

DR. PAUL OTIENO ABUOM

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EDUCATION

Institution	Qualification	Year of study
Egerton University	Ph.D. Environmental Science	2004-2008
Egerton University	MSc. Environmental Science	1999-2003
Egerton University	BSc. Science	1993-1998
St. Joseph Rapogi High School	KCSE	1988-1991

RESEARCH EXPERIENCE

POSTGRADUATE SUPERVISION

Ph.D Candidates

CANDIDATE NAME	YEAR	RESEARCH TITLE
1. Long'ora, Albert Elim PG/PHD/00093/2012	2017	Influence of artisanal fishing gears on water physico-chemical parameters and fish community structure of Ferguson's gulf of lake Turkana, Kenya
2. Isaiah Okuthe Kase	2018	Determinants of the adoption of integrated natural resource management technologies by small scale farmers in Ndhiwa Division, Kenya

Masters candidates

CANDIDATE NAME	YEAR	RESEARCH TITLE
1. LONG'ORA ALBERT ELIM	2011	Assessing limiting factors on public participation on urban development projects –Kisumu City
2.MILLICENT A. ODHIAMBO	2011	Impact of alluvial fan on the socio-economic activities in the riparian of lower part of River Kuja in Nyatike Division
3.JOHN OKUMU PG/MSc/084/2008	2013	Assessing presence and level of Lead and Cadmium in environment – A case study of Kisumu Municipality, Kenya
4.JAMES O. KAOGA PG/MSc. /0063/2009	2013	Assessment of the effects of pesticides used on floricultural farms on water quality and water bird numbers in lake Naivasha, Kenya.
5.DOUGLAS N. ANYONA PG/MSc/036/2010	2013	Influence of anthropogenic activities on water quality of Nyangores and Amala tributaries of Mara River, Kenya
6.LABAN A. NYAMBEGA PG/MSc/064/09	2013	The effect of <i>mavuno</i> phosphorus-based fertilizer and manure soil organic carbon and maize (<i>Zea mays</i>) yield in western Kenya
7.JOASH N. ORUTA PG/MA/084/2006	2013	Assessing the impact of integrated watershed management tool on water resources management in Kuywa River, Bungoma County, Western Kenya
8.WALTER O. ODERA	2013	The impact of HIV and AIDS on public primary school

PG/MA/075/2005		education and it's implication on planning interventions in Rarieda Division, Rarieda District, Kenya.
9.DOMINIC OUMA OWINO PG/MA/0177/2011	2013	Factors influencing uptake of expanded program on immunization services in Rarieda Division, Siaya County.
10.JACQUELINE OMWOHA PG/MA/0180/2011	2013	An assessment of male attitudes towards family planning methods in Kisumu city: A case study of Migosi estate.
11.HOPE A. DIGO PG/MA/0194/2011	2013	Contribution of rural electrification project on small scale business ventures undertaken by women in Thuridibuoro Location, Kisumu County
12.CELESTINE ORAO PG/MA/0135/2011	2013	Juvenile delinquency in Busia Township location .A differential analysis of contributing factors
13.KABARE MARGRET PG/MA/0173/2011	2013	The influence of voluntary medical male circumcision on HIV behaviours and perceptions among young women (18-24yrs) in Manyatta Sub Location Kisumu County.
14.ROSE A. OMOLLO PG/MA/0181/2011	2013	The influence of gender roles on crop production and food security in N.W Kisumu Location, Maseno Division, Kisumu County, Kenya
15.APOPA NYABAYA HENRY PG/MA/000009/2010	2013	Effect of women participation in small scale business on their socio-economic status in Simur-Kondiek Sub-Location Siaya County.
16.OMOLLO C. OWUOR PG/MA/6042/2011	2013	Effects of Cash Transfer on Social Networks of Older Persons in Ndhwa Sub County, Homa-Bay County, Kenya.
17.ANDREW O. ADALLAH PG/MA/6014/2011	2013	The influence of Voluntary Male Medical Circumcision (VMMC) on sexual behaviour of the young male in Asego Division, Homabay County, Kenya
18.Beatrice Kathoni Kinywa	2014	Water Resources Allocation and Use in Lower Sondu-Miriu River Basin.
19. Benjamin Ouma Otiende	2014	Empowering Youth Learning Organizations Through Adoption of Ecological Agriculture In Kenya: Focusing On The Future (Norwegian University of Life Sciences Department of Plant and Environmental Sciences)
20.Chadwick O. Ajuang' PG/MSc/075/2011	2015	Effects of Climate Change on Households' Livelihoods and the Coping Strategies in Upper Nyakach, Kisumu County, Kenya.
21..Jared A. Makori	2015	The Effects of Water Physico-Chemical Parameters on Tilapia (<i>Oreochromis niloticus</i>) Growth in Earthen Ponds in Teso North Sub County, Busia County, Kenya.
22. Omondi Susan Aoko PG/MA/0152/2012	2015	Socio-cultural factors affecting youths empowerment in North Gem Ward, Siaya County
23.Benson O. Opiyo PG/MA/00081/2012	2015	Factors impeding women participation in elective political leadership positions in Seme Constituency, Kisumu County, Kenya
24.Judith M. Kenyi PG/MA/006/2011	2015	Acceptability of reusable sanitary towels by adolescent girls in Sauri primary schools in Barsauri Sublocation, Siaya County
25.Lukaria Kanyi Luke PG/Msc/6033/2011	2016	Ecological Factors Influencing Abundance of Large Grazing Herbivores in Ruma National Park in Homa-bay County, Kenya
26.Richard K. Kanda PG/MSc/6031/2011	2016	Effect of Pesticides Use on Honeybee (<i>Apis Mellifera</i> L.) Mortality and Honey Production in Transmara West Sub-County, Narok County, Kenya.

