

1.1 PERSONAL PROFILE**1.1.1 Personal Details**

<u>Family Name</u> MURIMI	<u>Given Names</u> SHADRACK KIANA	
Date of Birth: D/M/Y 12/12/1961	<u>Place of Birth</u> Nyeri County, Kenya	
<u>Nationality</u> Kenyan	Gender: Male <u>Marital status: Married</u>	
PF. No: 3948 Department:- Department of Geography Contacts Mailing Address: <i>Geography Department; Kenyatta University. P.O. Box 43844 (00100), Nairobi, Kenya.</i> <i>Tel. +254 02 810901-19; Website: - www.ku.ac.ke</i> Email: murimi.shadrack@ku.ac.ke ; skmurimi@yahoo.com , shadrackmurimi25@gmail.com		
Designation (Current Position)	Senior Lecturer:- Department of Geography, Kenyatta University	
	Director:- Mombasa Campus, Kenyatta University	

Google Scholar: - Uniform Resource Locators (URL) Link

https://scholar.google.com/citations?hl=en&user=U_Tym-AAAAA

ORCID ID: - [0000-0001-6196-1348](https://orcid.org/0000-0001-6196-1348)

ORCID Link: - <https://orcid.org/0000-0001-6196-1348>

Area of Specialization

Hydro-geomorphologist with working knowledge in integrated watershed management (IWM) and climate vulnerability capacity analysis (CVCA) through geospatial methodologies for community based planning and management of social/economic and environmental resources. Biased towards the dynamics of current and palaeo sedimentation in Eastern Africa Rift valley Lake basins.

Research interests

Research in Participatory community integrated GIS (PGIS) under variable themes; that include, watershed hydro-geomorphologic processes, community's resilience, adaptation and adjustments under variable climatic conditions; Research projects centred on Geospatial techniques in mapping social/economic attributes in watersheds, including lake-level fluctuations in Eastern Africa Rift valley drainage basins.

Professional Preparation: DR. S.K. Murimi obtained a Bachelor's Degree (B.Ed. (Sc), Chemistry/Geography major) from Kenyatta University in 1986, and awarded Master of Science (Hydro-Geomorphology) in 1990. He undertook his Doctorate degree through German Academic

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Exchange Services (DAAD) In-Country (sandwich) Programme in Trier University, Germany and Kenyatta University (SPAS), Kenya and awarded Ph.D. degree in 2005. Shadrack has also trained in GIS and Remote Sensing at the Department of Geology and Mineralogy, Tervuren, Brussels, Belgium in 2003-2004 and 2008. He has participated in workshops and refresher courses on various watershed and Hydro-Geomorphology concepts within Eastern Africa region, including Geospatial tools for Airborne and Spaceborne Remote Sensing data acquisition, processing and analysis, Geographic Information System (GIS), and Participatory Community integrated GIS mapping of livelihoods' resources in watersheds.

Current Position: Dr. Murimi is a Senior Lecturer and Researcher in the Department of Geography, In the School of Law, Arts and Social Sciences (SLASS), Kenyatta University. He facilitates courses in Physical Geography and various cross-cutting courses under Hydrology and water resources and Practical Geography related courses. In addition, DR. Murimi supervises Projects and Thesis for Post-Graduate (Masters and Ph.D) students, carries out consultancy tasks, conducts fieldwork and research in a wide range of socio/economic and environmental resource settings.

1.1.2 Academic Foundation and Qualifications

Institution	Date from – Date to	Degree(s), Diploma(s), Certificate(s) attained
Kenyatta University	1997 – 2005	Ph.D (Hydro-Geomorphology and Geospatial Information System)
Department of Geology and Mineralogy; RMCA, Tervuren, Belgium	January – July, 2008	Certificate in Remote sensing and GIS software analysis in mapping environmental resources
Royal Museum of Central Africa (RMCA), Brussels, Belgium	August, 2003 – February, 2004	Certificate in Geological Data management and Remote sensing applications
“La Sapienza” Consorzio Interuniversitario delle Georisorse (University of Rome,) and Nairobi University	1998	Certificate in Image Analysis and Remote Sensing Techniques.
Trier University, Geocentrum Faculty, Germany	March – September, 2000	Courses in Spatial Data Analysis for GIS and Remote Sensing with ArcGIS/View Software
Kenyatta University	September, 1987– November, 1990	M.Sc. (Geomorphology and Remote Sensing)
Kenyatta University	September 1983 – July, 1986	B. Ed (Sc.) 2 nd Class Hons. (Upper Division)

Ndururumo High School	May, 1980 December, 1981	Kenya Advanced Certificate of Education (KACE, 1981)
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1.1.2.1 Postgraduate Thesis work

i) Ph.D research project

Murimi, S.K. (2005). Thesis Title, “Environmental impact assessment of soil and water resources in the watershed of Lake Nakuru, Kenya”.

ii). Master of Science (M.sc) research project

Murimi, S.K. (1989). Thesis Title, “An investigation of some aspects of recent geomorphological and hydrological changes in the Lake Elmenteita catchment area, Kenya”.

1.1.2.2 Professional Courses and Working Experience

i). **Certificate and working course in:** - E-Learning interactive and instructive teaching materials for teachers training in Environmental sciences. Funding Institutions: - IWM Expert GmbH, Germany, Freie University, Berlin and German Academic Exchange Services (DAAD). Status: - Completed in July, 2016.

ii). **Certificate and working course in:** - Integrated solutions to answer challenges of food insecurity in times of climate change: Learning from Abraha we Atsbeha IWM project; Tigray, Mekella, Ethiopia: - Funding Institutions/Agencies: - Relief Society of Tigray (REST); Ministry of Agriculture and Natural Resources Development, Ethiopia; German International Cooperation (GIZ) and DAAD. Status: - 2015.

iii). **Certificate and working course in:** - Development of tools for holistic multidisciplinary sustainable approach to Natural Resources Management that ensures a multi-stakeholder participation of local communities in conflict resolution in decision making process in Transboundary Mountainous Ecosystems of Eastern Africa; Bududa and Kapchorwa sites; Mbale, Uganda:- Funding Institutions/Agencies: - African Highlands Initiative (AHI); International Centre for Research in AgroForestry (ICRAF), and UNESCO-PCCP (Potential Conflict to Co-operation Potential). 2011 - 2012.

iv). **Certificate and working course in:** - Capacity building in integrated watershed management for sustainable natural resource management and conflict resolution; Mt. Elgon, Uganda: - Funding Institutions/Agencies: - Center for International Capacity Development (Cicd)-Universitat Siegen, Germany; World Agroforestry centre. 2012.

v). **Certificate and working course in:** - Participatory 3D modelling for Telecho community; Foata mountains. Ethiopia: - Funding Institutions/Agencies: - MELCA Mahiber Mekelle, Ethiopia); Technical Centre for Agricultural (CTA) and Rural Co-operation (ACP-EU) Ethiopia. 2010.

vi). **Certificate and working course in:** - Financial Instruments in Integrated Watershed Management (IWM) for Kiladeda/Weruweru sub-catchment of Pangani basin. Tanzania:- Funding Institutions/Agencies: - Pangani Basin Water Authority (PBWA), Tanzania; Kiladeda Water-User communities (KWUC), Tanzania; German water sector reform Programme (GTZ), Germany Tanzania and German Academic Exchange Service (DAAD). 2010.

vii). **Certificate and working course in:** - Development of participatory watershed management plans for two (2) sub-catchments in Upper Tana Basin, Kenya: - Funding Institutions/Agencies: - DAAD (German Academic Exchange Service); German Ministry of Economic Co-operation and

Development; German Water Sector Reform Programme (GTZ – WSRP), Germany-Kenya. Collaborating organizations: - Water Resource Management Authority (WRMA) Kenya and Resource User Associations (BWARUA & NgaKinya RUA, Meru County-Kenya). 2006 – 2008).

1.1.2.3 Knowledge in Geospatial Computer software analysis and mapping

- i).Excellent working knowledge in Desk-based and field techniques using space-borne, airborne data and microwave Radar images: - SRTM DEM; RADARSAT, in mapping hydrogeological characteristics and hydrologic flow patterns in watersheds.
- ii). Satellite Remote sensing image acquisition, imagery processing in QGIS, ArcGIS/ArcMap 10.3, ENVI 5.0 software, and Geospatial techniques in mapping environmental resources. Working knowledge in Participatory GIS (PGIS) framework for visual mapping through community-based research tools.

1.1.3 Employment History

1.1.3.1 Academic Position

a). Present Academic Position

Employer: Kenyatta University; Department of Geography; Kenya.

Position: Senior-Lecturer, In School of Humanities and Social Sciences (SHSS); Department of Geography. **Dates:** 9th June, 2014 – To - Present

Description of Duties: Teaching, Examining, Grading students' performances and Supervising Postgraduate/Bachelors Research Dissertations, Projects and Thesis. Conducting Fieldwork exercises and carrying out individual/multi-disciplinary research. Attending Boards, Committees, Seminars, and meetings at University, Schools, Institutes, and Departmental levels. Students Mentoring, Registration and Academic Consultations and participating in Examination Boards.

b). Previous Academic Position

i) - **Employer:** Kenyatta University; Department of Geography; Kenya.

Position: Lecturer, In School of Humanities and Social Sciences (SHSS); Department of Geography.

Dates: 1st July, 1992 – To - 9th June, 2014.

Description of Duties: Teaching, Examining, Grading students' performances and Supervising Research Dissertations, Projects and Thesis. Conducting Fieldwork exercises and carrying out research. Attending Boards, Committees, Seminars, and meetings at University, Schools, Institutes, and Departmental levels. Students Mentoring, Registration and Academic Consultations and participating in Examination Boards. ii) - **Employer:** Kenyatta University; Department of Geography; Kenya.

Position: Tutorial Fellow, Faculty of Arts

Dates: 1990 - 1992 (2 years)

Description of Duties: Demonstrating in Geography Practical classes and fieldwork for senior members of staff. Teaching and coordinating field practical exercises in surveying under senior staff members. iii) - **Employer:** Kenyatta University, Department of Geography, Kenya.

Position: Graduate Assistant

Dates: November 1989 to 1990 (2 years)

Description of Duties: Assisting in setting materials for Geography Practical classes and fieldwork for senior members of staff, while carrying out MSc Research work. iv) - **Employer:** Teachers Service Commission, Mutige Boys High School, Kenya.

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Position: Graduate Teacher

Dates: 1986 to 1988 (1½ year)

Description of Duties: Teaching Geography and Chemistry,

Other Activities: Mentoring of students, Patron of Environmental and Geographical clubs

1.1.3.2 Administrative Position

a). Most recent Administrative Position, Director of Campus: -

Director of Mombasa Campus, Kenyatta University, Kenya.

Employer: Kenyatta University: - 1st July 2021 – 30th June 2024.

Description of Duties: Embarked on developing an action plan to return the campus to sustainability in regard to growth in student numbers, increased occupancy of accommodation facilities, and cost-effective catering services. Day to day running of the Campus, ensuring that relevant Senate approved academic programmes are mounted and run smoothly, Oversee the general management of Campus, liaise with Deans and Chairpersons to ensure relevant teaching staff are deployed in good time, maintain cordial relationship between the Campus, vendors and clients, ensure that Kenyatta University good image is maintained, ensure efficient service delivery by all staff at the Campus and perform any other duties as may be assigned by the Vice-Chancellor from time to time.

b). Previous Administrative Position i) - Chairman of Department

Department of Geography; Kenyatta University; Kenya.

Employer: Kenyatta University; Geography Department: - 28th July, 2015 – 22nd July, 2017 (First term)

Renewal for Second term: - 22nd July, 2017 – 21st July, 2019.

Description of Duties: In charge of all administrative duties as well as academic programmes in the Department, and answerable to the Vice-Chancellor, Kenyatta University on all matters related to the Department of Geography, Kenyatta University (Main and Satellite campuses).

ii) - Programme Coordinator (School of Humanities and Social Sciences (SHSS))

Kenyatta University Satellite Campus: - Arusha Centre, Tanzania. 30th June, 2014 – 22nd July, 2015.

