **2012- 2015: Nicholas M. Syano.** Ecological and Socioeconomic Evaluation of Dryland Agroforestry Systems for Adoption in Eastern Kenya (PhD student registered at the University of Nairobi)
Co-Supervisors: Prof. Moses M. Nyangito
- xi. **2012- 2015:Richard Osaliya.** Impact of Land Use and Climate Change on Surface Water Resources in a Semi-Arid Environment: The Case of L'Okok Catchment – Uganda (PhD student registered at the University of Nairobi)
Co-Supervisors: Dr. Laban MacOpiyo, Prof. Majaliwa Mwanjololo and Dr. Daniel Aleper

On-going MSc:

- i. **2017 – 2019: Samuel Enock Wekesa.** Analysis of Land Use and Land Cover Change and Perceptions of the Community on Permaculture in Rusinga Island, Homa Bay County
Co-Supervisors: Dr. Stephen Mureithi
- ii. **2017 – 2019: Wako Maliti Yusuf.** Analysis of Shifts in Livelihoods among the Pastoral

Households in Urban and Peri-Urban Areas of Isiolo Town, Northern Kenya

Co-Supervisors: Dr. Oscar Koech

- iii. **2017 – 2019: Nyaga Margeret Ngithi.** Assessment of Woody Species Diversity in Rusinga Island, Homa Bay County, Kenya

Co-Supervisors: Dr. Stephen Mureithi

- iv. **2015 – 2017: Patricia Luiza Ndungu.** Evaluation of Biomass Yield and Nutritional Quality of Selected Ecotypes of Indigenous Grass Species in Semi-Arid Makueni County, Kenya

Co-Supervisors: Dr. William Mnene; Dr. Oscar Koech; & Dr. Yazan Elhadi

- v. **2016 – 2018: Sharon Teyie.** Analysis of Charcoal Value Chain in the Drylands of Central Pokot Sub County Kenya

Co-Supervisors: Co-Supervisors: Dr. Oscar Koech and Dr. John Busienei

- vi. **2016 – 2018: Fredrick Otieno Ochieng.** Effects of Charcoal Production on Vegetation and Soil Properties in Central Pokot Sub-County, Kenya

Co-Supervisor: Prof. Geoffrey Kironchi

- vii. **2014 – 2017: Piranto Ole Mosiany.** Extent of *Optuntia* species invasion and its impacts of on forage production in the drylands of Laikipia County

Co-Supervisors: Prof. Jesse T. Njoka and Dr. Judith Mbau

- viii. **2013 – 2016: Caroline Genga.** Assessing Factors Contributing to Indigenous Ecological Knowledge (IEK) Loss and Implications to Adaptive Capacity of Samburu Pastoral System

Co-Supervisor: Prof. Moses Nyangito

H. RECENTLY EXAMINED THESES

- i. **Justin Okwir. 2019.** „Coping and Adaptation Strategies to Climate Change Drought Effects by Agro-Pastoralist and Smallholder Farmers in Kaabong District, Uganda”(MSc candidate Registered at the University of Nairobi, Institute for Climate Change and Adaptation (ICCA)).
- ii. **Peter Musyoka Kithuka. 2019.** “Impacts of Livestock Diseases on Incomes/Livelihoods in Kyuso Sub-County of Kitui County”. (MSc. Student Registered at South Eastern Kenya University).
- iii. **Mary Wanjiru Warui. 2018.** Analysis of conditions for potential geographical indication labelling of Kenya honeys: Quality traits, pollination service and actors’ initiatives (PhD candidate Registered at the University of Nairobi)
- iv. **Ambrose Buyinza Wabwire. 2018.** “Seasonal Variability of Herbage Biomass Resources for Grazers in Karamoja Sub-region” (MSc. Candidate Registered at Makerere University)
- v. **Mwasi Gladwell Mwemba. 2018.** “The Contribution of Livestock to the Livelihoods of Urban and Peri-Urban Residents in Nairobi County” (MSc candidate Registered at the University of Nairobi)
- vi. **Sarah Akello. 2017.**“Restoration of Degraded Watershed: The Case of Awoja, Eastern Uganda“ (PhD. Candidate Registered at Makerere University)
- vii. **Daniel Onyango Ouma. 2017.** Socio-Economic Analysis of Factors Influencing Pastoral Livelihoods and Food Security Among Turkana Pastoralists of Northern Kenya (MSc candidate Registered at the University of Nairobi)
- viii. **Damalie Akwango. 2017.**“Determinants of an Effective Drought Early Warning System in Semi-Arid Areas of Uganda” (PhD. Candidate Registered at Makerere University)
- ix. **Ayodotun Oluwafemi Bobadoye. 2016.** “Vulnerability Assessment of Maasai Pastoralists Under Changing Climatic Condition and their Adaptation Strategies in Kajjado” (PhD candidate Registered at the University of Nairobi, Institute for Climate Change and Adaptation (ICCA))
- x. **Betty Mbolanyi. 2016.** “The Potential of Rangelands for Improving Household Food Security in a Cattle Corridor Area in Uganda” (MSc. Candidate Registered at Makerere University)
- xi. **Mutavi Silvester Kyalo’s. 2016.** “Determinants of Adoption of Forage Technologies among Peri-Urban Dairy Farmers in the Semi-Arid Region of South Eastern Kenya” (MSc. Student Registered at South Eastern Kenya University)
- xii. **Carolyn Karwitha Kanyuru. 2015.** “Dynamism, Value of Ecosystem Services and Adaptation to Socio-Economic and Ecological Challenges of Pastoralists’ Institutional Arrangements in Northern Rangelands of Kenya” (PhD candidate Registered at the University of Nairobi)
- xiii. **Patrick Mwambi Mwanjumba. 2014.** “Trade, Herd Dynamics, Utilization and Value Addition of Indigenous Livestock of Northern Kenya” (PhD candidate Registered at the University of Nairobi)

- xiv. **Oscar Kipchirchir Koech. 2014.** “Comparative Growth and Interspecific Competition Responses of Six Range Grasses to Varying Soil Moisture Content in Kenyan Rangelands” (PhD candidate Registered at the University of Nairobi).

