


ACADEMIC STAFF PROFILE

1.1 Personal Profile

1.1.1 Personal Details

Name: Dr. Ezekiel Ndunda Title/Qualification: PhD Department: Environmental Science and Education Designation/Position: Senior Lecturer Email: ndunda.ezekiel@ku.ac.ke Contact Address: P.O. Box 43844 -00100, Nairobi	
Area of Specialization: <ul style="list-style-type: none">Environmental and Natural Resource Economics	
Google Scholar: https://scholar.google.com/citations?user=-%20%20o3X0NcAAAAJ&hl=en&scioq=ezeziel+ndunda&user=-o3X0NcAAAAJ	
ORCID ID: https://orcid.org/0000-0002-8788-7884	
ResearchGate Profile: https://www.researchgate.net/profile/Ezekiel-Ndunda	

1.1.2 Academic & Professional Qualifications

- PhD (Environmental Economics), University of Pretoria, Pretoria - South Africa
- MSc (Agricultural Resource Economics), Moi University, Eldoret - Kenya
- BSc (Agricultural Engineering), University of Nairobi, Nairobi – Kenya

1.1.3 Employment History

- Senior Lecturer - Kenyatta University, Department of Environmental Sciences (September 2019 - to date).
- Lecturer - Kenyatta University, Department of Environmental Sciences (February 2014 - September 2019).
- Tutorial Fellow - Kenyatta University, Department of Environmental Sciences (February 2009 - February 2014).
- Assistant lecturer - Moi University, Department of Agricultural Economics (September 2006 - February 2009).

1.1.4 Achievements

- Development of a Policy and Bill for Kenya Water Towers Agency.
- Randomization of interventions for impact evaluation in the Lower Nzoia Irrigation Project.
- Total economic valuation of Mt. Elgon Forest Ecosystem.
- Curriculum review for the Department of Environmental Sciences.

1.2 Publications

1.2.1 Referred Journals

- 1) Ndunda, E. (2018). Economic impact of climate change on smallholder agriculture in coastal Kenya: a Ricardian approach. *Journal of Agriculture and Research*, 4(11):1-13.
- 2) Ndunda, E.N. and Muia, V.K. (2018). Estimating the willingness to pay for improved municipal solid waste management in Nairobi, Kenya. *International Journal of Environmental Science*, 3:8-16.
- 3) Ndunda, E.N. and Eric D. Mungatana, E.D. (2013). Evaluating the welfare effects of improved wastewater treatment using a discrete choice experiment. *Journal of Environmental Management*, 123:49-57.
- 4) Ndunda, E.N. and Eric D. Mungatana, E.D. (2013). Farmers' Perception and Knowledge of Health Risks in Wastewater Irrigation. *Natural Resources and Conservation*,
[dx.doi.org/10.7392/Research.70081917](https://doi.org/10.7392/Research.70081917)
- 5) Ndunda, E.N. and Eric D. Mungatana, E.D. (2013). Determinants of farmers' choice of innovative risk-reduction interventions to wastewater-irrigated agriculture. *African Journal of Agricultural Research*, 8(1):119-128.
- 6) Muia, V.K. and Ndunda, E. 2013. Evaluating the impact of direct anthropogenic activities on land degradation in arid and semi-arid regions in Kenya. *Journal of Agricultural Research*, 2(6):173-182.
- 7) Ndunda, E., Gacii, S.M., Mugo, T., Ipara, H. & Odunga, P. 2010. The effects of service quality and visitor satisfaction on loyalty of park

recreation facilities: a case of Uhuru Park in Kenya. *International Journal of Sustainable Development*, 3(7):50-60.

- 8) Ndunda, E.N., Muasya, R.M, and Mulinge, R. (2009). Inter- Relationship between Market Structure, Conduct and Performance of Cut Flowers: A Case Study of Uasin District, Kenya. *International Journal of Sustainable Development*, 1(1):57-64.