Description of Duties: Liaising with Dean: - SHSS in all matters of campus-level timetabling, unit allocations, unit teaching and examinations and any other related coordination assignments between Kenyatta University (main campus) and Arusha Centre, Tanzania.

1.1.4 Major Achievements since last Appointment in Senior Lecturer Position (Attached)

A1). Appointments in Administrative and Various University Responsibilities

i). Appointed as Director of Campus: - Mombasa Campus 1st July 2021 -to- 30th June 2025

ii). Appointed Chairman of Department: - Department of Geography, Kenyatta University; 28th July 2015 - 22nd July 2017 (1st Term) and Renewal for 2nd term; 22nd July 2017 - 21st July 2019.

iii). Appointed Programme Coordinator: - Kenyatta University Offshore Centres, School of Humanities and Social Sciences (SHSS), Arusha Centre, Tanzania.

iv). Engaged in Kenyatta University Students' Mentoring Programme up-to Present

v) - **Acting Dean**

School of Humanities and Social Sciences (SHSS; Kenyatta University): - 25th – 27th April, 2018.

vi) - **Departmental Representative**

School of Humanities and Social Sciences (SHSS) Curriculum Committee (SHSSCC): August, 2000 – To- 2016.

A2). Appointments to University Boards, Programmes and Committees since last

Appointment in Senior Lecturer Position (Attached)

i). Appointed to the Technical and Vocational Educational Training (TVET) Programmes Directorate Board.

Date of Appointment: - 19th January 2023 – July 2024.

Appointed to TVET Board as stipulated in the Technical, Vocational Education and Training Act (2013), Section 28 and the TVET Standard-Governance and Management for VTCs and TVCs, requirement and Guidelines, Section 40.

ii). Appointment to a committee to prepare for the inspection of Satellite Campuses by Technical and Vocational Educational Training authority (TVETA).

Date of Appointment: - 12th September 2022 - Present.

Terms of Reference (TOR): To peruse the Self-Assessment Report (SAR) for any adjustment; Prepare and coordinate the inspection of the Campuses as TVET centres by the Technical and Vocational Educational Training Authority (TVETA); Address any other appropriate and relevant issues pertaining to the inspection.

iii) - **Staff Mentor**

Kenyatta University Mentoring Programme

Date of Appointment: 25th January 2022 – To - Present.

Terms of Reference (TOR): Contacting and meeting with the mentees assigned to you by Kenyatta University Directorate of Students' Affairs; Informing and encouraging students to register with the Mentoring Programme; Attending all the Programme's activities including seminars, retreats, Community services; Submitting progress and evaluation reports at the end of every Semester.

iv). **Appointment to the Customer Satisfaction Survey Committee Date**

of Appointment: 7th December 2022 - Present.

Terms of Reference (TOR): To prepare questionnaires for the 2022/2023 customer satisfaction survey. To discuss and decide on the modalities of doing the survey. Coordinate the customer satisfaction survey, and to present the report to management for action.

B). Initiating Academic Programmes and Partnerships with other Institutions

i). Valuing Variability (VV) Course on "Opportunities for Climate-Smart Management for Enhanced Food and Water Security in Resilient ASALs", Under Kenyatta University Capacity Development and Consultancy Services (CDCS), January 2022 - Present.

Course Code: USC-AGD 004

Course Title: Opportunities for Climate-Smart Management for Enhanced Food and Water Security in Resilient ASALs.

ii). Mounting B.Ed (Arts) Institutional Based Programme (IBP) for specific Humanities Teaching Subjects for Offshore Kenyatta University Arusha Centre, Tanzania. 30th June, 2014 – 22nd July, 2015.

- iii). Initiating TVET cooperation potentials between German Institutions and Kenyatta University; meeting on 25th August, 2017.
- iv). Initiating cooperation possibilities between Economic geography, Transport and logistics experts at Duisburg-Essen, University in Germany, federal state of Northrhine-Westfalia, and Department of Geography, Kenyatta University, Kenya. April, 2016.
- v).Initiating partnership potentials between Kenyatta University/Geography Department and ThirdEye/FutureWater - Unmanned Aerial Vehicles (UAV-Drone) Project, Netherlands. (2015).

C). Networking, Consultancy and collaboration with external organizations

- i. January 2025 – 6th May 2025: - Participation in the Inter-University Council for East Africa (IUCEA). Currently engaged in the IUCEA Staff Mobility Program 2024/2025 at The College of Agricultural and Environmental Sciences, School of Forestry, Environment and Geographical Sciences, Department of Geography, Geo-Informatics and Climatic Sciences: Makerere University, Uganda.
- ii). May 2022: - Carried out Environmental and Social Impact Assessment (ESIA) on Proposed Taifa Gas Investment SEZ Limited Project of Liquefied Petroleum Gas (LPG) plant, Kwale County, Kenya.
- iii). February 2022: - On going proposal on networking and collaboration for Education and Training partnership between Kenyatta University (Mombasa Campus) and The Institute of Chartered Shipbrokers (ICS) - UK, East African Branch.
- iv). February, 2022:- Trainer for the Valuing Variability (VV) Short Course on “Opportunities for Climate-Smart Management for Enhanced Food and Water Security in Resilient ASALs” in collaboration with the International Institute for Environment and Development (IIED) and the KUBRECCIA Project Team. Terms of Reference (ToR):- Preparing training programme for VV short course and delivering the training under Director, KU-CDCs, Kenyatta University. Appointment data. 21st February, 2022.
- v). Consultancy service as Subject Expert: - Geospatial Techniques New Programme Evaluation, Maasai Mara University, Department of Geography (2020)
- vi). Member of the Committee on Sustainable Blue Economy Conference (SBEC); November, 2018.
- vii). Compilation of watershed rehabilitation under, “Integrated solutions to answer challenges of food insecurity in times of climate change in Tigray regional state, Mekelle, Ethiopia. Collaborating organizations: - Tigray Regional State, Ethiopia; Relief Society of Tigray (REST); Ministry of Agriculture and Natural Resources Development, Ethiopia; cid Universitat Siegen (Germany); German International Cooperation (GIZ); and Deutscher Akademischer Austausch Dienst (DAAD) Germany. April, 2015.

D). Trained in Eight (8) aspects under Higher Education Teaching and Administration since last Promotion

- i). Trained in: - “Advanced Geospatial Analysis for Resource Assessment and Resilience using R and GIS software”. Makerere University, Uganda: - 19th – 24th March, 2018.
- ii). Trained in: - “Education for Sustainable Development in Africa – Sustainable Urban Development”. ESDA Workshop II, under the Theme: Theory and Methods in Sustainability. Organized by ESDA, Kenyatta University. Date: - 26th March, 2018, Kenyatta University, Nairobi, Kenya.
- iii). Training in: - “Role of Chairpersons of Department in the Implementation of University Policy”; Organized by Kenyatta University: - 8th and 9th January, 2018 at, Kenyatta University; KUCC main Hall.

- iv). Trained on: - Participatory GIS and E-Learning: - 25th to 29th July, 2016. Jinja Resort, Jinja – Uganda.
- v). Trained on: - Application of UAV-based Remote Sensing for Smallholder Cropping Systems in East Africa: - 6th – 7th June, 2016. Nairobi, Kenya.
- vi). Trained on: - E-Learning & Participatory Geographic Information Systems (PGIS) and Research Tools in Mapping Communities Watershed Use, Planning and Management: 02/11/2015 – 06/11/2015. Place: - Castle Hotel Mt. Kenya Forest, Kenya.
- vii). Trained in: - “Didactics and E-Learning for Integrated Watershed Management (IWM) at School Level”: 13th - 18th July, 2015. Freie University, Berlin, Germany.

E). Publication in Referred Journals

- i). Githinji, D.W; Obando, J and **S. Murimi** (2023). *Assessment of Soil Erosion Hazards in Kambiti Subcatchment, Murang'a County, Kenya*. In the International Journal of Current Aspects, Volume 7, Issue 1, 2022 PP 17-36, ISSN 2707-8035.
DOI: [10.35942/ijcab.v7i1.301](https://doi.org/10.35942/ijcab.v7i1.301)
License: [CC BY-NC-ND 4.0](https://creativecommons.org/licenses/by-nc-nd/4.0/)
- ii). Inyele, J., **Murimi, S.**, & Kweyu, R. (2023). *Identification Of Critical Sub-Watersheds Prone To Soil Erosion Using Remote Sensing Data And Geospatial Techniques In Thiririka Watershed, Kenya*. In the Journal of Applied Geology and Geophysics (IOSR-JAGG) e-ISSN: 2321-0990, p-ISSN: 2321-0982. Volume 11, Issue 4 Ser. I. 13-23. www.iosrjournals.org
URI:- <http://ir-library.ku.ac.ke/handle/123456789/26883>
- iii). Tela, S.A; Kweyu, R. and **S.K. Murimi**. (2022). Influence of Land use cover on selected water quality parameter of River Isiuku, Kenya. In, *International Journal of Water Research, Vol 4, Issue 4*.
DOI: <https://doi.org/10.36266/IJWR/141>
- iv). Bukoma, E., Obando, J., & Murimi, S. (2022). Assessment of Runoff and Soil Loss under Natural Vegetation Cover and Rainfall in a Semi-Arid Catchment, West Pokot County, Kenya. *East African Journal of Environment and Natural Resources*, 5(1), 134-147. <https://doi.org/10.37284/eajenr.5.1.658>
DOI: <https://doi.org/10.37284/eajenr.5.1.658>
[Link to this article](https://journals.eanso.org/index.php/eajenr/article/view/658/824)
<https://journals.eanso.org/index.php/eajenr/article/view/658/824> Correspondence ORCID ID: <https://orcid.org/0000-0003-0844-0871>
- v). Waithaka, A., **S.K. Murimi**. & K. Obiero. (2020). Assessing the Effects of Land Use/Land Cover Change on Discharge Using SWAT Model in River Ruiru Watershed, Kiambu County. In, *Applied Ecology and Environmental Sciences*, 2020, Vol. 8, No. 5; DOI: 10.12691/aees-8-5-18. Pp. 303 – 314.
[Link to this article: - Link to the article: - http://pubs.sciepub.com/aees/8/5/18/index.html](http://pubs.sciepub.com/aees/8/5/18/index.html)
DOI: 10.12691/aees-8-5-18
- vi). Waithaka, A., **S.K. Murimi**. & K. Obiero. (2020). Effects of Temporal Rainfall Variability on Water Quality of River Ruiru, Kiambu County, Kenya. In, *ChemSearch Journal* 11(1), 2020; ISSN: 2276707x. Pp. 59 – 65.
[Link to this article, download at: - https://www.ajol.info/index.php/csj/article/download/197382/186205](https://www.ajol.info/index.php/csj/article/download/197382/186205) <https://www.ajol.info/csj/article/view>

vii). Gachie, E.B. & **S.K. Murimi** (2019): “Why geographic information systems in spatiotemporal crime analysis? Attitude of Kenyan police officers”. In. *Police Practice and Research. Volume 22, Issue 5*. DOI: 10.1080/15614263.2019.1689131.