I. PROFESSIONAL ACTIVITIES

1. COLLABORATIVE RESEARCH AND CONSULTANCIES

- 2019 (January - May):** Development of Regional Strategy for Rangeland Management in Arid and Semi-Arid Lands in IGAD Region
Client: IGAD/ICPALD
Role: Lead Consultant, Rangeland Management
- 2018 (February –March):** Development of Climate Risk Management Mainstreaming Training Manual for Kenya
Client: NDMA/UNDP
Role: Climate Change Adaptation Lead
- 2017 (October – November):** Community Resilience in Kerio River Ecosystem (CORKE) Project in Elgeyo-Marakwet, West Pokot and Baringo Counties, Kenya
Client: NCKK
Role: Range Management and Resilience Specialist
- 2017 (March – May, 2017):** Review the IGAD/ICPAC Climate Risk and Food Security Atlas
Client: IGAD/ICPAC
Role: Reviewer
- 2016 (September –December):** Baseline study to support the GEF-funded project “Building Resilience for food security and nutrition in Chad’s rural communities”
Client: CAMCO Advisory Services/African Development Bank
Role: Lead consultant on Agro-Silvo-Pastoral Production Systems in the Drylands
- 2016 (June 5 – August 30):** Formulation of Framework for Integrated Climate Risk Management in Kenya
Client: National Drought Management Authority (NDMA/UNDP)
Role: Lead consultant on Disaster Risk Reduction and Climate Change Adaptation
- 2016 (May 30 – June 16):** Review of the draft national wildlife and climate change strategy for Kenya.
Client: African Wildlife Foundation (AWF) & Kenya Wildlife Service (KWS)
Role: Lead consultant on Rangeland Management
- 2015, November -2016, June:** Technical Evaluation of Drought Mitigation Related Technologies Under Cash/Food for Assets Programme implemented in the Arid and Semi-Arid Lands of Kenya by World Food Programme in partnership with FAO
Client: United Nations World Food Programme and FAO
Role: Lead consultant on Range Management
- 2015 (May 5 -27):** Lake Victoria Environmental Management Programme (LVEMP II) Watershed Management and Improved Livelihoods Technical Support Mission in Kenya, Uganda and Tanzania.
Client: The World Bank and FAO
Role: Lead consultant on Range Management
- 2015 (Feb. – March):** End of project Evaluation of the Natural Resource Management Facility (Changieni Rasilimali Facility) at Act Change Transform (ACT!)
Client: Swedish International Development Cooperation Agency
Role: Lead consultant on Natural Resource Management and Livelihoods
- 2014 (Nov.) – 2015 (March):** Development of Guidelines and Framework for Drought Resilience Analysis, and Capacity Building of Stakeholders under the framework of the IGAD Drought Disaster Resilience and Sustainability Initiative (IDDRSI), Kenya Country Programming Paper (Drought Risk Management and Ending Drought Emergencies Medium Term Plan for 2013-17.

- Client:** Dryland Development Centre, UNDP
Role: Lead consultant on Dryland resilience
- November, 2014 –February, 2015:** Assessing Vulnerability of Communities and Livelihood Systems in Turkana and Marsabit Counties
Client: GIZ
Role: Co-consultant on Pastoralist Livelihoods in Collaboration with German Institute for Tropical and Subtropical Agriculture (DITSL), Witzenhausen, Germany
- 2014 (March – Aug):** Design and Development of Pastoralist Resilience Partnership (PReP) Project Proposal under DFID’s Component B of BRACED Programme. The project focuses on Resilience Building and Adaptation to Climate Extremes and Disasters in the context of Kenya and Uganda’s Karamoja Cluster.
Client: PReP consortium comprising Action Against Hunger (ACF) in Kenya and Uganda, Danish Refugee Council (DRC) and Danish Demining Group (DDG) in Kenya and Uganda
Role: Lead consultant on Dryland Ecosystems and Pastoral Livelihoods
- 2011 (June – August):** End-term Evaluation of the Pastoralist Basket Fund programme in Tanzania
Client: CARE international
Role: Principal researcher
- 2010 (Oct. – Nov.):** Environmental Audit of AMREF’s Pastoral Projects in Kenya
Client: AMREF Kenya
Role: Lead expert
- 2010 (July – Aug.):** Mid-term Evaluation of the Pastoralist Basket Fund programme in Tanzania
Client: CARE International-Tanzania
Role: Principal researcher
- 2010 – 2011:** “Climate risk management and adaptations options for pastoral and agro-pastoral systems in East and Central Africa. The study was jointly undertaken by ICRISAT and ILRI and funded by ASARECA.
Client: ILRI
Role: Co-investigator
- 2009 - 2011:** “Strengthening the adaptive capacity of rural poor to water scarcity in Kenya’s rangelands”.
Client: A pilot study for Advancing Capacity to Support Climate Change Adaptation (ACCCA) project funded by UNITAR and START.
Role: Co-investigator
- 2010: (Aug. 15 - 28):** “Medicinal plants of Kajiado District: An assessment of species and therapeutic claims of the Maasai community in Kajiado”
Client: AMREF Kenya
Role: Lead expert
- 2008 – 2010:** “Links between Seasonal Climatic Variability and Poverty: A case Study of Pastoral and Agro-pastoral Communities in Baringo District, Kenya”.
Client: RUFORUM funded project
Role: Co-investigator:
- 2011 (Jan. –April):** Feasibility Study and designing of Livestock and Range Management component of Wildlife Conservation Project in Northern Kenya
Client: Ministry of Forestry and Wildlife/French Development Agency
Role: Lead expert for Livestock and Rangeland Management
- 2010 (Jan – April):** Training of Trainers on Pastoralism Dynamics and Policy Options (PPO) in Eastern Africa
Client: IIED/KIMMAGE-UK/MS-Training Centre for Development Cooperation (MS-TCDC), Arusha, Tanzania. The TOT training was funded by CORDAID
Role: Facilitator - Pillar one of the course, which entails dynamics of dryland natural resources and their determinants.
- 2010: (Aug. 15 - 28):** “Medicinal plants of Kajiado District: An assessment of species and therapeutic claims of the Maasai community in Kajiado”

