

# PROF. BONIFACE OLUOCH OINDO

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P.O. Box 333-40105,  
Maseno, Kenya

## EDUCATION

Doctor of Philosophy,  
University of Wageningen and ITC, Netherlands-1998-2001

Master of Science in Rural Land Ecology Survey,  
International Institute for Geo-information Science and  
Earth Observation(ITC), Netherlands- 1996-1998

Bachelor of Science  
University of Nairobi, 1987-1990

## RESEARCH EXPERIENCE

### POSTGRADUATE SUPERVISION

#### PH.D. DEGREE PROGRAMMES

##### ***Ph.D. in Planning***

1. Factors influencing planning and implementation of male circumcision in HIV prevention in Nyando District, Kenya, by Alfreds F.X.O. Obure , **Graduated in 2009.**
2. The effect of changes in land use characteristics on accessibility in the suburbs of Kisumu City, Kenya, by Moses Kola. **Graduated in 2014.**

##### ***Ph.D. in Environmental Science***

3. Analysis of community participation in the project cycle management of afforestation activities in river Nyando Basin, Kenya, by James N. Maraga, **Graduated in 2011.**
4. Compliance and Enforcement of Environmental policies on natural Resources in Uganda: A case of South Busoga Forest Reserve, by Alphonse Charles Otieno, **Graduated in 2012.**
5. An analysis of socio-demographic and economic determinants for estimating domestic solid waste generation and composition in urban estates in Kisumu City, Kenya, by Jenniffer Vera Atieno, **Graduated in 2018.**
6. Influence of planted riparian buffer vegetation cover and water quality on the benthic macro invertebrate assemblages in Kuyua River, Bungoma County, Kenya, by Joash Oruta, **Graduated in 2018.**

##### ***Ph.D. in Geography***

7. Contribution of Ecosystem services to livelihoods in Kibwezi Sub-county, Makueni County, Kenya, by Irene Nzisa Mutavi, **Graduated in 2016.**

#### MASTERS DEGREE PROGRAMMES

##### ***Master of Science in Urban Environmental Planning and Management***

8. Impact of sand harvesting on the environment in Usoma Beach of Winam Division, Kisumu Municipality, by Sween K.Nyongesa, **Graduated in 2009.**

9. The impacts of unplanned growth of Nyalenda informal settlement on environment and public health, Kisumu Municipality, by Alfred O. Ajulu, **Graduated in 2010.**
10. An assessment of the viability and potential of bamboo micro-enterprises in environmental conservation and poverty alleviation in Nairobi City, Kenya, by Asma Awadh, **Graduated in 2010.**
11. Assessment of community involvement in household solid waste management in the informal settlements of Kisumu Municipality, Kenya, by Stella Kamwasir, **Graduated in 2011.**
12. Assessment of community participation in environmental planning process of Kisumu Airport expansion project, Kisumu Municipality, Kenya, by Long'ora Albert Elim, **Graduated in 2011.**
13. Assessment of the sustainable utilization and management of papyrus (*Cyperus papyrus*) in Dunga wetland, Kisumu Municipality, Kenya, by Wekesa Wafula Amos, **Graduated in 2013.**
14. An assessment of sanitation situation and potential for applying public private partnership in its management in lower Migosi Estate, Kisumu City, Kenya, by Selesah Atieno Okoth, **Graduated in 2013.**

#### ***Master of Science in Environmental Science***

15. An assessment of socio-economic factors influencing electronic waste management in Kisumu Central Business District, Kisumu City, Kenya, by John Odera Jaoko, **Graduated in 2016.**
16. Ecological factors influencing large herbivore distribution in Ruma National Park of Homa Bay County, Kenya, by Lukaria Kanyi Luke, **Graduated in 2016.**

#### ***Master of Arts in Geography***

17. Assessment of the effects of anthropogenic activities on terrestrial biodiversity conservation in Matayos Division of Busia County, Kenya, by Mutavi Irene Nzisa, PG/MA/002/2010, **Graduated in 2012.**
18. Alluvial deposits and their effects on the physical environment and socio-economic activities on the lower course of river Kuja, Nyatike Division, Nyatike District, Kenya by Millicent Anyango Odhiambo, **Graduated in 2012.**
19. Effects of rainfall variability on subsistence crop production in Kahangara Division of Magu District, Tanzania, by Alberto K. Agnes, **Graduated in 2013.**
20. An analysis of domestic water supply and demand in Muleba District, Kagera Region, Tanzania, by Mujwahuki K. Felician, **Graduated in 2013.**
21. Effects of brick making activities on the biophysical and socio-economic environment of Vihiga County, Kenya, by Petronillah Shumila Mutenyi, **Graduated in 2013.**
22. Effects of *epigeal termitaria* physiography on vegetation lifeforms density in Katolo Sub-location, Kisumu County, Kenya, by Wckliffe Agumba Oluoch, **Graduated in 2018**