Link to this article: -

<https://www.tandfonline.com/doi/abs/10.1080/15614263.2019.1689131>

[https://www.tandfonline.com > ... > Volume 22, Issue 5](https://www.tandfonline.com/doi/abs/10.1080/15614263.2019.1689131)

<https://doi.org/10.1080/15614263.2019.1689131>

viii). Baraka, E.G. & **Murimi, S.K.** (2019). Stuck in the Past with Push-Pins on Paper Maps: Challenges of Transition from Manual to Computerized Crime Mapping and Analysis in Kenya. In, *International Journal of Police Science & Management* 2019. Vol. 21(1): 36-47. <https://journals.sagepub.com/doi/full/10.1177/1461355719832620>

DOI: 10.1177/1461355719832620

Link to this paper: - <https://journals.sagepub.com/doi/pdf/10.1177/1461355719832620>

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ix). Koimburi, J.K., Shisanya, C.A., **Murimi, S.K.** & Petterson, R. (2019). Impacts of Climate Variability on Maize Yields in Bahati Sub-County, Kenya. In, *Applied Ecology and Environmental Sciences*, 2019, Vol. 7, No. 2: 45-55. DOI: 10.12691/aees-7-2-2

Link to this article:-

https://www.researchgate.net/publication/331984051_Impacts_of_Climate_Variability_on_Maize_Yields_in_Bahati_Sub-County_Kenya

x). Khatib, M; Obando, J and Murimi, S. (2018). “Effects of Irrigation Management Practices on Water Allocation among Farmers in Kiladeda Sub-Catchment, Tanzania”. In, *Hydrology and Best Practices for Managing Water Resources in Arid and Semi-Arid Lands Journal*. IGI Global Publishers. Chapter 4, pp 70 - 86. DOI: 10.4018/978-1-5225-2719-0.ch004

Link to this article:-

<https://www.igi-global.com/chapter/effects-of-irrigation-management-practices-on-waterallocation-among-farmers-in-kiladeda-sub-catchment-tanzania/186051>

https://www.researchgate.net/publication/319929638_Effects_of_Irrigation_Management_Practices_on_Water_Allocation_Among_Farmers_in_Kiladeda_Sub-Catchment_Tanzania

[https://www.igi-global.com > chapter > effects-of-irrigation-management-practices-on-waterallocation-among-farmers-in-kiladeda-sub-catchment-tanzania/186051](https://www.igi-global.com/chapter/effects-of-irrigation-management-practices-on-waterallocation-among-farmers-in-kiladeda-sub-catchment-tanzania/186051) DOI: 10.4018/978-1-5225-2719-0.ch004

xi). Koimburi, J.K., Shisanya, C.A., **Murimi, S.K.** & Petterson, R. (2018). Analysis of Rainfall and Temperature Trends in Bahati Sub-County, Kenya. In, *Asian Journal of Applied Sciences* (ISSN: 23210893) Volume 06-Issue 06, December, 2018: 579-590.

DOI: <https://doi.org/10.24203/ajas.v6i6.5651>

Link to this article: -

https://www.researchgate.net/publication/329813962_Analysis_of_Rainfall_and_Temperature_Trends_in_Bahati_Sub-County_Kenya

<https://www.ajournalonline.com/index.php/AJAS/article/view/5651>

xii). Mwangi, A., **Murimi, S.K.** & Makokha, G.L. (2019). Effects of Change in Landuse Activities and Land cover on Ragati River. In, *European Journal of Sustainable Development Research*. 2019, 3(4); em0102; ISSN: 2542 - 4742. <https://doi.org/10.29333/ejosdr/5947> xi). Mutuma, E., Mahiri, I., Murimi, S., Njeru, P. (2015). Adoption of Water Resource Conservation under Fluctuating Rainfall Regimes in

Ngaciuma/Kinyaritha Watershed, Meru County, Kenya. In: Leal Filho, W., Esilaba, A., Rao, K., Sridhar, G. (eds) *Adapting African Agriculture to Climate Change*.

Climate Change Management. Springer, Cham.

DOI: [10.1007/978-3-319-13000-2_14](https://doi.org/10.1007/978-3-319-13000-2_14)

https://doi.org/10.1007/978-3-319-13000-2_14

xiii). Shikuku, E.T., **Murimi, S.K.** & Macharia, A. (2018). Stream flow Responses to Land use/ Land Cover Changes in Kimondi Watershed, Yala River Basin, Nandi County, Kenya. In, *IISTE Journal of Environment and Earth Science (JEES@iiste.org)*. ISSN (Paper) 2224-3216 ISSN (Online) 2225-0948.

xiii). Jokha M., **S. Murimi** & C. Kihampa, (2014). “Degradation of water resources by agricultural pesticides and nutrients, Weruweru, Tanzania”. In, *Iranica Journal of Energy and Environment*, 5(2): pgs. 192-201.

DOI: 10.5829/idosi.ijee.2014.05.02.1

https://www.ijee.net/article_64525_bb3b36334796bb617626108ce610929c.pdf

F). Chapters in University Level Scholarly Books (2) since last Promotion

i). Authors: - Mwadini, K., J. Obando, & **S. Murimi**. (2018). Chapter Title: - Effects of Irrigation Management Practices on Water Allocation among Farmers in Kiladeda Sub-Catchment, Tanzania. Chapter 4: In. **Book Title: Hydrology and Best Practices for Managing Water Resources in Arid and Semi-Arid Lands**. Editors: C.M. Ondieki; J.U. Kitheka. Publishers: - IGI Global. U.S.A. [Pp. 70 – 92].

ii). Authors: - Mutuma E, Mahiri I, **Murimi S**, & Njeru P. (2015). Chapter Title: - Adoption of water resource conservation under fluctuating rainfall regimes in Ngaciuma/Kinyaritha watershed, Meru County, Kenya. Chapter 14: In. **Book Title: Adapting African Agriculture to climate change, climate change Management**: Editors: Walter LF, Esilaba AO, Rao KPC, Sridhar G. Publishers: - Springer, 2015. [Pp 159-169]. ISBN 978-3-319-12999-0. DOI: 10.1007/978-3-319-13000-2_14.

G). Two (2) Reviewed Conference Papers since last Promotion.

i). Title of Conference: - 5th Alexander Von Humboldt “Kolleg” Conference: - On “The role of Alumni networks in mentorship and collaboration in multidisciplinary research: Foundation for Kenya’s vision 2030; Held at Sportsman’s Arms Hotel, Nanyuki, Kenya: - 19th – 21st June, 2018. Paper Presented: - **DR. Murimi S.K.**- Assessment of the contribution of climate change on the spatial-temporal dynamics of Central Rift Valley lake basins in Kenya.

ii). Conference Title: - 11th International conference of African Association of Remote Sensing of the Environment (AARSE 2016); Kampala, Uganda (24th – 28th October, 2016).

Conference organizers: - UNDP; AARSE; Makerere University (Centre for Climate Change Research and Innovation (MUCCRI)). Paper Presented: - **DR. S.K. Murimi**: - “Reconstruction of quaternary and current spatial-temporal trends in the central rift valley lake basins in Kenya through satellite imagery processing and GIS analysis”. In. The 11th International Conference of the African Association of Remote Sensing of the Environment (AARSE 2016).

H). Sixteen (16) Selected Conferences/Workshops/Academic Seminars Attended since last Promotion

i). Title of Workshop: - IDRC-ACTS Blue Empowerment Project. 27th April 2022. Diani Reef Hotel, Kwale County, Kenya.

DR.SHADRACK K. MURIMI: - CURRICULUM VITAE (CV):- March 2025

- ii). Title of Workshop: - Foundations for Learning under Longitudinal Study Stakeholders Workshop
Project: - Aga Khan University - Institute for Educational Development, East Africa (AKU-IED, EA).
9th - 12th March, 2022, Nyali Beach Hotel, Mombasa, Kenya.
- iii). Title of Workshop: - “Building Research Capacity for Sustainable Water and Food Security in Drylands of Sub-Saharan Africa (BRECcIA)”. 27th January - 4th February 2022, La Mada Hotel, Nairobi and San Marino Hotel, Kitui, Kenya.

- iv). BRECCIA Project Workshop: - “Academic Course Enhancement Workshop”. 3rd - 4th March, 2022. Hotel La Mada, Nairobi.
- v). Title of Workshop: - “Foundations for Learning under Longitudinal Study Stakeholders Workshop Project: - Aga Khan University - Institute for Educational Development, East Africa (AKU-IED, EA)”. 9th - 12th March, 2022, Nyali Beach Hotel, Mombasa, Kenya.
- vi). Title of Workshop: - “Education for Sustainable Development in Africa – Sustainable Urban Development”. ESDA Workshop II, under the Theme: Theory and Methods in Sustainability. Organized by ESDA, Kenyatta University. Date: - 26th March, 2018, Kenyatta University, Nairobi, Kenya.
- vii). Title of Workshop: - “*Second Kenyan-German Water Week, 2017*”:- Organized by Water Experts from German in partnership with German Water Partnership (GWP) and Kenya Water Institute (KEWI), Nairobi. Date: - October 09th – 12th 2017, at KEWI, Nairobi, Kenya.
- viii). Conference Title: - “11th International conference of African Association of Remote Sensing of the Environment (AARSE 2016)”. Kampala, Uganda (24th – 28th October, 2016).
- ix). Title of Conference: - “CTBTO meeting with Stakeholders”. Date: - 16th August, 2016. NACOSTI Conference Room, Utalii House, Nairobi.
- x). Title of workshop: - “Workshop IV – Participatory GIS and E-Learning - Uganda”. Date: - 25th to 29th July, 2016. Jinja Resort, Jinja – Uganda.
- xi). Title of Workshop: - “2nd Workshop on UAV-based Remote Sensing for Smallholder Cropping Systems in East Africa”. 6th – 7th June, 2016. Nairobi, Kenya.
- xii). Title of Conference: - HRK German Rectors’ Conference, 26th May, 2016. Kilifi, Kenya.
- xiii). Title of Conference: - Kenya DAAD, KDSA Annual Conference, 27th May, 2016. Kilifi Bay Hotel, Kilifi, Kenya.
- xiv). Title of workshop: - “E-Learning & Participatory Geographic Information Systems (PGIS)”. Date: - 02/11/2015 – 06/11/2015. Place: - Castle Hotel Mt. Kenya, Kenya. Activities: - Keynote address/Seminar opening remarks: - Title of Keynote Presentation: “Participatory Geographical Information System (PGIS) as a Research Tool in Mapping Communities Watershed Use, Planning and Management”.
- xv). Title of workshop: - “Didactics and E-Learning for Integrated Watershed Management (IWM) at School Level”. Date: - 13th to 18th July, 2015. Freie University, Berlin, Germany. Activities: - Lecture series, Participatory 3D modeling.
- xvi). Title of Seminar: - International German Academic Exchange Service (DAAD) Expert Seminar “Integrated solutions to answer challenges of food insecurity in times of climate change: Learning from Abraha we Atsbeha IWM project, Tigray”. 14th – 24th April, 2015. Mekelle, Ethiopia.

I). Academic Research Projects since last Promotion a). Completed (Two (2))

- i). **Research Project Title:** *Using Geographic Information System (GIS) in crime mapping and analysis in Kasarani Sub-County, Nairobi County, Kenya*: - **DR. Shadrack K. Murimi**: Principal Investigator (PI)); DR. F. Kinyanjui: - Co-PI. Funding Institution/Agency: Kenyatta University; Vice Chancellor’s research grant (2017/2018) academic year. **Status:** - Close-Out Report: - 24th August 2021.
- ii). **Research Project Title:** - *Integrated solutions to answer challenges of food insecurity in times of climate change: Learning from Abraha we Atsbeha IWM project, Tigray, Mekella, Ethiopia*: - **DR. S.K. Murimi** Research Team (RT). Funding Institutions/Agencies: - Relief Society of Tigray (REST); Ministry of Agriculture

and Natural Resources Development, Ethiopia; German International Cooperation (GIZ); and DAAD. Status: - Completed - 2015.

b). Evidence of Research Grant Applications (Two (2))

i). **Research Project Title:** - *Geospatial Surveillance of Desert Locusts Using Geographic Information System and Remote Sensing for Proactive and Reactive Interventions, in Kenya*: - **DR. Shadrack K. Murimi (PI)**.

Submitted for Funding: NATIONAL RESEARCH FUND: -
COLLABORATIVE INTERVENTIONS TO CONTROL DESERT LOCUSTS INVASION IN KENYA; 2019/2020 FINANCIAL YEAR.

ii). **Research Project Title:** - *Applications of innovative remote sensing tools and climate vulnerability and capacity analysis methodologies in assessing food and nutrition security in agro-ecological zones in river tana basin, Kenya*: -

DR. Shadrack K. Murimi (PI). Submitted for Funding: NATIONAL RESEARCH FUND: -
MULTIDISCIPLINARY RESEARCH GRANT PROGRAMME, KENYA; 2017/2018 -
FINANCIAL YEAR.