1.2.2 Books and Books Chapters

- 1) Ndunda, E.N. and Eric D. Mungatana, E.D. (2015). *Wastewater reuse in urban and peri-urban irrigation: An Econometric Analysis*. LAP LAMBERT Academic Publishing.
ISBN-13: 978-3-659-71692-8

Website: <https://www.lap-publishing.com/>

- 2) Ndunda, E.N. and Eric D. Mungatana, E.D. (2014). *Innovative Risk-Reduction Measures and Urban Welfare in Wastewater-Irrigated Agriculture: An endogenous Switching Regression Approach for Nairobi, Kenya*. In: (ed. P. Chanie) *Innovative Water Resource Use and Management for Poverty Reduction in Sub-Saharan Africa: An anthology*. Organisation for social Science Research in Eastern and Southern Africa (OSSREA).

ISBN: 9789994455751

- 3) Ndunda, E.N. (2014). *Wastewater reuse in urban and peri-urban irrigation: an economic assessment of improved wastewater treatment, low-risk adaptations and risk awareness in Nairobi, Kenya* (Doctoral dissertation, University of Pretoria, South Africa). Retrieved from
https://repository.up.ac.za/bitstream/handle/2263/40235/Ndunda_Wastewater_2013.pdf?sequence=1

- 4) Mutuku, B. Kinyili and Ndunda, E. (2021). *Research Trends in Silviculture and Agroforestry - Potential of Agroforestry to Improve Rural Income and Livelihoods in Sub-Saharan Africa*. In: (ed. J. Kumar) *Research Trends in Silviculture and Agroforestry*. AkiNik Publications, New Delhi.
ISBN: 978-93-90846-38-2
Book DOI: <https://doi.org/10.22271/ed.book.1185>

1.2.3 Conference/Workshops/Seminar Papers

1.2.3.1 Conference Papers

- 1) Mbaabu P., Ndunda, E. and Kitur, E. (2019). Pond water fertilization effects on the performance of *Oreochromis niloticus* in different culture systems in Meru County. The 5th International Conference on Science Technology, Innovation and entrepreneurship in Dedan Kimathi University of Technology, Kenya, 13th–15th November 2019.
- 2) Kinyili, B.M., Ndunda, E. and Kitur, E. (2019). Influence of agroforestry age stand on physico-chemical soil quality parameters. The 5th International Conference on Science Technology, Innovation and entrepreneurship in Dedan Kimathi University of Technology, Kenya, 13th–15th November 2019.
- 3) Kinyili, B.M., Ndunda, E. and Kitur, E. (2019). Socio-economic and institutional factors influencing adoption of agroforestry in arid and semi-arid Lands (ASALs) of Sub-Saharan Africa. The 6th International Research Conference in Main Campus, Chuka University, Kenya, 6th–8th November 2019.
- 4) Mbaabu P. and Ndunda, E. (2019). Aquaculture adoption in Meru County, Kenya on introduction of fish farming stimulus project in 2009. The 6th International Research Conference in Main Campus, Chuka University, Kenya, 6th–8th November 2019.
- 5) Kinyili, B.M., Ndunda, E. and Kitur, E. (2019). Influence of Agroforestry on Rural Income and Livelihood of Smallholder Farmers in the Semi-Arid Region of Sub-Saharan Africa. The 24th International Forestry and Environment Symposium in Jetwing Blue, Negombo, Sri Lanka, 11th–12th October 2019.
- 6) Kinyili, B.M., Ndunda, E. and Kitur, E. (2019). Trade-off Between Agroforestry and Ecosystem Services among Smallholder Farmers in Machakos (Kenya). 6th International Interdisciplinary Conference (IIC6) in Eldoret University, 4th – 6th September 2018.
- 7) Kamande, P., Ndunda, E. and Kabuyah, R.N. (2018). Irrigation Water on the Soil-to-Crop-Transfer Factor in Leafy Vegetables Grown along Peri-Urban Areas of Kiambu County, Kenya. The 1st Annual International Conference in Machakos University, 17th – 19th April 2018.

