

Dr Evelyn Namburi Chitechi Wemali ACADEMIC STAFF

1.1 Personal Profile

1.1.1 Personal Details

Name: Evelyn Chitechi Wemali

Department: Environmental Sciences & Education

Designation: Lecturer

Email: Chitechi.everlyn@ku.ac.ke

Area of Specialization:

-Biodiversity conservation

-Environmental Education

Research Interests:

- Conservation Education

- Climate change Education

-Education for sustainable Development

Google Scholar: https://scholar.google.com/citations?hl=en&user=7cJ_5Y0AAAAJ

ORCID ID: <https://orcid.org/0000-0003-4412-8615>

1.1.2 Academic & Professional Qualifications

University:

- May 2011-December 2014; Kenyatta University: PhD Environmental studies
- Research title: Contribution of Cultivated Indigenous Vegetables to Agrobiodiversity Conservation and Community Livelihood in Mumias Sub County, Kakamega County, Kenya
- October 1991- April 1993; Kenyatta University; Masters in Environmental Science by coursework and thesis
- May 1987- April 1990; Kenyatta University; Bachelor's Degree (B.Ed. science); Botany, Zoology and Education; B.Ed. (Science) - Second Class Honors, Upper Division

High School:

- 1985-1986; Kenya Advanced Certificate of Education (KACE); Alliance Girls High School: Biology, Chemistry and Mathematics; Three principals and one subsidiary
- 1981- 1984; Kenya Certificate of Education (KCE); Butere Girls High School; First division

Primary School:

- 1974-1980; CPE; Kamashia Primary School Mumias; Certificate of Primary Education (CPE): Thirty (30) points.

Professional

- 21st August 2024: Facilitator during the national Conservation Education Curriculum & Educator's Guide Development Workshop at CORAT Nairobi
- June 2022: Trained in Authentic Item Development for competency Based Assessment

- September 2020: Jointly with others developed tools for assessment of loss of learning due to COVID 19
- 18th - 29th April 2006: Facilitator; Item Writers Training (Primary Science) workshop (KNEC)
- August - September 2006: SEMEO-RECSAM, Penang, Malaysia; In-service Training on “Enhancing problem solving skills in Science Education”
- August 4th -8th 1997; Kenya National Examination Council; Trained in multiple choice item writing (KCPE-Science).

1.1.3 Employment History

October 2010 to date: Kenyatta University:

- Teaching staff School of Agriculture & Environmental Sciences, Department of Environmental Science & Education.
- August 2025 to date : Coordinator Regional Centre of expertise -Greater Nairobi
- July 2025 to date : Country Coordinator Leadership for Education for Sustainable Development (LEAD-ESD) Project
- March 2024 to date: Programme Leader; Environmental Education in the Department of Environmental Sciences and Education
- April 2024 to date: A member of Tree growing Committee Kenyatta University
- June 2016-November 2022: Departmental Examination Coordinator
- Academic Advisor of second year students in the programme of Environmental Education
- Chairperson of Departmental Curriculum Review Committee
- A member of Board of Post Graduate Studies in the School of Environmental Studies of Kenyatta University
- Departmental representative to the University Community Outreach Programmes
- A trainer in the Student Training for Entrepreneurial Promotion (STEP) programme-training youth in counties for Entrepreneurship
- A trainer of Teacher Development Programme (TPD) –Kenyatta University service provider for Teacher’s Service Commission
- Trainer for Leadership for Education for Sustainable Development (LEADESD) project in Kenya

SEPTEMBER 2006 – October 2010: NATIONAL TRAINER: Centre for Mathematics Science and Technology Education in

Africa (CEMASTE), Karen

- **Position:** National Trainer / Principal Graduate Teacher II
- **Coordinator:** Strengthening Mathematics and Science Education (SMASE) Primary In-service Education & Training (INSET)
- Development of needs assessment as well as monitoring and evaluation tools.
- Developing INSET materials / Manuals for Biology-Secondary Education and P1 Science for Teacher training colleges In-service Education
- Conducting INSET for Secondary School & Primary Teacher Training Colleges’ Trainers.
- Conducting advocacy workshops for Educational Managers on issues that relate to SMASE project.

- Monitoring and Evaluating Training Sessions for Mathematics and Science in SMASE centers countrywide.
- Conducting Needs Assessment Surveys for training
- 2017- to date :Kenya Institute of Curriculum Development: Panel member for development of Competency Based Curriculum (CBC)

TEACHER TRAINING

- May 1993 - August 2006;Kaimosi Teachers' Training College

Positions held: Assistant lecturer to senior lecturer

Duties and Responsibilities

- Teaching Science to P1 Primary Teacher Trainees
- Coordinating personal tutor / tutee system in the college
- Assistant Dean of Students
- Coordinator Environmental Educational activities in the college

Graduate Teacher

May 1990 - September 1991: Lusumu secondary school, Kakamega County.