27. John O. Jaoko PG/MSc/067/2009	2016	Socio-Economic Factors Influencing Electronic Waste Management In Kisumu Central Business District, Kisumu City, Kenya.
28.Solomon K. Karonei PG/MA/00069/2013	2016	Effectiveness of Interventions for Rehabilitation of Offenders at Shikusa main Prison, Kakamega County, Kenya
29. Kosonei Rose Chepkorir PG/Msc/0081/2012	2017	Effects of drought dynamics on vegetation cover and water resources in Marigat Sub-County, Baringo County, Kenya
30. Indiatsy C. Masinde PG/ SC/062/2005	2017	Effects of rainfall variability on crop farming and livestock keeping in Machakos District, Kenya.
31. Robert Wanyama PG/MA/026/2005	2017	The role of beach management units in Co-management of fisheries resources in Kisumu County, Kenya
32. Grace Adhiambo Olando MSC/NS/00132/2014	2018	Spatial Distribution, Sources and Risk Analysis of Heavy Metal Concentration in the Sediments of Lake Naivasha, Kenya
33. Oluoch W. Agumba	2018	Modeling vegetation life forms abundance based on Epigeal Tarmitaria physiography and altitude in tropical savannah of Katolo Sub-Location, Kisumu County
34. Lennard William Bundeh PG/MA/089/06	2018	Effects Of Sugarcane Farming On Food Security In Dede Division, Migori County, Kenya

RESEARCH GRANTS ATTRACTED

Time	Research title and institution
2011	Studies on integrated water resources management and human health in Mara River of Lake Victoria Basin, Kenya
2011	Studies on effect of climate change on human health in the Lake Victoria Basin of Kenya
2010	Socioeconomics determinants of resettlement action plan- Sondu-Miriu hydroelectric project
Sept. 2009	Determinants of the adoption of improved natural resource management technologies by small scale farmers in Ndhiwa Division, Kenya.
Jan 2008	Social and economic adaptation strategies to impacts of climate change, Nyando River catchment, Kenya
Jan 2005-Dec 2007	Linking land use/cover to land degradation status and sediment dynamics of Rivers Nyando and Yala Basins of Lake Victoria, Kenya
Sept. 2005	Nyando river wetlands ecosystem structure, functions, utilization and management, existing legislation and institutional frameworks. Land use system and poverty level of the riparian community and population structure was also determined.
Jan 2004-July 2004	The dynamic of carbon stock in sediment of Yala swamp and soil in the adjacent farms around the swamp, Western Kenya
Jan 2002-Dec 2003	Mapping soil erosion hot spots on the watershed of River Nyando of L Victoria Basin, Kenya.