- 8) Otieno, R.O., Ndunda, E. and Makokha, M. (2015). Seasonal variations of physico-chemical and microbiological characteristics of groundwater quality in Ruiru, Kiambu County, Kenya. Regional Conference of the International Network of Women Engineers and Scientists in Speke Resort & Conference Center, Kampala Uganda, 21th - 23th October 2015.
- 9) Ndunda, E., Muasya, R.M., Serem, A., Chumo, E.C., and Kipsat, M.J. (2007). Socio-Economic Constraints to Adoption of Improved Horticultural Production Technologies by Smallholder Farmers in Uasin Gishu District, Kenya. The 2nd Research Week and International Conference in Egerton University, 16th - 20th July 2007.
- 10) Ndunda, E., Chumo, E.C., Mutai, H., and Tulla, R.A. (2007). An Assessment of the Factors Affecting Smallholder Dairy Farmers of Endebess Division, Trans Nzoia District, Kenya. Moi University 3rd Annual International Conference, 31st July - 4th August 2007.
- 11) Makundi, H.K., Muasya, R.M., Serem, A.K., Gohole, L.S., Ochwo-Ssemakula, M., Nyangweso, P.M., Ndetu, V.N., and Ndunda, E.N. (2007). Socio-Economic Constraints to Spiderplant (*cleome gynandra*, L.) Leaf and Seed Production by Farmers in Western Kenya and Eastern Uganda. A Paper Presented at the RUFORUM Biennial Conference 23rd – 27th April 2007, Mangochi, Malawi.
- 8) Kipsat, M.J., Maritim, H.K., Ndunda, E., Korir, M.K., Serem, A.K., Nyangweso, P.M., and Mduma, J.K. (2006). Role of Women in Agricultural Development. Moi University 2rd Annual International Conference, 29th August – 2nd September 2006.
- 9) Chumo, E.C., Maritim, H.K., Serem, A.K., and Ndunda, E. (2007). An Assessment of Cocoyam (*colosia esculenta* and *xanthosoma sagittifolium*) Contribution to Food Security in the Lake Victoria Region, Kenya. Moi University 3rd Annual International Conference, 31st July - 4th August 2007.
- 10) Ndunda, E., Kipsat, M.J., and Maritim, H.K. (2006). Challenges to Maintaining Improved Horticultural Production Technologies: A Case Study of Smallholder Adopter Farmers in Uasin Gishu District, Kenya. Moi University 2rd Annual International Conference, 29th August – 2nd September 2006.

1.2.3.2 Workshops Papers

1) Ndunda, E. (2009). Valuation of Environmental Benefits of Biofuels: A Contingent Valuation Approach for Biodiesel in Kenya. A Paper Presented in the Biofuels Research and Training Workshop Under the Environmental Economics Capacity Building Programme held at the Southern Sun Cape Sun Hotel, Cape Town, South Africa from May 11 – May 15, 2009.

1.2.3.3 Seminar Papers

1) Yoshida, S. and Ndunda, E. (2016). Maximizing the returns to large scale infrastructure investments: Example from the Nzoia Irrigation Program. DIME Forum: Using Evidence to Improve Policy and Program Designs. <https://www.poverty-action.org/event/dime-forum-using-evidence-improve-policy-and-program-designs>

1.2.4 Student Co-authored Publications

- 1) Beth Waithera Njiraini, B.W., Ndunda, E. and Kamande, P.N. (2020). Assessment of Physico-Chemical Properties of Shallow Well Water in Kawangware Location, Nairobi City, Kenya. *Journal of Applied Science*, 6(9): 01-20.
- 2) Nyirandorimana, E., Ndunda, E. and Muriuki, J. (2020). Factor influencing adaptation choices employed by farmers against climate change to improve rice yield in Bugarama Wetland in Rwanda. *East African Journal of Agriculture and Biotechnology*, 2(1): 12-22.
- 3) Wambugu, M.M., Ndunda, E. and Gathuru, E. (2020). Integrating fish into rice farming as an economic substitute to chemical pesticides. *Journal of Agriculture and Research*, 6(3): 17-37.
- 4) Mbaabu, P., Kitur, E. and Ndunda, E. (2020). Pond Water Fertilization Effects on the Performance of *Oreochromis Niloticus* in Different Culture Systems in Meru County. *Journal of Computer Engineering*, 22(2): 21-28.
- 5) Kinyili, B.M., Ndunda, E. and Kitur, E. (2020). Trade-off between agroforestry and ecosystem services among smallholder farmers in Machakos County, Kenya. *East African Journal of Forestry and Agroforestry*, 4(1): 13-23.
- 6) Kinyili, B.M., Ndunda, E. and Kitur, E. (2020). Socio-economic and institutional factors influencing adoption of agroforestry in Arid and Semi-Arid (ASALs) areas of Sub Saharan Africa. *International Journal of Forestry and Horticulture*, 6(1): 8-18.