Position: Graduate teacher

- Duties and Responsibilities
- Teaching Biology and Mathematics Form 1 - 4
- Careers Mistress.

1.1.4 Achievements

- successfully supervised 8 postgraduate students to completion including 1 student for PhD
- successfully served as examination coordinator for 6 years ;2016-2022
- As country coordinator for Leadership of Education for sustainable Development (LEADESD) I have successfully organized two in country Leadership for Education for sustainable Development workshops hosted at Kenyatta University and sponsored by UNESCO and UNICEF
- I have trained students in Environmental Education and Environmental Sciences who are now serving in different capacities in our great nation and beyond
- As a mentor have mentored several students through their campus life
- A panelist at Kenya Institute for curriculum Development-Early Years Education; Environmental Activities Learning Area and for senior school Biology
- Developed jointly with others a curriculum framework for value chain of Neglected and Underutilized Species (NUS) in Africa
- Jointly with others developed trainers manual Biology for Youth polytechnics Ministry of Youth Affairs
- Developed jointly with others Biodiversity conservation curriculum for cross boarder

- A test developer at the Kenya National Examination Council
- Developed jointly with others conservation education curriculum for wildlife clubs of Kenya (WCK)
- Developed jointly with others change education and biodiversity education for Marsabit County under Wilderness Conservation Centre (WCC)

1.2 Publications

1.2.1 Referred Journals

1. Gacheru, J.W., **Wemali, E.** & Gathuru, G. (2024). Climate Variability and Response Strategies among Sweet Potato Farmers in Kiambu County. *IJRES*, 10(2).
2. Belha Umwigama, James Koske and **Wemali E** (2023) The nexus of study discipline and climate change awareness levels among undergraduates of Kenyatta University, Kenya Journal: [International Journal of Environment and Climate Change](#), Volume 13, Issue 1, Page 89-98, 2023;DOI: [10.9734/ijecc/2023/v13i11637](#)
3. Busolo TA, Koech MK and **Wemali E** (2022). Climate Variability Adaptation Strategies Used by Small-Scale Maize Farmers in Uasin Gishu County, Kenya *African Journal of Climate Change and Resource Sustainability*, 2(1), 153-170. [https://doi.org/10.37284/ajccrs.2.1.1400](#)
4. Kangai R, **Wemali EC**, Koske J, Waswa B and Ngare I (2021). [Small scale farmers perception of institutions and information channels on climate change and adaptation, Embu County, Kenya](#). *African Journal of Agricultural Research* 17 (3), 404-413
5. Ngare IO, Koske JK, Muriuki JN, **Chitechi EW** and Gathuku GN (2020). [Urban climate variability trend in the coastal region of Mombasa Kenya](#). *African Journal of Environmental Science and Technology* 14 (8), 214-221
6. Onuong'a NO and **Wemali E** (2019). Contributions of Nature Conservancies towards creation of Environmental Awareness in Schools, A case study of Kitale Conservancy in Trans Nzoia County, Kenya. *Journal of Education Vol. 7 | No. 6 August | 2019 ISSN 2347-8225*
7. Kioli J, **Wemali E** and Ngare I (2017). Assessing the Uptake of Modern Kiln Technology in Mutomo, Kitui County, Kenya. *Imperial Journal of Interdisciplinary Research (IJIR) Vol-3, Issue-12, (2017) ISSN (Online): 2454-1362*

1.2.5 Book Chapters

'Seafood value chains and mangrove restoration in Mida Creek' In De Leeuw J, Koech G, Yayé AD, Nyongesa, J. (2017). A review of best practice in the Horn of Africa with biodiversity-based value chain development for pro-poor biodiversity conservation. Nairobi: ICRAF, ANAFE.<http://www.worldagroforestry.org/igad-bmp>

1.2.6 Refereed Learning Modules

- EEN110: Environmental Education & Sustainable Development
- LEAD ESD: Learning Action 4: Design and Try out Assessment of Significant Learning in ESD

1.2.8 Secondary School Level Textbooks

- Wemali E., Munene F and Wainaina P (2022): Intergrated Science learners' Book Grade 7. Mountain Top Educational Publishers
- Wemali E., Munene F and Wainaina P (2022): Intergrated Science learners' Book Grade 8. Mountain Top Educational Publishers

