

## PROF. HARUN OKELLO OGINDO

Applied Plant Sciences  
 Maseno University, Kisumu-Busia Road  
 P.O. Box 333-40105,  
 Maseno, Kenya

Phone: +254-723 527 833

**Email:** Maseno Email and alternative



### EDUCATION

Institution[Date from – Date to]	Degree(s) or Diploma(s) or Certificates obtained:
Chemelil Primary School (-to 1971)	Certificate of Primary Education
Nyabondo High School (1972-1976)	East African Certificate of Education
Maseno National High School (1977-1978)	East African Certificate of Advanced Education
University of Nairobi (Kenya) (1979-1983)	B.Sc (Agriculture)
Cranfield (UK) (1989-1990)	M.Sc (Land & Water Mgt)
University of the Free State (RSA) (2000-2003)	PhD (Agrometeorology)

### RESEARCH EXPERIENCE

20 years of research experience and postgraduate student supervision

### TEACHING EXPERIENCE

25 years of teaching experience at University level

### HONORS AND AWARDS

- **2016-2018: ESRC/DFID funded project:** Governing Food Systems to Alleviate Poverty in Secondary Cities in Africa (Kisumu, Kitwe and Cape Town). The project was Branded as “ Consuming Urban Poverty: Food Systems Planning and Governance in Africa’s Secondary Cities” of “CUP” (Part of multi-institutional and multidisciplinary team).
- **2013-2016:** CGIAR Research programme on Climate Change, Agriculture and Food Security Project CCAFS/EA/2013.003 entitled “**Enhancing climate smart agriculture in Nyando through innovative partnerships, decision support tools and climate information services**” (**Project participant and leader**).
- **Dec 7-18, 2009** International Institute for Economic Development (IIED), the United Kingdom: award to attend Climate Change Conference in Copenhagen, Denmark
- **June 22-24, 2009** Global Environmental Change and Human Security (GECHS), University of Oslo, Norway: Award to attend conference and present research findings on Climate Change Adaptation in Northern Kenya (Turkana and Mandera Districts).

## CURRICULUM VITAE

- **Jan 2008- Jan 2010** International Development Research Centre (Canada)/Climate Change Adaptation in Africa programme (IDRC/CCAA) Research Funds Award for project “*Enhancing Adaptive Capacity of Pastoralists to Climate Change Induced Vulnerability in Northern Kenya*”. Project Grant No. 104752.
- **Jan. 2002 - 2005:** Water Research Fund for Southern Africa. Research funds award for project on Water Use for Intercropping Systems within the Semi-arid area of Southern Africa while based at the University of the Free State, Republic of South Africa
- **Jun-Sep., 1995:** Belgian Development Co-operation Funding for training on Computer Applications in Water Resources Engineering..
- **Sep. 1989:** European Union Funding for MSc training in the UK.
- **Aug-Sep 1986:** Netherlands Development Co-operation Funding for training on Rural Extension Methods.

### PROFESSIONAL MEMBERSHIP

- Membership in Crop Production Society, Agrometeorology Society

### SKILLS AND TRAINING

Country	Date from – Date to
Katholieke University, Belgium	<i>Certificate course in Computer Applications in Water Resources Engineering Irrigation and Drainage software applications (Katholieke University, Belgium).</i>
Wageningen, the Netherlands).	Certificate Course in Rural Extension (Wageningen, the Netherlands).
Nairobi, Kenya	Modelling Application in Climate Change (PRECIS Regional Climate Model) – IGAD Climate Prediction & Application Centre (ICPAC), Dagoretti, Kenya

