

CURRICULUM VITAE



NAME: Dr. Joyce Wamuyu Mwaniki
Nationality: Kenyan
Date of Birth: 26th February, 1954
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ACADEMIC QUALIFICATIONS

1992: Ph. D in Environmental Plant Physiology, University of Sussex, U.K.
1984: MSc in Plant Biochemistry, University of Sussex, U.K.
1977: B. ED (Science) (Botany and Zoology) (Hons), University of Nairobi.

EMPLOYMENT RECORD

2003: To date: Senior Lecturer in the Department of Plant Sciences
involved in teaching both postgraduate and undergraduate courses.
1988 – 2003: Lecturer in the Department of Botany Department, KU.
1986 – 1988: Assistant Lecturer, Botany Dept. K.U.
1979 – 1986: Demonstrator, Botany Dept. K.U.

- 2009 – 2012: Deputy Director, Quality Management Systems and Performance Contract Directorate
- 2004 – 2007: Deputy Director of the Institute of Open Learning of Kenyatta University.
- 2002 – 2004: Assistant Director, Institute of Open Learning (K.U)

RESEARCH: - POST GRADUATE RESEARCH SUPERVISION

1. **Mr. O. Ombori** (M. Sc) project title “Selecting for salt and Drought tolerance using Soma-Clonal variation and induced mutagenesis in the African Finger Millet (1988).
2. **Mr. Muchoki** (M.Sc) Project title’ Macro-propagation in *Prunus Africana*. (2000).
3. **David Ong’are** M.Sc project title “Biological Nitrogen Fixation in Terary Beans” (2002).
4. **Mary Kiriba**, M.Sc project – In vitro and Macropropagation of East African Greenheart (*Warburgia ugadensis*. Sprague) in Kenya” (2005).
5. **Mr. S. Mutua**. Postgraduate Diploma project. Investigation of the factors that influence the HIV/AIDS intervention measures used by the physically challenged youth in Kenya (2004).
6. **Victor Sumbi** MPh-Assessment of factors influencing adherence to anti-retroviral therapy at Nyeri Provincial General Hospital. (2009)
7. **C.O. Ndedda** MPh – impact of ETAT+ on the case management of acute diarrhea at Rift Valley Provincial Hospital, Nakuru, Kenya. (2010)
8. **J.M. Kasungi** MPh- Factors associated with occurrence of aflatoxin poisoning outbreaks in kibwezi Division of Makueni District. (2012)
9. **A.N. Kamau** MPh- Assessment of mother’s infant feeding patterns and competence amongst children in their first two years of life within Nakuru Municipality. (2013)
10. **Ngulu James M.** project “An Assessment of The Adoption of improved Mango Varieties As An Adaptation To Climate Change in Kibwezzi, Makueni County.” (2015)

11. **Ahmed Mohamed Yusuf** – (M.Env Studies) – Charcoal Trade Implications on community livelihoods in Garowe District Somalia. (2016).
12. **E.K.N. Mugoh** MPh – Assessment of factors affecting adherence on anti-retroviral therapy in Embu Provincial Hospital. (2016).
13. **Kobia R Kagendo**. (M. Env Studies) – Investigating the Environmental and Socio-Economic Impact of Miraa (*Catha edulis*) Cultivation In Meru County, Kenya. (2017)

On going Research Projects

1. **Githinji M. Isaac** MSc. (Envr. Edu) – Roles and Attributes of School administrators on School Environmental Managements Plants in Kajiado.
2. **Mining K.K.** MSc. (Envr. Edu) – An Investigation of Local Community attitudes towards participating approaching in Biodiversity Conservation. The case study of Mau Forest neighbouring communities, Nakuru District.
3. **Judith Cherop** (MSC). I56/CE/34417/2016
Comparative study of two bean varieties on flowering, podding and yields in worm and chilly Areas of West Pokot.
Faith
4. **Barasa** I56/CE/24059/2013
Phytochemical Screening of selected solvent extracts on Roots, Leaves and Barks of *Ehretia bakeri* and its effectiveness against selected bacteria.
5. **Elly Lang'at Bomett** & N50/CE/22642/10
Surviving Perennial Floods in Namanjala
Flood Plans, Trans-Nzoia County through use of Indigenous Knowledge.
Through user.
6. **Karugia E.S.K.** Ph. D Impact of Range Condition on Resilience and Productivity of Heraceous Forage Species in Kivaa and Ntugi Watersheds in Eastern Kenya.
7. **Joyce Maina** – (M.Env. Studies) Sustainable Bamboo Farming to mitigate the Effects of deforestation to improve community Livelihoods, Kinale area.
8. **Cleophas Nyangeri**- (M Env Studies) Effect of population on water-table in Boochi ward, Kissi County.

