

CURRICULUM VITAE

I. NAME AND ADDRESS

1.	Name	Edward Musungu Mugalavai, PhD
2.	Position	Senior Lecturer
3.	Address	Masinde Muliro University of Science & Technology, School of Disaster Management and Humanitarian assistance (SDMHA), Disaster Management and Sustainable Development Department (DMSD), Email: mugamus@yahoo.com ; emugalavai@mmust.ac.ke P.O. BOX 190-50100 Kakamega.



II. BRIEF Resume' (Dr. Mugalavai)

Dr Edward M. Mugalavai is an Environmental Earth Scientist. He is a senior lecturer and Coordinator Greening Initiative of Masinde Muliro University of Science and Technology (MMUST). He is the Editor-in-Chief of the International Journal of Disaster Management and Risk Reduction (IJDMRR). He formerly served as Chair Department of Disaster Management and Sustainable Development of MMUST. He holds a PhD in Environmental Earth Sciences with over 16 years teaching experience at University level. He has been instrumental on curriculum review and development for his department with keen interest on enhancing competencies and skills in disaster risk reduction. He has carried out extensive research on environmental issues biased to climatology, disaster risk reduction, and climate change and food security. He has successfully participated in funded local and external research projects in his capacity as PI and/or Co-PI and delivered on donor requirements. His research outputs are centred on strengthening communities in building resilience and adaptation to climate change. He has mentored many postgraduate (MSc. and PhD) and undergraduate students through supervision of theses and/or projects. He has also examined many MSc. and PhD theses. He is a licensed Lead Expert in Environmental and Social Impact Assessment (ESIA) and Environmental Audit (EA) with the National Environment Management Authority, Kenya (NEMA-Kenya) and has been involved in numerous projects including World Bank funded projects in western Kenya. He is also a member of Ecological Society for Eastern Africa (ECSEA), Association of Disaster Management and Conflict Resolution of Kenya (ADMCRK) and the Environmental Institute of Kenya (EIK). His current focus is to engage more in actionable research that empowers communities to solve local problems collaboratively using indigenous solutions. He is registered under the following links:

Researchgate: https://www.researchgate.net/profile/Edward_Mugalavai;

ORCID: <https://orcid.org/0000-0001-5289-8180>; Researcher ID: [AAH-8980-2021](https://orcid.org/0000-0001-5289-8180);

Scopus ID: [16309932900](https://orcid.org/0000-0001-5289-8180); Google Scholar: <https://scholar.google.com/citations?hl=en&user=xM8UKFcAAAAJ>

III. BIODATA

1.	Date of Birth	11 th , June, 1966
2.	Place of Birth	Kakamega County
3.	Marital Status	Married with four children
4.	Religious Affiliation	Christian

IV. EDUCATION

University	1.	2013	PhD, Environmental Earth Sciences	University of Eldoret
	2.	2007	M.Phil, Environmental Earth Sciences	Moi University, Eldoret
	3.	2003	BA, Geography	Moi University, Eldoret
Tertiary Level	4.	1997	WMO Class II, Diploma	IMTR, Nairobi
	5.	1989	WMO Class IV, Certificate	IMTR, Nairobi
	6.	1988	Surveying Certificate	Survey of Kenya, Nairobi

V. THESES/DISSERTATION TOPICS

1.	PhD	Seasonal and Spatial Assessment of Agro-Climatic Parameters for Maize Crop Farming: Case of Lake Victoria Basin, Kenya
2.	M.Phil	A Study of Rainfall Characteristics in a Rainfed Agricultural Establishment: Case Study of the Kenyan Lake Victoria Basin Region
3.	BA (Geography)	Climatological Analysis for Maize Crop Production under Rainfed Agriculture: A Case Study of Kakamega District, Kenya

VI. RESEARCH INTERESTS

1.	Climatology
2.	Climate Change Adaptation
3.	Agricultural Meteorology
4.	Food Security
5.	Disaster Management

VII. WORK EXPERIENCE

1.	Senior Lecturer, (April, 2021 to Date)	Masinde Muliro University of Science and Technology Department: Disaster Management and Sustainable Development (DMSD)
2.	Lecturer, (June, 2011 to April, 2021)	<p>Masinde Muliro University of Science and Technology Department: Disaster Management and Sustainable Development (DMSD)</p> <p>Teaching Courses:</p> <p>Undergraduate: Earth History and Evolution; Human and Physical Geography; Minerals, Rocks and Soils; Man and Environment; Climatological Aspects of Disaster Management; Global Warming and Climate Change; Ecosystem Management and Conservation; Environmental Law and Policy; Environmental Impact Assessment; Technological Forecasting and Management.</p> <p>Postgraduate: Climate Change Science & Global Perspectives; Research Methods; Environmental Health, Water and Sanitation.</p>

3.	Assistant Lecturer, (September, 2008 to May, 2011)	Maseno University, School of Environment and Earth Sciences: Department of Earth Science Teaching Courses: Undergraduate: <i>Introduction to Earth Science Systems; Surveying I; Atmospheric Science; Physical Oceanography; Wastewater Treatment Systems; Research Methods; Management of Irrigation Systems; Climate Change and Water Resources.</i>
4.	Meteorological Technologist, (1999 to August 2008)	Moi University, School of Environmental Studies (<i>OIC Moi University Meteorological Station</i>).
5.	Meteorological Assistant (Jan 1990-1999)	Moi University, School of Environmental Studies
6.	Meteorological Assistant (1989-1990)	Ministry of Transport and Communications: Kenya Meteorological Department-KMD

VIII. RESEARCH / PROJECTS (ATTRACTED RESEARCH FUNDS)

1.	Ongoing	Conducting a study on: Socio-Ecological Determinants of Gender Based Violence and Resilience in Turkana County, Kenya. University Research Funds (URF) Team Members: Prof. Kennedy Bota (PI); Mr. Kaleb Mwendwa (Co-PI); Dr. Edward Mugalavai (Researcher) ; Dr. Caroline S. Wekullo (Researcher); Mr. Ronald Michieka (Researcher)
2.	Completed (2024)	Influence of Climate Change on Human Security within the L. Victoria Basin, Kenya (2022)- University Research Funds (URF) Team Members: Prof. Edward Neyole (PI); Prof. Frank Matanga; Prof. Josephine Ngaira; Dr. Ferdinand Nabiswa; Dr. Edward Masibayi; Dr. Edward Mugalavai
3.	Completed 2022	MMUST and LEAD-SEA (Malawi) involved in Large Research Project (LRP) entitled “Understanding Spatial characteristics, socio-economic effects and opportunities of <i>Prosopis juliflora</i> and other invasive plant species in drylands of Africa” within the larger BRECCIA Project which was led by the University of Southampton (“UoS”) (2021-2022); <i>Fund, grant number NE/P021093/1-(2019-2022)-Amount awarded GBP 22,154.00</i> Team Members: Kaleb A. Mwendwa, Dr. Edward Mugalavai , Dr. Humphrey Agevi and Dr. Daniel Naburi
4.	Completed (2022)	“Trends in climate variability, land use change, watershed governance and implications on food security in the dryland of Suam River Basin, West Pokot County, Kenya”. ‘ <i>This work is funded through the Building Research Capacity for sustainable water and food security in drylands of sub-saharan Africa</i> ’ (BRECCIA) which is supported by UK Research and Innovation as