### LEADERSHIP EXPERIENCE

**2014-2020: Departmental Head**

**2014- 2020: Church/Community leadership**

### CONFERENCES AND WORKSHOPS

- OBANDO, J, H. OGINDO. W. OTIENO, A MACHARIA, J. ENSOR, W. TUMUISING, E. KISIANGANI, L. MUCHIRI AND N. AMOLLO**, 2011 *Ecological Factors Contributing to Vulnerability of Pastoralist Communities to Climate Change in Northern Kenya pp75-90*, in Ouge, N.O., E. Omolo, and C. Lumosi, eds. 2011. Climate Change and Natural Resource use in Eastern Africa: Impacts, Adaptation and Mitigation. Proceedings of the 3rd Scientific Conference of the Ecological Society for Eastern Africa. Ecological Society for Eastern Africa, Regal Press, Nairobi, Kenya, 421 pp.
- OBANDO, J., H. OGINDO. W. OTIENO, A., MACHARIA, J., ENSOR, W., TUMUISING, E., KISIANGANI, L., MUCHIRI & N. AMOLLO**, 2011 “*Developing climate change scenarios for Turkana and Mandera districts of Northern Kenya*”, Lake and Catchment Research Symposium, Kenyatta University Conference Centre, Nairobi, Kenya, March 14-18, 2011
- OBANDO, J., H. OGINDO. W. OTIENO, A MACHARIA, J. ENSOR, W. TUMUISING, E. KISIANGANI, L. MUCHIRI & N. AMOLLO**, 2010 “*Reducing vulnerability of Pastoralists communities to climate change and variability in Northern Kenya*”, International Conference: Climate, Sustainability and Development in Semi Arid Regions, ICID, August 16th -20th, Fortaleza, State of Ceara, Brazil.
- OBANDO, J., H. OGINDO. W. OTIENO, A MACHARIA, J. ENSOR, W. TUMUISING, E. KISIANGANI, L. MUCHIRI & N. AMOLLO**, 2010 “*Reducing vulnerability of Pastoralists communities to climate change*