- Client:** AMREF Kenya
Role: Lead expert
- 2007 – 2010:** Facilitation of a course on Pastoralism Dynamics and Policy Options in Eastern Africa
Client: MS-TCDC, Arusha, Tanzania.
Role: Course facilitator - pillar one of the course, which entails dynamics of dryland natural resources and their determinants
- 2006: (Sept. – Oct.):** “A Comparative Study of Commercial Consumptive and Non-Consumptive Utilization Options for Wildlife Conservation Strategies in Kenya”.
Client: The International Fund for Animal Welfare (IFAW)
Role: Lead expert
- 2006 – 2007:** Ecological and socio-economic assessment of the use and management of the Lembus Forest.
Client: World Conservation Union (IUCN) through the Lembus Forests Integrated Conservation and Development Project (ICDP)
Role: Co-investigator
- 2001 – 2002:** “Indigenous Techniques of Assessing and Monitoring Range Resources in East Africa”.
Client: Regional Land Management Unit (RELMA at World Agroforestry Centre)
Role: Co-investigator

2. INVITED REVIEW OF BOOKS, SCIENTIFIC JOURNALS & GRANT PROPOSALS

Books and Book Chapters

- i. **2017:** Climate Risk and Food Security Atlas for the Horn of Africa. **2017.** IGAD/ICPAC
- ii. **2014:** United Nations Development Programme (UNDP). **2014.** Understanding Community Resilience: Findings from Community-Based Resilience Analysis (CoBRA) Assessments: Marsabit, Turkana and Kajiado counties, Kenya and Karamoja sub-region, Uganda. United Nations Development Programme, Drylands Development Centre. Nairobi.
http://www.disasterriskreduction.net/fileadmin/user_upload/drought/docs/CoBRA%20Assessments%20Report.pdf
- iii. **2019:** Chapter in: “Co-producing knowledge on food systems for development in Africa”. 2019. Africa Climate Change Adaptation Initiative (ACCAI).
- iv. **2019:** Chapter in: “Agriculture and Ecosystem Resilience in Sub Saharan Africa: Livelihood Pathways Under Changing Climate”. 2019. Springer Publishers

Journal Articles and Conference Abstracts

- i. **2019:** Abstracts for: International Grassland and Rangeland 2020 Congress
- ii. **2019:** Concept notes for: Kenya Climate Smart Agriculture Proposals
- iii. **2019:** Abstracts for: Agro2019 Conference
- iv. **2018:** Articles in: International Journal of Social Economics
- v. **2016-2019:** Articles in: Journal of Arid Environments (JAE), Elsevier
- vi. **2015-2019:** Articles in: Land Degradation and Development Journal (LDD), John Wiley & Sons Journal.
- vii. **2014-2019:** Articles in: International Journal of Disaster Risk Reduction (IJDRR), Elsevier
- viii. **2017:** Articles in: African Journal of Rural Development (AJRD), RUFORUM

3. TEACHING

i. **Postgraduate Courses**

- ADR 703: Dryland Livelihoods (45 hours)
- ADR 719: Environmental and Social Impact Assessment (45 hours)
- AGF 602: Agroforestry Biodiversity and Utilization (45 hours)
- AGF 604: Dryland Agroforestry (45 hours)
- ARM 503: Range Management in Pastoral Societies (45 hours)

- ARM 506: Desertification and Rangeland Rehabilitation (45 hours)
 - ARM 510/ALM 606: Range Project Planning & Implementation/Environmental Project Planning & Implementation (45 hours)
- ii. **Undergraduate Courses**
- ARM 102/AEM 102: Range Ecology I/Agro-ecology I (45 hours)
 - ARM 202/AEM 203: Range Ecology II/Agro-Ecology II (45 hours)
 - ARM 305: Methods of Rangeland Analysis (45 hours)
 - ARM/AEM 408: Environmental and Social Impact Assessment (45 hours)

J. ADMINISTRATION & OTHER RESPONSIBILITIES

- Head, Range Management Section
- National Values Champion, College of Agriculture and Veterinary Sciences
- Acting Chairman, Department of LARMAT (several occasions)
- Chairman, Timetabling Committee, Faculty of Agriculture
- Member, Postgraduate Studies Committee, Faculty of Agriculture