		<p><i>part of the Global Challenges Research Fund, grant number NE/P021093/1-(2019-2022)-Amount 15,000 GBP.</i></p> <p>Team Members: Namenya Daniel Naburi - Masinde Muliro University of Science and Technology, Kenya• John Obiri - Masinde Muliro University of Science and Technology, Kenya• Edward Mugalavai - Masinde Muliro University of Science and Technology, Kenya• Chengxiu Li – University of Southampton, UK• Daniela Anghileri - University of Southampton, UK• Sospeter Wekesa – Technical University of Kenya• Oscar Kambombe - University of Malawi.</p>
5.	Completed (2022)	<p>Determining the Nexus between Covid 19 Pandemic and Teenage Pregnancies in Selected Counties of Western Region, Kenya. University Research Funds (URF).</p> <p>Team Members: Dr. Edward Mugalavai (PI); Dr. Ferdinand Nabiswa (Co-PI); Dr. Ruth Simiyu (Co-PI); & Mr. Odhiambo Canon (Graduate Student Researcher-MSc.)</p>
6.	Completed (2022)	<p>Assessment of the Impact of Covid-19 Pandemic on Food Security within the four Counties of Western region, Kenya. University Research Funds (URF).</p> <p>Team Members: Prof. Frank Matanga (PI); Dr. Ferdinand Nabiswa (Co-PI); Dr. Edward Mugalavai (Co-PI); Rev. Dr. Elijah S. Odhiambo (Co-PI); Mr. Peter Otsianda (Graduate student researcher-MSc.)</p>
7.	Done 11-12 October 2022 (Funds mobilization)	<p>On behalf of MMUST, I chaired the Committee that organized the 8th National symposium on Disaster Risk Reduction and the International Day for Disaster Risk Reduction (IDDRR) 2022 on; Presentation: <i>The role of Masinde Muliro University in advancing Disaster Risk Reduction (DRR) in Kenya (By Dr. Edward Mugalavai-MMUST): The event generated income for the University by Mobilizing Kes. 2,325,000</i> as payment of meals for the National Symposium on Disaster Risk Reduction Symposium 11-12 October 2022</p>
8.	2011-2016 (Reports submitted to NIB & NACOSTI)	<p>Conducted a study on ‘<i>Water Management for Agricultural and Drinking use in Western Kenya Rice Irrigation Schemes</i>’ funded by Ministry of Higher Education, Science and Technology through the National Council for Science and Technology’s (NCST) 3rd Competitive Science, Technology and Innovation Grant.</p>
9.	2009-2010	<p>Conducted a one year research titled ‘<i>Integration of Indigenous Knowledge Systems in Adapting to Climate Change and Enhancing Food Security in the Rift Valley, Kenya</i>’ funded by International START Secretariat, through US National Science Foundation (GEO-0627839 “Capacity Building for Global Change”).</p>
10.	2008-2010	<p>Conducted a two year research titled ‘<i>Simulation of rainfall onset, cessation and length of growing season for enhanced agricultural productivity in</i></p>

		<i>western Kenya</i> ’ under the sub-theme-Information Communication Technology for Water Resource Management and funded by the Commission for Higher Education, Kenya
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IX. RESEARCH/TECHNICAL REPORTS

1.	Emmanuel C. Kipkorir, Charles K. Songok, Edward M. Mugalavai (2016). Weather and Crop Modeling for Improved Agricultural Planning at Unilever Tea Kenya Limited, Kericho. Prepared for Unilever Tea Kenya Limited, Kericho (July, 2016).
2.	Emmanuel C. Kipkorir, Edward M. Mugalavai , Charles K. Songok, Phaniel, O. W. Webi, Fatuma Daudi, Kipkorir K. G. Kiptoo, Laban K. Lagat (2016). Up-scaling system of rice intensification to farmers fields using farmers field schools (FFS) approach in western Kenya. Submitted to NIB and NACOSTI, pp 25.
3.	Emmanuel C. Kipkorir, Edward M. Mugalavai , Charles K. Songok, Phaniel, O. W. Webi, Fatuma Daudi, Kipkorir K. G. Kiptoo, Laban K. Lagat (2012). Adapting System of Rice Intensification in West Kenya Irrigation Schemes. Pp 49.
4.	Emmanuel C. Kipkorir, Edward M. Mugalavai , Charles K. Songok, Phaniel, O. W. Webi, Fatuma Daudi, Kipkorir K. G. Kiptoo, Laban K. Lagat (2012). Bio-filter construction guide: affordable point of use drinking water treatment method; Western Kenya Rice Irrigation Schemes, pp 25.
5.	Emmanuel C. Kipkorir, Edward M. Mugalavai , Charles K. Songok, Phaniel, O. W. Webi, Fatuma Daudi, Kipkorir K. G. Kiptoo, Laban K. Lagat (2012). Rice productivity, water and sanitation baseline report. Western Kenya Rice Irrigation Schemes (January, 2012), pp 47.
6.	Emmanuel C. Kipkorir, Edward M. Mugalavai , Ben N. Mwasi (2011). Integrating indigenous and scientific knowledge systems on onset of growing season prediction and utilization in western Kenya Farmers; Training Manual (February, 2011).
7.	E.C., Kipkorir, C.K., Songok and E.M. Mugalavai (2010). Integration of indigenous knowledge systems in adapting to climate change and enhancing food security in nandi and keiyo communities, Kenya (July, 2010), pp 46.
8.	E. C., Kipkorir, E.M. Mugalavai and Dirk Raes (2009). Simulation of rainfall onset, cessation and length of growing season for enhanced agricultural productivity in western Kenya; Sub-Theme- Information Communication Technology for Water Resource Management (March, 2009).

X. PEER REVIEWED PUBLICATIONS

1.	Mugalavai, E. M. (2025). Leveraging dry spells analysis to mitigate climate change risks on maize crop farming in Lake Victoria Basin, Kenya. <i>African Quarterly Social Science Review</i> , 2(2), 270–284. https://doi.org/10.51867/AQSSR.2.2.23
2.	Edward M. Mugalavai , Ferdinand M. Nabiswa, Ruth N. Simiyu, Canon O. Omondi (2025). Factors that Influenced Increase in Teenage Pregnancy of Girls Aged between (10-19) years During the Covid-19 Pandemic: A Comparative Study of Kakamega and Bungoma Counties, Kenya. <i>African Journal of Empirical Research</i> , 6 (2) 2025, pp. 412-420 https://ajernet.net .
3	Ogenga, J. O., Ngaira, J. K. W., & Mugalavai, E. M. (2025). Beyond corrective? An assessment of compensatory disaster risk management approach for food security in the context of climate change in Siaya County, Kenya. <i>African Quarterly Social Science Review</i> , 2(2), 285–293. https://doi.org/10.51867/AQSSR.2.2.24

