

**WESLEY KIPKEMOI KIRUI**

Nationality: Kenyan  
 Marital status: Married  
 Date of Birth: 17-09-1978  
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**Education**

<b>Institution (Date from to)</b>	<b>Degree (s) and Certificates obtained</b>
China Agricultural University 2012 - 2015	Ph.D. Agricultural Engineering (Specialised in Wastewater Treatment using Eco-friendly Technologies)
Egerton University 2004 - 2008	MSc. Agricultural Engineering (Specialised in Soil, Water and Environmental Engineering)
Egerton University 1997 - 2003	BSc. Agricultural Engineering (Specialised in Soil, Water and Environmental Engineering)
Londiani Mixed Sec. School 1992 - 1995	KCSE (Grade B Plain)
Kapsigirio Primary School 1983 -1991	KCPE (63 points)

**Field of Specialisation**

Soil, Water and Environmental Engineering Watershed Management and Wastewater Management
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**Membership of Professional Bodies**

1	Engineer's Registration Board
2	Kenya Society of Environmental, Biological and Agricultural Engineers

**Board Membership**

Year	Institution
2019	Chepseon Vocational Training Institute, Kericho County
2019	Ainamoi Secondary School
2019	Laliat Secondary School

**Work and Professional Experience**

<b>Date (From to)</b>	<b>Institution</b>	<b>Position</b>	<b>Responsibility</b>
2018 November – to date	Kenyatta University	Exam Coordinator	Deals with all exam issues in the Department of Agricultural and Bio-systems Engineering

2015 - to date	Kenyatta University	Lecturer	Teaching and Research
2012 - 2015	China Agricultural University	Research Fellow	Graduate Research Assistant in Key Bio-Energy and Low carbon Laboratory (Assisting in research and training MSc. And BSc. Students)
2012	Egerton University and South Eastern University College	Part Time Lecturer	Teaching and Research
2011	Egerton University and Kabianga Campus	Part Time Lecturer	Teaching and Research
2010	Egerton University and Moi University	Part Time Lecturer	Teaching and Research
2009	Egerton University and Kabianga Campus, Constituent College of Moi University	Part Time Lecturer	Teaching and Research
Aug - Sept 2009	Kenya National Bureau of Statistics	Senior Supervisor	Supervising census exercise
2005 - 2008	Egerton University	Graduate Assistant	Teaching and supervising practicals
Nov 17-22 2005	Electoral Commission of Kenya	Polling/Counting Clerk	Assisting voters and counting of votes
Nov - Dec. 2002	James Finlay Company Kenya	Apprentice	Repair of farm machines: Tractors and farm implements

### Scientific Articles Published in Refereed Journals

2020	Omosa, I. B., Oonge, Z. I., <b>Kirui, W. K.</b> Proposed Catchment Conservation Plan in Community Water Supply in Kenya: The Case of Mbumbuni Water Scheme. <i>Journal of Engineering in Agriculture and the Environment</i> , 6 (1), 28 - 40.
2019	Agnes W. Macharia, Wesley K. Kirui., Isaiah Omosa. Evaluation of Potential Physico-Chemical Ground Water Pollution: a Case Study of Kiwanja Market, Kenya. <i>International Journal of Advance Engineering and Research Development</i> , 6 (09), 97 - 102.
2016	<b>Wesley K. Kirui.</b> , Shubiao Wu., Simon Kizito., Pedro N. Carvalho., Renjie Dong. Pathways of Nitrobenzene Degradation in Horizontal Subsurface Flow Constructed Wetlands: Effect of Intermittent Aeration and Glucose Addition. <i>Journal of Environmental Management</i> , 166, 38 - 44.
2015	<b>Wesley K. Kirui.</b> , Shubiao Wu., Lei Ming., Renjie Dong. Nitrobenzene Degradation Pathways and their Interaction with Sulphur and Nitrogen Transformations in Horizontal Subsurface Flow Constructed Wetlands. <i>Ecological Engineering</i> , 84, 77 - 83.
2015	Simon Kizito., Shubiao Wu., <b>W. Kipkemoi Kirui.</b> , Ming Lei., Qimin Lu., Hamidoh Bah., Renjie Dong. Evaluation of slow Pyrolyzed Wood and Rice Husks Biochar for Adsorption of Ammonium Nitrogen from Piggery Manure Anaerobic Digestate Slurry. <i>Science of the Total Environment</i> , 505, 102 - 112.
2015	Shubiao Wu., Scott Wallace., Hans Brix., Peter Kusch., <b>Wesley Kipkemoi Kirui.</b> , Fabio Masi, Renjie Dong. Treatment of Industrial Effluents in Constructed Wetlands: Challenges, Operational Strategies and Overall Performance. <i>Environmental Pollution</i> , 201, 107 - 120.
2015	Hanifa Mohamed Yusuf., Philip D. Daninga., Li Xiaoyun., <b>Wesley Kipkemoi Kirui.</b> , Mohammad Ammad Khan. Climate Change Impacts on Fishing in Coastal Rural Tanzania. <i>Journal of Environment and Earth Science</i> , 5 (10), 30 - 40.
2015	Loua Kokoly Augustin., Adam H. Yagoob., <b>Wesley Kipkemoi Kirui.</b> , Yang Peiling. Optimal