#### ***Master of Arts in Project Planning and Management***

23. Environmental impacts and challenges associated with Arombo Rice smallholder irrigation scheme in Nyando District, Kenya, by Leopold O. Asawo, **Graduated in 2009.**
24. Millennium village projects and food security in Kenya: A case of Sauri Sub-location in Siaya District, by Miriam T. Mbuvi, **Graduated in 2009.**
25. An assessment of the impact of Community based Organizations projects supported by Plan International in Kisumu West District, Kenya, by Godfrey M. Kigochi, **Graduated in 2012.**
26. The role of rural finance in improving livelihoods of small scale farmers: A case study of SCC-VIA Agroforestry's community saving and empowerment project in Nyando District, Kenya, by Rachel Wangu Mutua, **Graduated in 2012.**
27. Evaluating socio-economic factors that influence poverty reduction among the Fisher Folk in Suba District, Kenya, by Meshack Okoth Makongoso, **Graduated in 2012.**
28. The impact of Government sponsored cash transfer on orphans and vulnerable children in South West Alego Location, Siaya District, Kenya, by Samson Onyango Wambisa, **Graduated in 2012.**

29. The impact of HIV and AIDS on public Primary School Education and it's implication on planning interventions in Rarieda Division, Rarieda District, Kenya, by Odera Walter Okore, **Graduated in 2013.**
30. Socio-economic impact and coping strategies of the integrated internally displaced persons due to the Kenya post election violence of 2007/2008 in Ukwai Division, Siaya County, Kenya, by Elzeba Awando, **Graduated in 2013.**
31. Factors influencing decision by small and medium enterprises managers to adopt information and communication technology in Central Business District, Kisumu City, Kenya, by Rajab Mohammed Mzee, **Graduated in 2013.**
32. The effect of community policing programme on security in Obunga and Nyalenda Informal Settlements in Kisumu City, Kenya, by John Kiprotich Cheruiyot, **Graduated in 2013.**
33. Assessing the social and economic outcomes of the projects funded by Western Kenya community driven development and flood mitigation project in Yiro West Community, Siaya County , Kenya, by Angel Akumu Sewe, **Graduated in 2014.**
- 34.

### ***Master of Arts in Social Development and Management***

35. The role of households in domestic waste management in Nyalenda informal settlement, Kisumu Municipality, Kenya, by Hope Aluoch Okuthe, **Graduated in 2012.**
36. The impact of tobacco farming on household food security in Angurai Division, Busia County, Kenya, by Anne Chepkurui, **Graduated in 2012.**

## **TEACHING EXPERIENCE**

### **November 12<sup>th</sup> 2013– Present**

- Associate Professor in Department of Environmental Science, School of Environment and Earth Sciences, Maseno University.

### **April 1<sup>st</sup> 2009 – November 11<sup>th</sup> 2013**

- Senior Lecturer in Department of Environmental Science, School of Environment and Earth Sciences, Maseno University. Appointed Director of the School from 7<sup>th</sup> June 2012.

### **August 19<sup>th</sup> 2003– March 31<sup>st</sup> 2009**

- Lecturer in Department of Environmental Science, School of Environment and Earth Sciences, Maseno University. Appointed Director of the School from 7<sup>th</sup> June 2012.

## **HONORS AND AWARDS**

- Scholarship Award by NUFFIC FOR MSC 1996
- Scholarship Award by NUFFIC FOR PhD 1998

## **SKILLS AND TRAINING**

12<sup>th</sup> to 16<sup>th</sup> April 1999 Environmental modeling with GIS and Remote Sensing.  
 21<sup>st</sup> to 23<sup>rd</sup> April 1999 Presentation skills for nonnative English speakers.  
 28<sup>th</sup> October to 1<sup>st</sup> November 2002 OSMAG Oil Spill Response  
 21<sup>st</sup> to 22<sup>nd</sup> March 2017 Job Analysis  
 6<sup>th</sup> to 11<sup>th</sup> June 2019 Research Capacity Building

## **LEADERSHIP EXPERIENCE**

### **7<sup>th</sup> June 2012 to present**

- Appointed Dean, School of Environment and Earth Sciences

### **17<sup>th</sup> February 2012 to 7<sup>th</sup> June 2012**

- Appointed Coordinator in Kisumu Campus for the Academic programmes in the School of Environment and Earth Sciences, School of Development and Strategic Studies, and School of Planning and Architecture.