J). Postgraduate Thesis/Projects Supervision and Examination since Last Promotion

i). **Completed** Ph.D supervision (2)

ii). **On-going** Ph.D supervision (2)

iii). **Completed Master** of Science & Arts Thesis/Project Supervisions (20).

iv). **On-going Masters/Projects** (11)

v). **Thesis Examination:** - Internal Examiner Non-Supervisor (13)

K). External Examination since last Promotion

- i). Appointment as External Examiner: - Chuka University, Department of Geography from 1st April, 2021 - Present.

- Moderation of Examination Question Papers (February, 2025)

- Moderation of Examination Question Papers (November 2024) - Moderation of Examination Papers (February, 2022)

ii). Appointment as External Examiner: - Maasai Mara University, Department of Geography from 23rd June 2021 - 23st June, 2024.

- Moderation of Exam results (11th - 16th November, 2021)

- Moderation of Exam Question papers (March, 2022)

- iii). Embu University: - External Examination; Department of Land and Water management and School of Agriculture; 14th August 2019.

- iv). Makerere University (Uganda):- External Examination; College of Agricultural and Environmental Sciences; Department of Geography and Natural Resources (2015)

L). Community Service/Outreach and Engagement a). Community and Outreach services

i). May 2022: - Invitation to carry out Environmental and Social Impact Assessment (ESIA) on the Proposed Taifa Gas Investment SEZ Limited Project of Liquefied Petroleum Gas (LPG) plant, Kwale County, Kenya

ii). Chairman: - Kenyatta University Nyeri Staff Association (KUNSA)

iii). Serving as member of Board of Directors: - Nyeri County; KUNSWA Investment Company Ltd. iv). Member of Murang'a High School Old Boys Committee.

b). Membership to Associations/Clubs/Groups/e.t.c.

- i). The International Society for Participatory Mapping (ISPM). Executive Committee member - Africa Hub.
- ii). Member of Geo-Information Society of Kenya (GSK)
- iii). Member of Integrated Watershed Management in Eastern Africa (IWMNet)
- iv). Member: - Public Participatory Geographic Information System (PPG4).
- v). Geothermal Association of Kenya (GAK).
- vi). DAAD Deutscher Akademischer Austausch Dienst German Academic Exchange Service; Kenya DAAD Scholars Association (KDSA).
- vii). German Alumni Water Network (**GAWN**) in the Alumniportal Deutschland Community.
- viii). Member of Unmanned Aerial Vehicle (UAV) – ARSIS Community.

1.2 PUBLICATIONS

1.2.1 Referred Journals

- i). Tela, S.A; Kweyu, R. and **Murimi, S.K.** (2022). Influence of Land use cover on selected water quality parameter of River Isiuku, Kenya. In, *International Journal of Water Research, Vol 4, Issue 4*. DOI: <https://doi.org/10.36266/IJWR/141>
- ii). Bukoma, E., Obando, J., & **Murimi, S.** (2022). Assessment of Runoff and Soil Loss under Natural Vegetation Cover and Rainfall in a Semi-Arid Catchment, West Pokot County, Kenya. *East African Journal of Environment and Natural Resources*, 5(1), 134-147. <https://doi.org/10.37284/eajenr.5.1.658>
Link to this article: - DOI: <https://doi.org/10.37284/eajenr.5.1.658> Correspondence ORCID ID: <https://orcid.org/0000-0003-0844-0871>
- iii). Waithaka, A., **S.K. Murimi.** & K. Obiero. (2020). Assessing the Effects of Land Use/Land Cover Change on Discharge Using SWAT Model in River Ruiru Watershed, Kiambu County. In, *Applied Ecology and Environmental Sciences, 2020, Vol. 8, No. 5*; DOI: 10.12691/aees-8-5-18. Pp. 303 – 314. Link to this article: - <http://pubs.sciepub.com/aees/8/5/18/index.html>
DOI: 10.12691/aees-8-5-18
- vi). Waithaka, A., **S.K. Murimi.** & K. Obiero. (2020). Effects of Temporal Rainfall Variability on Water Quality of River Ruiru, Kiambu County, Kenya. In, *ChemSearch Journal 11(1), 2020; ISSN: 2276707x*. Pp. 59 – 65.
Link to this article, download at: - <https://www.ajol.info/index.php/csj/article/download/197382/186205> <https://www.ajol.info/csj/article/view>
- v). Gachie, E.B. & **S.K. Murimi** (2019): “Why geographic information systems in spatiotemporal crime analysis? Attitude of Kenyan police officers”. In. *Police Practice and Research. Volume 22, Issue 5*. DOI: 10.1080/15614263.2019.1689131.
Link to this article: - <https://www.tandfonline.com/doi/abs/10.1080/15614263.2019.1689131>
<https://www.tandfonline.com/doi/abs/10.1080/15614263.2019.1689131> > ... > Volume 22, Issue 5
<https://doi.org/10.1080/15614263.2019.1689131>
- vi). Gachie Eliud Baraka & **Shadrack Kiana Murimi** (2021) Why geographic information systems in spatiotemporal crime analysis? Attitude of Kenyan police officers, *Police Practice and Research*, 22:5, 1453-1468, DOI: 10.1080/15614263.2019.1689131 **To link to this article:** <https://doi.org/10.1080/15614263.2019.1689131>

<https://www.tandfonline.com/doi/pdf/10.1080/15614263.2019.1689131?needAccess=true> vii). Baraka, E.G. & **Murimi, S.K.** (2019). Stuck in the Past with Push-Pins on Paper Maps: Challenges of Transition from Manual to Computerized Crime Mapping and Analysis in Kenya. In, *International Journal of Police Science & Management* 2019. Vol. 21(1): 36-47. DOI: 10.1177/1461355719832620

Link to this article: - Download pdf: -

<https://journals.sagepub.com/doi/pdf/10.1177/1461355719832620>

Browse at: - <https://doi.org/10.1177/1461355719832620>

viii). Koimburi, J.K., Shisanya, C.A., **Murimi, S.K.** & Petterson, R. (2019). Impacts of Climate Variability on Maize Yields in Bahati Sub-County, Kenya. In, *Applied Ecology and Environmental Sciences*, 2019, Vol. 7, No. 2: 45-55. DOI: 10.12691/aees-7-2-2

Link to this article:-

https://www.researchgate.net/publication/331984051_Impacts_of_Climate_Variability_on_Maize_Yields_in_Bahati_Sub-County_Kenya ix).

Khatib, M; Obando, J and **Murimi, S.** (2018). “Effects of Irrigation Management Practices on Water Allocation among Farmers in Kilaleda Sub-Catchment, Tanzania”. In, *Hydrology and Best Practices for Managing Water Resources in Arid and Semi-Arid Lands Journal*. IGI Global Publishers. Chapter 4, pp 70 - 86. Link to this article:-

<https://www.igi-global.com/chapter/effects-of-irrigation-management-practices-on-waterallocation-among-farmers-in-kilaleda-sub-catchment-tanzania/186051>

https://www.researchgate.net/publication/319929638_Effects_of_Irrigation_Management_Practices_on_Water_Allocation_Among_Farmers_in_Kilaleda_Sub-Catchment_Tanzania <https://www.igi-global.com/chapter/effects-of-irrigation-management-practices-on-waterallocation-among-farmers-in-kilaleda-sub-catchment-tanzania/186051>

DOI: 10.4018/978-1-5225-2719-0.ch004

x). Koimburi, J.K., Shisanya, C.A., **Murimi, S.K.** & Petterson, R. (2018). Analysis of Rainfall and Temperature Trends in Bahati Sub-County, Kenya. In, *Asian Journal of Applied Sciences (ISSN: 23210893) Volume 06-Issue 06, December, 2018*: 579-590.

Link to this article: - <https://www.researchgate.net/publication/329813962> ...

<https://www.researchgate.net/publication/329813962> ...

https://www.researchgate.net/publication/329813962_Analysis_of_Rainfall_and_Temperature_Trends_in_Bahati_Sub-County_Kenya <https://www.ajouronline.com/article/view> xi).

Mwangi, A., **Murimi, S.K.** & Makokha, G.L. (2019). Effects of Change in Landuse Activities and Land cover on Ragati River. In, *European Journal of Sustainable Development Research*. 2019, 3(4); em0102; ISSN: 2542 - 4742.

<https://doi.org/10.29333/ejosdr/5947> xii). Mutuma, E., Mahiri, I., **Murimi, S.**, Njeru, P. (2015). Adoption of Water Resource Conservation under Fluctuating Rainfall Regimes in Ngaciuma/Kinyaritha Watershed, Meru County, Kenya. In: Leal Filho, W., Esilaba, A., Rao, K., Sridhar, G. (eds) *Adapting African Agriculture to Climate Change*. Climate Change Management. Springer, Cham. DOI: [10.1007/978-3-319-13000-2_14](https://doi.org/10.1007/978-3-319-13000-2_14) https://doi.org/10.1007/978-3-319-13000-2_14

xiii). Jokha M., **S. Murimi** & C. Kihampa, (2014). “Degradation of water resources by agricultural pesticides and nutrients, Weruweru, Tanzania”. In, *Iranica Journal of Energy and Environment*, 5(2): pgs. 192-201.

DOI: 10.5829/idosi.ijee.2014.05.02.1

https://www.ijee.net/article_64525_bb3b36334796bb617626108ce610929c.pdf xiv). Shikuku, E.T., **Murimi, S.K.** & Macharia, A. (2018). Stream flow Responses to Land use/ Land Cover Changes in

Kimondi Watershed, Yala River Basin, Nandi County, Kenya. In, *IISTE Journal of Environment and Earth Science* (JEES@iiste.org). ISSN (Paper) 2224-3216 ISSN (Online) 2225-0948.

xv). **Murimi, S.K.**, Prasad, H. & Obando, J., (2011) “*Change detection of Mau forest cover and Lake Nakuru, using multi-temporal remote sensing data and GIS techniques*,” In, G.Forch (eds) SERIES, VOL. 9. CICD.

Lake and Catchment Research Symposium Proceedings. (LARS, 2011), Pp 161 – 177.

xvi). Kweyu, R., Obando J. & **Murimi, S.K** (2011) “*Trees Outside Forests as influenced by Land Use and Socio-Economic factors in River Sio basin, Kenya*”; In, G.Forch (eds) SERIES, VOL. 9. CICD. Lake and Catchment Research Symposium Proceedings. (LARS, 2011), Pp 95 – 104.

xv). **S.K. Murimi.** & Prasad, H. (2010): “Water Resource Utilization, Impact and Management in the Lake Nakuru Watershed in Kenya”, *Journal of Contemporary Management Research, Vol. 1, Issue-2, 2010; pgs. 2-13.*

xvii). Barthelme, J; **Murimi, S.K.**; Ngari, L.; Kweyu, R; Kipintoi, W. & Kurt, H. (2009). “Renewed Survey and Excavations in the Lake Magadi Basin, Southern Kenya”. *NYAME AKUMA Journal; No.71 pgs. 54-62.*

xviii). Barthelme, J.W., **Murimi, S.**, Ngari, L. Delong, R., Statler, T., Chartier, R., & Munyazi, W. (2006). “Undergraduate Field course and Research in the Lake Magadi Basin, Kenya”. June 2007. *Unpublished Report to the Ministry of Education, Science and Technology and National Museums of Kenya.*

xviii). **Murimi, S.K.** & H. Prasad. (2005): “Land use changes and hydrological responses in the Lake Nakuru Basin”, *Sustainable Management of Headwater Resources Journal; 2005 pgs. 155-164.*

xix). Ondieki, C.M. & **S.K. Murimi.** (2004): “Applications of Geographic Information Systems”, *Encyclopedia of Life Support Systems (EOLSS), 2004, UNESCO.* xviii). Barthelme, J; **Murimi, S.K.**; Ngari, L. (2003). “Recent Archaeological Research in the Lake Magadi Basin, Southern Kenya”. *NYAME AKUMA Journal; No. 60 pgs. 8-13.* xx). **Murimi, S.K.** & H. Prasad. (2002): “Modelling Potential Soil Erosion in Lake Nakuru Drainage Basin”, *Ecohydrology Journal, Vol 3 pgs. 65 - 74.* xxi). **Murimi, S.K.,** (1994). “Falling water levels in saline lakes of central Rift Valley of Kenya”. *The International Journal of Salt Lake Research; Vol. 3 pgs. 65-74.*

xxii). **Murimi, S.K.**, (1993). “The drying up of East Africa Rift Valley Lakes in recent times; the case of Lake Elmenteita, Kenya”. *Journal of Eastern African Research and Development; Vol. 23 pgs. 4062.*