4.	Noah Eledi Kiguhi, Wekulo Saidi Fwamba, Edward M. Mugalavai (2025). Impacts of Rainfall Variability on Maize Production in Tongaren Sub- County, Bungoma County, Kenya. <i>African Journal of Empirical Research</i> , 6 (1) 2025, pp. 295-313, https://ajernet.net
5.	Dennis O. Otwor, Edward M. Mugalavai , Samuel S. China (2024). Influence of Climate Variability on Food Security in Nyamira County, Kenya. <i>Journal of the Kenya National Commission for UNESCO</i> , Kenya National Commission for UNESCO is ISO 9001:2015 Certified, 2958-7999, Vol. 5 (1) 2024, https://doi.org/10.62049/jkncu.v5i1.163 .
6.	Dennis O. Otwor, Edward M. Mugalavai , Samuel S. China (2024). Assessing Climate-Smart Agriculture Practices for Enhanced Food Security in Nyamira County, Kenya: A Scientific Perspective. <i>Journal of the Kenya National Commission for UNESCO</i> , Kenya National Commission for UNESCO is ISO 9001:2015 Certified, 2958-7999, Vol. 5 (1) 2024 https://doi.org/10.62049/jkncu.v5i1.161 .
7.	BK Mwendwa, EM Mugalavai , SS China (2024). Assessing the Impact of Land Fragmentation on Agricultural Productivity and Rural Development in Vihiga County, Kenya, <i>African Journal of Empirical Research</i> , Vol. 5 (Iss. 3) 2024, pp. 1339-1350, https://ajernet.net .
8.	Mudekhere, Stephen Muchaki, Mugalavai, Edward Musungu , Nabiswa, Ferdinand Makhanu (2024). Nexus between Indigenous Knowledge Systems and Adaptation to Climate Change Strategies by Farmers in Kajiado County, Kenya. Vol. 5 (Iss. 2) 2024, pp. 843-858 <i>African Journal of Empirical Research</i> , https://ajernet.net ISSN 2709-2607.
9.	Douglas Atamba Miima, Edward Musungu Mugalavai , Jacob W. Wakhungu (2023). Freshwater Aquaculture and Household Performance in Busia County, Kenya. Vol. 4 (2) 2023, pp. 1071-1081, <i>African Journal of Empirical Research</i> https://ajernet.net , ISSN 2709-2607
10.	Stephen Muchaki Mudekhere, Edward Musungu Mugalavai , Ferdinand M. Nabiswa (2023). Indigenous knowledge factors influencing farmers' uptake of climate change adaptation strategies in Kajiado County, Kenya. <i>Journal of Water and Climate Change</i> . DOI: https://doi.org/10.2166/wcc.2023.025
11.	Agnes Kalekye Kithiki, Edward Musungu Mugalavai , Samuel Soita China (2023). Assessing the Level of Community Resilience to Drought in Kitui County, Kenya, <i>International Journal of Disaster Response and Emergency Management (IJDREM)</i> , Volume 6 • Issue 1, http://creativecommons.org/licenses/by/4.0/ , DOI: 10.4018/IJDREM.335480
12.	Agnes K. Kithiki, Edward M. Mugalavai & Samuel S. China (2023). Evaluation of Strategic Options for Enhancing Community Resilience to Drought in Kitui County, Kenya. <i>The Cradle of Knowledge: African Journal of Educational and Social Science Research</i> Volume 11, No.4 ISSN 2304-2885-p, 2617-7315-e https://dx.doi.org/10.4314/ajessr.v11i4 .
13.	Mogaito, S.M., Mugalavai, E.M. , Muyekho, E.N., (2023). Policy and financing interventions supporting community managed drought resilience strategies. A case of Marsabit County, Kenya. <i>Nairobi Journal of Humanities and Social Sciences</i> , 7(2), https://doi.org/10.58256/xaaf4r74 .
14.	Opilo Betty Nasambu and Edward Mugalavai (2023). Strategies for Mitigating Flood Risks in Western Region, Kenya. <i>African Journal of Empirical Research</i> , Vol. 4 (Iss. 2) 2023, pp. 1063-1070, https://ajernet.net . ISSN 2709-2607
15.	Lolemtum J.T, C.K. K. Gachene, A. A. Ali, E.M. Mugalavai and Willy Kiplagat (2023). Impacts of Climate Change on Pastoralist Livestock Production System in West Pokot County, Kenya. <i>International Journal of Research and innovation in social science (IJRISS)</i> ISSN No. 2454-6186 Doi: 10.477721 IJRISS, www.rsisinternational.org , Volume VII Issue 1 January 2023.
16.	Namenya Daniel Naburi, Edward M. Mugalavai , Kaleb Mwendwa, Gilbert Ouma, Clinton Ouma. (2022). Dryland Pastoralism Climate Landscape and Food Security in the Suam River

	Basin of Kenya. <i>American Journal of Climate Change</i> , 2022, 11, 173-196 https://www.scirp.org/journal/ajcc ISSN Online: 2167-9509 ISSN Print: 2167-9495.
17.	Mutie Aaron Kimeu, Stanley Oluchiri Omuterema, Edward M. Mugalavai (2022). Effects of Heavy Metals on Water Quality along Kenya Pipeline in Makueni County, Kenya. <i>International Journal of Scientific Research and Innovative Technology</i> Vol. 9 No. 2; September 2022, 9-21.
18.	Wekesa Jackline, Mutai Charles, Obiri John, Mugalavai Edward . (2021). Influence of Knowledge, Attitudes and Practices on Breast Cancer Early Detection. <i>International Journal of Medical Science and Clinical Invention</i> 8 (11): 5753-5760, 2021 DOI:10.18535/ijmsci/v8i11.03 https://valleyinternational.net/index.php/ijmsc .
19.	Mneria Nelson Kiplangat, Edward M. Mugalavai , Silvery B. B. Oteng'I (2021). Human Factors Influencing Management of Aircraft Fire Disasters at International Airports in Kenya. <i>International Journal of Scientific Research and Innovative Technology</i> Vol. 8 No. 7; September 2021, 33-46.
20.	James M. Oketch, Edward M. Mugalavai and Nicodemus O. Nyandiko (2021). Determinants of Water-funded Projects in Mitigating Water Risks in Vihiga County, Kenya. <i>International Journal of Pathogen Research</i> 6(3): 15-26, 2021; Article no.IJPR.65729 ISSN: 2582-3876.
21.	Namenya Daniel Naburi, John Obiri, Edward Mugalavai (2020). Watershed Governance for Food Security in the Sio River Basin: A Paradox of Kenya's Devolution System. <i>Budapest International Research and Critics Institute (BIRCI-Journal) Humanities and Social Sciences</i> · September 2020, DOI: 10.33258/birci.v3i3.1226, 2465-2478.
22.	Joseph T. Lolemtum, Edward M. Mugalavai and Moses L. Atupamoi (2020). Using Indigenous Knowledge for Drought Management and Weather Predictions in West Pokot County, Kenya. <i>IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT)</i> e-ISSN: 2319-2402,p- ISSN: 2319-2399.Volume 14, Issue 8 Ser. I (August 2020), PP 53-61 www.iosrjournals.org .
23.	Maurice Manyonge Pepela, Ferdinand Nabiswa and Edward Mugalavai (2019). Household Indigenous Drought Coping and Adaptation Strategies in Baringo County, Kenya. <i>Asian Journal of Environment & Ecology</i> , 10(4): 1-9, 2019; Article. AJEE.52017 ISSN: 2456-690X.
24.	Maurice Manyonge Pepela, Ferdinand Nabiswa and Edward Mugalavai (2019). Livelihoods Vulnerability to Climate Change Among Households in Baringo County, Kenya. <i>International Journal of Disaster Response and Emergency Management</i> , Volume 2 • Issue 2 • July-December 2019, 51-63.
25.	Maurice Manyonge Pepela, Edward Mugalavai and Ferdinand Nabiswa (2019). Household Vulnerability to Climate Change among the Residents of Baringo County, Kenya. <i>International Journal of Innovative Research & Development</i> , ISSN 2278 – 0211 (Online) Doi No. : 10.24940/ijird/2019/v8/i9/SEP19045, 220-229.
26.	Adan Abass Tawane, Edward Musungu Mugalavai (2019). Household Level of Preparedness to Climate Change in Mandera County, Kenya. <i>American Journal of Earth Sciences</i> , 2019; 6(2): 36-63; http://www.openscienceonline.com/journal/ajes , ISSN: 2381-4624 (Print); ISSN: 2381-4632 (Online)
27.	Otwori Dennis Otwor , Stanley Oluchiri Omuterema, Edward M. Mugalavai (2019). Energy Saving Strategies for Enhanced Efficiency among Urban Households in Kakamega, Kenya. <i>International Journal of Scientific Research and Innovative Technology</i> , Vol. 6 No. 8; September 2019; 47-61.