K. COMMUNITY ENGAGEMENT & OTHER CONTRIBUTIONS

- i. Member of Board of Management, Raruowa Kadera Secondary School

L. WORKSHOPS & CONFERENCES ATTENDED

- August 5 -6, 2019:** Validation of Regional Rangeland Management Strategic Framework for IGAD Region held on 5 -6th August, 2019 at Bamburi Beach Hotel, Mombasa.
- February 25 – March 02, 2019:** National Stakeholders Consultation Workshop on Rangeland and Pastoralism Strategy held at Bomen Hotel, Isiolo town
Sponsor: IGAD Center for Pastoral Areas and Livestock Development (ICPALD), Regional Pastoral Livelihoods Resilience Project
- December 3 – 5, 2018:** GlobE Pan-African Conference held at Sawela Lodges in Naivasha
Sponsor: German Ministry for Education and Research (BMBF) and the German Ministry for Economic Cooperation and Development (BMZ).
- November 28, 2018:** Workshop on “Securing rangelands through development and strengthening of Rangelands policy and institutions” in Africa held in Nairobi, and organized by Resource Conflict Institute (RECONCILE), International Land Alliance through Rangelands Initiative in collaboration with Swiss Development Corporation.
Sponsor: Resource Conflict Institute (RECONCILE).
- July 12th – 17th, 2018:** Adaptation at Scale in Semi-Arid Regions (ASSAR) Annual Workshop at Franschoek Hotel & Spa, Cape Town Between June 12th & 17th, 2018
- September 20th – 22, 2017:** The Tropentag 2017: International Conference on Research on Food Security, Natural Resource Management and Rural Development: Future Agriculture: Socio-Ecological Transitions and Bio-cultural shifts at University of Bonn, Germany.
Sponsor: The German Academic Exchange Service (DAAD), GrassNet Programme. (www.tropentag.de).
- September 18- 19, 2017:** Annual workshop for the “Reduction of Post-Harvest Losses and Value Addition in East African Food Value Chains” (RELOAD) project at University of Kassel, Witzenhausen, Germany. **Sponsor:** The German Federal Ministry of Education and Research (BMBF).
- April 9 - 12, 2017:** Stakeholders Training Workshop on Cattle Fattening as a Way of Adding Value to Lean Animals from the Drylands of Kenya Held at ACK Guest House in Kajiado.
Sponsor: The German Federal Ministry of Education and Research (BMBF).
- February 14, 2017:** ASSAR National Stakeholders Workshops held at Heron Portico Hotel, Nairobi, Kenya.
Sponsor: DFID.

- February 21, 2017:** ASSAR Local Stakeholders Workshops held at Moti Pearl Hotel in Isiolo, Kenya. **Sponsor:** DFID.
- November 10- 15, 2016:** Annual workshop for the “Reduction of Post-Harvest Losses and Value Addition in East African Food Value Chains” (RELOAD) project at Mukono, Uganda. **Sponsor:** The German Federal Ministry of Education and Research (BMBF).
- October 14- 22, 2016:** Fifth RUFORUM Biennial Conference African Higher Education Week and RUFORUM Biennial Conference held between 14th and 22nd October, 2016 at the Century City in Cape Town, South Africa. **Sponsor:** The Regional Capacity Building in Agriculture (RUFORUM)
- Aug. 11th – 12th, 2015:** First Annual Rangelands Congress 2015 held between 11th and 12th of August 2015 at the KCB Leadership Center Karen, Nairobi, Kenya. **Sponsor:** Rangelands Association of Kenya, African conservation Centre, International Livestock Research Institute and University of Nairobi Center for Sustainable Drylands Ecosystems and Societies.
- July 28th – 29th, 2015:** National stakeholder workshop to validate the report on "Investing in healthy rangelands in a devolved Kenya" held at Boma-Inn Hotel South-C on 28-29 July 2015. **Sponsor:** IUCN
- February 10th, 2015:** Stakeholders Meeting on “Geospatial Mapping of Rangelands” held at the International Union for Conservation (IUCN) Nairobi office on Tuesday 10th February, 2015. **Sponsor:** IUCN.
- Aug. 24th – 25th, 2015:** The Intervention Strategy Workshop (ISW)/Collaborative Resilience Innovation (CRID) Workshop on Internal Displacement in Somalia, 24 – 28 August 2015 held at Crowne Plaza, Nairobi, Kenya. **Sponsor:** Resilience Africa Network (RAN) at Makerere University in Uganda and Horn of Africa Resilience Innovation Lab (RILAB).
- August 6th, 2015:** Workshop on the profile and dynamics of the natural resource based economy of Isiolo County organized by International Institute for Environment and Development (IIED) and Resource Advocacy Programme (RAP) and County Government of Isiolo on 6th August 2015. **Sponsor:** IIED
- Dec. 10th – 11th, 2014:** Consultative Workshop: Learning Needs Assessment to Support Capacity Development for Resilience Analysis and Policy Processes in the Context of Food Security-Organized by Intergovernmental Authority for Development (IGAD). **Sponsor:** United Nations Development Program, Global Policy Centre
- Sept. 21st – Oct. 4th, 2014:** Annual workshop for the “Reduction of Post-Harvest Losses and Value Addition in East African Food Value Chains” (RELOAD) project at University of Kassel, Witzenhausen, Germany. **Sponsor:** The German Federal Ministry of Education and Research (BMBF).
- July 17th, 2014:** Launching Workshop for the IGAD funded “Enhancing resilience of livestock-based livelihoods in Northern Kenya” project at the Desmond Tutu Conference Center, AACC Westlands.
- October 06th – 11th, 2013:** Launching workshop for RELOAD: Reduction of Post-Harvest Losses and Value Addition in East African Food Value Chains at Jimma University in Ethiopia. **Sponsor:** The German Federal Ministry of Education and Research (BMBF).
- September 17th – 19, 2013:** The Tropentag 2013: International workshop on agricultural development and the urban-rural continuum at University of Hohenheim, Institute for Plant Production and Agro-ecology of the Tropics and Subtropics, Stuttgart, Germany. **Sponsor:** The German Academic Exchange Service (DAAD), GrassNet Programme. (www.tropentag.de).
- February 13th – 15th, 2013:** The 4th Africa Regional Platform for Disaster Risk Reduction: “Reducing Drought Risk In Africa – Measuring Impact, strategizing for the Future” at Ngurdoto Lodge, Arusha, Tanzania (www.unisdr.org/we/inform/events/30143). **Sponsor:** UNDP Dryland