- 7) Mukundente, L., Ndunda, E. and Gathuru, G. (2019). Agroforestry technologies adopted by smallholder farmers in Southern Province of Rwanda. *East African Journal of Forestry and Agroforestry*, 4(1): 24-31.
- 8) Mukundente, L., Ndunda, E. and Gathuru, G. (2019). Socio-economic and institutional factors affecting smallholders farmers to adopt agroforestry practices in Southern Province of Rwanda. *International Journal of Agricultural Science and Food Technology*, 6(1): 68-74.

1.2.5 Other Publications

- 1) Obiri, J., Fehr, C. and Ndunda, E. (2008). A Total Economic Valuation for the Mt. Elgon Ecosystem of Kenya and Uganda. *Nature and Development Africa: IUCN MERECP*, Kampala, Uganda. EARO/76554-000/1158.

1.3 Research Work

- 1) Maximizing the returns to large scale infrastructure investments using evidence-based decision-making process in Lower Nzoia Irrigation Development, Kenya.
- 2) Economic benefits of moving up the hierarchy of waste management in Nairobi's industrial area, Kenya.
- 3) Economic analysis of innovations in urban and peri-urban wastewater reuse in Nairobi, Kenya.
- 4) Total economic valuation of Mt. Elgon Ecosystem (Kenya-Uganda).
- 5) Challenges, Opportunities and the Way Forward for Food Production in Western Kenya.

1.4 Funded Projects

- 1) 2021-To Date: Baseline survey on socioeconomic and environmental impacts associated with development of access roads in informal urban settlement in Nairobi County.
- 2) 2019-2020: Consultant for Nature Kenya to update the Mount Kenya forest business case on the ecosystem services by reviewing the existing secondary and project updated information; assessing the values of

biodiversity and forest restoration initiatives based on both market and non-market values; identifying the full range of financial mechanisms available for financing forest restoration; organizing and updating the Mt. Kenya forest restoration business case; determine the risk factors and their severity in the described scenarios an implication to the business model being promoted; and assessing barriers that need to be addressed to operationalize the Mt. Kenya business case and incentives that may be required.

- 3) 2018-2019: Consultant with the Kenyatta University Consortium in Development of a Coordination Policy and a Bill on Kenya Water Towers.
- 4) 2017-2018: Consultancy services for the analysis of economic benefits of moving up the hierarchy of waste management in Nairobi's industrial area, Kenya. Royal Danish Embassy in collaboration Kenya Climate Innovation Centre (KCIC).
- 5) 2017-2019: Consultant for the Kenya Water Security and Climate Resilience Project to improve water security and build climate resilience by strengthening water and climate risk investment planning, preparation, and implementation that is supported by an enhanced enabling institutional framework.
- 6) 2016-2017: Consultant with the Earthview Geoconsultants in Analysis of Economic Benefits of Moving Up the Hierarchy of Waste Management in Nairobi's industrial area, Kenya.
- 7) 2014-2016: Consultant under the Panel of Eminent Development Consultants in Environmental, Social and Economic Analysis of Tree Promotion Activities in the Coastal Region under Kenya Coastal Development Project.
- 8) 2014-2016: Consultant for the International Union for Conservation of Nature to conduct Total Economic Valuation of Mt. Elgon Ecosystem (Kenya-Uganda).

1.5 Conferenced/Workshops/Seminars Attended

1.5.1 Conferences Attended

- 1) The 1st Annual International Conference in Machakos University held from 17th – 19th April, 2018.