28.	Japheth. O. Ogenga and Edward. M. Mugalavai (2019). Evaluation of the Mitigation Strategies for Dry Spell impacts on Livestock Production in Homa Bay County, Kenya. <i>International Journal of Scientific and Research Publications</i> , Volume 9, Issue 9, September 2019 162 ISSN 2250-3153; 162-166.
29.	Moses Edapal Nawoton, Ferdinand Nabiswa, Edward Mugalavai (2019). Strategies Supporting Institutionalization of Cash and Voucher Initiatives in Humanitarian Responses in Turkana County, Kenya. <i>International Journal of Innovative Research & Development</i> , DOI No. : 10.24940/ijird/2019/v8/i11/NOV19022, Vol 8 Issue 11, 124-131.
30.	Godfrey Engor, Ferdinand Nabiswa, Edward Mugalavai (2019). Evaluation of Effectiveness of Early Recovery Strategies in Use against Drought in Turkana Central Sub County, Kenya. <i>International Journal of Innovative Research & Development</i> , DOI No. : 10.24940/ijird/2019/v8/i11/NOV19002, Vol 8 Issue 11, 1-7
31.	Francis Kamau Muthoni, Vincent Omondi Odongo, Justus Ochieng, Edward M. Mugalavai , Sixbert Kajumula Mourice, Irmgard Hoesche-Zeledon, Mulundu Mwila, Mateete Bekunda (2018). Long-term spatial-temporal trends and variability of rainfall over Eastern and Southern Africa. <i>Theoretical and Applied Climatology</i> : https://doi.org/10.1007/s00704-018-2712-1
32.	Namenya Daniel Naburi, Edward M. Mugalavai and John F. Obiri (2018). Determinants of Watershed Governance and Food Security among Households' In the Lower Sio River Watershed, Busia County, Kenya. <i>International Journal of Agriculture, Environment and Bioresearch Vol. 3, No. 05; 2018 ISSN: 2456-8643</i> , 184-209.
33.	Adan Abass Tawane, Edward M. Mugalavai (2018). Evaluation of Mitigation Strategies for Climate Change Adaptation in Mandera County, Kenya. <i>Int J S Res Sci. Tech.</i> 2018 July-August-201; 4(9): 163-184.
34.	Namenya Daniel Naburi; John F. Obiri; Edward M. Mugalavai (2018). Households' Perceptions on Rural Watershed Governance and Food Security in the Lower Sio River Watershed, Busia County, Kenya. <i>International Journal of Agriculture and Environmental Research</i> ISSN: 2455-6939 Volume: 04, Issue: 04 "July-August 2018", 952-976.
35.	Japheth O. Ogenga, Edward M. Mugalavai and Nicodemus O. Nyandiko (2018). Impact of Rainfall Variability on Food production under Rainfed Agriculture in Homa Bay County, Kenya. <i>International Journal of Scientific and Research Publications</i> , Volume 8, Issue 8, August 2018 857 ISSN 2250-3153; 857-879.
36.	Kennedy O. Ongeko, Edward M. Mugalavai and John F. Obiri. (2017). Evaluation of Community Adaptation to Climate Change in Homa Bay County Kenya. <i>International Journal of Scientific and Research Publications</i> , Volume 7, Issue 8, August 2017 452 ISSN 2250-3153: 680-688
37.	Silas O. Rakama, and John F. Obiri and Edward M. Mugalavai (2017). Evaluation of land use change pattern of Kajulu-Riat hill peri-urban area near Kisumu City Kenya. <i>International Journal of Scientific Research and Innovative Technology</i> ISSN: 2313-3759 Vol. 4No. 7: July 2017: 42-52
38.	Joseph T. Lolemtum, Edward M. Mugalavai and John A. Obiri (2017). Impact of Drought on Food Security in West Pokot County, Kenya. <i>International Journal of Scientific and Research Publications</i> , Volume 7, Issue 6, June 2017 742 ISSN 2250-3153: 742-750.
39.	Silas O. Rakama, Edward M. Mugalavai and John F. Obiri (2017). An Evaluation of Conservation Strategies on Plant Biodiversity in a Peri-Urban Set-Up of Kajulu-Riat Hill, Kisumu City, Kenya. <i>International Journal of Scientific and Research Publications</i> , Volume 7, Issue 7, July 2017 452 ISSN 2250-3153: 452-462

40.	Cyrus Asena, Edward M. Mugalavai and Nicodemus O. Nyandiko (2017). Enhancing Farmers Resilience to Climate Variability through Agroforestry Practices in Vihiga Sub-county, Kenya. <i>International Journal of Scientific Research and Innovative Technology</i> ISSN: 2313-3759 Vol. 4No. 7: July 2017: 74-88
41.	Edward M. Mugalavai and Emmanuel C. Kipkorir (2015). Robust method for estimating grain yield in western Kenya during the growing seasons. <i>Journal of Water and Climate Change</i> , 6 (2) : 313-324.
42.	Edward M. Mugalavai and Emmanuel C. Kipkorir (2013). Assessing the Potential of Maize Growing Seasons for Western Kenya Using Agro-Climatic Indices. <i>International Journal of Disaster Management and Risk Reduction (IJDMRR)</i> , 5 (1) : 53-73.
43.	Kipkorir, E.C., Mugalavai, E. M. , and Songok, C.K. (2012). Integrating Indigenous and Scientific Knowledge Systems on Seasonal Rainfall Characteristics Prediction and Utilization, <i>Kenya J. Sci. Tech. Inn.</i> 2 : 19-29.
44.	Cheserek, G.J., Kipkorir E.C., Mugalavai E.M. , and Songok C.K. (2012). Analysis of Drinking Water Access and Sanitation Levels of Irrigation Rice Producing Households in Western Kenya. <i>Journal of Emerging Trends in Engineering and Applied Sciences (JETEAS)</i> 3 (3) : 531-539
45.	Cheserek G.J. Kipkorir E.C., Webi P.O.W., Daudi F. Kiptoo K.K.G., Mugalavai E.M. , Kiplagat L.K, and Songok C.K. (2012). Assessment of Farmers Challenges with Rice Productivity in Selected Irrigation Schemes, Western Kenya. <i>International Journal of Current Research</i> 4 (8) , pp.025-033.
46.	Julius M. Huho and Edward M. Mugalavai . (2010). The effects of droughts on food security in Kenya. <i>The International Journal of Climate Change; Impacts and Responses</i> . 2(2) 62-72.
47.	Edward M. Mugalavai , Emmanuel C. Kipkorir, Dirk Raes, Manchiraju S. Rao (2008): Analysis of Rainfall Onset, Cessation and Length of growing season for western Kenya. <i>Agricultural and Forest Meteorology</i> , 148 : 1123-1135.
48.	Edward M. Mugalavai , Emmanuel C. Kipkorir, Manchiraju S. Rao, Stanley O. Omuterema. (2008): Evaluation of criteria for use in determining growing season onset dates in the Kenyan Lake Victoria Basin: <i>International Journal for Disaster Management and Risk Reduction (IJDMRR)</i> 1(2) 87-106.
49.	Emmanuel C. Kipkorir, Dirk Raes, Rosemary J. Bargerei and Edward M. Mugalavai (2007): Evaluation of two risk assessment methods for sowing maize in Kenya. <i>Agricultural and Forest Meteorology</i> . 144 : 193-199.

XI. CHAPTERS PUBLISHED IN BOOKS

1.	A. Obadina, E.M. Mugalavai , J.A.F. Obiri, L. Oyinlola, & I. Olutu (2017). Vulnerability of Fresh cut Vegetables and Ornamental Plants to Climate Change. In: <i>Agricultural Risk Management in Africa-A contextualized manual for tertiary institutions and development practitioners</i> . Eds. J.A.F. Obiri., Driver, M.F., Onyekwelu, J.C., Akpoko J.G., Ramasawmy, B., and Drame'-Yaye, A. ANAFE Nairobi, ISBN: 978929059 404 8, pp 273-285.
2.	Songok, C.K., E.C., Kipkorir, Mugalavai, E.M. , Ngweno, C., and Kwonyike, A.K. (2011). Improving agro-pastoralist involvement in risk reduction policy formulation in Kenya. In Leal Filho, W. (ed.) (2011) "Experiences of Climate Change Adaptation in Africa". Springer-Verlag, Berlin (55-68). ISSN: 16102010; ISBN: 978-3-642-22314-3
3.	Songok, C.K., E.C., Kipkorir, and Mugalavai, E.M. (2011). Integrating indigenous knowledge in climate change adaptation in North Rift, Kenya. In Leal Filho, W. (ed.) (2011) "Experiences of Climate Change Adaptation in Africa". Springer-Verlag, Berlin. (69-95).