#### 4<sup>th</sup> December 2006 to 7<sup>th</sup> June 2012

- Appointed Chairman, School of Environment and Earth Sciences, Postgraduate Studies Committee.

## CONFERENCES AND WORKSHOPS

23<sup>rd</sup> to 25<sup>th</sup> March Open, Distance and e-Learning

6<sup>th</sup> to 11<sup>th</sup> June 2019 Research Capacity Building

## PUBLICATIONS

1. Oluoch, W.A., **Oindo, B.O.** and Abuom, P. (2017), Effects of Locations On- and Off- Epigeal Termitaria on Vegetation Lifeforms in Katolo Sub-Location of Kisumu County, Kenya. *Scientific Research Journal V(XII)*: 74–83.
2. Oruta, J.N., **Oindo, B.O.** and Bosire, E. (2017), Relationship between water quality indicators and benthic macroinvertebrate assemblages in the Kuywa River, Kenya. *Researchjournal's Journal of Ecology*, 4(1):1–22.
3. Atieno, J.V., **Oindo, B.O.** and Bosire, E. (2017), Modeling Household Solid Waste Generation in Urban Estates Using Socio-Economic and Demographic Data, Kisumu City, Kenya. *Scholars Journal of Arts, Humanities and Social Sciences* 5(5):468-477.
4. Atieno, J.V., **Oindo, B.O.** and Bosire, E. (2017), Effects of Socio-economic and Demographic Factors on Household Solid Waste Generation in Selected Urban Estates in Kisumu City, Kenya. *The international journal of humanities & social studies*, 5(3): 29– 38.
5. Jaoko, J.O., **Oindo, B.O.** and Abuom, P. (2016), Factors Influencing Willingness to Recycle E-Waste in Kisumu City Central Business District, Kenya. *International Journal of Recent Research in Interdisciplinary Sciences*, 3(4): 1–9.
6. Otuoma J., Anyango B., Ouma G., Okeyo D., Muturi G. M. and **Oindo B.** (2016) Determinants of aboveground carbon offset additionality in plantation forests in a moist tropical forest in western Kenya. *Forest Ecology and Management* 365, 61–68.
7. Mutavi, I., **Oindo, B.O.** and Bosire, E. (2015), Influence of Plant Species Richness on Rural Livelihoods in Kibwezi District of Makueni County, Kenya. *The international journal of humanities & social studies*, 3(10): 213– 228.
8. Mutavi, I., **Oindo, B.O.** and Bosire, E. (2015), Influence of Water Availability on Food Crop Production in Semi-Arid Areas in Kibwezi District, Makueni County, Kenya. *Scholars Journal of Arts, Humanities and Social Sciences* 3(8B):1332-1343.
9. Kodiwo, M., **Oindo, B.O.** and Angawa, F. (2014), Intensity of Farmland Cultivated and Soil Bulk Density in Different Physiographic Units in Nyakach District. *IOSR Journal of Humanities and Social Science*, 19(1):86–89.
10. Kodiwo, M., **Oindo, B.O.**, Angawa, F. and Bosire, K.E. (2014), Effects Of Physiographic Units On The Relationship Between Cropping Frequency And Level Of Soil Erosion In Nyakach District, Kenya. *International journal of scientific & technology research*, 3(2): 31–37.
11. Otieno, A.C., Kapiyo, R.A., **Oindo, B.O.** and Buyinza, M. (2012), Local communities and compliance with the forestry policy: Perspective from South Busoga Central Forest Reserve, Muyage District, Eastern Uganda. *Research Journal of Applied Sciences*, 7(8): 397–408.
12. Otieno, A.C., Kapiyo, R.A., **Oindo, B.O.** and Buyinza, M. (2012), Government regulatory system and compliance with forestry policy in South Busoga forest Reserve, Mayuge District, Uganda. *Environmental research Journal*, 6(4): 293–303.
13. Kola, M.O., Onyango, G.M. and **Oindo, B.O.** (2012), The status of public transportation in unplanned suburbs of Kisumu Municipality, Kenya. *International Journal of Arts and Commerce*, 1(1): 14–34.