- Development Centre, United Nations Office for Disaster Risk Reduction and Humanitarian Aid and Civil Protection
- February 11th – 12th, 2013:** The 5th Africa Drought Adaptation Forum at Ngurdoto Lodge, Arusha, Tanzania (www.unisdr.org/files/30143_annex9resultsofthe5thadaf.pdf). **Sponsor:** UNDP Dryland Development Centre, United Nations Office for Disaster Risk Reduction and Humanitarian Aid and Civil Protection
- February 8th – 9th, 2013:** Mobility, hybridity and the way to co-existence: Restructuring of daily life in rural and urban African societies at the Japan Society for the promotion of science (JSPS), Nairobi research station
Sponsor: The JSPS, Nairobi
- February 29 - March 1st, 2013:** Training workshop on the Total Economic Valuation Methodology for Pastoralism at Solote Hotel, Addis Ababa, Ethiopia: **Sponsor:** IIED/DFID
- December 4th – 5th, 2012:** Holistic Natural Resource Management Training Workshop in Laikipia, Kenya. **Sponsor:** The United Nations Food and Agriculture Organization (FAO)
- November 30th, 2012:** Environmental Impact Assessment/Environmental Audit Training Institutions Workshop at Kenyatta International Conference Centre, Nairobi. **Sponsor:** The National Environment Management Authority (NEMA)
- September 18th – 21st, 2012:** The Tropentag 2012: International workshop on food security, natural resource management and rural development at Gottingen University, Germany (www.tropentag.de). **Sponsor:** The German Academic Exchange Service (DAAD), GrassNet Programme
- October 5th – 7th, 2011:** The Tropentag 2011: International workshop on “development on the Margin” at University of Bonn, Germany (www.tropentag.de). **Sponsor:** The German Academic Exchange Service (DAAD), GrassNet Programme
- June 27th – July 1st, 2010:** Forum on Education, Capacity Building and Climate Change at the White Sands Hotel, Dar es Salaam, Tanzania. **Sponsor:** The Global Change System for Analysis, Research and Training (START).
start.org/download/2013/forum-strategy.pdf (start.org/download/2010/forum-participants-6.24.10.pdf)
- December 7th – 18th, 2009:** The 15th United Nations Framework Convention on Climate Change (UNFCCC) Conference of Parties (COP 15) at The Bella Conference Centre, Copenhagen, Denmark. **Sponsor:** The Open Society Institute (OSI) through International Institute for Environment and Development (IIED)
- May 22nd – 23rd, 2009:** Conference on Energy, Gender and Environment at the AMREF International Training Centre, Nairobi, Kenya. **Sponsor:** Eastern Africa Environmental Network (EAEN)
- June 12th – 13th, 2008:** Scoping Workshop on Climate Change and Policy Making in Agriculture and Natural Resource Management in East Africa, Nairobi Safari Club. **Sponsor:** Wageningen University and Research Centre; ASARECA and IUCN
- May 23rd – 24th, 2008:** Environmental concerns of Climate Change with respect to Sustainable Livelihoods in Eastern Africa at the AMREF International Training Centre, Nairobi, Kenya. **Sponsor:** Eastern Africa Environmental Network (EAEN)

M. SELECTED PRESENTATIONS IN WORKSHOPS & CONFERENCES

- i. **Oliver Wasonga. 2019.** Regional Rangeland Management Strategic Framework for IGAD Region: Challenges, Opportunities and Suggested Interventions. Validation Workshop for Regional Rangeland Management Strategy held on 5 -6th August, 2019 at Bamburi Beach Hotel, Mombasa.
- ii. **Oliver Wasonga. 2019.** Regional Rangeland Management Strategy: Challenges and Suggested Interventions in IGAD Region. National Stakeholders Consultation Workshop on Rangeland and Pastoralism Strategy held at Bomen Hotel, Isiolo town.
- iii. Michael Elias, Uwe Richter, Christian Hülsebusch, **Oliver Wasonga**, Richard Y. M. Kangalawe. **2017.** Examining Land Use and Cover Change Along the Great Ruaha River Catchments in Southern Tanzania