## CURRICULUM VITAE

- and variability in Northern Kenya*”, International Conference: Climate, Sustainability and Development in Semi Arid Regions, Pre conference Event, 9th – 10th June 2010, Nairobi, Kenya
- e. **OBANDO, J. H. OGINDO. W. OTIENO, A MACHARIA, J. ENSOR, W.TUMUISING, E. KISIANGANI, L. MUCHIRI &N. AMOLLO**, 2010 “Ecological factors contributing to vulnerability of pastoralist communities to climate change in Northern Kenya”, *Paper presented at the Ecological Society of East Africa*, 19th –21st May 2010, MultiMedia University, Nairobi Kenya
- f. **OGINDO HARUN, OTIENO WELLINGTON, OBANDO JOY, OLUKOYE GODFREY, MACHARIA AYUB, ENSOR JONATHAN, AKINYI NANCY, KISIANGANI ERIC & MUCHIRI LYDIA, 2009**. Climate Change Drives *Harun Ogindo CV, April 2012 Page 8* Pastoralists from pastures to deeper poverty. Presentation Soros group sponsored by IIED at the Copenhagen Climate Conference from 8th – 16th December 2009.
- g. **OGINDO HARUN, OTIENO WELLINGTON, OBANDO JOY, OLUKOYE GODFREY, MACHARIA AYUB, ENSOR JONATHAN, AKINYI NANCY, KISIANGANI ERIC & MUCHIRI LYDIA, 2009**. An assessment of drought induced vulnerability of the Turkana pastoralist community livelihoods in northern Kenya and its ability to cope with climate change. WaterNet Conference Theme: Water, Land and Society: Sustainability, Climate Change and Livelihoods. 10<sup>th</sup> WaterNet/WARFSA/GWP SYMPOSIUM Held on 28th-30th October, Entebbe, Uganda.
- h. **OGINDO HARUN, OTIENO WELLINGTON, OBANDO JOY, OLUKOYE GODFREY, MACHARIA AYUB, ENSOR JONATHAN, AKINYI NANCY, KISIANGANI ERIC & MUCHIRI LYDIA, 2009**. Are current livelihoods and coping strategies in northern Kenya viable and sustainable in light of Global Environmental Change? Human Security in an Synthesis Conference, June 22-24, 2009, University of Oslo, Norway.
- i. **MACHARIA AYUB, OTIENO WELLINGTON, OGINDO HARUN, OBANDO JOY, OLUKOYE GODFREY, ENSOR JONATHAN, TUMISING WILLIE, AKINYI NANCY, KISIANGANI ERIC & MUCHIRI LYDIA, 2009**. Policies Driving Adaptation to Climate Change Among Pastoralist Communities in Northern Kenya. Human Security in an Synthesis Conference, June 22-24, 2009, University of Oslo, Norway.
- j. **JULIUS HUHO & OGINDO HARUN, 2009**. Impact of drought on small scale farming livelihoods in Central Division, Laikipia District. December, 2009. Naivasha, Kenya.
- k. **WALKER, S, OGINDO, H.O., TSUBO, M., 2004**. Quantifying risk for maize-bean intercrop production on two ecotopes in Zimbabwe and South Africa. 5<sup>TH</sup> WATERNET/WARFSA Annual Symposium, November 2nd -4th, 2004, Windhoek, Namibia.
- l. **OGINDO HO & WALKER, S, 2004**. Comparison of measured changes in seasonal soil water content by rainfed maize-bean intercrop and component cropping systems in a semi-arid region of southern Africa. 5TH WATERNET/WARFSA Annual Symposium, November 2nd -4th, 2004, Windhoek, Namibia.
- m. **OGINDO HO & WALKER, S, 2004**. Long-term risk assessment for yields using a maize and bean intercrop simulation model on three ecotopes within the SADC region. South African Society of Crop Production Annual Congress, held in Bloemfontein, South Africa from 20-22 January, 2004.
- n. **OGINDO, H.O & WALKER, S, 2003**. The Estimation of Water Extraction by a Maize-bean Intercrop and its Sole Crop Components in a Semi-arid Region. 6<sup>th</sup> Biennial Conference of the African Crop Science Society, October 12-17th 2003, Nairobi, Kenya.
- o. **WALKER, S & OGINDO, H.O, 2003**. The determination of transpiration efficiency coefficient for common bean on a weighing lysimeter. 4th WATERNET/WARFSA Annual Symposium, 15-17th October 2003, Gaborone, Botswana.
- p. **OGINDO, H.O & WALKER, S, 2003**. The comparison of soil water extraction by an additive maize-bean intercrop and its sole crop components within a semi-arid ecotope. 4th WATERNET/WARFSA Annual Symposium, 15-17th October 2003, Gaborone, Botswana.
- q. **OGINDO, H.O & WALKER, S, 2003**. Quantification of maize and bean intercrop water use within a semi-arid region of Southern Africa. Paper presented at the SYMPOSIUM ON WATER CONSERVATION TECHNOLOGIES FOR SUSTAINABLE DRYLAND AGRICULTURE IN SUB-SAHARAN AFRICA, held at Bloem Spa, Bloemfontein, 8-11 April, 2003.
- r. **WALKER, S., TEFUHUENEY, W.A., OGINDO, H.O & TSUBO, M., 2003**. Maize leaf expansion rate and leaf temperature. Combined Conferences for South African Crop Production, Soil Science and Horticultural Sciences, 20-23 January 2003, University of Stellenbosch, Cape Town.

## CURRICULUM VITAE

- s. **OGINDO, H.O., WALKER, S. & TSUBO, M., 2003.** Plant Availability Water Extraction by a Maize and Bean intercrop system. Combined Conferences for South African Crop Production, Soil Science and Horticultural Sciences, 20-23 January 2003, University of Stellenbosch, Cape Town.
- t. **TSUBO, M., WALKER, S. & OGINDO, H.O., 2003.** Modelling canopy radiation transmission of cereal legume intercropping. Combined Conferences for South African Crop Production, Soil Science and Horticultural Sciences, University of Stellenbosch, Cape Town.
- u. **WALKER, S & OGINDO, H.O. 2002.** The water budget of rainfed maize and bean intercrop. 3rd WATERNET/WARFSA Annual Symposium, held in Dar-es-salaam, Tanzania. **OGINDO, H.O. & WALKER, S. 2002.** The Application of Crop Specific coefficients to evaluate water use in a maize-bean intercropping system. Paper presented to South African Crop Production Congress, held in Pietermaritzburg, South Africa.
- v. **WALKER, S., OGINDO, H O. & HENSLEY, M. 2001.** Measurement of a transpiration efficiency coefficient for common beans using a lysimeter. ASA,CSSA & SSSA 2001, Annual Meetings, October 21-25, Charlotte, NC, USA.
- w. **VAN DEN BERG, W.J., KOONJAH, S.S., ABRAHA W., OGINDO, H O. & MANLEY, E. 2001.** Hail frequencies in South Africa. SSSSA, SACP & SAWSS Joint Congress, 2001, 16-18 January, 2001, Pretoria, South Africa.