14. Kola, M.O., Onyango, G.M. and **Oindo, B.O.** (2012), Factors determining land use development in the unplanned suburbs of Kisumu Municipality, Kenya. *International Journal of Arts and Commerce*, 1(1): 35–57.
15. Otieno, A.C., Kapiyo, R.A., **Oindo, B.O.** and Buyinza, M. (2012), Politician and the enforcement of the Uganda forestry policy 2001: Lessons from South Busoga Central Forest Reserve, Mayuge District, Eastern Uganda. *Environmental research Journal*, 6(3): 217–227.
16. Otieno, A.C., Kapiyo, R.A., **Oindo, B.O.** and Buyinza, M. (2012), Uganda National Forestry Authority and enforcement of forestry policy 2001: A case of South Busoga Forest Reserve, Mayuge District, Eastern Uganda. *Environmental research Journal*, 6(3): 206–216.
17. Otieno, A.C., Kapiyo, R.A., **Oindo, B.O.** and Buyinza, M. (2012), Compliance and enforcement of environmental policies on natural resources in Uganda: Perspectives from South Busoga Forest Reserve. *Environmental research Journal*, 6(2): 81–93.
18. Maraga, J.N., Kibwage, J.K., **Oindo, B.O.** and Oyunge, D.O. (2011), Community participation in the project cycle of afforestation projects in River Nyando basin, Kenya. *International Journal of Current Research*, 3(9): 054–059.
19. Obure, A.F.X.O., Nyambedha, E.O. and **Oindo, B.O.** (2011), Interpersonal influences in the scale-up of male circumcision services in a traditionally non-circumcising community in rural western Kenya. *Global Journal of Community Psychology Practice*, 1(3): 1–11. Website: <http://www.gjcpp.org/>
20. Maraga, J.N., Kibwage, J.K. and **Oindo, B.O.** (2010), Factors determining community participation in afforestation projects in River Nyando basin, Kenya. *African Journal of Environmental Science and Technology*, 4(12): 853–859.
21. Obure, A.F.X.O., Nyambedha, E.O., **Oindo, B.O.** and Koderu, H.M.N. (2009), Psychosocial factors influencing promotion of male circumcision for HIV prevention in a non- circumcising community in rural western Kenya. *The Qualitative Report*, 14(4): 666–668.
22. **Oindo, B.O.** (2008), Understanding the relationship between environmental energy availability and Bird species richness in Kenya using remote sensing and ancillary data. *The Open Remote Sensing Journal* 1: 1–6.
23. **Oindo, B.O.** (2008), Predicting mammal species richness from remotely sensed data at different spatial scales. *The Open Remote Sensing Journal* 1: 7–16.
24. Kibwage, J.K. Netondo, G.W., Odondo, A.J. **Oindo, B.O.**, Momanyi, G.M., and Jinhe, F. (2008), Growth performance of bamboo in tobacco-growing regions in South Nyanza, Kenya. *African Journal of Agricultural Research* 3(10):716–724.
25. **Oindo, B.O.**, Skidmore, A.K. and De Salvo P., (2003), Mapping habitat and biological diversity in the Maasai Mara ecosystem. *International Journal of Remote Sensing* 24(5): 1053–1069.
26. **Oindo, B.O.** and Skidmore, A.K. (2002), Interannual variability of NDVI and species richness in Kenya. *International Journal of Remote Sensing* 23(2): 285–298.
27. **Oindo, B.O.** (2002), Predicting mammal species richness and abundance using multi-temporal NDVI. *Photogrammetric Engineering & Remote Sensing* 68(6): 623–629.
28. **Oindo, B.O.** (2002), Body size and measurement of species diversity in large grazing mammals, *African Journal of Ecology* 40: 267–275.
29. **Oindo, B.O.** (2002), Patterns of herbivores species richness and current ecoclimatic stability. *Biodiversity and Conservation* 11:1205–1221.
30. **Oindo, B.O.**, Skidmore, A.K. and Prins, H.H.T. (2001), Body size and abundance relationship: An index of diversity for herbivores. *Biodiversity and Conservation* 10: 1923–1931.
31. **Oindo, B.O.**, deBy R.K., and Skidmore, A.K., (2001), Environmental factors influencing bird species diversity in Kenya, *African Journal of Ecology* 39(3): 295–301.
32. **Oindo, B.O.**, deBy R.K., and Skidmore, A.K., (2000), Interannual variability of NDVI and bird species diversity in Kenya, (*International Journal of Applied Earth Observation & Geoinformation*, Vol. 2-Issue ¾.