



CURRICULUM VITAE

1.1 PERSONAL PROFILE

1.1.1 Personal Details

Name:	Dr. Benson Kamau Mburu
Nationality:	Kenyan
Designation:	Lecturer

1.1.2 Academic and Professional Qualifications

- 2013: PhD in Environmental Studies; research area - Climate Change Impacts & Adaptations in Arid Land Agricultural Ecosystems. Kenyatta University, Kenya.
- 1995: M Sc. in Environmental Sciences and Technologies, Universidad de Granada (Spain)
- 1988: B Sc. in Forestry (Second Class Honours, Upper Division), Moi University, Kenya.
- 2013: Completed a course on Teaching Methodology at Centre for teaching Excellence and Evaluation, Kenyatta University
- 2014: Competence & Skills Training for PhD supervisors and established scientists, Kenyatta University and AGRA-Wageningen UR.

1.1.3 Employment History

- July 2013 to date: Lecturer, Department of Environmental Education, Kenyatta University

- March 2009 - July 2013: Tutorial Fellow, Department of Environmental Education, Kenyatta University
- 2003 – 2008: Part Time Lecturer, Departments of Environmental Sciences and Environmental Education, Kenyatta University
- 1999 – 2002: Environmental Consultant, Lifeline Africa Technologies as well as running a personal transport and supplies business
- 1997 – 1998: Operations Manager, Kobo Safaris Limited, Kenya
- 1996 - 1997: Research Officer I, Kenya Forestry Research Institute
- 1993 – 1996: Research Student - Murcia University, Spain. Project: “Ectomycorrhizas of indigenous and exotic trees of Lowland Kenyan forests”. European Union contract TS3-CT92-0124.
- 1992 – 1995: Research Officer, Kenya Forestry Research Institute
- 1988- 1991: Assistant Research Officer, Kenya Forestry Research Institute
- Jan 1985- May 1985: Untrained Mathematics/Biology Teacher, Muruka Secondary School, Murang’a County.
- 1984: Untrained Mathematics/Biology Teacher, Kiranga Secondary School, Murang’a County.

1.1.4 Major Achievements since Last Appointment

- I have successfully supervised one PhD candidate and three masters students up to completion and graduation.
- As head of Academic Data Verification Section, we have managed to bring down the cases of historical missing marks from tens of thousands to fewer than one thousand. The aim is zero cases.

1.2 RESEARCH PUBLICATIONS

1.2.1 Refereed journal papers

1. Mutuku H. M., Kung'u J. B. and **Mburu B. K.** (2018). Tree cover trend analysis for the semi-arid lands of south eastern Kenya: the case of Matungulu Sub-county, Machakos County. *International Journal of Agriculture, Environment and BioResearch* Vol. 3, No. 06; 2018 pp 193-199. [**Impact factor 2018 0.23**]
2. Mutuku H. M., Kung'u J. B. and **Mburu B. K.** (2018). Farmers' perceptions of climate change and its effects on tree cover in the drylands of South Eastern Kenya: the case of Matungulu Sub-county, Machakos County. *Journal of Natural Sciences Research* Vol. 8, No. 22; 2018 pp74-88. [**Impact factor 5.58**]
3. Wamalwa I.W., **Mburu B.K.** and Mang'uriu D. G. (2016). Agro climate and weather information dissemination and its influence on adoption of climate smart practices among small scale farmers of Kisii County, Kenya. *Journal of Biology, Agriculture and Healthcare* Vol.6, No.10, 2016 pp 14-23. [**Impact factor 5.09**]
4. Wamalwa I.W., **Mburu B.K.** and Mang'uriu D. G. (2016). Perception of climate change effects and its influence on uptake of climate smart practices among small scale farmers of Kisii County, Kenya. *International Journal of Information Research and Review* Vol. 03, Issue, 05, pp. 2409-2417. [**Impact factor 5.325**]
5. **Mburu, B. K.**, Kung'u, J.B. and Muriuki, J.N. (2015). Climate Change Adaptation Strategies by Small-scale Farmers in Yatta District, Kenya. *African Journal of Environmental Science and Technology*, 9(9), 712-722.
6. **Mburu, B. K.**, Kung'u, J.B. and Muriuki, J.N. (2014). Effects of Climate Variability and Change on Household Food Sufficiency among Small-Scale Farmers of Yatta District, Kenya. *Journal of Environment*, Vol. 03, Issue 02, pp. 19-27. ISSN 2049-8373. Available online at www.scientific-journals.co.uk