Dec 2000-June 2001	The dynamics of sediment deposition and its impact on the benthic macroinvertebrates assemblages in L. Baringo, Kenya.
Nov 2000-Mar 2001	The impact of land use on the biodiversity and species richness in the catchment of L. Nakuru sponsored by WWF.

TEACHING EXPERIENCE

PERIOD	POSITION
2017-Date	Senior Lecturer Dept of Environmental Science, Maseno University
2008-2016	Lecturer Dept of Environmental Science, Maseno University
2006-2008	Part time Lecturer, Dept of Environmental Science, Egerton University
2002- 2004	Researcher World Agroforestry (ICRAF), Kisumu
1998 – July	Tutor Mawego Technical Training Institute

HONORS AND AWARDS

Period	Research title and Institution	Amount (USD)
2011	Study on effect of climate change on human health and food security in the Lake Victoria basin of Kenya. The study covered Kisumu, Nyando, Bondo, Budalangi. Bomet, Kisii, Begut and Kakamega Districts. The study was funded by Lake Victoria Basin Commission.	48,000
2011	Study on integrated water resources management and human health in Mara River Basin of lake Victoria Basin. The study covered catchment areas of River Mara main tributaries, Amala and Nyangores through Bomet and Mulot Towns, Mara Game Reserve, Serengeti Park, Gaita and Tarime in Tanzania up to Lake Victoria. The study was funded by Lake Victoria Basin Commission.	84,000

PROFESSIONAL MEMBERSHIP

Registered with; The National Industrial Training Authority (NITA)

SKILLS AND TRAINING

INSTITUTION	QUALIFICATION	DATE
Sustainable Water Management	Attestation	May 2014
Kenya Buearau of standard	Certificate	October 2012
KMFRI	Certificate	July 2001
Practical Exercise in Biology for Science Laboratory	Certificate	April 1999

LEADERSHIP

- **Coordinator** (2012 to date Timetable and Examinations, Department of Environmental Science

PUBLICATIONS

1. Denis Mutama Masika and **Paul O. Abuom** (2018). Rainfall Runoff Modeling using HEC-HMS SMA for Water Balance Determination in Sosiani Catchment Kenya. *Researchjournali,s Journal of Geography*, vol. s/No. 6 August/2018 ISSSN 2349-5367.
2. Denis Mutama Masika and **Paul O. Abuom** (2018). Impacts of Small Scale Water Abstractions on Sosiani River, Kenya. *Researchjournali,s Journal of Geography*, vol. s/No. 6 August/2018 ISSSN 2349-5367.
3. Thalma Khalwale, David Langat, **Paul Abuom**, Samson Okoth (2018). Factors Influencing Adoption of on-Farm Tree Planting in Shinyalu Sub-County, Kakamega, Kenya *International Journal of Forestry and Horticulture* 2018, 4(2) : 38-48
4. Gabriel O. Dida, Douglas N. Anyona, **Paul O. Abuom**, Daniel Akoko, Samson O. Adoka, Ally-Said Matano, Philip O. Owuor and Collins Ouma (2018): Spatial distribution and habitat characterization of mosquito species during the dry season along the Mara River and its tributaries, in Kenya and Tanzania. DOI 10.1186/s40249-017-0385-0
5. Wyclife Agumba Oluoch, Boniface Oluoch Oindo, **Paul Abuom** (2017). Effects of Locations On- and Off- Epigeal Termitaria on Vegetation Lifeforms in Katolo Sub-Location of Kisumu County, Kenya: "Scientific Research Journal (Scirj), Volume V, Issue XII, December 2017 Edition, Page 74-83 ".
6. Agano J. Makori, **Paul O. Abuom**, Raphael Kapiyo, Douglas N. Anyona and Gabriel O. Dida (2017): Effects of water physico-chemical parameters on tilapia (*Oreochromis niloticus*) growth in earthen ponds in Teso North Sub-County, Busia County. Fisheries and Aquatic Sciences (2017) 20:30 DOI 10.1186/s41240-017-0075-7.
7. Oluoch, W.A., Oindo, B.O. and **Abuom, P.** (2017): Modeling Vegetation Life forms Abundance based on Epigeal Termitaria Physiography and Altitude in Tropical Savannah of Katolo Sub-Location, Kisumu County. Journal of Geoscience and Environment Protection, 5, 22-31. <https://doi.org/10.4236/gep.2017.510003>
8. Kosonei, R.C., **Abuom, P.O.**, Bosire, E and Huho, J. M.(2017): Effects of Drought Dynamics on Vegetation Cover in Marigat Sub-county, Baringo County, Kenya. International Journal of Scientific and Research Publications, Volume 7, Issue 5, May 2017: ISSN 2250-3153.
9. John O. Jaoko, Bonface O. Oindo and **Paul O. Abuom** (2016): Factors Influencing Willingness to Recycle E-Waste in Kisumu City Central Business District, Kenya. *International Journal of Recent Research in Interdisciplinary Sciences (IJRRIS)* Vol. 3, Issue 4, pp: (1-9), Month: October - December 2016, Available at: www.paperpublications.org
10. Chadwick O. Ajuang, **Paul O. Abuom**, Esna K. Bosire, Gabriel O. Dida and Douglas N. Anyona (2016): Determinants of climate change awareness level in upper Nyakach Division, Kisumu County, Kenya. SpringerPlus (2016) 5:1015
11. Ofulla, A.V.O., Gichere, S.K., Olado, G.O., **Abuom, P.O.**, Anyona, D.N., Othoro, D.M., Matano, A-S., Gelder, F.B., Dida, G.O., Ouma, C., Owuor, P.O., Amayi, J.B. and Kanangire, C.K. (2016): 'Effects of regional climate variability on the prevalence of diseases and their economic impacts on households in the Lake Victoria basin of Western Kenya', Int. J. Global Warming, Vol. 10, Nos. 1/2/3, pp.332–353.