	ISSN: 16102010; ISBN: 978-3-642-22314-3
4.	Kipkorir, E.C., Mugalavai, E.M. , and Bargerei, R.J. (2011). Application of AquaCrop Model for Within-Season Prediction of Maize Yields In: UNW-DPC Publication Series No.7; Capacity Development for Farm Management Strategies to Improve Crop-Water Productivity using Aqua Crop: Lessons Learned. Editors: Reza Ardakanian, Teresa Walter. (Food and Agriculture Organization of the United Nations (FAO)).

XII. CHAPTERS PUBLISHED IN PEER REVIEWED PROCEEDINGS

1.	Mugalavai, E. M. , Kipkorir, E.C., Songok, C. K. & Webi, P.O.W. Using system of rice intensification practices to mitigate climate change effects on rice production in Western Kenya. <i>RUFORUM Working Document Series</i> (ISSN 1607-9345), 2018, No. 17 (1): 357-366. Available from http://repository.ruforum.org
2.	Ogenga, J.O. & Mugalavai, E.M. (2018). Analysis of strategies used in mitigating dry spells occurrences on rainfed agriculture in Homa Bay County, Kenya. <i>RUFORUM Working Document Series</i> (ISSN 1607-9345), 2018, No. 17 (1): 367-375. Available from http://repository.ruforum.org
3.	Edward M. Mugalavai , Emmanuel C. Kipkorir & Charles K. Songok (2016). Integrating seasonal climate variability in sustainable agricultural planning of Lake Victoria Basin in Kenya. In: <i>Proceedings of the conference on Expanding Theoretical and Applied Roles of GIS in a Dynamic Global Environment held at Masinde Muliro University of Science and Technology, Kakamega, Kenya, 13-14 August 2015: (Paper No. 18) Page 185 – 199; ISBN 978-9966-096-54-8.</i>
4.	Mugalavai, E.M. , Kipkorir, E.C., Songok, C.K. (2012). Evaluation of dry spells during sensitive growth stages for maize crop in Western Kenya. <i>A chapter published in proceedings of the International Conference on Disaster Risk Reduction and Conflict Resolution For Sustainable Development held at Masinde Muliro University of Science Kakamega, Kenya on 18th-20th July 2012 (pp 329-338). ISBN: 978-9966-1727-0-9.</i>
5.	Kipkorir, E.C., Mugalavai, E.M. , Songok, C.K., Webi, P.O.W., Kiptoo, K.K.G., and Daudi, F. (2012). Adapting System of Rice Intensification in West Kenya Irrigation Schemes. <i>A chapter published in proceedings of the International Conference on Disaster Risk Reduction and Conflict Resolution For Sustainable Development held at Masinde Muliro University of Science Kakamega, Kenya on 18th-20th July 2012 (339-348); ISBN: 978-9966-1727-0-9.</i>
6.	Mugalavai E.M. , Kipkorir E.C. and Rao M.S. (2006). Predicting rainy season potential using growing season onset dates in the Kenyan Lake Victoria. <i>A chapter published in Proceedings of the International Conference on Disaster Management & Human Security in Africa (DMHSA) held at Bishop Nicholas Stam's Pastoral Centre, Kakamega, Kenya on 11th -13th October 2006 (pp 148-157); Copyright CDMHA 2006.</i>

XIII. SEMINARS/WORKSHOPS/AWARDS

S/No	Date	Training/Workshops/Awards/Webinar Series	Place
1.	8 th November 2022	The Bandit Economy in Kenya Rationale and Impact (Webinar hosted by the Directorate of Research and Postgraduate Support and School of Disaster Management and Humanitarian Assistance-SDMHA); Presentation: <i>The Science of Banditry in Kenya, Ecological & Environmental</i>	Virtual/ Masinde Muliro University

		<i>Factors (By Dr. Edward Mugalavai-(MMUST)</i> https://bit.ly/3WQnWYb	
2.	16 th September 2022	Harnessing indigenous knowledge for Disaster Risk Management in the 21st Century (Webinar hosted by the Institute of Indigenous Knowledge and Cultural Studies (IIKCS) and School of Disaster Management and Humanitarian Assistance-SDMHA); Presentation: <i>Mitigation of Climate Change Challenges Using Indigenous Early Warning Systems by Dr. Edward Mugalavai-MMUST)</i> https://bit.ly/3xy1OXu	Virtual/ Masinde Muliro University
3.	11 th -13 th October 2022	Participated in organizing the 8 th National symposium on Disaster Risk Reduction and the International Day for Disaster Risk Reduction (IDDRR) 2022; Presentation: <i>The role of Masinde Muliro University in advancing Disaster Risk Reduction (DRR) in Kenya (By Dr. Edward Mugalavai-MMUST)</i>	Masinde Muliro University
4.	28 th – 31 st March 2022	Kaleb A. Mwendwa (MMUST Project Lead & Co-Investigator), Dr. Edward Mugalavai (Project Co-Investigator) Dr. Daniel Namenya Naburi (Project Post-Doc) and Prof. Peter Bukhala (Director, Research and Postgraduate support), participated in the BRECCIA Celebratory & Closure workshop held in Ghana. https://bit.ly/3rd2BKl	Labadi Beach Hotel, Accra, Ghana
5.	7 th – 10 th March 2022	Participated in Invasive Species Large Research Project (LRP) Data Analysis workshop held in Malawi as part of Building Research Capacity for Sustainable Water and Food Security in Sub-Saharan Africa (BRECCIA) Project-UK Research and Innovation (UKRI)-Global Challenges Research Fund (GCRF).	Zomba- Lilongwe, Malawi
6.	14 th – 15 th October 2021	Curriculum Review Workshop	Bishop Stam Pastoral Centre
7.	July-October 2020	Quality Assurance in Higher and Tertiary Education Workshops, organized by Association of African Universities (AAU).	Virtual Training
8.	15 th June-13 July 2020	Attended the virtual onsite workshop run by BRECCIA and SARIMA over a period of five weeks, held from 15 June to 13 July on research grants and management presented by the Southern African Research and Innovation Management Association (SARIMA)	Virtual Training
9.	11 th -13 th March 2020	Training of Cost Centre Heads on Financial and Procurement Management.	Kisumu Hotel Kisumu City
10.	4 th March-6 th March 2020	Review of short courses curriculum workshop (Training)	Bishop Stam Pastoral

			Centre
11.	13 th Feb 2019	Participated in Researcher Connect Training Organized by the <i>British Council</i> on the following modules: Foundation; persuasive proposals; Abstracts and Academic collaboration.	Acacia Hotel Kisumu
12.	22 nd August 2018	Participated in a training on Transition, Change and Impact Awareness Training for Implementers	Masinde Muliro University
13.	8 th June 2018	Participated in a Field Skills Training	Kakamega Field Fire Training
14.	26 th -28 th March 2018	Strategic Leadership and Management of higher Education Institutions.	Masinde Muliro University
15.	12 th to 15 th February 2018	Organized Careers week Event (SDMHA Chapter)	Masinde Muliro University
16.	13 th to 14 th August 2015	Participated in an International Conference entitled: Expanding Theoretical and Applied Roles of GIS in a Dynamic Global Environment.	Masinde Muliro University
17.	3 rd -6 th November 2015	Participated in 2015/2016 MMUST performance contract negotiation and vetting.	Masinde Muliro University
18.	22 nd Oct. 2015	Undertook training on performance contracting organized by MMUST.	Masinde Muliro University
19.	23 rd -24 th January, 2014	Participated in the University Multiplication Training Workshop on Curriculum Development and Review for Public Universities in Kenya: Implementation and Accreditation.	Masinde Muliro University
20.	18 th -20 th July 2012	Participated in organizing for the International Conference on Disaster Risk Reduction and Conflict Resolution for Sustainable Development.	Masinde Muliro University
21.	19 th September 2007	Received the long service award for providing distinguished service (18 years) to Moi University.	Moi University
22.	21 st June-9 th July 2004	Undertook a certificate course on Environmental Impact Assessment (EIA).	Moi University
23.	5 th June 2002	Participated in celebrations of the World Environment Day organized by the District Environment Management Committee (Kakamega District).	Kakamega

