

Rosemary Akinyi Owigar

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EDUCATION

PhD (ongoing) Maseno University, School of Environment and Earth Sciences,
Department of Geography and Natural Resource Management .

Master of Philosophy (MPill) in Geography from Moi University, Kenya, 1999.

Bachelor of Education degree (B .Ed Arts) (Second class honors- upper division)
from Kenyatta University, Kenya, 1990.

Kenya Advance Certificate of Education at Kahuhia Girls High School , 1986.

Kenya Secondary Certificate of Education at Lwak Girls High School , 1984.

Certificate of Primary Education at Lwak Girls Primary School ,1980.

RESEARCH EXPERIENCE

Principal Investigator: Vulnerability of the highland communities to climate driven epidemic malaria in the West Kenya highlands (PhD thesis).

Principal Investigator, : Impacts Vulnerability and Adaptation To Climate - Induced Malaria in the west Kenya Highlands.' Funded by International START Secretariat, 2005.

A socio-economist for the project ' Highland Malaria in the West Kenya Highlands, Climate and Human Health Unit, KEMRI Kisumu and University of California (2003-2007).

Social Research Scientist for the project entitled ' Male Circumcision Consortium : Systematic Monitoring of male Circumcision Scale - up (SYMMACS) in Kenya' A project of Family Health International and NASCOP. Funded by USAID. 2011-2012:

A socio-economist in the project 'Arresting lipid oxidation and browning of sundried fish products marketed in western Kenya using low cost fish processing and preservation technologies,' A collaborative research by Maseno University and Masinde Muliro University of Science and Technology, Funded by National Research Fund. 2011

Principal Investigator, Effects of Infant -Feeding Practices On The Health And Nutritional Status of Children In Kakamega And Kisumu Districts (MPhil thesis 1999).

TEACHING EXPERIENCE

1999 to 2020 lecturing at the Department of Geography and Natural Resources Management.

2011 to 2020 Lecturing at the Department of Meteorology, Climate Change and Development

1990 - 1999 Taught (Geography and History) in various High Schools in Kenya.

HONORS AND AWARDS

Awarded Research Grant of Ksh six million for the project entitled “Arresting lipid oxidation and browning of sundried fish products marketed in western Kenya using low cost fish processing and preservation technologies, A project of Maseno University and Masinde Muliro University of Science and Technology, Funded by National Council for Science and Research and Technology.

Awarded Research grant for the PhD Research on Vulnerability of the highlands communities to climate driven Epidemic malaria in the West Kenya highlands.

Awarded a research grant of US10000 By David and Leisley Packward Foundation through System Analysis Research and Training (START) for the project Assessment of vulnerability Impact and Adaptation to malaria in the Western Highlands of Kenya. 2004-2005

SKILLS AND TRAINING

Trainings

A Packard fellow at the Advanced Institute of Vulnerability to Global Environmental Change at the International Institute of Systems Analysis (IIASA) Luxerburg, Austria .www.start.org.2004

Trained in Climate Change Policy, Planning and Budgeting, Kenya School of Government, May 2019

Trained in Climate Finance especially on Green Climate Fund at the National on Climate Finance Workshop, NEPAD and National Treasury of Kenya, Hilton Hotel, Nairobi, 2018

Trained on Weather Information Services at the Workshop on Weather Information Services (WISER) in Western Kenya, 2016.

Trained on Climate - Smart Agriculture and Climate Smart Investment screening: courtesy of World Bank and Ministry of Agriculture , Kisumu Kenya, 2016.

Trained on application of GIS in Public health at the International workshop on Spatial Data Analysis: Applied GIS for Public Health, ICIPE, Nairobi, Kenya. 2005.

Skills

Curriculum Development and Review

Developed a Trans- Disciplinary , Bachelor of Science, Degree Programme in Meteorology , Climate Change and Development, Maseno University

Co- Developed Curriculum on Bachelor of Science Degree Programme in Geography and Natural Resource Management, Maseno University.

Co- Developed the programme Bachelor of Science in Geography and Natural Resources Management

Co- Reviewed the programme Masters in Geography.

Consultancy

Facilitation of Climate change awareness for Kisumu County, 2011- 2019

Contextualization and adaptation of the learning resources developed for the 'make the link- climate ex Change Project'. A Project of Plan International Kenya, May 2011 **Task** - To integrate climate change adaption in Primary and Secondary Schools curriculum in Kenya in the project, 2011

Climate Change Visits - Learning Action by Young People in Areas affected by Climate Change. A project of Plan International Kenya, November-December, 2011 **Task** - To Identify and organize visits for teachers and youth groups to areas affected by climate change in Kisumu district and assist

Workshop Organiser

Workshop organizer for the Experts workshop on Climate Change and Sustainable Renewable Energy. EXCEED-SWINDON and Maseno University, Kisumu, Kenya. 2019

Workshop organizer for the Experts workshop on Sustainable use of Water Resources. EXCEED-SWINDON and Maseno University , Kisumu, Kenya. 2016

Mainstreaming Climate Change in Various Sectors

Mainstreaming of Climate Change in the Second Generation County Integrated Development Plan, Kisumu County , County Government of Kisumu , 2017

Mainstreaming of Climate Change in Primary and Secondary school Curriculum in Kisumu County, A project of Plan International, 2011

Climate Change Policy development

Provided Technical Input and facilitated validations of Kisumu County Climate Change policy, 2020 since 2011.

Validation of Kisumu County Climate Information Services Plan 2018- 2022, 2020, Kenya Meteorological Department and County Government of Kisumu, Parkview Hotel , Kisumu , 2020.