- with Remote Sensing and GIS Techniques: 1986 – 2015. Proceedings of Tropentag Conference, 2017. <http://www.tropentag.de/2017/proceedings/proceedings.pdf>
- iv. Bulle Hallo Dabasso, **Oliver Wasonga**, Patrick Irungu, Brigitte Kaufmann. **2017**. Characterizing Stratified Cattle Production as Option for Enhancing Market Outlet for Lean Animals from Pastoral Areas of Kenya. Proceedings of Tropentag Conference, 2017. <http://www.tropentag.de/2017/proceedings/proceedings.pdf>
 - v. Patricia Ndung'u, **Oliver Wasonga**, William Mnene, Yazan Elhadi, Oscar Koech. **2017**. Indigenous Knowledge on Uses, Availability Trends and Variations of Indigenous Grass Species in Southern Kenya. Proceedings of Tropentag Conference, 2017. <http://www.tropentag.de/2017/proceedings/proceedings.pdf>
 - vi. Raphael Arasio, Brigitte Kaufmann, David Otieno, **Oliver Wasonga**: Socio-Cultural Foundations and Characteristics of Well-Functioning Pastoral Community Groups in Northern Kenya: The Eemic View. Proceedings of Tropentag Conference, **2017**. <http://www.tropentag.de/2017/proceedings/proceedings.pdf>
 - vii. **Oliver Wasonga**. **2015**. Introduction to healthy rangelands. A paper presented at the National stakeholder workshop to validate the report on "Investing in healthy rangelands in a devolved Kenya" held at Boma-Inn Hotel South-C on 28-29 July 2015. Sponsor: IUCN
 - viii. **Oliver Wasonga**. **2015**. Using value Chain approach to estimate economic contribution of pastoralism to Isiolo County presented at a Workshop on the profile and dynamics of the natural resource based economy of Isiolo County organized by International Institute for Environment and Development (IIED) and Resource Advocacy Programme (RAP) and County Government of Isiolo on 6th August 2015. Sponsor: IIED
 - ix. Yazan A M Elhadi and **Oliver V. Wasonga**. **2015**. Economic and nutritional contribution of camel milk in Northern Kenya: A paper presented at Workshop on the profile and dynamics of the natural resource based economy of Isiolo County organized by International Institute for Environment and Development (IIED) and Resource Advocacy Programme (RAP) and County Government of Isiolo on 6th August 2015. Sponsor: IIED
 - x. Michael Elias, Uwe Richte, Oliver Hensel, Christian Hülsebusch, Brigitte Kaufmann and **Oliver Wasonga**. **2013**. Expansion of crop cultivation and the land cover changes in the Borana Rangelands of Southern Ethiopia. **Poster** presented at the Tropentag 2013 Conference at University of Hohenheim, Institute for Plant Production and Agro-ecology of the Tropics and Subtropics, Stuttgart, Germany (17 – 19 September, 2013).
 - xi. Mwanaima Rhajab, **Oliver Wasonga**, Christian Hülsebusch, Brigitte Kaufmann. **2013**. Contributions of wild edible plants to diet of pastoral areas of Kajiado County, Kenya. **Poster** presented at the Tropentag 2013 Conference at University of Hohenheim, Institute for Plant Production and Agro-ecology of the Tropics and Subtropics, Stuttgart, Germany (17 – 19 September, 2013).
 - xii. Jie Zhang, **Oliver Wasonga**, Christian Hülsebusch, Brigitte Kaufmann. **2013**. Contribution of wild medicinal plants to health care of pastoral livelihoods in Kajiado County, Kenya. **Poster** presented at the Tropentag 2013 Conference at University of Hohenheim, Institute for Plant Production and Agro-ecology of the Tropics and Subtropics, Stuttgart, Germany (17 – 19 September, 2013).
 - xiii. **Wasonga V.O.**, Opiyo F.E, Nyangito M., Hueselbusch C. **2012**. "Adapting or Coping? An analysis of Pastoralists' Responses to Extreme Climatic Events in Northwestern Kenya". **Poster** presented at the Tropentag 2012 Conference at the University of Gottingen, Germany (18 - 21 September, 2012)
 - xiv. **Wasonga V.O.**, D.M. Nyariki and Amwata D. **2008**. "Pastoral Vulnerability to Climate Change in Kenya: The Undermined Adaptive Strategies". Presented at the conference on Environmental concerns of Climate Change with respect to Sustainable Livelihoods in Eastern Africa organized by the Eastern Africa Environmental Network (EAEN), AMREF International Training Centre (24-25 May, 2008)
 - xv. **Wasonga V.O.**, Ngugi K. and D.M. Nyariki. **2006**. "Assessing the efficacy of enclosures in ecological restoration of degraded rangelands in northern Kenya". **Poster** presented at the Sixth Student Conference on Conservation Science organized by British Ecological Society, Centre for Applied Biodiversity Science and Conservation International at the University of Cambridge (15-21 March, 2006)
 - xvi. **Wasonga V.O**. **2002**. Traditional Range Condition and Trend Assessment: Lessons from the Pokot and Il Chamus Pastoralists of Kenya. Presented at the workshop on Documentation of indigenous techniques of assessing and monitoring range resource organized by Regional Land Management Unit (RELMA at ICRAF) at Novotel Mout Meru Hotel, Arusha (20-23 February, 2002)

N. INVITED LECTURES IN SEMINARS

- i. **Oliver Wasonga. 2013.** Using Value Chain Approach to Reveal the Total Economic Value of Pastoral Livestock in Isiolo County, Kenya. Presented at the GrassNet SummerSchool 2013, University of Kassel in Witzenhausen, Germany (December 15-18, 2013)
- ii. **Wasonga V.O., G. Rukunga, D. Kurao, S. Chebii, I. Wairimu, S. Mathenge and C. Ikutwa. 2012.** “Ethnobotany of wild medicinal plants among the Maasai pastoralists in Kajiado District, Kenya”. Presented at the GrassNet SummerSchool 2012, University of Kassel in Witzenhausen, Germany (18 – 29 September, 2012)
- iii. **Wasonga V.O. and Kaufmann B. 2012.** “Understanding Adaptation to Climate Change in Pastoral Systems from the context of Resilience: An example from Turkana Pastoralists of North Kenya”. Presented at the GrassNet SummerSchool 2012, University of Kassel in Witzenhausen, Germany (18 - 29 September, 2012)
- iv. **Wasonga V.O. and Kaufmann B. 2011.** “Managing the Challenges and Emerging Opportunities of Climate Variability and Change in Kenya’s Drylands”. Presented at the GrassNet SummerSchool 2011, University of Kassel in Witzenhausen, Germany (26 September - 4 October, 2011)