- 2) Regional Conference of the International Network of Women Engineers and Scientists in Speke Resort & Conference Center, Kampala Uganda held from 21th October - 23th October, 2015.
- 3) The 2nd Research Week and International Conference in Egerton University held from 16th July - 20th July, 2007.
- 4) Moi University 3rd Annual International Conference held from 31st July - 4th August, 2007.
- 5) RUFORUM Biennial Conference held in Mangochi, Malawi from 23rd April – 27th April, 2007.
- 6) Moi University 2rd Annual International Conference held from 29th August – 2nd September, 2006.
- 7) Moi University 3rd Annual International Conference held from 31st July - 4th August, 2007.
- 8) Moi University 2rd Annual International Conference held from 29th August – 2nd September, 2006.

1.5.2 Training Workshops Attended

- 1) Climate Change and Sustainable Development Organized by Environment Protection Training and Research Institute (EPTRI) Hyderabad, Telangana, India from January 24, 2022 – February 4, 2022.
- 2) ESPA Professional Development Course Workshop held at Kenyatta University Conference Centre in Kenyatta University from March 5, 2018 - March 7, 2018.
- 3) System Theory and Higher Education Workshop held at Kenyatta University Conference Centre in Kenyatta University from April 24, 2017 – April 28, 2017.
- 4) Research Management Cycle Workshop held at Kenyatta University held at Kenyatta University held at Graduate School in Kenyatta University on September 30, 2015.
- 5) Randomized Evaluations J-PAL Africa/ CEEPA Workshop held at Pretoria, South Africa from August 28, 2014- August 29, 2014.

- 6) Training of Trainers Course on the use of Smartboard in Teaching held at Kenyatta University held at Kenyatta University Workshop held at Kenyatta University Business and Students Centre in Kenyatta University from February 11, 2014 – February 20, 2014.
- 7) Teaching Methodology held at Kenyatta University held at Kenyatta University Workshop held at Kenyatta University Business and Students Centre in Kenyatta University from May 28, 2013 - November 14, 2013.
- 8) Biofuels Research and Training Workshop Under the Environmental Economics Capacity Building Programme held at the Southern Sun Cape Sun Hotel, Cape Town, South Africa from May 11 – May 15, 2009.

1.5.3 Seminars Attended

- 1) Functional Biosafety Systems towards commercialization of Agricultural Biotechnologies for Economic Development in Kenya. The 9th Annual Biosafety Conference. Live Webinar held from 10th November 2020 – 13th November 2020.
- 2) Biosafety Socio-Economic Considerations Seminar held at Kenya School of Monetary Studies in Nairobi on 8th March, 2018
- 3) String Theory, Particle Physics and Cosmology Seminar held at Kenyatta University Business and Students Centre in Kenyatta University on 4th April, 2017.
- 4) Shaping the Future of the Nation through Innovation, Science and Technology Seminar held at Kenyatta University Business and Students Centre in Kenyatta University on 21st October, 2016.
- 5) Using Evidence to Improve Policy and Program Designs Seminar held at Windsor Golf Hotel and Country Club on 14th June, 2016.

1.6 Supervision of Postgraduate Students

1.6.1 Master's Degree Candidates

- 1) Joseph M. Mang'oka (N50/CTY/PT/21829/2012) - Evaluation of irrigation water quality of the Yatta Canal in Machakos County, Kenya.
 - *(Graduated)*

- 2) Peter N. Kamande (N50/CE/23662/2013) - Assessment of some heavy metals in vegetables, cereals and fruits grown along River Kiu in Kiambu County, Kenya.
 - *(Graduated)*

- 3) Nyanchoka V. Maryvine (N50/CTY/24631/2013) - The importance of ecosystem functions on rural livelihoods of communities around Mt. Elgon Forest, Uganda.
 - *(Graduated)*

- 4) Rachel O. Otieno (N50/CTY/24631/2013) - Groundwater quality and its suitability for domestic use in Ruiru Area, Kiambu County, Kenya.
 - *(Graduated)*

- 5) David M. Njiru (N50/CTY/PT/20701/2012) - Climate change and potential for development of micro hybrid systems for electricity access in Upper Eastern and North-Eastern Counties, Kenya.
 - *(Graduated)*

- 6) Joseph Karanja (N50/29065/2014) - Climate resilient geothermal production in Eburru, Menengai and Olkaria, Nakuru County, Kenya.
 - *(Graduated)*