XIV. PROFESSIONAL REGISTRATION, RECOGNITION AND MEMBERSHIP

1.	Registered by NEMA as Lead Expert for Environmental Impact Assessment/Audit-Reg. No. 3005.
2.	Registered Member of Ecological Society for Eastern Africa (ECSEA)-Reg. No. 0280
3.	Registered Member of Environment Institute of Kenya (EIK)
4.	Registered Member of Association of Disaster Management and Conflict Resolution of Kenya (ADMCRK)

XV. JOURNAL EDITOR

1. Editor-in-Chief, International Journal of Disaster Management and Risk Reduction (JDMRR)
2. Member Editorial Board for Journal of Tourism, Hospitality and Sports (JTHS)

XVI. JOURNAL REVIEWER

S/No.	Journal Name	Paper Reviewed	Remark
1.	Agriculture and Forest Meteorology (Elsevier Series)	Ms. Ref. No.: AGRFORMET-D-19-00074 Title: Do indigenous forecasts and scientific forecasts influence arable farmers' and pastoralists' estimation of onset and cessation of rains? Empirical evidence from Rwenzori region, Western Uganda Agricultural and Forest Meteorology	Published
2.	Theoretical and Applied Climatology (Springer-Series)	Empirical analysis of dry spells during growing season with respect to maize crop in Nigeria	Published

XVII. CONSULTANCIES

1.	Ngaira Josephine & Mugalavai Edward (2023). Project name: Building Inclusive Climate Change Resilience. Training Title: In-depth Training for County Climate advocacy champions Region to Visit: Bungoma, North Rift Region Date of Visit: <i>21st to 25th August 2023</i> , Designed Training Manual and Trained over 250 (TOTs) as Climate Change Champions for Bungoma County.
2.	Herbert Chamwada, Stanley O. Omuterema, Edward M. Neyole, John F. Obiri, Edward M. Mugalavai . (2016). Offered Consultancy on Proposed Classrooms Phase II, Office Block, Anatomy Laboratory and Foot Bridge. Prepared for Masinde Muliro University of Science and Technology (MMUST) P. O. Box 190 – 50100 Kakamega, Kenya.
3.	Edward M. Mugalavai , John F. Obiri, Stanley O. Omuterema, (2016). Offered consultancy on Performance Audit Services for WKCDD & FMP in Western Kenya Projects covering Siaya, Vihiga, Kakamega, Busia, Bungoma and Trans Nzoia Counties.
4.	Emmanuel C. Kipkorir, Edward M. Mugalavai & Charles K. Songok: (2016). Offered to Consultancy Services Unilever Tea Ltd on Weather and Crop Modeling for Improved Agricultural Planning at Unilever Tea Kenya Limited, Kericho (January-June 2016)
5.	Edward M. Mugalavai , Obiri, J.F., Omuterema, S.O, Wakhungu, J., Oteng'i, S.B.B, Otsianda, P.D. (2014). Environmental Impact Assessment Project Report for the Proposed

	Budalang'i Disaster Management and Training Centre. Prepared for Masinde Muliro University of Science and Technology (MMUST), November, 2014
6.	Edward M. Mugalavai , Denis M. Masika (2014). Environmental Impact Assessment (EIA) Project Report for Construction of Kisieli Fish Pond under Maragoli Natural Resource Users Association (WRUA) in Vihiga County, Submitted to NEMA (April, 2014)
7.	Edward M. Mugalavai , Denis M. Masika (2014). Environmental Impact Assessment (EIA) Project Report for Protection of Viyalo Water Spring, under Maragoli Natural Resource Users Association (WRUA) in Vihiga County, Submitted to NEMA (April, 2014)
8.	Edward M. Mugalavai (2013). Environmental Impact Assessment (EIA) Project Report for Construction and Protection of Six (6) Springs under the Water Resources Management Authority-LCNCA, funded by the International Development Association (IDA) . Report submitted to NEMA (March, 2013).

XVIII. PAPERS PRESENTED AT INTERNATIONAL CONFERENCES/ WORKSHOPS / SYMPOSIA

1	Dr. Edward M Mugalavai (2023). Role of Indigenous Knowledge in promoting Pastoralism under the Changing Climate. Paper presented at the 16 th International Multi-Disciplinary Virtual Conference at Masinde Muliro University of Science and Technology (MMUST), 14 th -16 th June, 2023.
1.	Dr. Edward Mugalavai (PI) ; Dr. Ferdinand Nabiswa; Dr. Ruth Simiyu and Odhiambo Canon (2021). Determining the Nexus between Covid-19 Pandemic and Teenage Pregnancies in Kakamega and Bungoma Counties of Western Region, Kenya' Paper presented at 1 st Blended Research Dissemination Conference at Masinde Muliro University of Science and Technology (MMUST) 30-31 st August, 2021.
2.	Prof. Frank Matanga (PI), Dr. Ferdinand Nabiswa, Dr. Edward Mugalavai , Rev. Dr. Elijah S. Odhiambo, Mr. Peter Otsianda (2021). Assessment of the Impact of Covid-19 Pandemic on Food Security in Kakamega and Bungoma Counties of Western Region, Kenya. Paper presented at 1 st Blended Research Dissemination Conference at Masinde Muliro University of Science and Technology (MMUST) 30-31 st August, 2021.
3.	Edward M. Mugalavai , Emmanuel C. Kipkorir, Charles K. Songok and Phanuel O. W. Webi (2018). <i>Using System of Rice Intensification Practices to Mitigate Climate Change Effects on Rice Production in Western Kenya</i> . Paper presented at the Regional Universities Forum (RUFORUM) held at KICC Nairobi (Kenya), 22 nd to 26 th October 2018.
4.	J.O. Ogenga and E.M. Mugalavai (2018). Analysis of Strategies used in Mitigating Dryspells Occurrences on Rainfed Agriculture in Homa Bay County, Kenya. Paper presented at the Regional Universities Forum (RUFORUM) held at KICC Nairobi (Kenya), 22 nd to 26 th October 2018.
5.	Edward M. Mugalavai (2018). Participated in a symposium at International Peace Support Training Centre (IPSTC) on "Enhancing Capacity for Maritime and Infrastructure Disaster Response and Management" as Discussant on: <i>Youth Participation in Disaster Management: Case of Tana River and Busia Counties</i> held at New Conference Room, IPSTC Westwood Park Road, Karen on 4 th October 2018.
6.	Mugalavai E.M. ; Kipkorir E.C.; Songok C.K. (2015). Integrating seasonal climate variability in sustainable agricultural planning of Lake Victoria Basin in Kenya in Proceedings of the International conference on Expanding Theoretical and Applied Roles of GIS in a Dynamic Global Environment held at Masinde Muliro University of Science and