O. PROFESSIONAL TRAINING

- August 27 – 30, 2019:** Training of Trainers (TOT) on Integrating Ecosystem Services (IES) into Development Planning in Agrarian Landscapes. **Sponsor:** GIZ
- May 24, 2017:** Training Workshop for Development of ODEL Course contents for Dryland Resource Management PhD Syllabus on 24th May, 2017 At KALRO HQRS, Loresho. **Institution:** University of Nairobi. **Sponsor:** African Drylands Institute for Sustainability (ADIS)
- February 02-04, 2016:** Training in Pedagogy and Andragogy held on 2-4 February, 2016 at the Central Catering Unit (CCU). **Institution:** University of Nairobi. **Sponsor:** University of Nairobi
- May 04 – 7, 2015:** PhD Supervision Training Held at the Maanzoni Lodge between 4th May and & 7th May, 2015. **Institution:** University of Nairobi. **Sponsor:** University of Nairobi
- November 28 - 29, 2013:** Situation Analysis in Socio-Ecological Research. **Institution:** The German Institute for Tropical and Sub-Tropical Agriculture (DITSL), University of Kassel, Witzenhausen. **Sponsor:** The German Academic Exchange Service (DAAD), GrassNet Programme (www.ditsl.org).
- September 15 - 28, 2013:** Summerschool on “Synthesis – Cross continental analysis of grassland ecosystems vulnerable to climate change”. **Institution:** University of Hohenheim, Institute for Plant Production and Agro-ecology of the Tropics and Subtropics, Stuttgart. **Sponsor:** The German Academic Exchange Service (DAAD), GrassNet Programme (www.ditsl.org).
- March 18th - 22nd, 2013:** Geographic Information Systems (GIS) Training Workshop. **Institution:** Centre for Sustainable Dryland Ecosystems and Societies (CSDDES). **Sponsor:** CSDDES
- February 4th – 9th 2013:** Research proposal development and scientific and technical communication. **Institution:** The Training Centre in Communication (TCC), Nairobi. **Sponsor:** University of Nairobi
- Dec. 10 - 14, 2012:** Regional training workshop on the environmental and socio-economic data collection. **Institution:** The Sahara and Sahel Observatory (OSS), Tunis. **Sponsor:** OSS
- Sept. 18 - 29, 2012:** Summerschool on “Modelling approaches to support Grassland Management”. **Institution:** The German Institute for Tropical and Sub-Tropical Agriculture (DITSL), University of Kassel, Witzenhausen. **Sponsor:** The German Academic Exchange Service (DAAD), GrassNet Programme
- Sept. 26 – Oct.7, 2011:** Summerschool on “Livelihoods from Grassland systems: Concepts and methods to increase adaptive capacity of land users to changing conditions”. **Institution:** The German Institute for Tropical and Sub-Tropical Agriculture

- (DITSL), University of Kassel, Witzenhausen. **Sponsor:** The German Academic Exchange Service (DAAD), GrassNet Programme
- Feb. 21 - 25, 2011:** Training of Educators' Workshop on "*Conflict Management and Resolution in Forestry and Natural Resources*", Nairobi. **Institution:** The African Network for Agriculture, Agroforestry and Natural Resources Education (ANAFE). **Sponsor:** The United Nations Food Agriculture Organization (FAO)
- March 22 – 30, 2009:** The Role of Native and Desert-Adapted Species in Slowing Desertification. **Institution:** Arava Institute of Environmental Studies (AIES), Kibutz Quetura, Israel. **Sponsor:** United Nations Department of Economic and Social Affairs (UN/DESA), and Israel's Ministry of Foreign Affairs Agency (MASHAV)
- Aug.–Sept, 2005:** Participatory Project Monitoring and Evaluation. **Institution:** Kenya Institute of Administration. **Sponsor:** Self
- Sept. 2003 - April, 2004:** Water Resources and Livelihood Security. **Institution:** Linköping University, Sweden. **Sponsor:** Sida/EPOS/PINEP
- November, 2002:** Trees for Arid Lands (trees for environmental protection and sustainable development). **Institution:** Ben-Gurion University of the Negev, Israel. **Sponsor:** International Program for Arid Land Crops (IPALAC) and Israel's Ministry of Foreign Affairs Agency (MASHAV)

P. PUBLIC LECTURES ATTENDED

- i. **June 30, 2015:** Postharvest Technologies for Reduced Food Losses and Waste. Lecture by Prof. Randolph Beaudry from Michigan State University
Venue: Faculty of Agriculture Building, University of Nairobi
- ii. **April 3, 2014:** Recent Advances in E-learning: Example from CSDES. Lecture by Prof. Robert G Woodmanse from Colorado State University.
Venue: Department of Land Resource Management and Agricultural Technology, University of Nairobi
- iii. **February 20, 2014:** Land for Livelihoods: Sustainable Land Management in Agropastoral areas. Lecture by Dr. Zeinabu Khalif, the National Project Manager for SLM Agro-Pastoral The aim of the seminar was to share some experiences in implementing sustainable land management initiatives in the dry lands of Kenya using a case study of SLM-Agro-pastoral project (Government of Kenya/UNDP/GEF project).
Venue: Department of Land Resource Management and Agricultural Technology, University of Nairobi
- iv. **November 14, 2013:** Pollination: The Forgotten Essential Ecosystem Service. Lecture by Dr. Wanja Kinuthia, National Museums of Kenya (Coordinator, EAFRINET).
Venue: Department of Land Resource Management and Agricultural Technology, University of Nairobi
- v. **March 15, 2013:** Enhancing Food Security and Climate Change Adaptation in the ASAL county of Machakos. Lecture by Bishop Titus Masika, Christian Impact Missionns.
Venue: Department of Land Resource Management and Agricultural Technology, University of Nairobi

