



THE TECHNICAL UNIVERSITY OF KENYA

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NAME: PROF LUKE OMONDI OLANG

Faculty:	ENGINEERING AND THE BUILT ENVIRONMENT
School:	CHEMICAL AND BIOLOGICAL SYSTEMS ENGINEERING
Department:	BIOSYSTEMS AND ENVIRONMENTAL ENGINEERING
Current Designation:	Associate Professor, SCHOOL OF CHEMICAL AND BIOLOGICAL SYSTEMS ENGINEERING (SCBE)
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Consultation Hours:	8AM-5PM MON - FRI



EDUCATION

LEVEL	QUALIFICATION NAME	INSTITUTION	YEAR
Doctor of Philosophy (PhD)	Hydrology & Water Resources	University of Natural Resources and Life Sciences, Vienna(Austria)	2009
Masters of Science (M.Sc.)	Water & Environmental Engineering	Egerton University(Kenya)	2004
Postgraduate Diploma	Groundwater Resources & Management	The Hebrew University of Jerusalem (Israel)	2003
Bachelor of Science (BSc)	Agricultural Engineering	Egerton University(Kenya)	2001

WORK EXPERIENCE

PERIOD	INSTITUTION	POSITION
2021 - To date	Technical University of Kenya	Associate Professor
2015 - 2021	Technical University of Kenya	Senior Lecturer and Researcher
2010 - 2015	Kenyatta University	Lecturer and Researcher
2009 - 2015	IGAD-ICPAC	Associate Research Scientist
2005 - 2010	Egerton University	Assistant Lecturer
2004 - 2005	Amiran Kenya Limited	Associate Irrigation Design Engineer