	Technology, Kakamega, Kenya, 13-14 August. 2015.
7.	Mugalavai, E.M. , Kipkorir, E.C., Songok, C.K. (2012). Evaluation of dry spells during sensitive growth stages for maize crop in Western Kenya. <i>A paper presented at the Masinde Muliro University of Science and Technology International Conference on Disaster Risk Reduction and Conflict Resolution for Sustainable Development (18th-20th July 2012).</i>
8.	Kipkorir, E.C., Mugalavai, E.M. , Songok, C.K., Webi, P.O.W., Kiptoo, K.K.G., and Daudi, F. (2012). Adapting System of Rice Intensification in West Kenya Irrigation Schemes. <i>A paper presented at the Masinde Muliro University of Science and Technology International Conference on Disaster Risk Reduction and Conflict Resolution for Sustainable Development (18th-20th July 2012).</i>
9.	Kipkorir, E.C., Mugalavai, E.M. , and Bargerei, R.J (2010) Application of AquaCrop model for within-season prediction of grain maize yields. <i>Presented at a Workshop on “Improving farm management strategies through AquaCrop: Worldwide collection of case studies”, October 8-9, 2010, Yogyakarta, Indonesia”.</i>
10.	Songok, C.K.* , Kipkorir, E.C., and Mugalavai, E.M. (2010). Integration of indigenous knowledge systems in climate change adaptation and enhancing food security in Nandi and Keiyo districts, Kenya. Presented at a conference <i>organized by the Ecological Society of Eastern Africa (19th-21st May 2010) at Multimedia University, Nairobi.</i>
11.	Songok, C.K.* , Kipkorir, E.C., Mugalavai, E.M. , Kwonyike, A.C., Ng’weno, C. The participation of agro-pastoralists in climate change adaptation and disaster risk reduction policy formulation: A case of Keiyo district, Kenya. Presented at a conference <i>Organized by the Ecological Society of Eastern Africa (19th-21st May 2010) at Multimedia University, Nairobi.</i>
12.	Kipkorir, E.C.* , Mugalavai, E.M. , Songok, C.K. and Bargerei, R.J. (2009). Linking indigenous and scientific knowledge systems on rainfall onset prediction and utilization. <i>Presented in the 5th Annual Conference (July 2009) Organized by Moi University, Eldoret, Kenya.</i>
13.	Omuterema, S.O., Ogada, T P M., Mugalavai E.M. and Imbuga, B.M. (2008). Variation of Bagasse Fuel Factors and Flue gas temperature in Bagasse-Based Boiler. <i>Presented in the 4th Annual Conference (29th July 2008-1st August 2008) Organized by Moi University, Eldoret, Kenya.</i>
14.	Mugalavai E.M. , Kipkorir E.C. and Rao M.S. (2006). Predicting rainy season potential using growing season onset dates in the Kenyan Lake Victoria Basin: <i>Presented in the 1st International Conference on Disaster Management and Human Security in Africa (11th-13th October 2006) organized by CDMHA-Masinde Muliro University of Science and Technology, Kakamega, Kenya.</i>
15.	Mugalavai E.M. , Kipkorir E.C, Rao M.S Evaluation of criteria for use in determining growing season onset dates in the Kenyan Lake Victoria Basin: <i>Presented in the 2nd National Scientific Conference Tom Mboya Labour College Kisumu (17th-19th October 2005) Organized by Kenya Agricultural Research Institute and Lake Victoria Environmental Management Project.</i>
16.	E.C. Kipkorir, M.S. Rao and E.M. Mugalavai (2005). RAIN: A model for determination of rainfall growing season parameters: <i>Presented in the 1st Annual Conference (14th -16th February, 2005) Organized by Moi University, Eldoret, Kenya.</i>

17.	E.M. Mugalavai and M.S Rao (2003). Annual rainfall reliability and drought persistence in the Central Rift Valley. <i>Presented at the Conference on Environmental Research in ASALs (18th-23rd August 2003) at Chambai Hotel, Narok, Kenya-Organized by Moi University, School of Environmental Studies in collaboration with University of Amsterdam, Department of Geography and Planning.</i>
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XIX. POST GRADUATE STUDENTS SUPERVISED TO COMPLETION

S/No	Student name/Title of Study	Reg. No	Level	Graduated
1.	Japheth Ogenga: Influence of Disaster Risk Management Approaches on Food Crop Production under the Changing Climate in Siaya County, Kenya	CDS/H/01-53106/2018	PhD	2024
2.	Denis Otwor: Climate-Smart Agriculture and its Implications on Food Security among Small-Scale Farmers in Nyamira County, Kenya	CDS/H/01-54121/2019	PhD	2024
3.	Oladapotunde Oguntoyinbo: Factors Contributing to Disaster Risk Reduction in Transportation of Petroleum Products in Kenya	CDS/H/208/11	PhD	2024
4.	Agnes Kalekye Kithikii: The Impact of Humanitarian Aid in Building Community Resilience to Drought in Kitui County, Kenya.	REG. NO: CDS/H/206/14	PhD	2023
5.	Pepela Mourice Manyonge: Efficacy of Humanitarian Agency Responses to Climate Change Coping and Adaptation Strategies in Baringo County, Kenya.	CDM/H/05/2015	PhD	2019
6.	Namenya Daniel Naburi: Watershed Governance and its Implications on Food Security in the Lower Sio River Basin Busia County, Kenya.	CDS/H/01/14	PhD	2018
7.	Adan Abass Tawane: Nexus between Climate Change and Human Adaptation in Mandera County, Kenya.	CDS/H/03/15	PhD	2018
8.	Kennedy Otieno Ongeko: Climate Change Impacts and its Relation to Community Knowledge, Risk Perception and Adaptation Strategies in Homa Bay County, Kenya.	CDS/H/23/09	PhD	2017
9.	Douglas Atamba Miima: Influence of Freshwater Aquaculture on the household Socioeconomic Performance in Busia County, Kenya	CDS/G/003/2012	MSc.	2023
10.	Magoma Shalom Mogaito: Community Managed Disaster Risk Reduction Strategies influencing Drought Resilience in Marsabit	CDM/G/007/15	MSc.	2023

	County, Kenya.			
11.	Mutie Aaron Kimeu: Effects of Terrestrial Oil Spills on Water Quality Along Kenya Pipeline in Makueni County, Kenya	CDS/G/215/14	MSc.	2022
12.	Nelson Kiplang'at Mneria: Factors Influencing Management of Aircraft Fire Disasters At International Airports in Kenya	CDS/G/04-56783/2017	MSc.	2022
13.	Oketch James Mundia: Determinants of Funded Water Projects on Reducing Water Risks in Vihiga County, Kenya.	CDS/G/05/12	MSc.	2021
14.	Moses Edapal Nawoton: Assessment of Cash Coordination on Efficacy of Cash Transfer Programming In Turkana County, Kenya.	REG. NO: CDM/G/02/15	MSc.	2020
15.	Engor Godfrey: Drought Early Recovery Strategies Influencing Sustainable Livelihood Options among Households in Turkana County, Kenya.	CDM/G/04/13	MSc.	2020
16.	Otwori Denis Otwor: Evaluation of Renewable Energy Utilization Among Households in Kakamega Town, Kenya.	CDS/G/01/2016	MSc.	2019
17.	Cyrus Asena: Impact of Agro-Forestry Practices on Resilience to Climate Variability among Farmers in Vihiga Sub-County, Kenya.	CDS/G/27/09	MSc.	2018
18.	Japheth Omule Ogenga: Mitigation Strategies for Dry Spells Occurrence on Rainfed Agriculture in Homa Bay County, Kenya.	CDS/H/01/14	MSc.	2018
19.	Silas Omondi Rakama: Land Use Change and Conservation of Plant Biodiversity in Kisumu City Kenya.	CDS/G/04/14	MSc.	2017
20.	Lolemtum Joseph Timu: Assessment of Drought Management Strategies for Enhanced Food. Security in West Pokot County, Kenya.	CDM/G/02/14	Msc.	2017

XX. ONGOING POST GRADUATE STUDENTS SUPERVISION

S/No	Student name/Title of Study	Reg. No	Level	Graduated
1.	Mudekhere: Farmers' Indigenous Knowledge Practices Influencing Uptake of Climate Change Adaptation Strategies in Kajiado County, Kenya	CDM/H/01/549 46/2017	PhD	Ongoing
2.	Kaleb Mwendwa: Influence of Socio-Ecological Factors on Resilience to Climate Change induced Food and Water insecurity in	CDS/H/01/08	PhD	Ongoing

	Turkana County, Kenya			
3.	John Mudegu: Farmers' Climate Knowledge and Climate Change Adaptation for Crop Production in Makueni County	CDS/H/206/11	PhD	Ongoing
4.	Bonface Kibisu Mwendwa: Influence of Land Fragmentation on Farm Productivity in Vihiga County, Kenya.	CDS/G/04-56959/2017	MSc,	Ongoing
5.	Ouya Dan Obiero: Role of Community Participation in Post-Disaster Reconstruction of Selected Informal Settlements in Nairobi County- Kenya	CDS/G/206/14	MSc.	Ongoing