### PUBLICATIONS (peer reviewed)

- a) **MUSUYA, D.M., OPALA, P.A. & OGINDO, H.O., 2019.** Nitrogen sources and their effects on nitrous oxide emission and maize yield in western Kenya. *Ethiopian Journal of Environmental Studies and Management* 12(4): 410 – 419, 2019.
- b) **ODHIAMBO,C.O., OGINDO,H.O., WASIKE, C.B., OCHOLA, W.O., 2019.** Adaptation of Smallholder Dairy Farmers in South Western Kenya to the Effects of Climate Change .*Atmospheric and Climate Sciences* Vol.9 No.3, 456-478.
- c) **GEORGE GODWIN WAGAH, NELSON OBANGE & HARUN OKELLO OGINDO, 2018.** Food Poverty in Kisumu, Kenya, Kenya. In: Jane Battersby and Vanessa Watson; *Urban Food Systems Governance and Poverty in African Cities*, pp. 223. Routledge Studies in Food, Society and Environment, 2 Park Square, Milton Park, Abingdon, Oxon OX14 4RN.
- d) **PAUL OTIENO OPIYO & HARUN OKELLO OGINDO, 2018.** The characteristics of urban food system in Kisumu, Kenya. In: Jane Battersby and Vanessa Watson; *Urban Food Systems Governance and Poverty in African Cities*, pp. 182. Routledge Studies in Food, Society and Environment, 2 Park Square, Milton Park, Abingdon, Oxon OX14 4RN.
- e) **JOYCE A.OBUOYO, CHARLES O.OCHOLA & HARUN OGINDO. 2016.** Livestock for Household Food Security- A Case Study of Small Scale Mixed Farmers in Semi-Arid Nyakach, Kenya. *International Journal of Livestock Research*.Vol. 6 (1): 57-67. DOI 10.5455/ijlr.20151129022328
- f) **GEORGE. K'OTUTO, DENNIS. O. OTIENO, JOHN C.ONYANGO & HARUN O. OGINDO. 2014,** Seasonal dynamics in carbon dioxide fluxes of the herbaceous layer of a moist Kenyan Savanna. *Applied Ecology and Environmental Research*, 12(1):63-82.
- g) **G.O.K'OTUTO, D.O.OTIENO, B.SEO, H.O. OGINDO & J.C. ONYANGO. 2013,** Carbon dioxide exchange and biomass productivity of the herbaceous layer of a managed tropical humid savanna ecosystem in western Kenya. *Journal of Ecology* vol.6, No.4: 286-297.
- h) **HUHO, J.M., NGAIRA, J. K. W & OGINDO, H. O. 2011,** Living with drought: The case of the Maasai pastoralists of northern Kenya. *Education Research Journal*, Vol 2(1), pp. 779-789.
- i) **HUHO, J.M., NGAIRA, J. K. W & OGINDO, H. O. 2010,** Drought severity and their effects on rural livelihoods in Laikipia district, Kenya. *Journal of Geography and Regional Planning* Vol. 3(3), pp. 035-043
- j) **HUHO, J., NGAIRA, J.K.W. & OGINDO, H.O., 2009.** Climate Change and Pastoral Economy in Kenya: A Blinking Future. *Acta Geologica Sinica* (English Edition), Vol. 83: 1017-1083.
- k) **TSUBO, M., OGINDO, H.O, DINGAAN, 2009.** Determination of daily radiation interception in semi-arid intercropping system. *Discovery and Innovation* Vol 21:94-103