1.2.2 University Level Scholarly Book Chapters

i). Authors: - Mwadini, K., J. Obando, & **S. Murimi.** (2018). Chapter Title: - Effects of Irrigation Management Practices on Water Allocation among Farmers in Kiladeda Sub-Catchment, Tanzania. Chapter 4: In. Book Title: *Hydrology and Best Practices for Managing Water Resources in Arid and Semi-Arid Lands.* Editors: C.M. Ondieki; J.U. Kitheka. Publishers: - IGI Global. U.S.A. [Pp. 70 – 92].

ii). Authors: - Mutuma E, Mahiri I, **Murimi S,** & Njeru P. (2015). Chapter Title: - Adoption of water resource conservation under fluctuating rainfall regimes in Ngaciuma/Kinyaritha watershed, Meru County, Kenya. Chapter 14: In. Book Title: - *Adapting African Agriculture to climate change, climate change Management.* Editors: Walter LF, Esilaba AO, Rao KPC, Sridhar G. Publishers: - Springer, 2015. [Pp 159-169]. ISBN 978-3-319-12999-0. DOI: 10.1007/978-3-319-13000-2_14.

iii). Authors: - **S.K. Murimi** & H. Prasad. Chapter Title: - Landuse Changes and Hydrological Responses in the Lake Nakuru Basin [PART Chapter 4: In. Book Title: - *Sustainable Management of Headwater Resources: Water Resources Management and Policy.* ISBN 92-808-1108-8. Editors: - Jansky, L, Haigh M.J. and Haushila, P. Publishers: - United Nations University Press (2005); Tokyo, Japan. Pp.

155-164]. [<http://www.unu.edu>; press@hq.unu.edu] iv). Authors: - Ondieki, C.M. & **Murimi, S.K.** (2004). **Chapter Title:** -Applications of Geographic Information Systems. In. **Book Title:** - *Environmental Monitoring, VOL II (2004)*.

Developed under the auspices of UNESCO, Encyclopedia of Life Support Systems (EOLSS); UNESCO **Publishers**, Oxford, UK. [EOLSS BOOK E6-38A-06-05]/[<http://www.eolss.net>] [<http://www.eolss.net/Sample-Chapters/C09/E6-38A-06-05>]

Full chapter Access link: - [http://www.eolss.net/Eolss-sample AllChapter.aspx](http://www.eolss.net/Eolss-sample%20AllChapter.aspx)

v). Authors: - **Murimi, S.K.** & Prasad, H. Chapter Title: - Modeling Potential Soil Erosion in Lake Nakuru Drainage Basin. Section 4: Chapter 6: In. Book Title: - *ECOHYDROLOGY, (2001)*. *UNESCO-IHP Series:* - ISBN-81-85589-06-2. Editors: - V. Subramanian and AL. Ramanathan. Publisher: - Capital Publishing Company; New Delhi, India:-452 Pagea. [Pp. 403 – 414]. Capub2000@mantramail.com.

1.2.3 Referred Learning Modules

a). Undergraduate Degree Programme Modules

- i). AGE 102: Physical Geography I ii). AGE 316: Oceanography I & AGE 416: Oceanography II iii). AGE 317: Geographic Information System (GIS) I & AGE GIS II iv). AGE 400: Remote Sensing and Resource Management v). AGE 401: Environmental Conservation.
- vi). AGE 402: Surveying vii). TSA 103: Introduction to Ecology viii). TSA 105: Human-Wildlife conflict, Education and Extension.
- ix). TSA 206: Biodiversity and Conservation
- x). TSA 414: Environmental \theory and Information Systems.
- xi). AGE 820: Geomorphological Principles I

b). Postgraduate Courses Taught:- Master of Science (MSc); Master of Arts (MA); Master of Science in Hydrology and water Resources (MSc-HWR) & Master of Science in Integrated Watershed management (MSc-IWM)

- i). AGE 820: Geomorphological Principles I & AGE 821: Geomorphological Principles II ii). AGE 823: Geomorphological Techniques
- iii). AGE 850: Hydrological Data Management & Processing iv). AGE 861: Remote Sensing & GIS
- v). AGE 865: Watershed Land use, Planning & Management.

1.2.4 Reviewed Conference Papers

- i). Conference Title: - 11th International conference of African Association of Remote Sensing of the Environment (AARSE 2016); Kampala, Uganda (24th – 28th October, 2016). Conference organizers: - UNDP; AARSE; Makerere University (Centre for Climate Change Research and Innovation (MUCCRI)). Paper reviewed: - **DR. S.K. Murimi:** - “*Reconstruction of quaternary and current spatial-temporal trends in the central rift valley lake basins in Kenya through satellite imagery processing and GIS analysis*”. In. The 11th International Conference of the African Association of Remote Sensing of the Environment (AARSE 2016). ii). Conference Title: - International Conference on Sustainable Management of Headwater Resources. Proceedings of Sustainable management of headwater resources, Research from Africa and India conference, United States International University, Nairobi, Kenya, 5 – 8th September, 2002. Conference Organizers: - United Nations University, Japan and United

States International University, Nairobi, Kenya. Paper Presented: - **S.K. Murimi** “Land use changes, extreme events and hydrological responses in the Lake Nakuru drainage basin”. In. *Proceedings of Sustainable management of headwater resources, Research from Africa and India conference, United States International University*.

[<http://www.unu.edu>; press@hq.unu.edu]. iii). Conference Title: - Land and Water Management in Kenya: Towards sustainable land use.

Proceedings of the Fourth National Workshop, Kikuyu, Kenya, 15 – 19th February, 1993.

Conference Organizers: - University of Nairobi; Faculty of Agriculture.

Paper reviewed: - **S.K. Murimi** “The drying of East African Rift Valley lakes in recent times with special reference to Lake Elmenteita”. In: - Land and water management in Kenya: Towards sustainable land use.

ISBN: - 9966-9690-0-4; Record: - Number 20013004114.

1.2.5 Non-Reviewed Conference Papers

i). Title of Conference: - 5th Alexander Von Humboldt “Kolleg” Conference: - On “The role of Alumni networks in mentorship and collaboration in multidisciplinary research: Foundation for Kenya’s vision 2030; Held at Sportsman’s Arms Hotel, Nanyuki, Kenya: - 19th – 21st June, 2018. Paper reviewed: - **DR. Murimi S.K.**- *Assessment of the contribution of climate change on the spatial-temporal dynamics of Central Rift Valley lake basins in Kenya*. In, The role of Alumni Networks in Mentorship and Collaboration in Multidisciplinary Research: Foundation for Kenya’s Vision 2023.

ii). Conference Title: - Lake & Catchment Research Symposium; Water, Sanitation and Energy for Sustainable Livelihoods, (LARS); Kenyatta University, Nairobi, Kenya, 14th – 18th March, 2011. Conference Organizers: - Kenyatta University; Centre for International Capacity Development (CICD); University of Dar es salaam; Makerere University and University of Zambia.

Paper reviewed: - DR. S.K. Murimi “Change Detection of Mau Forest Cover and Lake Nakuru, Using MultiTemporal Remote Sensing Data and GIS Techniques”. In. The Center for International Capacity Development (CICD) research symposium proceedings; Universitat Siegen, Germany. CICD Series; ISSN: 1868-8578: info@cicd.uni-siegen.de

1.2.6 Selected Conferences/Workshops/Academic Seminars Attended

i). Title of Workshop: - “Building Research Capacity for Sustainable Water and Food Security in Drylands of Sub-Saharan Africa (BRECCIA)”. 27th January - 4th February 2022, La Mada Hotel, Nairobi and San Marino Hotel, Kitui, Kenya. ii). BRECCIA Project Workshop: - “Academic Course Enhancement Workshop”. 3rd - 4th March, 2022. Hotel La Mada, Nairobi.

iii). Title of Workshop: - “Foundations for Learning under Longitudinal Study Stakeholders Workshop Project: - Aga Khan University - Institute for Educational Development, East Africa (AKU-IED, EA)”. 9th - 12th March, 2022, Nyali Beach Hotel, Mombasa, Kenya.

iv). Title of Workshop: - “Education for Sustainable Development in Africa – Sustainable Urban Development”. ESDA Workshop II, under the Theme: Theory and Methods in Sustainability. Organized by ESDA, Kenyatta University. Date: - 26th March, 2018, Kenyatta University, Nairobi, Kenya.

v). Title of Workshop: - “*Second Kenyan-German Water Week, 2017*”:- Organized by Water Experts from German in partnership with German Water Partnership (GWP) and Kenya Water Institute (KEWI),

- Nairobi. Date: - October 09th – 12th 2017, at KEWI, Nairobi, Kenya. vi). Conference Title: - “11th International conference of African Association of Remote Sensing of the Environment (AARSE 2016)”. Kampala, Uganda (24th – 28th October, 2016).
- vii). Title of Conference: - “CTBTO meeting with Stakeholders”. Date: - 16th August, 2016. NACOSTI Conference Room, Utalii House, Nairobi. viii). Title of workshop: - “Workshop IV – Participatory GIS and E-Learning - Uganda”. Date: - 25th to 29th July, 2016. Jinja Resort, Jinja – Uganda.
- ix). Title of Workshop: - “2nd Workshop on UAV-based Remote Sensing for Smallholder Cropping Systems in East Africa”. 6th – 7th June, 2016. Nairobi, Kenya.
- vii). Title of Conference: - HRK German Rectors’ Conference, 26th May, 2016. Kilifi, Kenya.
- viii). Title of Conference: - Kenya DAAD, KDSA Annual Conference, 27th May, 2016. Kilifi Bay Hotel, Kilifi, Kenya.
- x). Title of workshop: - “E-Learning & Participatory Geographic Information Systems (PGIS)”. Date: - 02/11/2015 – 06/11/2015. Place: - Castle Hotel Mt. Kenya, Kenya. Activities: - Keynote address/Seminar opening remarks: - Title of Keynote Presentation: “Participatory Geographical Information System (PGIS) as a Research Tool in Mapping Communities Watershed Use, Planning and Management”.
- xi). Title of workshop: - “Didactics and E-Learning for Integrated Watershed Management (IWM) at School Level”. Date: - 13th to 18th July, 2015. Freie University, Berlin, Germany. Activities: - Lecture series, Participatory 3D modeling.
- xii). Title of Seminar: - International German Academic Exchange Service (DAAD) Expert Seminar “Integrated solutions to answer challenges of food insecurity in times of climate change: Learning from Abraha we Atsbeha IWM project, Tigray”. 14th – 24th April, 2015. Mekelle, Ethiopia.
- xiii). Title of Conference: - “4th African Rift Geothermal Conference (ARGeo-C4), “Geothermal: Solution to Africa’s Energy Needs”, 21st – 23rd, November, 2012; UNEP, Nairobi, Kenya.
- xiv). Title of Seminar:- (DAAD) International Expert Seminar “Capacity Building in Integrated Management for Sustainable Natural Resource Management and Conflict Resolution in Transboundary Mountainous Ecosystems of Eastern Africa”. Mbale/Uganda, 3rd – 14th April, 2011.
- xv). Title of Symposium: - “Lake And catchment Research Symposium (LARS 2011)”. 14th – 18th March, Nairobi, Kenya.
- xvi). Title of Workshop: - “Participatory 3D Modeling and participatory Video”. 6th – 18th, December, 2010, Telecho, Ethiopia.
- xvii). Title of Workshop: - “Workshop and training in Remote sensing and GIS”. 2008, Tervuren, Brussels, Belgium.
- xviii). Title of Workshop: - “Isotope Hydrology Integration in Water Sector”. National Training Workshop held on 6th – 10th May, 2002; Nakuru, Kenya.