9. **Angeline Leguuti.**

Assessing the production of rice and fish under integrated rice culture at Bunyala Irrigation Scheme, Busia County, Kenya.

10. **Omondi Olela:**

Assessment of rice and fish production under intergraded fish farming system in Bunyala irrigation scheme, Busia County, Kenya.

11. **E.lsa Obote:**

Impact of sustainable Flood Management on Socio-Economic development of communities in Nyando Sub-County, Kisumu County, Kenya.

12. **Wycliffe Mochache Nyabuto: I56/CE/27096/2018:**

Antitoxic, Antimalarial and phytochemical screening of four Medicinal plants in Kissi County, Kenya.

INTERNAL EXAMINATION OF THESES

1. Mr. Gathuku George Njagi. M.Sc Thesis “Impact of Conservation Education Canters On Sustainable Environmental Awareness in Schools.: A Case Study of Giraffe Centre, Nairobi Kenya”
2. Ms. Sende Frida Olive. M.Sc Thesis” Screening for water Deficit Tolerance and Agrobacterium Infectivity Among Topical Maize (*Zea mays* L.) Inbred Lines in Kenya.”
3. Mr. Lang ‘at Kipkoech Charles. M.Sc Thesis “Determination of The Drought Tolerance in *Camelia sinesis* (L.) O. Kuntze Using Cetechin Levels in Various Clones.” 2013.
4. Mr. Juvenary Patrick Madyanga. M.Sc. Thesis “Analysis of The Limiting foctors in Soil Water Management Practices Of Smallholder Farmers In Magamba Sub catchment of Lushotho District, Tanzania” (2013”
5. Daniel Gathuru Manguriu. Ph.D Thesis title “Information Exchange Among Stakeholders in Participatory Dissemination of Soil Fertility Improvement technologies in Meru South and Mbeere District or Kenya” (2012).
6. Ms. Milka Ngonyo Kiboi (M.ENV. Studies) Thesis Entitled “Effect of selected soil water conservation strategies on Maize yield in Farmer managed Trials in Embu and Tharaka Nithi counties, Kenya”. (2014)

7. Ms Patricia Mumbi Wambua MSc. Thesis entitled “Environmental and Socio-Economic Impacts of Sand Harvesting on the Community in River Kivou Catchment, Mwingi Central, Kitui County. (2016)
8. Ms. Wanjiru Beatrice Nzuli. Msc Thesis entitled “Farmers Perception and its impacts on the Adaption of *Gliricidia Sepium* against in Mwala, Machakos County, Kenya. (2014)
9. Mr. Lang’at Charles, Ph.D. Thesis: Evaluation of quantitative Trials and Associated Responses in selected Common beans (*Phaseolus vulgaris L.*) Genotypes under drought stress in Katumani Kenya. (2021).
10. Gathaiga Michael MSc Thesis entitled Productivity and Biomass Accumulation of Natural Mangrove Forest at Gazi Bay, Kenya. (2013).
11. Njiru Edith N. (M Env). Thesis entitled “Awareness of Environmental Challenges and Conservation measures among Secondary school students in Dagoretti District, Kenya. (2016)
12. James M. Gakuo MSc Thesis entitled Influence of Environmental Awareness: A Study of Primary Schools in Mwea Division, Embu. County, Kenya. (2016).
13. Grace Jerotich Kirui. Thesis entitled Screening for drought tolerance in selected chickpea (*Cicer arienum L.*) germplasm in Nakuru and Baringo Counties Kenya .

EXTERNAL EXAMINATION

- Externa examiner for Biology in Kagumo College since 1996 -2007.
- External examiner – University of Nairobi (2010 – 2013).
- External Examiner Karatina University. (2014 – 2016).

OTHER RESEARCHES/CONSULTANCIES DONE

1. June 2005 – August 2005: Commissioned by NACC as the World Bank Consultant oversee the training of district Technical committees and Constituency AIDS control committees in central Kenya on running HIV/AIDS programmed.

2. Principal researcher in the evaluation of the teaching of Science in Primary schools, 1998. This project was to evaluate the success of the Kenyan Educational Systems in regard to teaching science in primary schools.
3. Senior researcher in post – evaluation of greater Nakuru water supply project: JIBC-PMAT- Nov. 2000. The project was involved in evaluating the social impact of provision of water in homes and women’s lives financed by JIBC in Nakuru.
4. Consultant for the design and implementation of Dumbule-Gandini water and sanitation project (2007 – 2009)
5. Member of team for Kanziku water and sanitation project (2009 – 2010)
6. Consultant to Document NALEP Success Stories in Nyanza and Western Provinces (2009)