1.2.10 Consultancy and Project Reports

- SCOPE Kenya : Training Youth -Participatory Action Research
- Leadership For Education for Sustainable Education

1.2.11 Non - Reviewed Conference Papers

- Wemali E.C (2011): Status of indigenous vegetables in Mumias Sugar belt in a seminar organized by IFRA and Kenyatta University on “heritagization of biodiversity and governance of natural resources in the light of environmental stress way forward”
- Wemali E.C (2014) : Contribution of cultivated African indigenous vegetables to agro-biodiversity conservation and community livelihood in Mumias sugar belt, Kenya Unpublished PhD Theses, Kenyatta University. Kenya

1.2.13 Other Publications

- Green Enterprise Development; Teachers’ guidebook for Schools
- Education for Sustainable Living: A faith-based Approach to Natural Resource Management and adaptation to climate change.Training Guide for Alternative & Continuing Education

1.2.14 Editorship of a Book or Conference Proceedings

- What is climate change News? Guidelines for Journalists

1.2.15 Scholarly Presentations at Conferences/Workshops/Seminars

- Kenya organization for Environmental Education Facilitator: ESD Methods and Techniques and Challenges for Effective Implementation of ESD and Global Learning
- Kenya organization for Environmental Education Facilitator Action Planning: Developing practical sustainability projects for communities or schools in the programme ‘ESD PRACTITIONERS GOING GLOBAL’.
- From Participation to Policy Influence: Youth Agroecologists and Climate Advocates in Kenya’s Food Systems Transformation (upcoming)

1.3 **QUALITY TEACHING, LEARNING AND MENTORSHIP**

1.3.1 Student Evaluations

- ENS 230 : Principles of Ecology Sem 1 2023/24 : 98.85 %
- ENS 132 : Environmental Biology Sem 1 2023/24: 98.85 %
- EED428: Environmental Education & Extension Sem 1 2023/24: 98.85
- EEN110: Environmental Education & Sustainable Development (open Learning) ;100%

1.3.2 Trainings in Higher Education

- LEAP-FAST (Leaders in Higher Education Alliance and Programme – For Accelerating Sustainability Transformations)
- Transforming futures: enhancing practice for Education for Sustainable Development(ESD) for 2030 through action research
- Trained in the Student Training for Entrepreneurial Promotion (STEP) programme-training youth in counties for Entrepreneurship
- Trained on assessment and evaluation of teaching at Kenyatta University
- Trained on Gender inclusivity in teaching and learning

1.3.3 Ongoing Supervisions

1. Stephanie Akeyo Ayapela (N50/20478/2021)
Department of Environmental Sciences & Education
Title: The Influence of Perception on Urban Agriculture Among Residents of Machakos Town, Machakos County, Kenya
2. Hassan Harun (N50 /37344/2016)
Department of Environmental Sciences & Education
Title: Climate Variability and Management Alternatives to human-wildlife conflicts, the case of southern dispersal area of Nairobi National Park, Kenya
3. Elsy Alielo Lichina (N50/20476/2021)
Department of Environmental Science & Education
Title :The Role of Bamboo in Climate Risk Adaptation in Kakamega County, Kenya
4. John Osore (N50/CTY/PT/28753/2014)
Department of Environmental Science & Education
Gender dimension and climate smart technologies for climate change adaptation in kakamega county, Kenya
5. Beatrice Kagure Gaita (N50/CTY/PT/21751/2021)
Department of Environmental Sciences & Education
Title: Uptake patterns of Clean Energy Fuels in Households in Laikipia County, Kenya
6. Beverly Mukoma Aura (N50/CTY/PT/21449/2020)
Department of Environmental Sciences & Education.
Title: Determinants of Adoption of Climate Information Services Among Small Scale Farmers in Kiminini Sub County ,Trans Nzoia Kenya
7. Sila Francis (N50/CE/27887/2013)
Department of Environmental Science & Education
Title: Influence of Climate Variability Adaptation Strategies on Schooling in Laikipia County, Kenya
8. Hudson Wereh Shiraku (N50/CTY?22694/2012)
Department of Environmental Science & Education
Title: Effects of Inorganic & Organic Fertilizers on Accumulation of Phytochemicals and Antioxidant Activities in Two Amaranths Varieties
9. Sarah Beryl Adhiambo (N50/CTY?21356/2022.
Department of Environmental Science & Education
Title: Adoption of Climate Smart Forage Practices Among Small-Scale farmers, Nakuru County, Kenya
10. Erick Oduor Opiyo (N50/CTY/28218/2013)
Department of Environmental Science & Education
Title: Agroforestry Practices for Climate Variability Mitigation & Adaptation in Homa Bay County, Kenya
11. Omondi Jack (N50/CTY/PT/22569/2021)