1.3 QUALITY TEACHING, LEARNING AND MENTORSHIP

1.3.1 Student Evaluation 1.3.2 Trainings in Higher Education

- i). Trained in: - Advanced Geospatial Analysis for Resource Assessment and Resilience using R and GIS software. Makerere University, Uganda: - 19th – 24th March, 2018.
- ii). Trained in: - “Education for Sustainable Development in Africa – Sustainable Urban Development”. ESDA Workshop II, under the Theme: Theory and Methods in Sustainability. Organized by ESDA, Kenyatta University. Date: - 26th March, 2018, Kenyatta University, Nairobi, Kenya.

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- iii). Training in: - “Role of Chairpersons of Department in the Implementation of University Policy”; Organized by Kenyatta University. Held on Monday 8th and 9th January, 2018 at, Kenyatta University; KUCC main Hall.
- iv). Trained on: - Participatory GIS and E-Learning. Date: - 25th to 29th July, 2016. Jinja Resort, Jinja – Uganda.
- v). Trained in: - Application of UAV-based Remote Sensing for Smallholder Cropping Systems in East Africa”, 6th – 7th June, 2016. Nairobi, Kenya.
- vi). Trained on: - “E-Learning & Participatory Geographic Information Systems (PGIS)” and “Research Tool in Mapping Communities Watershed Use, Planning and Management”.
Date: - 02/11/2015 – 06/11/2015. Place: - Castle Hotel Mt. Kenya, Kenya.
- vii). Trained in: - “Didactics and E-Learning for Integrated Watershed Management (IWM) at School Level”. Date: - 13th to 18th July, 2015. Freie University, Berlin, Germany. Activities: - Lecture series, Participatory 3D modeling.

1.3.3 Ongoing Supervision

a). Ongoing Ph.D Supervision

- i). Paul Nyaga Njue: - AD15/14166/14:- Chuka University. (Ph.D Thesis Title:- “Influence of Land use on Geomorphic Processes of Slope and Landform Evolution in Rupingazi River Basin, Embu County, Kenya”.
- ii). Cheplong, Caroline: - C82/2690/2018:- Presented Ph.D proposal at Departmental Board of Examiners Committee, Kenyatta University. (PhD Proposal Title “Spatial mapping of pest infestation in maize fields, Uasin Gishu County, Kenya”. Supervisors.

b). Ongoing Masters Supervision

	Name	Registration Number	Research Project Title	Supervisors	Status
1	Inyele Juliet	I56/25846/2018	Prioritization of soil erosion prone areas based on morphometric parameters and land use in river Garagoli watershed, Vihiga county Kenya.	DR. S.K Murimi DR. R. Kweyu	Submitted Final Thesis for examination
2	Munyiri, A.N.	C50/CE/24522 /2011	The role of community managed water projects in alleviating food insecurity through irrigation in NaroMoru Location, Nyeri county	DR. S.K. Muirmi Prof. J. Obando	Submitted Final Thesis draft for examination
3	Kamindo Jane Muthoni	C50/23685/2012	Effects of vegetation cover changes on surface water erosion processes in Ewaso Narok subcatchment in Laikipia county Kenya	DR. S.K. Murimi Prof. J. Obando	Compiling Final Thesis Draft

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4	Njage, K. Rose	C50/CE/25604 /2014	Assessment of impacts of landuse activities on watershed functions in Tungu river subcatchment in Tharaka-Nithi county, Kenya	DR. S.K. Murimi Prof. J. Obando	Compiling Final Thesis Draft
5	John Gichohi	S/201/CTY/PT /25768/2018	Adoption of geographic information systems (GIS) and remote sensing in crime analysis and its efficacy on police response in Nairobi city county, Kenya.	DR. S.K. Murimi DR. G. Owino	Submitted Thesis Draft for examination
6	Ruth Bonareri Momanyi	I56/33290/2015	Effects of the of LULC dynamics on water quality in Motoine/Ngong river, Nairobi river basin, Nairobi county	DR. S.K. Muirmi DR. K. Obiero	Compiling first Thesis draft
7	Mahilane, Shubbi.	I56/10421/2008	Community response to climate variability in Kiladeda Sub-Catchment of Pangani river basin, Tanzania.	DR. S.K. Murimi DR. G.L. Makokha	Compiling Final Thesis Draft
8	Karani, C.N.	C50/CE/11322 /2008	Effects of landuse changes and rainfall variability on Ndakaini dam and the watershed; Murang'a county, Kenya	DR. S.K. Murimi DR. G.L. Makokha	-Submitted first draft of the thesis
9	Mukiibi E.	I56EA/21225/2 010	Major landuse changes and their effects on hydrophysical soil properties in NgaciumaKinyaritha Sub-Catchment, Meru, Kenya.	DR. S.K. Murimi DR. I. Mahiri	-Collected and analyzed field data and compiling first draft of the thesis
10	Mwingira C.	I56EA/20382/2 010	Assessment of the impact of onsite sanitation systems on groundwater quality in Msimbazi Sub-Catchment, Dar-es-salaam, Tanzania	DR. S.K. Murimi DR. G.L. Makokha	-Collected and analyzed field data and compiling first draft of the thesis
11	Kamathi, M.	C50/CE/24878 /2012	The effects of vegetation on deposited sediments along Kiohonde stream in Mbeu area, Meru county, Kenya	DR. S.K. Murimi DR. P.M. Sinda	Compiling final research proposal

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12	Njage, K. Rose	C50/CE/25604 /2014	Assessment of impacts of landuse activities on watershed functions in Tungu river subcatchment in Tharaka-Nithi county, Kenya	DR. S.K. Murimi Prof. J. Obando	Compiling final research proposal
13	Kariuki, David	C50/CE/23967 /2012	Effects of drought on smallholder farmers' livelihoods and their coping and adaptive capacity in Kwale County, Kenya.	DR. S.K. Murimi DR. G.L. Makokha	Compiled first draft of thesis
14	Mutunga Mulwa	C50/CE/27911 /2013	Evaluation of the effects of landuse practices on soil erosion risks in Kitumui subcatchment; Kitui County, Kenya.	DR. S.K. Murimi Prof. J. Obando	Submitted proposal to Graduate School.

1.3.4 Completed Supervision of Postgraduate Students

1.3.4.1 Master's Thesis

	Name	Registration Number	Research Project Title	Supervisors	Status
1	Ronoh S.M.	C50/CE/24038/ 2011	An investigation of vulnerability index of communities living in landslide prone areas of Meteitei, Nandi County, Kenya	DR. S.K. Murimi DR. P. Muiruri	Graduated, Kenyatta University, December, 2021
2	Okode Polive Owino	C50/33510/2015	Spatio-temporal analysis of crime patterns using geographic information system methodologies in Nairobi city county, Kenya	DR. S.K. Murimi DR. P. Muiruri	Graduated, Kenyatta University, December, 2021
3	Daniel Wachira	C50/OL/ CTY/ 248/19 14	An assesment of soil erosion hazards in Kambiti subcatchment, Murang'a county, Kenya.	DR. S.K. Muirmi Prof. J. Obando	Graduated, Kenyatta University, December, 2021
4	Bukoma Emmanuel	C50/CE/26130/ 2011	Effect of vegetation cover on runoff and soil loss in Akiriamet-Kimpur catchment, west Pokot county, Kenya	DR. S.K. Muirmi Prof. J. Obando	Graduated, Kenyatta University, December, 2021

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5	Kweyu, Raphael M.	I56/12598/05	Spatial analysis of trees outside forests as influenced by land use categories in River Sio basin, Kenya	DR. S.K. Murimi Prof. J. Obando	Graduated and awarded M.Sc. October, 2009
6	Kirera Samuel J.M	I56/12598/05	Analysis of some soil physical properties on water availability in NgaciumaKinyaritha sub-catchment, Upper Tana basin, Kenya	DR. S.K. Murimi Prof. J. Obando	Graduated and awarded M.Sc. June, 2012
7	Kwame Samuel Norvixoxo	I56/10104/2007	The poverty-wealth nexus as a determinant of participation in watershed management in the Bwathanaro subcatchment of the Tana catchment in Meru, Kenya	DR. S.K. Murimi Prof. C. Shisanya	Graduated and awarded M.Sc. June, 2012
8	Evans Mutuma	I56/10079/07	Assessment of water resource conservation and accessibility: Case study of Ngaciuma, Imenti North District, Kenya	DR. S.K. Murimi DR. I. Mahiri	Graduated and awarded M.Sc. December, 2012
9	Tela, M. Moses	I56EA/12146/2009	Assessment of water resources utilization and management in chahi SubCatchment, Kisoro District, Uganda	DR. S.K. Murimi Prof. Majaliwa Mwanjalolo	Graduated and awarded M.Sc. December, 2012
10	Chiwa, Renny	I56/10422/2008	Land use/cover change and its effects on the hydrology of Kiladeda river in Pangani basin, Tanzania	DR. S.K. Murimi Dr. G.L. Makokha	Graduated and awarded M.Sc. December, 2012
11	Njuguna J.C	I56/13007/2009	Assessment of run-off generation and plant nutrients drain from four vegetation types in south Kinangop forest station of Aberdare catchment, Kenya	Prof. J. Obando DR. S.K. Murimi	Graduated and awarded M.Sc. on 17 th July, 2014

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12	Muchiri Kirathe	I56/CE/14347/2009	Plant species diversity decrease on some soil chemical properties; comparison between indigenous forest and deforested grassland at Kijabe Division, Lari District, Kiambu County (Kenya)	DR. S.K. Murimi Prof. J. Obando	Graduated and awarded M.Sc. on 17 th July, 2014
13	Jokha S. Mohamed	I56EA/22205/2011	Assessment of agricultural residue and concentration levels on water quality degradation in WeruweruKiladeda river subcatchment, Tanzania	DR. S.K. Murimi Dr. C. Kihampa	Graduated and awarded M.Sc. on 17 th July, 2015
14	Mwendwa, G. Ndanu	I56/20536/2012	Potential of roof rainwater harvesting for domestic water supply in upper Mikuyuni sub-catchment, Makueni county, Kenya.	DR. S.K. Murimi Prof. J.A. Obando	Graduated and awarded M.Sc, December, 2015
15	Albert Kobina Mensah	I56F/23072/2013	Effects of Eucalyptus plantation on soil physicochemical properties in Thiririka sub-catchment, Kiambu county, Kenya	DR. S.K. Murimi DR. A. Macharia	Graduated on 15 th July, 2016
16	Mwadini J. Khatib	I56EA/21668/2012	Management practices of irrigation water and their effects on water allocation among farmers in Kiladeda sub-catchment, Tanzania.	DR. S.K. Murimi Prof. J.A. Obando	Graduated on 15 th July, 2016
17	Njiru, B.E.	C50/21485/2012	Assessment of Urban expansion and its effects on agriculture in Kiambu county, Kenya	DR. S.K. Murimi DR. P. Muiruri	Graduated on 15 th July, 2016
18	Ronoh, L. Kiprotich	C50/CE/22299/2010	An assessment of effects of human activities on vegetation characteristics in	DR. S.K. Murimi Prof. J.A. Obando	Graduated on 15 th July, 2016
			Chepalungu forest, Bomet county, Kenya		

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19	Githae P. Thiga	C50/CE/26092/2011	The effects of increased women employment on gender power relations at the workplace in Naivasha flower farms, Nakuru County, Kenya	DR. S.K. Murimi DR. C. Masiga	Graduated on 15 th December, 2017
20	Eliud G. Baraka	C159/CY/PT/24640/2014	Preparedness of the Kenya National Police Service to adopt Geographic Information Systems (GIS) for Crime Measurement, Mapping and Evaluation.	DR. S.K. Murimi	Graduated on 15 th December, 2017

1.3.4.2 Ph.D. Completed

- i). Turyabanawe, Loy Gumisiriza (Ph.D. Kenyatta University, December 2014):- Thesis Title “Effects of Geomorphic Processes and Landuse Activities on Slope Instability in Mount Elgon Region, Eastern Uganda”). Supervisors: - DR. J.A. Obando; **DR. S.K. Murimi**.
- ii). Waithaka, Ann: (Ph.D. Kenyatta University, December 2021:- Thesis Title “Effects of landuse/landcover change on water resources availability and livelihoods in river Ruiru SubCatchment, Athi basin, Kenya”). Supervisors: - **DR. S.K. Murimi**; DR. K. Obiero.