WORKSHOPS AND CONFERENCES ATTENDED

- 1981:** Weed Science Conference – Nairobi. I presented posters on the results of research done/carried out on the water weeds (*Salvinia molesta*) of Lake Naivasha, Kenya.
- 1986:** Workshop on Pigeon pea in Eastern Africa in Nairobi.
- 1991:** Workshop on salinity in Madrid, Spain.
- 1993:** Kenya Association of Women scientist and engineers at ICIPE. The purpose of their workshop was to evaluate the use of Biotechnology by women in their daily lives.
- 1999:** NCST/UNEP/GEF biosafety mechanisms framework on risk assessment and management – Nairobi. The workshop was concerned with reviewing the existing biosafety regulations in Kenya.
- 2002:** Workshop on sharing an update on the gender budget initiative presented a paper on “The road to Economic empowerment: women’s stakes. July 2002
- 2003:** Workshop on the gender issues in the Draft constitution of Kenya. Sports View Hotel. March 2003
- 2003:** Management of programmes in WOB-KTTC Learning Resource Centre

- workshop on “Distance Education, Open learning and E-learning for Teacher Development. KIE Nairobi Nov. 18th – 21st.
- 2003:** ABSF – Science communication workshop at Safari Park Hotel for members of parliament May 4th – 6th.
- 2004:** ILO/SLAREA. Tripartite Workshop on internationalization of Labour relations in Learning Institutions – Hilton hotel. 13th July.
- 2006:** National policy on Open learning and Distance Education, Held on 6th June 2006 at Kenya Institute of Education (KIE).
- 2007:** Kenyatta University Capacity Building Seminar for Mentors. Utalii Hotel 20th – 21st July 2007
- 2007:** March – April 2007 – Training for Implementation and Internal Audit for ISO 9001:2000. K.U. AVU Hall.
- 2009:** Training on implementation for ISO 14001:2004. 24th – 26th June 2009 at KUCC in K.U.
- 2009:** Training of trainers’ workshop for writers if Distance learning study materials. 19th – 20th Nov. and 17th – 20th Nov. 2009 at K.U. Computer Center.
- 2012 Serving people and the planet: “Greening Event”
UNEP HQS
18th -22nd Feb 2012.
- 2012** Workshop on the “Greening Event” UNEP Headquarters. **22nd Feb 2012.**
- 2012** Induction workshop on Education for Sustainable development in Africa KCB – Karen. **19th – 23rd March 2012**
- 2013 Teaching methodology –
Centre for Teaching Excellence & Evaluation, Kenyatta University 18th May and 14th Nov 2013.
- 2014 Training workshop. External Peer Reviewers,
Kenya school of Monetary Studies, Ruaraka 11th – 12th Nov 2014
- 2015 The society for Economic Botany – (Kenya Chapter SEB – K) 5TH symposium
Business Center –

Kenyatta University

- 2016 Tokyo International Conference on African Development
-TICAD VI SIDE EVENT.
“Enhancing Resilience against Climate and Ecosystem changes in Sub- Saharan Africa through Utilization of Indigenous and local knowledge.
Wangari Mathai Institute, UON.
25th Aug 2016.
- 2016** **WORKSHOP** on Harmonization of Standards in University Education.
Panari Hotel, Mombasa Road, Kenya 7th March 2016.
- 2017 Workshop on ISO 9001 for TIVET Institutions
Rift Valley Lodge Naivasha 10th – 12th April 2017:
- 2017 Quality management system (QMS) Internal Auditors Course
(ISO 9001: 2015). KUCC – Kenyatta University
28th – 29th March 2017
- 2017 Risk Based Thinking Course (Base in ISO 9001: 2015)
KUCC – Kenyatta University
30th March 2017
- 2017 Workshop on “Sustainable Urban Development: Lessons from case studies”
8.4.4 Board Room, Kabete UON
25TH July 2017
- 2017 **SOCIETY FOR ECONOMIC BOTANY** – (Kenya chapter)- Symposium on:
Living in a global World Ethnobotany, local, knowledge and sustainably
Chiromo, UON. 16th Dec 2017.

- 2019 BIOETHICS Training Workshop – by (CBEC – KEMRI)
KUCC – Kenyatta University
20th – 22nd Feb 2019.
- 2020 **SOCIETY FOR ECONOMIC BOTANY** – (Kenya chapter)-Virtual Symposium “Ethnobotany, Genetic Diversity and Sustainable use. May 2020
- 2021 WEBINAR** African Symposium on Higher Education: “Strengthening the role of Universities to produce homegrown solutions to Africa’s Development challenges” Nairobi Kenya 24th – 25th February 2021.

ORGANIZATION OF CONFERENCES

- 2004:** Organized “International Workshop on Environmental Health full Education” for Eastern Africa region; challenges and the way forward for the Dept. of Environmental Health, KU.
- 2004:** Module winters workshop. Kenyatta University April 1st – 2nd at AVU K.U.