Department of Environmental Science & Education Title: The Nexus Between Climate Variability & Livelihoods In informal Settlements in Nairobi County, Kenya
12. Richard Kakunga Wambua Reg No: N50/CTY/PT/20151/2022
Department of Environmental Science and Education
Title: Integrating natural capital investments and carbon credit trading for sustainable development in Kenya: a case study of Chyulu Hills
PHD
13. Thomas Owino Juma (BSc, MSc)

Reg. No. N85/33312/2015)

14. Land use land cover changes on Athi river and its implications on bio-diversity abundance and distribution at Ungwana bay, Kilifi county-; Kenya
15. Duncan Onyango GENGGA (BSc. Water Eng., MSc. Water Mgmt. and Gvnce., IEAM OpT)
ADM NO: N85/24412/2024
The role of ceramic membranes in achieving sustainable water supply under changing climate conditions in Lamu county, Kenya

1.3.4 Supervision of Postgraduate Students

1.3.4.1 Masters

- 1. Jemima W. Gacheru (N50/37641/2017)
Department of Environmental Sciences & Education
Climate variability and Response strategies among small holder sweet Potato Farmers in Kiambu County, Kenya
Due for graduation December 2025
2. Name: Busolo Timina
Reg. No N50/39282/2017
Department of Environmental Sciences & Education
Kenyatta University
Title: Climate Variability Adaptation Strategies Used by Small-Scale Maize Farmers in Uasin Gishu County, Kenya
Graduated July 2024
3. Belha Umwigama (N50/CE/30336/2014)
Department of Environmental Science & Education
Title: Awareness of climate variability and change among undergraduate students of Kenyatta University, Kenya
Graduated July 2025
4. Name: Ann Gudere
Registration: N50/26327/2018
Department of Environmental Sciences & Education
Kenyatta University
Title: Assessing Adoption of Climate-smart Technologies and Practices among agro-pastoralists of northern Kenya
Graduated December 2022
5. Name: Dorcas Ogoti
Reg.: N50/CE/23911/2012
Title Strategies for food security in response to climate variability by small scale farmers in Kajiado county, Kenya
Graduated July 2022
6. Kennedy Bwire Onyango
Registration: N50 /21694/2010
Department of Environmental Sciences & Education
Kenyatta University
Title: Climate Variability Effects on Vector bone Diseases and Pastoral Livelihood in Narok South Sub- County, Narok County, Kenya
Year of graduated 2019
7. Name: Otieno Nasser Onuong'a
Registration No. N50/CE/26164/2014
Department of Environmental Education

Title: Contributions of Nature Conservancies towards creation of Environmental Awareness in Schools, A case study of Kitale Conservancy in Trans Nzoia County, Kenya
Graduated 2019

8. John Kioli (N50/33468/2014)

Department of Environmental Education

Title: Adoption of Modern Charcoal Kiln Technology in Kitui County, Kenya

Graduated 2017

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1.3.4.2 PhD

Dr. Ruth Kangai Adiel

Registration: N85/37767/2016

Department of Environmental Science & Education

Kenyatta University

Year of supervision: 2016-2021

Title of PhD thesis: *Adoption of Climate variability coping strategies Among Small holder farmers in Embu County, Kenya*

1.4 PROFESSIONAL/CONSULTANCY

1.4.1 Networks/Collaborations

1.4.1.1 Kenya National Examination Council- Panel member

- Science & Technology learning
- Integrated Science
- Diploma Primary Teacher Education

1.4.1.2 Kenya Institute of Curriculum Development-Panel member for

- Environmental Activities
- Biology for Senior School Learning Areas Biology
- Teacher Education Diploma Course,

1.4.1.3 Wildlife Clubs of Kenya-Development of Curriculum for Wild life Clubs of Kenya

1.4.1.4 Scope Kenya :

- Training youth on Participatory Action Research methodologies

1.4.1.5 Kenya organization for Environmental Education

1.4.3 Consulting for international/national boards

- -Kenya National Examination Council
- Kenya Institute of Curriculum Development

1.4.5 Consulting for organizations/institutions

KENYA NATIONAL EXAMINATION COUNCIL (KNEC)

1998 – To date; A contracted professional for various panels:

- Kenya Certificate of Primary Education (ended in 2023)
- Kenya Certificate of Secondary Education,
- Competency Based Assessment for various levels,
- Diploma Primary Teacher Education,
- Diploma Teacher Education
- Qualifying proficiency