1.3.4.3 External Examiner (Thesis/Project Examination) Non-Supervisor

- i). Makerere University (Uganda):- College of Agricultural and Environmental Sciences
Name of Candidate: - Mr. Oluka Moses (2008/HD19/13120U)
Degree Title: Msc. Environment and Natural Resources
Thesis Title “Assessment of Human Population Dynamics and Land Abandonment around Bwindi Impenetrable National Park: The Longer-Term Trends and Implications”. ii). Kenyatta University, School of Environmental Studies.
Name of Candidate: - Mr. Francis Mutuku Musau’s (N85/22533/2011)
Degree Title: Ph.D, Environmental Studies
Thesis Title: “Geospatial dimensions of the linkages between ecosystem services and sustainable community development in Shimba hills, Kwale County - Kenya”.
- iii). Name of Candidate: - MR. Cheruiyot Musa Kipchumba (N85/24130/2011)
Degree Title: Ph.D, Environmental Studies
Thesis Title: “Landscape restoration and environmental flow scenarios of the Malewa River, Nakuru and Nyandarua Counties, Kenya”. iv). Name of Candidate: - Mr. Maina Paul Mwangi (N50/CTY/PT/22693/12)
Degree Title: Master of Environmental Studies (M.ENV)
Thesis Title “The role of land use and land cover change in flood risk management in Kilifi County, Kenya”.
- v). Kariuki, Paul Njoroge (N50/5061/2003). M.ENV Thesis Title “An assessment of water resources use conflicts in Ngare Ndare Sub-catchment of Ewaso Ngiro North Basin in Kenya”.
- vi). Kenyatta University, Department of Gender and Development Studies.
Name of Candidate: - Mr. Andrew G. Kimani (C159/PT/25584/11)

Degree Title: Master of Arts (MA)

Thesis Title “Security and integration of ICT into the personal data of persons and business in Nairobi County, Kenya”.

- vii). Kakaire, Joel (M.Sc I56EA/20023/12). M.Sc Thesis Title “Effects of Mulching on Soil HydroPhysical Properties and its Adoption in Kibaale Sub-Catchment, South Central Uganda”.
- viii). Clement Mromba, Clement (I56EA/12155/2009). M.Sc Thesis Title “Effects of water abstraction on the riparian vegetation of Kiladeda River in Pangani river basin, Tanzania.”

1.4 PROFESSIONAL/CONSULTANCY SERVICES

- 1.4.1 Networks/Collaborations**
- ii). Consultancy service as Subject Expert: - Geospatial Techniques New Programme Evaluation, Maasai Mara University, Department of Geography (2020)
 - ii). Appointment to the Committee on Sustainable Blue Economy Conference (SBEC); 26th to 28th November, 2018.
 - iii). Compilation of watershed rehabilitation under, “Integrated solutions to answer challenges of food insecurity in times of climate change in Tigray regional state, Ethiopia (14th – 24th April, 2015 – Mekelle, Ethiopia). Collaborating organizations:- Tigray Regional State, Ethiopia; Relief Society of Tigray (REST); Ministry of Agriculture and Natural Resources Development, Ethiopia; cisd Universitat Siegen (Germany); German International Cooperation (GIZ); and Deutscher Akademischer Austausch Dienst (DAAD) Germany.
 - iv). Networking through collaboration to develop concepts for financing sustainable watershed management for Kiladeda subcatchment in Pangani Basin, Tanzania. Initiators: -German Ministry of Economic Co-operation and Development. Collaborating organizations:- University of Siegen, University of Dar es Salamn, Sokoine University, Pangani Basin Water Authority (PBWA), Kiladeda Water User Association (KUA), German Water Sector Reform Programme (GTZ – WSRP): 2008 - 2009.
 - v). Networking and collaboration in the development of participatory watershed management plan for two (2) sub-catchments in Upper Tana Basin. Initiators: - DAAD (German Academic Exchange Service); German Ministry of Economic Co-operation and Development. Collaborating organizations: - University of Siegen, Kenyatta University, Water Resource Management Authority (WRMA) of Tana Basin, German Water Sector Reform Programme (GTZ – WSRP), and Resource User Associations: BWARUA & NgaKinya RUA. 2006 - 2008

1.4.2 Consulting for International/National Boards

- i). Consultancy in Environmental and Social Impact Assessment (ESIA) on the Proposed Taifa Gas Investment SEZ Limited Project of Liquefied Petroleum Gas (LPG) plant, Kwale County, Kenya; May 2022.
- ii). Networking and collaboration for Education and Training partnership between Kenyatta University (Mombasa Campus) and The Institute of Chartered Shipbrokers (ICS) - UK, East African Branch; on-going
- iii). July 2016/2017:- Preparatory commission for the comprehensive nuclear-test-ban treaty; National Commission for Science, Technology and Innovation (NACOSTI), Kenya. Contract No. 2002-0032.
- iv). April - October 2013:- NAIROBI CITY WATER AND SEWERAGE COMPANY: - Compiling Book Profile on History, Operations and Future Strategy for International Water Association (IWA), Development Congress.

1.4.3 Consulting for Organization/Institutions

- i). Collaboration with the International Institute for Environment and Development (IIED) and the KU-BRECCIA Project Team in developing Valuing Variability (VV) Short Course on “Opportunities for Climate-Smart Management for Enhanced Food and Water Security in Resilient ASALs” Terms of Reference (ToR):- Preparing training programme for VV short course and delivering the training under Director, KU-CDCs, Kenyatta University. Appointment date 21st February, 2022.
- ii). Initiating TVET cooperation potentials between German Institutions and Kenyatta University; meeting on 25th August, 2017.
- iii). Initiating cooperation possibilities between Economic geography, Transport and logistics experts at Duisburg-Essen- University in Germany, federal state of Northrhine-Westfalia, and Department of Geography, Kenyatta University, Kenya. April, 2016.
- iv). Initiating partnership potentials between Kenyatta University/Geography Department and ThirdEye/FutureWater - Unmanned Aerial Vehicles (UAV-Drone) Project, Netherlands. (2014).

1.4.4 Membership to Academic/Professional Bodies

- i). The International Society for Participatory Mapping (ISPM). Executive Committee member - Africa Hub.
- ii). Member of Geo-Information Society of Kenya (GSK) iii). Member of Integrated Watershed Management in Eastern Africa (IWMNet). iv). Member: - Public Participatory Geographic Information System (PPG4). v). Geothermal Association of Kenya (GAK).
- vi). DAAD Deutscher Akademischer Austausch Dienst German Academic Exchange Service; Kenya DAAD Scholars Association (KDSA).
- vii). German Alumni Water Network (GAWN) in the Alumniportal Deutschland Community. viii). Member of Unmanned Aerial Vehicle (UAV) – ARSIS Community.

1.4.5 External Examination

1.4.5.1 External Examiner Appointments at University Level

- i). Appointment as External Examiner: - Chuka University, Department of Geography from 1st April, 2021 - 1st April, 2024.
- Moderation of Examination Question Papers (October, 2021) - Moderation of Examination Papers (February, 2022) ii). Appointment as External Examiner: - Maasai Mara University, Department of Geography from 23rd June, 2021 - 23rd June, 2024.
- Moderation of Exam results (11th - 16th November, 2021)
- Moderation of Exam Question papers (March, 2022) iii). Embu University: - External Examination; Department of Land and Water management and School of Agriculture; 14th August 2019.

1.4.5.2 International Institutions External Examination/Evaluation

- i). Makerere University (Uganda):- External Examination; College of Agricultural and Environmental Sciences; Department of Geography and Natural Resources (2015) ii). Trier University (Germany)/Kenyatta University; Geography Department; On-site Evaluation/Accreditation for M.Sc (Integrated Watershed Management). 2012.

- iii). -St. Lawrence University, Canton, New York, U.S.A:- Student Attachment External Examination:
- Bachelors' Field Course and Research in Lake Magadi Basin. International Summer School (1999 – 2004).

1.5 ADMINISTRATIVE AND RESPONSIBILITIES

1.5.1 Recognized University Administrative Positions

1.5.1.1 Present Administrative Position

Director of Campus: -

Director of Mombasa Campus, Kenyatta University, Kenya.

Employer: Kenyatta University: - 1st July, 2021 - Present.

Description of Duties: Embark on developing an action plan to return the campus to sustainability in regard to growth in student numbers, increased occupancy of accommodation facilities, and costeffective catering services. Day to day running of the Campus, ensuring that relevant Senate approved academic programmes are mounted and run smoothly, Oversee the general management of Campus, liaise with Deans and Chairpersons to ensure relevant teaching staff are deployed in good time, maintain cordial relationship between the Campus, vendors and clients, ensure that Kenyatta University good image is maintained, ensure efficient service delivery by all staff at the Campus and perform any other duties as may be assigned by the Vice-Chancellor from time to time.

1.5.1.2 Previous Administrative Position

i). Chairman of Department

Department of Geography; Kenyatta University; Kenya.

Employer: Kenyatta University; Geography Department: - 28th July, 2015 – 22nd July, 2017 (First term)

Renewal for Second term: - 22nd July, 2017 – 21st July, 2019.

Description of Duties: In charge of all administrative duties as well as academic programmes in the Department, and answerable to the Vice-Chancellor, Kenyatta University on all matters related to the Department of Geography, Kenyatta University (Main and Satellite campuses).

ii). Programme Coordinator (School of Humanities and Social Sciences (SHSS))

Kenyatta University Satellite Campus: - Arusha Centre, Tanzania. 30th June, 2014 – 22nd July, 2015.

Description of Duties: Liaising with Dean: - SHSS in all matters of campus-level timetabling, unit allocations, unit teaching and examinations and any other related coordination assignments between Kenyatta University (main campus) and Arusha Centre, Tanzania.

iii). Acting Dean

School of Humanities and Social Sciences (SHSS; Kenyatta University): - 25th – 27th April, 2018.

1.5.2 Other responsibilities in the University ii).

Staff Mentor

Staff Mentor, Kenyatta University Mentoring Programme

Employer: Kenyatta University; Geography Department **Date of Appointment:** 13th November, 2017.

Duration: 2017/2018; 2018/2019; 2021/2022 Academic years

Terms of Reference (TOR): Contacting and meeting with the mentees assigned to you; Informing and encouraging students to register with the Mentoring Programme; Attending all the Programme's activities including seminars, retreats, e.t.c.; Submitting progress reports at the end of every Semester.

Other University Administrative duties and Responsibilities since last Appointment 1). Acting

Dean: - School of Humanities and Social Sciences (SHSS):- 25th – 27th April, 2018. -School of Humanities and Social Sciences (SHSS) Curriculum Committee (SHSSCC): August, 2000 – To- 2016.

2) Kenyatta University Mentoring Programme

Mentoring Students: - Under Kenyatta University; Directorate of Mentoring Programme.
- Walter Kipkirui Ngetich (I20/0899/2018):- School of Pure and Applied Sciences.

Date of Appointment: 25th January 2022 – To - Present.

Terms of Reference (TOR): Contacting and meeting with the mentees assigned to you by Kenyatta University Directorate of Students' Affairs; Informing and encouraging students to register with the Mentoring Programme; Attending all the Programme's activities including seminars, retreats, Community services; Submitting progress and evaluation reports at the end of every Semester.

3) Departmental Representative

School of Humanities and Social Sciences (SHSS) Curriculum Committee (SHSSCC): August, 2000 – To- 2016.