- 7) Phyllis W. Wachira (N50/CE/26778/2013) - Economic impact assessment of climate change on agriculture in Kwale County, Kenya.
 - *(Graduated)*

- 8) Kanyaru S. Mbura (N50/CE/20730/2012) - Assessment of the physico-chemical parameters of ground water in Tharaka Nithi County, Kenya.
 - *(Graduated)*

- 9) Beth W. Njiraini (N50/CE/26874/2011) - Assessment of the quality of groundwater in Kawangware slum, Nairobi County, Kenya.
 - *(Graduated)*

- 10) Esther Nyirandorimana (N50EA/26051/2018) – Assessing the socioeconomic impacts of climate change on rice production at Bugarama Wetland of Rusizi District, Rwanda.
 - *(Graduated)*

- 11) Liliane Mukudente (N50EA/26073/2018) – Evaluating the impact of adopting agroforestry technologies on livelihood improvement among smallholder farmers in Southern Province of Rwanda.
 - *(Graduated)*

12) Mercy M. Wambugu (N50/CE/28769/2014) - Aquaculture as a substitute economic mechanism to disastrous pesticides: integrating fish into rice farming at Mwea Irrigation Scheme in Kirinyaga County, Kenya.

- *(Ongoing)*

13) Simon P. Odawa (N50/CTY/PT/27609/2013) - Impacts of land-use changes on Mau Forest Ecosystem, Narok County, Kenya.

- *(Ongoing)*

14) Caroline M. Kwamboka (N50/25167/2011) - Adaptation to climate change for smallholder farmers Kitui County, Kenya.

- *(Ongoing)*

15) Joe A. Omwenga (N50/CTY/PT/21830/2012) - Effects of septic tank effluent on groundwater quality in Nairobi County, Kenya

- *(Ongoing)*

16) Dorine M. Ngeti (N50/CTY/PT/20726/2012) - Impact of payment for ecosystem services on welfare in Taita Taveta County, Kenya.

- *(Ongoing)*

17) Caroline A. V. Mmata (N50/CE/27862/2013) - Effects of indoor air pollution on maternal and infant health in Mombasa County, Kenya.

- *(Ongoing)*

18) Fredrick K. Sang (N50/29005/2014) - Using travel cost and contingent valuation approaches to inform sustainable management of King'wal Wetland in Nandi County, Kenya.

- *(Ongoing)*

19) Kibe N. Winnie (N50/29004/2014) - Socioeconomic impacts of carbon projects on livelihoods of smallholder farmers in Meru County, Kenya

- *(Ongoing)*

20) Kevin Nyakundi Morang'a (N50/28237/2013) - Potential of sawdust briquettes as a source of sustainable biomass energy in Kenya.

- *(Ongoing)*

21) Ruth Moraa (N50/CTY/PT/33085/2015) - Measuring the exposure of infants and children to indoor air pollution from biomass fuels in urban slums of Kenya.

- *(Ongoing)*

22) Rhoda Njeri Mwangi (N50/39739/2016) – Assessing the social benefits of soil conservation measures by smallholder farmers in Saba-Saba Sub-Basin in Murang'a County, Kenya.

- (Ongoing)

23) Magdalene Mumbua Nzau (N50/37176/2017) - Evaluating the adoption of smallholder irrigation as a climate-smart agriculture and its effects on livelihoods in Machakos County, Kenya.

- (Ongoing)

24) Emmanuel Kwabena Owusu (N50F/26439/2019) - Life Cycle Assessment of Food Systems and Development of a Sustainability Standard in Nairobi City County, Kenya

- (Ongoing)

25) Gudere Ann Ngauri - (50/26327/2018) - Adoption of Climate-Smart Technologies and Practices Among Agro-Pastoralists of Marsabit County in Kenya.

- (Ongoing)

26) Winfred Mwendu Paul – (N50/CE/25279/2018) - Adaptive Capacity of Bee Keeping Farmers to Climate Variability in Kitui County, Kenya.