## CURRICULUM VITAE

- l) **OGINDO, H.O. & WALKER, S., 2005.** Comparison of measured changes in seasonal soil water content by rain-fed maize-bean intercrop and component cropping systems in a semi-arid region of southern Africa. *Physics and Chemistry of the Earth* **30**: 799-808.
- m) **TSUBO, M., WALKER, S. & OGINDO, H.O., 2005.** A simulation model of cereal legume intercropping systems for semi-arid regions I. Model development. *Field Crop Research* **93**:10-22.
- n) **TSUBO, M., WALKER, S. & OGINDO, H.O., 2005.** A simulation model of cereal legume intercropping systems for semi-arid regions II. Model application. *Field Crop Research* **93**: 23-33.
- o) **TSUBO, M., OGINDO, H.O. & WALKER, S., 2004.** Yield evaluation of maize-bean intercropping in semi-arid region of South Africa. *African Crop Science Journal* **12**: 351-358.
- p) **OGINDO, H.O & WALKER, S., 2004.** The Determination of Transpiration Efficiency Coefficient for Common Bean. *Physics and Chemistry of the Earth* **29**: 1083-1089.
- q) **OGINDO, H.O. & WALKER, S., 2003.** The estimation of soil water extraction by maize-bean intercrop and its sole crop components in a semi-arid region. *African Crop Science Journal* **6**: 430-435.
- r) **TSUBO, M., MUKHALA, E., OGINDO, H.O. & WALKER, S., 2003.** Productivity of maize-bean intercropping in a semi-arid region of South Africa. *Water SA* **29**, 381-388. 2003.
- s) **WALKER, S & OGINDO, H.O., 2003.** The water budget of rain fed maize and bean intercrop. *Physics and Chemistry of the Earth* **28**: 919-926.
- t) **OGINDO, H.O & WALKER, S, 2003.** Quantification and evaluation of a maize and bean intercrop water use within a semi-arid region of Southern Africa. WATER CONSERVATION TECHNOLOGIES FOR SUSTAINABLE DRYLAND AGRICULTURE IN SUB-SAHARAN AFRICA SYMPOSIUM, pg 118-126. (ISBN 1-86849-275-3)
- u) **OGINDO, H.O., 2003.** Comparing the Precipitation Use Efficiency of maize-bean intercropping with sole cropping in a semi-arid ecotone, PhD. Thesis. University of the Free State, Bloemfontein, South Africa.

### STUDENT SUPERVISION

- i. Effect of nitrogen sources on maize (*Zeamays*) productivity, nitrogen use efficiency and greenhouse gas emission in two agroclimatic zones in Western Kenya MSc Thesis by David Masika Musuya - PG/AF/00001/2012 (**Graduated 2017**)
- ii. Evaluation of Seasonal Evaporation, Rainfall Use Efficiency and Water Extraction Limits by Nerica 4 Rice Variety Grown under different field management practices by Wabwile Electine Nakhone - PG/MA/6047/2011, (**Defended: May 2016**)
- iii. Determination of water use efficiency in maize-legume based integrated soil fertility management systems in different soil types in western Kenya, MSc Thesis by Osieyo Samuel Murunga – MSC/AF/00014/2014 (**Ongoing – submitted for examination 2018**)
- iv. The influence of Agricultural Landuse practices on Food Security in Semi-arid Agroecological zones of Nyakach Sub County, Kisumu County, Kenya, a PhD Thesis by Obuoyo Joyce Atieno - PG/PHD/059/2006 (**Graduated 2017**)
- v. Determinants of Adaptive Strategies of Smallholder Dairy Farmers to Climate Change in Migori County, Kenya: PhD theses by Charles Okech Odhiambo – PHD/AF/00131/2013 (**On going –write up stage**)
- vi. Effect of soil water availability on the growth and yield of African Nightshades (*Solanum scabrum*) by Jomo Oscar Mbera (MSc Candidate, Maseno University, Faculty of Science, Botany Department, PG/MSc/063/2010-**Graduated 2013**)
- vii. Effects of Land Use Systems on Carbon Dynamics under Savanna Conditions of Lambwe Valley, Kenya (PhD by George K’Otuto, Maseno University Dept of Horticulture-**Graduated 2013**)
- viii. Effects of drought on subsistence agriculture in semi-arid areas of Laikipia District, Kenya (PhD by Julius Huho, Maseno University Department of Geography – **Graduated December 2011**)