12. Albert Elim Long'ora, **Paul Otieno Abuom** and Dickson Otieno Owiti (2015): Influence of Artisanal Fishing gears on Fish Abundance and Species Diversity in Ferguson's Gulf of Lake Turkana, Kenya. *Scholars Academic Journal of Biosciences (SAJB).Sch. Acad. J. Biosci.*, 2015; 3(12):991-997
13. Albert Elim Long'ora, **Paul Otieno Abuom**, Dickson Otieno Owiti and John Odoyo Malala (2015): Influence of Artisanal fishing Gears on Physico-Chemical Parameters of Ferguson's Gulf in Lake Turkana, Kenya. *Scholars Academic Journal of Biosciences (SAJB).Sch. Acad. J. Biosci.*, 2015; 3(12):1005-1013 3(12):1005-1013
14. Gabriel O Dida, Frank B Gelder, Douglas N Anyona, **Paul O Abuom**, Jackson O Onyuka, Ally-Said Matano, Samson O Adoka, Canisius K Kanangire, Philip O Owuor, Collins Ouma, and Ayub VO Ofulla (2015): Presence and distribution of mosquito larvae predators and factors influencing their abundance along the Mara River, Kenya and Tanzania.
15. Ally-Said Matano, Canisius K. Kanangire, Douglas N. Anyona, **Paul O. Abuom**, Frank B. Gelder, Gabriel O. Dida, Philip O. Owuor and Ayub V. O. Ofulla (2015). Effects of Land Use Change on Land Degradation Reflected by Soil Properties along Mara River, Kenya and Tanzania. *Open Journal of Soil Science*, 2015, 5, 20-38. SciRes. <http://www.scirp.org/journal/ojss>
<http://dx.doi.org/10.4236/ojss.2015.51003>
16. **Abuom, P.O.** Nyambega, L. A and Ouma, G (2014). Effect of *Mavuno* Phosphorus-Based Fertilizer and Manure Application on Maize Grain and Stover Yields in Western Kenya. *Journal of Environment and Earth Science. Vol.4, No.17, 2014.*
17. Nyambega, L. A, Ouma, G, Ofulla V.O A and **Abuom, P.O.** (2014). Effect of *mavuno* phosphorus-based fertilizer and manure application on soil organic carbon and olsen phosphorus in Western Kenya. *International Journal of Innovative Research in Engineering & Scienc. 2014, issue 3 volume 12.*
18. S. O. Adoka, D. N. Anyona, **P. O. Abuom**, G. O. Dida, D. Karanja, J. M. Vulule, T. Okurut, A. S. Matano, S. K. Gichere and A.V. O. Ofulla (2014). Community perceptions of schistosomiasis transmission, prevalence and control in relation to aquatic habitats in the Lake Victoria Basin of Kenya. *East Africa Medical journal vol. 91 no. 7 July 2014*
19. Douglas N. Anyona, **Paul O. Abuom**, Gabriel O. Dida, Frank B. Gelder, Jackson O. Onyuka, Ally-Said Matano, Canisius K. Kanangire⁵, Esna K. Bosire, Boniface O. Oindo, Phillip O. Owuor⁶ and Ayub V. O. Ofulla (2014). Effect of Anthropogenic Activities on Physicochemical Parameters and Benthic Macroinvertebrates of Mara River Tributaries, Kenya. *Merit Research Journal of Environmental Science and Toxicology (ISSN: 2350-2266) Vol. 2(5) pp. 098-109,*
20. Anyona DN, Dida GO, **Abuom PO**, Onyuka JO, Ally-Said M, Kanangire CK, Ofulla AVO (2014): Influence of anthropogenic activities on microbial and nutrient levels along the Mara River tributaries, Kenya. *Eurasia J Biosci* 8: 1-11.
21. Gabriel O. Dida, Frank B. Gelder, Douglas N. Anyona, Ally-Said Matano, **Paul O. Abuom**, Samson O. Adoka, Collins Ouma, Canisius K. Kanangire, Phillip O. Owuor and Ayub V. O. Ofulla, (2014). Distribution and abundance of schistosomiasis and fascioliasis host snails along the Mara River in Kenya and Tanzania. *Infection Ecology and Epidemiology* 2014, 4: 24281 - <http://dx.doi.org/10.3402/iee.v4.24281>
22. Isaiah K. Okuthe, Felix Kioli and **Paul Abuom** (2013): Socio Economic Determinants of the Adoption of Integrated Natural Resource Management Technologies by Small Scale Farmers: Evidence from Western Kenya. *Research Journal of Environmental and Earth Sciences, 5(09): 481-496.*