PUBLICATIONS

Joyce W Mwaniki: “The effect of some inhibitors on the oxidative properties of mitochondria from a Halophyte compared with Glycophytes” (M.Sc. Thesis).1984.

Joyce W Mwaniki: “Salt-tolerance of some grasses from the shores of Lake Magadi, Kenya” (Ph.D. Thesis). 1992.

Ong’are D.W, Mwaniki J.W, Gitonga N.M and Shisanya C.A. (2000) Studies on eco-physiology and nitrogen fixation of drought adapted tepary bean (*Phaseola acutifolus*. A. Gray Var. *Latifoliuosa*) with various rhizobia strains in a semi-arid environment in **the proceedings of the ninth congress of the African Association for Biological Fixation. Sept 2000 at ICRAF, Nairobi.**

Mumah, S. Mwaniki J, Desai S.N., Tumuti S, Orango S.S.; Muoma, J.V.O. and Waswa J.K. (2003) Social Role and the environment as factors that make women more Vulnerable to HIV/AIDS infection. Paper presented at the international conference on the “impact of global issues on Women and children Thailand, Feb 16th – 21st 2003.

Mumah, S. Mwaniki, J., Mutua, S. and Muoma J.V. (2003) Influencing factors of HIV/AIDS spread among the physically challenged adolescents in Kenya; social role? The environment presented at the International conference on the “impact of global issues on Women and children Thailand, Feb 16th – 21st 2003.

Mumah, S. Mwaniki J.N., Gahagan J. Lelach, N. Muoma J, Kenyanto, T. and Odwasi, G.O. (2003) Application of biotechnology in fostering health and well-being: directions for Health and medical Research in developing countries. Paper presented at the conference of the Kenya Chapter of the association of third world studies (ATWS) on disparities in developing countries: Types challenges and the way forward. Kenyatta University; September 17th – 19th 2003.

Evangeline Mugoh, Ephantus Kabiru, Joyce Mwaniki. (2016) Patient factors influencing Adherence to ART Treatment among HIV/AIDS Patients in Embu Teaching and Referral Hospital. Comprehensive Care Clinic. **Science Journal of Public Health 2016; 4(5): 375-380.**

Evangeline Mugoh, Ephantus Kabiru, Joyce Mwaniki (2016) - Therapy and Health System-Related Factors Influencing Adherence to ART Treatment among HIV/AIDS Patients in Embu Teaching and Referral Hospital Comprehensive Care Clinic. **American Journal of Nursing Science Vol. 5, 2016, pp 167-172.**

Karugiah, E. K; Kariuki, F.W, Mwaniki J.W: - (2020) Influence of soil physical factors on Kivaa and Ntugi rengelanda in Eastern Kenya. **In Africa Journal of Pure and Applied Sciences Vol 1 No. 1 168**

Joy W Maina, Samuel Ochola, Joyce Mwaniki (2021) Sustainable Bamboo Farming to Mitigate Soil Degradation in Kinale Area, Kiambu County. **World Journal of Agricultural Research** 2021 9(2), 53-57.

COMMITTEE MEMBERSHIP AND OTHER DUTIES

Department: -

- Chairman welfare committee.
- Chairman, Departmental Quality Management Committee
- Curriculum Development Committee.
- Marks verification committee.

School: -

- Chairman, School Board of Postgraduate Studies (SPAS). 2017 to date.
- Chairman, School Exhibition Committee 2008 - 2019
- Chairman, School Committee on ISO 17025:2005. Competence of testing and calibration laboratories 2009 - 2012.
- Member, School Strategic Planning Committee 2010 to date.

University: -

- Vice-chairman, University Curriculum Development Committee 2017 to date.
- Kenyatta University Ethics Review Committee (2008 to 2011).
- Internal Auditor ISO 9001:2000 Quality Management Systems - 2008 to date.

National responsibilities: -

- Member of Tertiary Education Technical Committee - 2015 to date
 - Peer Reviewer for Commission for University Education – 2014 to date.
 - Represented K.U. in the Technical Committee on University Education. (2009 – 2018)
 - Member of the Governing Council of Kiriri Women's University (2009 – 2013)
- Member of Board of Governors in several schools at various times e.g.
Njiri School, Chinga Girls and Malewa Secondary.

OTHER ASSOCIATIONS.

- Member, Society for Economic Botany (SEB Kenya chapter)
- Members of African Biotechnology stake holders forum (ABSF)
- Member of Association of African Women for Research and Development (AWARD)
- Member Kenya Association of Women Scientists and Engineers

REFEREES

1. Dr. Eunice Kairu

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Kenyatta University
P.O. Box 43844
Nairobi.

2. Prof. Steve Orago

Department of Pathology
P.O. Box 43844
Nairobi.

3. Prof. T.J. Flowers

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Dr. Joyce W. Mwaniki.....