1.6 COMMUNITYT ENGAGEMENTS AND OTHER CONTRIBUTIONS

1.6.1 Research Funding

- i). **Research Project Title:** *Using Geographic Information System (GIS) in crime mapping and analysis in Kasarani Sub-County, Nairobi County, Kenya*: - **DR. Shadrack K. Murimi**: Principal Investigator (PI)); DR. F. Kinyanjui: - Co-PI. **Funding Institution/Agency:** Kenyatta University; Vice Chancellor's research grant (2017/2018) academic year. **Status:** - Close-Out Report: - 24th August 2021.
- ii). **Research Project Title:** *Integrated solutions to answer challenges of food insecurity in times of climate change: Learning from Abraba we Atsbeha IWM project; Tigray, Mekella, Ethiopia*: - **DR. S.K. Murimi** Research Team (RT). **Funding Institutions/Agencies:** - Relief Society of Tigray (REST); Ministry of Agriculture and Natural Resources Development, Ethiopia; German International Cooperation (GIZ); and DAAD. **Status:** - Completed - 2015.
- iii). **Research Project Title:-** *Development of tools for holistic multidisciplinary sustainable approach to Natural Resources Management that ensures a multi-stakeholder participation of local communities in conflict resolution in decision making process in Transboundary Mountainous Ecosystems of Eastern Africa; Bududa and Kapchorwa sites; Mbale, Uganda*: - **DR. S.K. Murimi** (RT). **Funding Institutions/Agencies:** - African Highlands Initiative (AHI); International Centre for Research in AgroForestry (ICRAF), and UNESCO-PCCP (Potential Conflict to Co-operation Potential). **Status:** - Completed – 2011.
- iv). **Research Project Title:** - *Capacity building in integrated watershed management for sustainable natural resource management and conflict resolution; Mt. Elgon, Uganda*: - **DR. Shadrack Murimi** (RT). **Funding Institutions/Agencies:** - Center for International Capacity Development (Cicd)-Universitat Siegen, Germany; World Agroforestry centre. **Status:** - Completed – 2012.
- v). **Research Project Title:** - *Participatory 3D modelling for Telecho community; Foata mountains. Ethiopia*: - **DR. Shadrack K. Murimi**: GIS Technical Expert in charge of QGIS digitizing. **Funding Institutions/Agencies:** - MELCA Mahiber Mekelle, Ethiopia); Technical Centre for Agricultural (CTA) and Rural Co-operation (ACP-EU) Ethiopia. **Status:** - Completed – December, 2010.

- vi). **Research Project Title:** - *Financial Instruments in Integrated Watershed Management (IWM) for Kiladeda/Werururu sub-catchment of Pangani basin.* Tanzania: - **DR. S.K. Murimi** (RT). Funding Institutions/Agencies: - Pangani Basin Water Authority (PBWA), Tanzania; Kiladeda Water-User communities (KWUC), Tanzania; German water sector reform Programme (GTZ), Germany-Tanzania and German Academic Exchange Service (DAAD). Status: - Completed – 2010.
- vii). **Research Project Title:** - *Development of participatory watershed management plans for two (2) sub-catchments in Upper Tana Basin, Kenya:* - **DR. Shadrack K. Murimi** (RT). Funding Institutions/Agencies: - DAAD (German Academic Exchange Service); German Ministry of Economic Co-operation and Development; German Water Sector Reform Programme (GTZ – WSRP), Germany-Kenya. Collaborating organizations: - Water Resource Management Authority (WRMA) Kenya and Resource User Associations (BWARUA & NgaKinya RUA, Meru CountyKenya). Status: - Completed – 2008).
- viii). **Research Project Title:** *Geological and archaeological survey---Research in Lake Magadi-Natron Basin; Kajiado District, Kenya.* Research Permit OP/13/001/16c 213/45:- **DR. Shadrack K. Murimi** (Co-PI). Prof. J.W. Barthelme (St. Lawrence University – Canton, U.S.A): (PI). Funding Institution/Agency: St. Lawrence University (Canton NY – Anthropology Department. Status: - Completed - 2000.

1.6.2 Community engagements

- i). Telecho community; Foata mountains, Ethiopia engagement in participatory 3D modelling under MELCA Mahiber Mekelle, Ethiopia); Technical Centre for Agricultural (CTA) and Rural Cooperation (ACP-EU) Ethiopia. 2010.
- ii). Pangani basin community engagements in preparations of Financial Instruments in Integrated Watershed Management (IWM) for Kiladeda/Werururu sub-catchment of Pangani basin, Tanzania through Pangani Basin Water Authority (PBWA), Tanzania; Kiladeda Water-User communities (KWUC), Tanzania; German water sector reform Programme (GTZ), Germany-Tanzania and German Academic Exchange Service (DAAD). 2010.
- vii). Upper Tana water resource user associations (RUA) engaged in the development of participatory watershed management plans for two (2) sub-catchments in Upper Tana Basin (BWARUA & NgaKinya RUA, Meru County-Kenya, under the engagement of DAAD (German Academic Exchange Service); German Ministry of Economic Co-operation and Development; German Water Sector Reform Programme (GTZ – WSRP), Germany-Kenya. Collaborating organizations: - Water Resource Management Authority (WRMA) and Resource User Associations: 2006 – 2008.

1.6.3 Proposals for Research Grant Applications

- i). **Research Project Title:** - *Geospatial Surveillance of Desert Locusts Using Geographic Information System and Remote Sensing for Proactive and Reactive Interventions, in Kenya:* - **DR. Shadrack K. Murimi** (PI). Funding institution: NATIONAL RESEARCH FUND: COLLABORATIVE INTERVENTIONS TO CONTROL DESERT LOCUSTS INVASION IN KENYA; 2019/2020 FINANCIAL YEAR.
- ii). **Research Project Title:** - *Applications of innovative remote sensing tools and climate vulnerability and capacity analysis methodologies in assessing food and nutrition security in agro-ecological zones in river tana basin, Kenya:* - **DR. Shadrack K. Murimi** (PI). Funding institution: NATIONAL RESEARCH FUND: - MULTIDISCIPLINARY RESEARCH GRANT PROGRAMME, KENYA; 2017/2018 - FINANCIAL YEAR.
- iii). **Research Project Title:-** *Integration of Groundwater resource prospecting to address decreasing quality and quantity of water sources in times of uncertainty in climatic change and variability in Nyambene stratovolcanic*

highlands, Meru county, Kenya:- DR. Shadrack K. Murimi: (PI). Funding institution: UPGro 2012 Catalyst Grants Under UKaid NATURAL ENVIRONMENT RESEARCH COUNCIL (E.S.R.C. ECONOMIC & SOCIAL RESEARCH COUNCIL).

iv). **Research Project Title:** - *Community security audits using PCiGIS to formulate crime prevention strategies for Nairobi city, Kenya.* **DR. Shadrack K. Murimi (PI).** **Funding institution:** - Harry Frank Guggenheim Foundation (2013).

v). **Research Project Title:** - *Community Empowerment for Climate Change Adaptation Planning and Advocacy to enhance food and nutrition security and alleviate poverty among small-scale farmers in the Mutonga River watershed, Meru County, Kenya.* **DR. S.K. Murimi (PI).** **Funding institution:** - Ministry of Education Science and Technology (MHEST); National Council for Science and Technology (NCST), 2012/2013.

vi). **Research Project Title:** - *Using participatory community integrated geographic information system (PGIS) to protect Mount Kenya forest heritage: The case of Mutonga watershed, Upper Tana Basin, Kenya.* **DR. S.K. Murimi (PI).** **Funding institution:** - Ritsumeikan University, Research Center for Disaster Mitigation of Urban Cultural Heritage (UNESCO Chair Program on Cultural Heritage and Risk Management; 2010/2011).

1.6.4 Community Outreach

i). Member of Board of Directors: - Nyeri County; KUNSWA Investment Company Ltd: (November, 2017 – Present). ii). Chairman: - Kenyatta University Nyeri Staff Association (KUNSA) iii). Member of Murang'a High School Old Boys Committee: - August, 2006 – Present.

iv). **Career Day Lecture:** - OL-ARINYIRO MIXED DAY SECONDARY SCHOOL, LAIKIPIA County. Participated in guidance/counselling sessions on attitudes, building determination and upcoming career options to Form 3 & 4 students (15th October, 2011)

v). Member of Organizing Committee of “International Conference on Sustainable Management of Headwater Resources” (**SMHWR**); 5th – 8th September, 2002. **Sponsored by:** - United Nations University, Japan and United States International University, in **collaboration** with: - Kenyatta University, Nairobi, Kenya; International Association for Headwater Control (IAHC); International Association of Hydrological Sciences (IAHS); and World Association of Soil and Water Conservation (WASWC).

1.6.5 Professional Affiliation and Portfolios

i). Affiliated to IDRC-ACTS Blue Empowerment Project on seaweed farming in Kwale County, Kenya. April 2022.

ii). Partnership as research assistant in the “Soil organic carbon stocks and CO₂ emissions in degraded and healthy mangrove formations in Tana River and Lamu Counties, Kenya”, (Partners: - Kenyatta University, The Nature Conservancy, Kenya Forest Service, Kenya Marine and Fisheries Research Institute, Northern Rangelands Trust) iii). Affiliated as Trainer for the Valuing Variability (VV) Short Course on “Opportunities for ClimateSmart Management for Enhanced Food and Water Security in Resilient ASALs” in collaboration with the International Institute for Environment and Development (IIED) and the KU-BRECcIA Project Team. Terms of Reference (ToR):- Preparing training programme for VV short course and delivering the training under Director, KU-CDCs, Kenyatta University. Appointment data 21st February, 2022. iii). Compilation of watershed rehabilitation under, “Integrated solutions to answer challenges of food insecurity in times of climate change in Tigray regional state, Ethiopia (14th – 24th April, 2015 –Mekelle, Ethiopia). Collaborating organizations:-

Tigray Regional State, Ethiopia; Relief Society of Tigray (REST); Ministry of Agriculture and Natural Resources Development, Ethiopia; Cidc.

1.6.6 Recognitions, Awards and Honours

1.6.6.1 Fellowships and scholarships awarded

- i). 2010: Training/Fellowship in Participatory 3D Modelling, Mapping and Video production of local spatial knowledge and communities values in the contexts of sustainable natural resources management and benefit sharing; AT Telecho, Ethiopia; awarded by CTA-Technical Centre for Agricultural and Rural Co-operation ACP-EU.
- ii). 2008: Study visit Scholarship by Belgium Development Corporation; Training in Geological data management at the Royal Museum for Central Africa (RMCA), Tervuren, Brussels, Belgium; April-June, 2008.
- iii). 2003/2004: Research/study scholarship at RMCA, Tervuren, Brussels, Belgium; by Belgium Development Corporation; Training in Remote sensing and GIS data analysis and software; ILWIS; PCI Geomatica; ENVI 4.0; August, 2003-February, 2004.
- iv). 2000: Three month Fellowship by Deutscher Akademischer Austauschdienst (DAAD); Training in image analysis and GIS at Faculty of GeoSciences, Trier University, Germany; June-August, 2000.
- v). 1997-1999: In-country (Sandwich) Ph.D research program scholarship awarded under Deutscher Akademischer Austauschdienst (DAAD) Germany Academic Exchange Service scholarship; 1997-1999.
- vi). 1987 – 1989: Postgraduate Staff Development Programme. Master of Science (Geography) Scholarship by Kenyatta University.

1.6.7 Presentation of Keynote address in Academic Workshop

- i). Professor C.K. Nyamweru Seminar; Kenyatta University, Graduate School RM2, 19th November, 2016; Opening/welcome remarks.
- ii). Keynote address in Academic workshop: - “E-Learning & Participatory Geographic Information Systems (PGIS)”. Date: - 02/11/2015 – 06/11/2015. Place: - Castle Hotel Mt. Kenya, Kenya. Activities: - Keynote address/Seminar opening remarks: - **Title of Keynote Presentation:** “Participatory Geographical Information System (PGIS) as a Research Tool in Mapping Communities Watershed Use, Planning and Management”.

1.7 REFEREES

Prof. L.M. Kisovi Geography Department Kenyatta University P. O. Box 43844 (00100) Nairobi, Kenya <u>Email:</u> <u>kisovi@hotmail.com</u>	Prof. Chris Shisanya Geography Department Kenyatta University P. O. Box 43844 (00100) Nairobi, Kenya <u>Email:</u> <u>Shisanya@yahoo.com</u>	Dr. T. kibutu Geography Department Kenyatta University P. O. Box 43844 (00100) Nairobi, Kenya <u>Email:</u> <u>Kibutu.thomas@ku.ac.ke</u>
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DR. Shadrack Kiana Murimi

SENIOR LECTURER, DEPARTMENT OF GEOGRAPHY

KENYATTA UNIVERSITY

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