23. S. O. Adoka, D. N. Anyona, **P. Abuom**, A. S. Matano, S. K. Gichere, T. Okurut, W. O. Opiyo, D. Othoro, J. M. Vulule and A. V. Ofulla (2011): Knowledge and perceptions on malaria and its association with aquatic habitats. *East African Medical Journal* Vol. 88 No. 5 May 2011.
24. Samuel K. Gichere, Geoffrey Olado, Douglas N. Anyona, Ally-Said Matano, Gabriel O. Dida, **Paul O. Abuom**, Jairus Amayi and Ayub V. O. Ofulla (2013): Effects of Drought and Floods on Crop and Animal Losses and Socio-economic Status of Households in the Lake Victoria Basin of Kenya. *Journal of Emerging Trends in Economics and Management Sciences (JETEMS)* 4(1): 31-41
25. ALLY-Said Matano, Douglas N. Anyona, Philip O. Owuor, **Paul O. Abuom**, Gabriel O. Dida, Raphael Kapiyo and Ayub V. O. Ofulla (2013): Effects of Land Use Types on the Levels of Microbial Contamination Based on Total Coliform and *Escherichia coli* counts on the Mara River, East Africa. *African Journal of Tropical Hydrobiology and Fisheries* **13**: 5-11 (2013).
26. Ayub V. Ofulla, Samson O. Adoka, Douglas N. Anyona, **Paul O. Abuom**, Diana Karanja, John M. Vulule, Tom Okurut, Ally-Said Matano, Gabriel O. Dida, Tsuma Jembe and John Gichuki (2013): Spatial distribution and habitat characterization of schistosomiasis host snails in lake and land habitats of western Kenya. *Lakes and Reservoirs: Research and Management* 2013 18: 197–215
27. Kaoga J, Ouma G and **Abuom P** (2013): The effects of farm pesticides on water bird numbers in lake Naivasha, Kenya. *Journal of Environmental Science and Water Resources* Vol. 2(4),
28. Kaoga J, Ouma G and **Abuom P** (2013): Effect of farm pesticides on water quality in Lake Naivasha, Kenya. *Am. J. Plant Physiol.* 10.3923.
29. Isaiah K. Okuthe, Felix Kioli and **Paul Abuom** (2013): Socio Cultural Determinants of the Adoption of Integrated Natural Resource Management Technologies by Small Scale Farmers in Ndhiwa Division, Kenya. *Current Research Journal of Social Sciences* 5(6): 203-218.