Participant in the workshop on validation of renewable energy policy in Kisumu by Kenya Association of Manufactures , Kisumu , Kenya, 2019

Participant in The Wildlife Climate Change adaptation Strategy Meeting Western Conservation Area, Tom Mboya, Kisumu, 2018

Participant on the Review of Civil Society Organizations (CSOs) contribution to Climate Change Response, National Validation Workshop, 2018

Green Climate Fund (GCF) Proposal Writing

Facilitator , Public Involvement Workshop on Green Climate Fund, (GCF) Proposal Development , Kisumu City, County Government of Kisumu and APHRC ,2019.

Capacity building/ Facilitation in Climate Change Adaptation

Facilitator , Climate Change Awareness in Kisumu County at various levels (wards, sub- county and county), since 2011 and ongoing.

Facilitator, Development of Climate Change Action Plans in Kisumu County, 2018 ongoing.

Evaluation of Learning Resources Materials for the Competency Based Curriculum

Evaluated Learning Resources Materials for Agriculture grade 4 and 5 in 2019 and 2020.

LEADERSHIP EXPERIENCE

A committee member for the re-structuring of University programs from faculties to Schools (School of Environment and Earth Sciences).

Fieldwork Coordinator, Department of Geography and Natural Resources management 2007 -2011.

Exams and Time - Table Coordinator , Department of Meteorology , Climate Change and Development 2012- to 2020

Patron, Outreach Student Union, Ministry of Repentance and Holiness, Maseno University 2012 to 2020.

A Representative of the Academia and Research Institutions in The Kisumu County Climate Change working Group

Chairperson, Sub - Committee, Mainstreaming Climate Change Kisumu County

Climate Change Working Group.

Co-opted member, in the Public Service Board , Kisumu County, for the establishment of human resource for the Directorate of Green Energy and Climate Change.2017.

A member of the Board Of Management, Obwolo Secondary School 2006 - 2009

A member Of Board Of Management , Burkina High School 2017—2020

CONFERENCES AND WORKSHOPS

2017 : Facilitator , in the Stakeholders Meeting of the Kisumu County Climate Change Policy Development , Vic Hotel Kisumu

2017: Facilitator , in the National Workshop of the Meteorological Society of Kenya, Kisumu , Kenya.

2016 : Participant in a training workshop on Weather Information Service (WISER) in Western Kenya.

2016 : Participant in a training workshop on validation of renewable energy policy in Kisumu by Kenya Association of Manufactures , Kisumu , Kenya.

2015 : Participant in the workshop on Environment for Development - Research and Policy workshop , Nairobi , Kenya

2007 : A presentation on Climate change and health Research in Developing Countries' Methodological Approaches of Assessing Impacts of climate variability on vector- borne diseases in Africa '. IDRC sessions, Mexico .www.idrc.ca. Sponsored by IDRC

2006 : A presentation on "Climate variability and Malaria Epidemics in the West Kenya highlands at 2nd International Conference of the Earth Science System Partnership, Beijing, China. www.essp.org/essp2006. Sponsored by World Meteorological Organization

2005: A participant at a workshop on Capacity Strengthening In the Least Developed Countries for Adaptation to Climate Change (CLACC), Sunset Hotel , Kisumu. Kenya.
[http://www.iied.org/climate change pubs.html](http://www.iied.org/climate%20change%20pubs.html).

2005: Participate at a follow-up workshop on Global Environmental Changes with Emphasis on Climate Change, Sponsored By START at TERI , New Delhi, India.www.dsds.terii.org

2005: A presentation on the socio-economic factors influencing malaria in the west Kenya highlands, Workshop on the Ecology of highland malaria, Sunset Hotel Kisumu, .

2005 : A participant at the International workshop on Spatial Data Analysis: Applied GIS for Public Health, ICIPE, Nairobi, Kenya.

2004 : Participated in a Workshop on the Lake Victoria Environmental Outlook Organized by UNEP and Pan-African START secretariat at Imperial hotel Kisumu.

PUBLICATIONS

1. Paul .Orina, David M. Onyango, Henry Lung'ayia,, Andrew Oduor, Antony W.Sifuna,, Petronila Otuya, **Rosemary Owigar**, Chripine Kowenje, Sheban .M.Hinzano : Water Quality of selected fishing beaches of lake Victoria Kenyan Gulf in Open **Journal of Ecology**, 2020
2. David Onyango Sifuna A .W. Otuya P, **Owigar Rosemary**, Kowenje, C.Lung'ayia H,B. Oduor Andrew. Evaluation of Fish processing and preservation Systems along the shores of lake victoria : Towards Enhancement of Sun Drying Technologies in International Journal of Food Science and Nutrition Engineering 2017
3. David Onyango, John Nyirima, Tonny Busisa, Antony Wawire Sifuna, Nelson Nyamuyenga, Petronila Otuya, **Rosemary Owigar** Chripine Kowenje, Andrew Oduor and Henry Lung'ayia. Evaluation of the Effectiveness of Rastriniobola argrntea Sundrying Process Practices Along the shores of lake Victoria in food and Public Health, 2015
4. **Owigar, RA**, Ang'awa F., Githeko, AK 2012 . Perception of the highland communities On Climate Change And Malaria Epidemics In The West Kenya Highlands, in **Risk and Africa : Multi- Disiplinary Empirical approaches** (Eds) Lena Bloemaert, Martin, D ,Elisio M and Detlef M . Bayreuth University Press, Bayreuth, Germany. ISBN No978-3-643-90157-