XXI. THESES EXAMINED

S/No	Student name/Title of Study	Reg. No	Level
1.	Opilo Betty Nasimiyu (2023). Impact of Sustainable Land Management Technologies on Flood Risk Reduction in western Region, Kenya	CDS/H/01-53874/2019	PhD
2.	Gregory Wafula Nalianya (2021) Influence of Climate Change and Variability on Smallholder Dairy Cattle Herd Productivity in Bungoma County, Kenya	CDS/H/205/11	PhD
3.	Ernest Othieno Odwori (2019). Climate Change and Water Supply in Nzoia River Basin, Kenya	CDS/LH/01/14	PhD
4.	Ogara Rose Shieunda: Spatial and Temporal Assessment of Health Risks from Heavy Metal Contamination in River Sosiani Catchment, Kenya.	REG NO: CDP/H/04/012	PhD
5.	Martin Ndiwa Talian: Evaluation of the effectiveness of mitigation measures in environmental impact assessment for Urban projects in Kisumu city.	REG NO. CDS/H/16/06	PhD
6.	Karuri Thiongo: Farmers coping strategies to drought and their implications to agricultural production in Machakos County, Kenya.	REG. NO. CDS/H/12/09	PhD
7.	Ochenje Catherine Ondola: Evaluation of workplace disasters, risk reduction programs and intervention strategies for factory employees in Eldoret municipality, Kenya.	REG. NO. CDM/H/11/10	PhD
8.	Miima Winstone Atamba: Modeling the Impacts of Climate Variability on Discharge of the Upper River Yala Basin, Kenya.	REG NO. CCA/G/01-53990/2019	MSc.
9.	Maklago Stephen Oduma: Effects of lake victoria water vessel accidents on the social economic development of households in Mbita Sub county Homa Bay county, Kenya	REG. NO CDM/G/01-58009/2016	MSc.
10.	Justus Wersongur Owino (2023): Simulating Canal Conveyance Efficiency for Ahero Irrigation Scheme using HEC-RAS Model	REG. NO. CWR/G/03/2015	MSc.
11.	Emily Nasimiyu Kotiano (2023). Factors influencing students' retention in primary and secondary schools in Kakamega Municipality, Kakamega County.	GEO/G/04/2016	MSc.

12.	Sahal Hassan Abdi (2023). Nexus between selected Faith-Based Organizations Initiatives and Drought Response in Garissa County, Kenya.	CDM/G/03/2015	MSc.
13.	Nasong'o Nanjala Julita (2023). The Economic Challenges Facing Small-Scale Sugarcane Farmers in Malava Sub county, Kakamega County	GEO/G/08/2016	MSc.
14.	Reggisvale Alwang'a (2022). The Impact of Artisanal and Small scale Gold Mining on the Environment in Kakamega south Sub County, Kakamega County, Kenya	GEO/G/01-55062/2017	MSc.
15.	Nicholas Kipchumba Kemboi (2022). Influence of Land Use on the occurrence of Landslides in Mount Elgon Sub County Kenya	CDS/G/02/13	MSc.
16.	Aliseba Akinyi Waga (2022). Effect of Climate Resilient Agriculture on Food Security in Kitui County, Kenya.	CDM/G/201/12	MSc.
17.	Winnie Chelangat (2022). Adaptive Strategies to Seasonal Drought Effects on Small Scale Crop Production in Kakamega South Sub-county, Kakamega County	GEO/G/01-52811/2018	MSc.
18.	Phillip Mutambi Okang'a (2022).The Socio-Economic and Environmental Implications of Commercializing Public Toilets in Kakamega Town	GEO/G/07/2016	MSc.
19.	Kileteny Timothy: Influence of Livelihoods on Household Food Security in Pastoral Areas of Narok County, Kenya	REG NO: CDS/G/07/07	MSc.
20.	Ngeny Joseph Kimutai: Contribution of Public Participation to Environmental Conservation in Kakamega County, Kenya	REG. NO. CDS/G/12/10)	MSc.
21.	Lucas C. Esekoni: Perception of the Households on Environmental Pollutants and their Effects on the Socio-Economic Wellbeing in Mukuru Informal Settlements of Nairobi County, Kenya	REG NO: CDM/G/201/2016	MSc.
22.	Rael Teresa Adhiambo: The Influence of the Invasive <i>Psidium Guajava L.</i> on Carbon Stocking Within Kakamega Tropical Rainforest.	REG NO.: SEV/G/03/2015	MSc.
23.	Ehaji Daniel Hyuga: Land Cover Change and its Influence on the Nature of Agro-Pastoral Livelihoods in Kajiado West Sub-County, Kenya.	REG NO:	MSc.
24.	Opilo Betty: Role of Dykes in Flood Mitigation in Lower Nzoia River Basin Western Kenya.	REG NO.: CPD/G/02/15	MSc.
25.	Musinzi Hillary Wafula: Impact of climate change on spread of malaria amongst Children under five years in Vihiga county, Kenya.	REG NO. GEO/G/14/15	MSc.
26.	Rael Ramkat: Restoration strategies and community attitudes towards mine pits in Kakamega County, Kenya.	REG. NO. CDS/G/06/11	MSc.
27.	Maureen Kaleha Amayi: The role of urban agriculture in enhancing nutrition security among households in embakasi sub-county, Kenya.	REG. NO. CDS/G/200/13	MSc.
28.	Agripina Muranditsi Khalembi: Influence of domestic water on quality of milk in Kakamega county, Kenya.	REG. NO. CDS/G/12/11	MSc.

29.	Kiveu N. Wycliffe: Fire disaster preparedness on hospitality premises in Kisumu City Kenya.	REG. NO. CDS/G/019/04	MSc.
30.	George Omonge Odera: Contribution of community based organizations to promotion of secondary education in Homa Bay County, Kenya.	REG. NO CDS/G/04/05	MSc.

XXII. DEPARTMENTAL ASSIGNMENTS

1.	Completed 2 nd Term as Chairman of Department (DMSD); Period 15 th June 2020 to 16 th June 2023
2.	Completed 1 st Term as Chairman of Department (DMSD); Period 16 th June 2017 to 15 June 2020
3.	Acting Chairman of Department (DMSD); Period 10 th April 2017 to 3 rd May 2017
4.	Acting Chairman of Department (DMSD); Period 10 th Sept. 2015 to 2 nd November 2015
5.	Presided over students elections in (2014, 2015, 2016, 2017, 2018 & 2019) as SDMHA Presiding Officer
6.	Academic Advisor all PhD (DMSD) Students (2017 to Date)
7.	Academic Advisor 3 rd Year (DMSD) Students
8.	Examination Coordinator (DMSD); 2012 to 2023
9.	Team Leader Curriculum Review (DMSD) 2014 to Date
10.	SDMHA Faculty representative to MMUST Careers Committee
11.	SDMHA Faculty representative to School of Graduate Studies (SGS)

XXIII. OTHER UNIVERSITY ASSIGNMENTS

1.	Coordinator Greening Initiative, Masinde Muliro University of Science and Technology; Period 1 st August 2024 to 31 st July 2027
2.	Editor-in-Chief, International Journal of Disaster Management and Risk Reduction (IJDMRR)- September 2024 to Date

XXIV. REFEREES

1.	Prof. Emmanuel C. Kipkorir: School of Engineering, Moi University P.O. Box 3900-030100 Eldoret, Kenya. ; E-mail: emmanuel_kipkorir@yahoo.co.uk .
2.	Prof. Samuel S. China, Department of Disaster Management and Sustainable Development (DMSD), Masinde Muliro University of Science and Technology, School of Disaster Management and Humanitarian Assistance (SDMHA), P. O. Box 190-50100, Kakamega, Kenya. Tel; Email: soita_okhwachina@yahoo.com .
3.	Dr. Ferdinand Nabiswa Makhanu, Senior Lecturer Department of Emergency Management Studies (EMS), Masinde Muliro University of Science and Technology, School of Disaster Management and Humanitarian Assistance (SDMHA), P. O. Box 190-50100, Kakamega, Kenya. Email: fnabiswa@mmust.ac.ke .