



THE TECHNICAL UNIVERSITY OF KENYA

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Faculty:	Applied Sciences and Technology
School:	Physics, Earth and Environmental Sciences
Department:	GEOSCIENCE AND THE ENVIRONMENT
Current Designation:	Lecturer, GEOSCIENCE AND THE ENVIRONMENT (DGSE)
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Consultation Hours:	8AM-5PM MON - FRI

EDUCATION

LEVEL	QUALIFICATION NAME	INSTITUTION	YEAR
Doctor of Philosophy (PhD)	ECOLOGY	NANJING AGRICULTURAL UNIVERSITY(China)	2021
Masters of Science (M.Sc.)	LIMNOLOGY	EGERTON UNIVERSITY(Kenya)	2014
Bachelor of Science (BSc)	APPLIED AQUATIC SCIENCE	EGERTON UNIVERSITY(Kenya)	2006

WORK EXPERIENCE

PERIOD	INSTITUTION	POSITION
2021 - Presently	The Technical University of Kenya	Lecturer
2015 - 2021	The Technical University of Kenya	Tutorial Fellow
2012 - 2015	Egerton University	Part-time Lecturer
2013 - 2015	The Technical University of Kenya	Part-time Lecturer
2006 - 2007	Kandaria Secondary School	Teacher: Biology and Chemistry
2000 - 2001	Dandora Girls & Women Education Centre	Teacher: Mathematics and Science

GENERAL STATEMENT ON RESEARCH AREAS

Phycology - Algal taxonomy, Physiology and Ecology

My interest revolves around DNA metabarcoding of diatom in water quality assessment/Biomonitoring

SELECTED PUBLICATIONS

TITLE	LINK TO PUBLICATION	YEAR
Effect of land-use-land-cover-changes on water quality in the Upper Athi river catchment in Kenya. African Journal of Aquatic Sciences 1-13. in Kenya.	View online	2023
Phytoplankton community structure of Tang-Pu Reservoir: status and ecological assessment in relation to physicochemical variability. Environmental Monitoring & Assessment, 194:382	View online	2022
Nutrient Input on Algal Periphyton. LAP LAMBERT Academic Publishing (2015-09-22) - ISBN-13: 978-3-659-70945-6.	View online	2015
Sensitivity and reliability of diatom metrics and guilds in detecting the impact of urbanization on streams. Ecological Indicators 116:106506.	View online	2020
Distribution, ecological fate, and risks of steroid estrogens in environmental matrices. Chemosphere:136370.	View online	2022
Application of QUAL2kw and Forecasting models for assessment of pollutants in upper Athi River catchment in Kenya. African Journal of Pure and Applied Sciences 3(2):221-236.	View online	2022
Bibliometric Study on Diatom DNA Metabarcoding for Water Quality Monitoring: A Global Perspective. African Journal of Aquatic Sciences 1-12. .	View online	2023
Periphyton as Inorganic Pollution Indicators in Nyangores Tributary of the Mara River in Kenya. International Journal of Fisheries and Aquatic Sciences 2(4): 81-93. ISSN: 2049-8411; e-ISSN: 2049-842X © Maxwell Scientific Organization, 2013	View online	2013
A bibliometric study on the use of diatoms in water quality monitoring and bioassessment in Africa across 10-year (2012–2022) period. Aquatic Sciences 84(4):1-14.	View online	2022
Estrogens and xenoestrogen residues in manure-based fertilizers and their potential ecological risks. Journal of Environmental Management 344 (2023) 118609	View online	2023
Effects of Land-Use-Land-Cover-Changes on water quality in the Upper Athi River catchment in Kenya. African Journal of Aquatic Sciences.	View online	2023
Water-level fluctuations affect the alpha and beta diversity of macroinvertebrates in Poyang Lake, China. Fundamentals of Applied Limnology	View online	2021
Measures to Divert Construction and Demotion Waste from Landfill Disposal. In Technical Landfills and Waste Management: Volume 2: Municipal Solid Waste Management (pp. 189-205). Cham: Springer Nature Switzerland.	View online	2024

POSTGRADUATE STUDENTS SUPERVISION

NAME	PROJECT TITLE	PERIOD
Jackson Angaine	Application of GIS in mapping the effects of urbanization on water reservoir ‘A case study of Kiserian Dam in Kajiado County’.	2023-2025
Margret Waturu	Impact of human activities on spatio-temporal water quality in the Upper Athi River Catchment	2021-2023
Nabirye Annet Margaret	NATURE BASED SOLUTIONS FOR FLOOD MITIGATION IN KAMPALA CITY: THE CASE OF LUBIGI WETLAND	2023-2025

COURSES TAUGHT

NAME	DESCRIPTION	PERIOD
Aquatic Ecology	The course involves study of aquatic biota and their biotic environment	2016 - 2017
Environmental Planning & Management	Overview of environmental resources with emphasis on human manipulation on the environment	2023 - TO-DATE
Watershed Hydrology & Management	Understanding the principle and practices related to watershed management	2022 - TO-DATE
Animal Taxonomy	Classification of the vertebrates and invertebrates into major taxon	2021 - TO-DATE
Animal Anatomy and Physiology	The anatomy of animals, physiological processes and functions of body parts	2021 - TO-DATE

EXTRA INFORMATION

DESCRIPTION

CONFERENCES & SEMINARS ATTENDED

August 21 st – 25 th 2018	4 th International Symposium of the Benthological Society of Asia, Nanjing-China	Paper Presentation: The Impact of Urbanization on Diatoms Community Structure in Qiantang River Watershed, China http://www.benthosasia.org/sub/down.php?dir=/data/4thBSA/&file=4th%20BSA%202018%20General%20Meeting%20Report.pdf&filename=undefined http://www.spsl.nsc.ru/FullText/konfe/BSA-2018.pdf
July, 2 th - 4 th , 2013	The Tropical Biology Association African ALUMNI Group (TAAG). National Museum of Kenya, Nairobi	Paper Presentation: Periphyton as Inorganic Pollution Indicators in the Mara River in Kenya. https://www.yumpu.com/en/document/read/36273259/download-taag-book-of-abstracts-tropical-biology-association
October, 22 nd – 23 rd , 2012	3 rd Scientific Conference on the Lake Victoria Basin Imperial Botanical Beach Hotel, Entebbe-Uganda	Paper Presentation: Effects of Nutrients on Periphyton Community Structure and Productivity in the Nyangores Tributary of Mara River in Kenya. http://tabianchi.blogspot.com/2012/10/3rd-scientific-conference-on-lake.html
September, 26 th – 28 th 2012	7 th Egerton University International Conference Research and Expo, ARC Hotel, Egerton University Njoro, Kenya.	Paper Presentation: Effects of Nutrients on Periphyton Community Structure and Productivity in the Nyangores Tributary of Mara River in Kenya.