Q. RESEARCH PARTNERSHIPS AND INSTITUTIONAL LINKAGES

- i. German Corporation for International Cooperation (GIZ) through the Economics of Land Degradation (ELD) initiative project.
- ii. University of East Anglia: Collaboration through Adaptation at Scale in Semi-Arid Regions (ASSAR) project
- iii. University of Newcastle: Collaboration through Foundations for climate resilient and sustainable growing settlements (U-RES) project
- iv. University of Kwazulu Natal: Collaboration through U-RES project
- v. OXFAM GB: Collaboration through ASSAR and U_RES projects
- vi. University of Addis Ababa: Collaboration through ASSAR consortium
- vii. University of Cape town: Collaboration through ASSAR consortium

- viii. The German Institute for Tropical and Sub-Tropical Agriculture (DITSL) at University of Kassel, Witzenhausen: Collaboration through Post-doctoral Fellowship-DAAD GrassNet Project and Reduction of Post-Harvest Losses and Value Addition in East African Food Value Chains (RELOAD) project
- ix. University of Hohenheim, Germany: Collaboration through RELOAD project and DAAD GrassNet Project
- x. The World Conservation Union (IUCN): Collaboration through the Sustainable Dryland Landscapes (SDL) Programme-in Drafting and Reviewing of the Report on “ Investing in Healthy Rangelands in Devolved Kenya: Ecological, Social, Economic Governance towards an inclusive Green Economy”.
- xi. Egerton University, Kenya : Collaboration through RELOAD project and DAAD GrassNet Project
- xii. TUFT University, Ethiopia: Collaboration through Economic Valuation (TEV) Pastoralism Project
- xiii. Jimma University, Ethiopia: Collaboration through RELOAD project
- xiv. The International Institute for Environment and Development (IIED). Collaboration through Total Economic Valuation (TEV) Pastoralism Project in Isiolo; and Postgraduate Programme on Dryland Policy and Climate Change Adaptation (under review)
- xv. Ambo University, Ethiopia: Collaboration through RELOAD project
- xvi. Kenya Agricultural and Livestock Research Organization (KALRO), Kiboko Research Station through Fodder Production for Enhanced Pastoral and Agro-Pastoral Resilience in the Drylands of Kenya (PREPARED) project
- xvii. Resource Advocacy Programme: Collaboration through Re-Packing Indigenous Knowledge to Inform Policy, Development and Pastoral Community Action in Kenya (PIK) project
- xviii. Ministry of Agriculture, Livestock and Fisheries Development, Makueni and Kajiado Counties. Collaboration through PREPARED project

R. NEGOTIATED MEMORANDA OF UNDERSTANDING

- 2018:** MoU between UoN and the University of East Anglia in UK
- 2018:** MoU between UoN and Economics of Land Degradation Initiative (ELD)
- 2018:** MoU between UoN and START International
- 2015:** MoU between UoN and the University of East Anglia in UK
- 2014:** MoU between UoN and the German Institute for Tropical and Sub-Tropical Agriculture (DITSL) in Germany
- 2013:** MoU between UoN and University of Kassel in Germany
- 2013:** MoU between UoN and International Institute for Environment and Development

S. GRANTS AND SCHOLARSHIP AWARDS

- 2018:** Grants for Local Adaptation Support (GLAS), a competitive small grant awarded by Global System Change for Analysis Research and Training (START)
- 2016 – 2017:** The Christensen Fund, USA for Promotion of Pastoral Indigenous Knowledge
- 2015-2017:** The Regional Universities Forum for Capacity Building in Agriculture (RUFORUM) Graduate Research Grants (GRG)
- 2011/2012:** German Academic Exchange Service (DAAD) GrassNet post-doctoral scholarship award. Undertaken at German Institute for Tropical and Sub-Tropical Agriculture (DITSL), Germany
- 2009:** Open Society Institute (OSI)/International Institute for Environment and Development (IIED), bursary award to build awareness on adaptation to climate change in African Universities
- 2009:** United Nations Department of Economic and Social Affairs (UN/DESA), and Israel’s Ministry of Foreign Affairs Agency (MASHAV) award for training on ‘the Role of Native and Desert-Adapted Species for the purpose of Slowing Desertification’
- 2002:** International Programme for Arid Lands Crops (IPALAC) and Israel’s Ministry of Foreign Affairs Agency (MASHAV) award for training on ‘Trees for arid lands’
- 2003/2004:** Environmental Policy and Society (EPOS)/PINEP, an interactive course fellowship, Linköping University, Sweden
- 2004-2006:** Swedish International Development Agency (Sida)/PINEP PhD Scholarship Award
- 1992:** University of Nairobi, B.Sc. Scholarship award

1998: University of Nairobi, M.Sc. Scholarship award

T. PROFESSIONAL ASSOCIATIONS

- i. **2010 – Date:** Founding member, African Universities Network for Climate Change and Development (AUNCCD)
- ii. **2009 – Date:** Member, Eastern Africa Environmental Network (EAEN)
- iii. **2009 – Date:** Member, the East Africa Natural History Society (Nature Kenya)
- iv. **2009 – Date:** Member, the East African Wildlife Society (EAWS)
- v. **2008 – Date:** Member, Soil Science Society of East Africa (SSSEA)

U. REFERENCES

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