	Irrigation Scheduling for Summer Maize Crop: Based on GIS and CROPWAT Application in Hetao District; Inner Mongolia Autonomous Region, China. <i>Journal of Biological Agriculture and Healthcare</i> , 5, (18), 95 - 102.
2014	<b>Kirui W. K.</b> , and Mutua B. M. Simulation of Catchment Hydrologic Response under Changing Land Use: Case of upper Molo Catchment Kenya. <i>European International Journal of Applied Science and Technology</i> , 1 (4), 1 - 25.

### Scientific Articles under Review

2021	<b>Wesley K. Kirui.</b> , Isaiah B. Omosa. A Review of Wastewater Treatment in Kenya: Need for Reuse and Way Forward. Under review for Re-Submission to <i>Journal of Water Reuse and Desalination</i> .
2021	Sharon Kimatui., <b>Wesley K. Kirui</b> . Effects of Point Source Pollution on Athi River Water Quality, Kenya. Under review.
2021	Francis Oloo., Luke Olang., Godwin Murithi., Charlyne Jepkosgei., Sospeter Wekesa., Robert Wayumba., <b>Wesley Kirui</b> . Assessment of Perception on Land Degradation Drivers and their Influence on Food, Water and Livelihood Security in Olkeriai Dryland River Catchment, Kajiado, Kenya
2021	Francis Oloo., Luke Olang., <b>Wesley Kirui.</b> , Godwin Murithi., Sospeter Wekesa., Purity Kiunga. Soil Erosion Susceptibility Mapping Using Stakeholder's Perceptions in Olkeriai River Catchment, Kajiado, Kenya.
2021	MaryJosphine., <b>Wesley K. Kirui</b> and John Nyaguti. Performance Evaluation of Locally Made Irrigation Sprinklers in Kibirigwi Irrigation Scheme, Kenya. In preparation.

### Ongoing Research Activities

Funding Agency	Title of Research
National Research Fund	Drought Early Warning Systems for Drought Risk Management in Kenya
BRecCIA	Predicting Water and Food Security in Dryland Regions of Kenya from Spatio-temporal Trends of Rainfall-induced Processes
UNESCO Chair KU HEDGES	KU Hedges Technical Working Group for the Baseline Assessment Kenyatta University

### INTERNATIONAL CONFERENCE

October 2014	14 <sup>th</sup> IWA International Conference, Wetland System for Water Pollution Control- Shanghai, China.
September 2010	Fifth Annual Research Conference Week and International Conference – Egerton University.
September 2009	Fourth Annual Research Conference Week and International Conference - Egerton University.

### OTHER TRAINING

13-17 <sup>th</sup> Feb 2017	KU Geographic Information Systems Mentorship
28 <sup>th</sup> September 2016	Intellectual Property Workshop
10 <sup>th</sup> – 30 <sup>th</sup> October	Ecological Civilization and Climate Change
4 <sup>th</sup> – 9 <sup>th</sup> March 2013	Designing of Constructed Wetlands for Water Pollution Control
October 2011	Information and Communication Technology (Foundation level)
9 <sup>th</sup> – 11 <sup>th</sup> March 2011	Pedagogy & Academic Advising