- Kenya Primary School Education Assessment (KPSEA)

4.3.2 DEVELOPMENT OF CURRICULUM AND TRAINING MANUALS/, MODULES

- November 2021 member of a consultancy team to establish the Potential of Faith Based Tree Growing for Ecosystem Restoration
- September 2020: Development of training manual for SECAM working jointly with KOEE
- November 2017: Consultant-KOEE-Development of a training guide for Climate Change Reporting.
- 2015 consultant-KOEE- Development of training manual for Faith Based Training in Climate Change Mitigation and Adaptation
- 22nd - 24th September, 2015: Involved in developing a curriculum framework for value chain of Neglected and Underutilized Species (NUS) in Africa organized by The African Network for Agriculture, Agroforestry and Natural Resources Education (ANAFE) and its partners
- 16th -27th November 2015: Participated in a write shop on Biodiversity based value chains at ICRAF Nairobi an IGAD Biodiversity Management Programme.
- 2013: consultant -KOEE development of an ESD Faith based toolkit for primary schools
- January 2011: Panel member in developing e-content secondary school Biology Book 3 and 4 for the then Kenya Institute of Education now Kenya Institute of Curriculum Development
- May 2011: Developed Students manual for Biology for Youth Polytechnics: Ministry of Youth Affairs Kenya 16th February-14th March 2008: Nigeria; Facilitated Development of Training manuals for SMASE INSET Nigeria.
- February 2010: Developed trainers manual Biology for Youth polytechnics Ministry of Youth Affairs
- 19th April-3rd May 2008: Burkina Faso; Facilitated Development of Training modules for the SMASE INSET project Burkina Faso.
- May 2008: Involved in developing and validating a 'Teacher competency framework' for Primary School teachers, a project for the Ministry of Education done by Academy for Educational Development (AED).
- Developed and written fact sheets for Kenya Organization of Environmental Education (KOEE)

1.4.6 Membership to acad/prof bodies

- East African Wildlife Society
- Wild life Clubs of Kenya

1.5 Administrative and Responsibilities

1.5.1 Recognized university administrative positions

- August 2025 to present: Coordinator Regional Centre of Expertise (RCE) ;Greater Nairobi
- June 2016-November 2022: Departmental Examination Coordinator

1.5.2 Other responsibilities in the University

- Academic Advisor of second year students in the programme of Environmental Education
- Chairperson - Departmental Curriculum Review Committee
- A member of Board of Post graduate Studies in the School of Environmental Studies of Kenyatta University
- Departmental representative to the University Community Outreach Programmes
- A mentor of several students in the student mentorship programme

1.6 Community Engagements and Other Contributions

1.6.1 Research funding

- Leadership for Education for Sustainable Development (LEADESD) project
- Sustainability Starts with Teacher Leadership on Education for Sustainable Development (SSATL-ESD) project
- Shah Family Global Innovation Lab's 2023 Seed Grant

1.6.2 Community outreach

- Lubinu Boys Secondary School Mumias East, Kakamega County since 2019 to date
- Bulanda Secondary School Butere Subcounty Kakamega County
- Kamashia Secondary School Mumias East Kakamega County 2018-2020
- Musanda secondary School 2014-2020
- Chairperson Board of Management Imani Teacher's Foundation
- Patron Kakamega Pentecostal Church Youth Group; **Coordinating** the Youth group for Bamboo value chain Enterprises

1.6.3 Professional Affiliation & portfolios

- Wildlife Clubs of Kenya
- Kenya Organization of Environmental Education
- African Fund for Endangered wildlife

1.6.4 Recognitions awards and honors

- Committee of Expert for the project African Regional Resilience Initiative on Climate Education (ARRICE)
- Country coordinator for LEAD ESD project hosted at Kenyatta University

1.6.5 Any other sub-category

- Member of committee: Tree planting in the university
- Member of ESD committee -School of Education Kenyatta University
- Aqua & Agriculture Initiative (A&AI);Project on building climate resilience through Climate Smart Agriculture practices to enhance socioeconomic wellbeing of small-scale farmers in Makueni county
- Panelist :Community driven Initiatives & Sustainability with ICON radio on 30th October 2024 during Culture week Kenyatta University

1.7 Referee

1. Prof.John Muriuki
Department of Environmental Science and Education
Kenyatta University
P.O Box 43844-00100
Nairobi
2. Prof Monica Muna
Department of Environmental Science and Education
Kenyatta University
P.O Box 43844-00100
Nairobi