SELECTED PUBLICATIONS

TITLE	LINK TO PUBLICATION	YEAR
<p>Luke Omondi Olang, Peter Kundu, Thomas Bauer, Josef Fürst (2011). Analysis of spatio-temporal land cover changes for hydrological impact assessment within the Nyando River Basin of Kenya. <i>Journal of Environmental Monitoring and Assessment</i> (Springerlink), 179 (1-4): 389 – 401.</p>	<p>View online</p>	
<p>Oloo F. O., Olang L., and Strobl J. (2015). Spatial modelling of solar energy potential in Kenya. <i>International Journal of Sustainable Energy Planning</i>, 06: 17-30. http://dx.doi.org/10.5278/ijsepm.2015.6.3</p>	<p>View online</p>	
<p>Justin Sheffield, Eric F. Wood, Nathaniel Chaney, Kaiyu Guan, Sara Sadri, Xing Yuan, Luke Olang, Abou Amani, Abdou Ali, and Siegfried Demuth (2014). A Drought Monitoring and Forecasting System for Sub-Saharan African Water Resources and Food Security. <i>Bulletin of the American Meteorological Society</i>. 95 (6), 862-882.</p>	<p>View online</p>	
<p>Muriithi Z., Ako E., Kiplagat J., Olang L. (2014). Assessment of land cover changes in Lake Olbolosat region of the central Kenyan highlands using Landsat satellite imagery aided by indigenous knowledge. <i>Journal of Biodiversity Management and Forestry</i>, 2:2.</p>	<p>View online</p>	
<p>L. O. Olang, P. M. Kundu, G. Ouma, J. Fürst (2014). Impacts of Land Cover Change Scenarios on Storm Runoff Generation: A Basis for Management of the Nyando Basin, Kenya. <i>Land Degradation and Development</i>, 25(3), 267-277.</p>	<p>View online</p>	
<p>Luke Omondi Olang, Peter Kundu, Thomas Bauer, Josef Fürst (2011). Analysis of spatio-temporal land cover changes for hydrological impact assessment within the Nyando River Basin of Kenya. <i>Journal of Environmental Monitoring and Assessment</i> (Springerlink), 179 (1-4): 389 – 401.</p>	<p>View online</p>	
<p>L. O. Olang and J. Fürst. (2011). Effects of land cover change on runoff peak discharges and volumes - model estimates for the Nyando basin, Kenya. <i>Hydrological Processes</i>, 25: 80-89.</p>	<p>View online</p>	
<p>Luke Omondi Olang and Peter Musula Kundu (2011). Deforestation and land degradation of the Mau Forest Complex in Eastern Africa: a review for conservation and restoration purposes. <i>Environmental Monitoring</i> (pp 245 – 262). Edited by Ema O. Ekundayo. ISBN 978-953-307-724-6 . InTech Publishers, Croatia.</p>	<p>View online</p>	
<p>Luke O. Olang, Peter Kundu, Thomas Bauer, Josef Fürst (2010). "Assessing Spatio-temporal Land Cover Changes within the Nyando River Basin of Kenya using Landsat Satellite Data Aided by Community Based Mapping: A case Study". <i>Proceeding of the Geoinformatics Forum Salzburg</i> (6th - 9th July, 2010, Salzburg Austria). In: <i>Geospatial Crossroads: GI_Forum '10</i>. Eds Car A., Griesebner G. and Strobl J.</p>	<p>View online</p>	
<p>Olang, Luke Omondi; Kundu, Peter; Bauer, Thomas; Fürst, Josef (2009). Impact of Land cover change on flood runoff characteristics of the headwater sub catchments of the Nyando River basin, Kenya. <i>Proceedings of the 12th Biennial Conference of Euro-Mediterranean Network of Experimental and Representative Basins (ERB)</i>. In: <i>Hydrological extremes in small basins - International Hydrological Programme (IHP) of the United Nations Educational, Scientific and Cultural Organization (UNESCO)</i>. Eds: Chelmicki W. and Siwel J. No 84: pp 165-170.</p>	<p>View online</p>	
<p>Benard Juma, Luke O. Olang, Mohammed Hassan, Stanley Chasia, Vera Bukachi, Paul Shiundu, Joe Mulligan (2020). Analysis of rainfall extremes in the Ngong River Basin of Kenya: Towards integrated urban flood risk management. <i>Physics and Chemistry of the Earth</i>. Doi: https://doi.org/10.1016/j.pce.2020.102929</p>	<p>View online</p>	
<p>Omonge, Paul & Herrnegger, Mathew & Gathuru, Gladys & Fürst, Josef & Olang, Luke. (2020). Impact of development and management options on water resources of the upper Mara River Basin of Kenya. <i>Water and Environment Journal</i>. Doi: 10.1111/wej.12554.</p>	<p>View online</p>	
<p>Wekesa, Sospeter & Stigter, Tibor & Olang, Luke & Oloo, Francis & Fouchy, Kelly & McClain, Michael. (2020). Water Flow Behavior and Storage Potential of the Semi-Arid Ephemeral River System in the Mara Basin of Kenya. <i>Frontiers in Environmental Science</i>. 8. 95. https://doi.org/10.3389/fenvs.2020.00095.</p>	<p>View online</p>	
<p>Joe Mulligan, Vera Bukachi, Rodoula Gregoriou, Nilani Venn, Duncan Ker-Reid, Alan Travers, Bernard Juma, Luke O. Olang (2019). Participatory Flood Modelling for Negotiation and Planning in Urban Informal Settlements. <i>Proceedings of the Institution of Civil Engineers - Engineering Sustainability</i>. Doi:10.1680/jensu.17.00020</p>	<p>View online</p>	
<p>Jully O. Ouma, Luke O. Olang, Gilbert O. Ouma, Christopher Oludhe, Laban Ogallo, Guleid Artan (2018). Magnitudes of Climate Variability and Changes over the Arid and Semi-Arid Lands of Kenya between 1961 and 2013 Period. <i>American Journal of Climate Change</i>, 7, 27-39. https://doi.org/10.4236/ajcc.2018.71004</p>	<p>View online</p>	
<p>Gilbert O. Ouma, Amadou M. Dieye, Laban O. Ogallo & Luke O. Olang (2017). Institutional challenges in scaling-up climate change adaptation actions: experiences from rural communities in Senegal and Kenya. <i>Climate and Development</i>, 1-10. https://doi.org/10.1080/17565529.2017.1372261</p>	<p>View online</p>	
<p>Luke O Olang, Mathew Herrnegger, Doris Wimmer, Josef Fürst (2017). A Spatial Database of Hydrological and Water Resources Information for the Nyangores Watershed of Kenya. In: <i>Hydrology and Best Practices for Managing Water Resources in Arid and Semi-Arid Lands</i>. IGI Global, USA</p>	<p>View online</p>	

PROFESSIONAL AFFILIATIONS AND SOCIETIES

TITLE INSTITUTION

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