- (Ongoing)

GENDER DIMENSION AND CLIMATE SMART TECHNOLOGIES FOR CLIMATE CHANGE ADAPTATION IN KAKAMEGA COUNTY, KENYA

BY

JOHN OSORE N50/CTY/PT/28753/2014

Dept. of Environmental Sciences and Education

1.6.2 Doctorate Degree Candidates

1) Mbaabu Patrick (N85/CE/27764/2013) - Effects of feed, fertilized water and liming on the production of *Oreochromis Niloticus* in different culture systems in Meru County, Kenya.

- (Graduated)

2) Benjamin M. Kinyili (N85/29390/2014) - Effect of agroforestry systems on ecosystem services and livelihoods for smallholder farmers in Machakos County, Kenya.

- (Graduated)

3) Nyanchoka V. Maryvine (N85/38924/2018) – Modelling urban air pollution within an Urban Canyon in Nairobi City, Kenya.

- (Ongoing)

4) Laveen M. Safary (N85/25228/2018) - Desalination of Groundwater by Solar Powered Reverse Osmosis as a Sustainable Solution to Safe Drinking Water Crisis in Mombasa County, Kenya.

- (Ongoing)

5) Faith Resiato Oloitipitip (N85/28515/2018) - Climate Variability and Livelihood Vulnerability of the Maasai Pastoralists in Kajiado County, Kenya.

- (Ongoing)

6) David Simba Nyamweya (N85/38425/2017) - Variability and Land Use Pattern on Surface Water Quantity and Quality in Kisii County, Kenya.

- (Ongoing)

1.7 Professional/Consultancy (Editor/Peer review in journals, Networks/Collaborations, External Examiner, Patents)

- Lead Expert, Environmental Impact Assessment
- A Socio-Economic Biosafety Expert for the National Biosafety Authority

1) Peer Review in journals:

i) Agricultural Water Management

<https://ees.elsevier.com/agwat/>

(ii) Journal of Environmental & Analytical Toxicology

<https://www.omicsonline.org/environmental-analytical-toxicology.php>

(iii) Journal of Development and Agricultural Economics

<https://academicjournals.org/journal/JDAE>

iv) British Journal of Applied Science & Technology

<https://www.ncbi.nlm.nih.gov/nlmcatalog/101664541>

- v) Asian Journal of Agricultural Extension, Economics & Sociology
<https://www.journalajaees.com/index.php/AJAEES>
- vi) Journal of Physical Science and Environmental Studies
<https://pearlresearchjournals.org/journals/jpses/index.html>

1.8 Community Service and Other Engagements

- 1) Appointed as a socioeconomic Biosafety Expert for the National Biosafety Authority of Kenya.
- 2) Patron, South Eastern University Students Association. Kenyatta University, Kenya.

1.9 Affiliation of Professional Bodies

- 1) Environmental Institute of Kenya (EIK) - Member
- 2) National Environmental Management Authority – Lead Expert
- 3) Organization for Social Science Research in Eastern and Southern Africa - Member

2.0 National and International awards and Recognitions

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2.1 Administrative Positions Held

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2.1.1 Recognized university administrative positions

- 1) E-Learning Coordinator in the School of Environmental Studies, Kenyatta University, Kenya.
- 2) Examination Coordinator in the Department of Environmental Sciences, Kenyatta University, Kenya.
- 3) Committee member, Kenyatta University ISO 9001:2000, ISO Auditor and ISO Representative of School of Environmental Studies.

- 4) Coordinator, Departmental Board of Postgraduate Studies, Department of environmental Sciences, Kenyatta University, Kenya.
- 5) Chairperson (Acting, Department of environmental Sciences, Kenyatta University, Kenya.
- 6) Committee Chairperson, School Committee on Research and Innovations, School of Environmental Studies

2.1.2 Other administrative positions Held

- 1) Chairman of the Committee on Agroforestry and Rural Development Programme (Postgraduate). Department of environmental Sciences, Kenyatta University, Kenya.
- 2) Member of the Committee on Environmental Resource Conservation Programme (Undergraduate). Department of environmental Sciences, Kenyatta University, Kenya
- 3) Departmental Website Management Committee. Department of environmental Sciences, Kenyatta University, Kenya.
- 4) Member of the Conference Organizing Committee. Joint Conference with the Horticultural Association of Kenya (HAK) and AGRA.