1.2.2 Other Publications

Reviewed conference papers

1. Climate Change Adaptation Strategies by Small-Scale Farmers in Yatta District, Kenya. Proceedings of an International Symposium. 25 to 28th August 2014, Yaoundé, Cameroon pp. 255-263. Edited by J. F. Obiri, W. Kasolo, F. Fonteh, A. Yaye, A. Ochola, J. Mwazemba and S. Chakeredza
2. **Mburu, K.**, Honrubia, M., Ivory, M. H. and Mwangi, L. M. (1996). Ectomycorrhizae synthesis on indigenous and exotic forest trees in Kenya. In: Mycorrhizas in integrated systems from genes to plant development. Proc. 4th. European Symposium on Mycorrhizas. 11-14th July 1994, Granada, Spain. Edited by C. Azcon-Aguilar and J. M. Barea. ECSC-EC-EAEC, Brussels. Luxembourg. pp 557-560.

Abstracts in conference proceedings

1. Ivory, M. H., Honrubia, M., **Mburu, B. K.** & Mwangi L. M. (1996). Putative ectomycorrhizal fungi from native and exotic forests in Kenya. In: Mycorrhizas in integrated systems from genes to plant development. Proc. 4th. European Symposium on Mycorrhizas. 11-14 July 1994, Granada, Spain. Edited by C. Azcon-Aguilar and J. M. Barea. ECSC-EC-EAEC, Brussels. Luxembourg. pp 125-127.
2. Ivory, M. H., Honrubia, M., Mwangi L. M., Martin F., **Mburu, B. K.**, Di Battista, C. & Delaruelle, C. (1995). Ectomycorrhiza of indigenous and exotic trees in lowland Kenyan forests. Proc. Third Regional Mycology Conference, 7-10th March 1995, Harare, Zimbabwe.

1.3 QUALITY TEACHING AND LEARNING

Student evaluation

- My student-lecturer evaluation results have always been above 90% as evidenced by the attached relevant documents.

Mentoring

- Since 2012 I have been a member of staff-to-student mentoring programme nurturing students in achieving their life goals in and out of the University

The following are some of my mentees

Muchiri Muthoni Purity	N80/7464/2011
Nyang'au Moraa Ruth	N76/6324/2011
Bakari Fatuma Ramadhan	N39/2739/2012
Cherotich Fridah	N39/2735/2012
Njuguna Warachi Morris	N36/3835/2012
Mary Mbulwa Kyanyi	N36S/15038/2015
Susan Kavindu Wambua	N38S/15862/2011
Kandagor Yator Crispus	N76/3075/2015
Kevin K. Tulia	N38S/17316/2015
Nyacheki Nyairo Geffray	N80/2951/2015
Richard Owino Ochieng	N80/4776/2014
Odak Adhiambo Julie	N39/3185/2016

Training in higher education teaching

- 2013: Completed a course on Teaching Methodology at Centre for Teaching Excellence Evaluation, Kenyatta University
- 2014: Attended a Competence & Skills Training for PhD supervisors and established scientists, Kenyatta University and AGRA-Wageningen UR.

Post-graduate supervision

Ongoing supervision

Ph.D Student

1. Ms. Wanjiru Beatrice Nzilu (N85/CE/32326/2015). Role of indigenous knowledge systems in conservation of Nuu Hill Forest in Mwingi East, Kitui County, Kenya

Masters Students

1. Mr. Mamet David Ryan (N50/CTY/21532/2010). Role of vernacular radio stations in coping with climate variability effects on agriculture in Loitokitok Sub-County, Kenya.

2. Ms. Nyaga Marion Marigu (N50/CE/23088/2010). Climate change impact on household food security: a case of community coping strategies in Embu West District, Embu County, Kenya.
3. Murimi Edwin (N50/CTY/PT/33353/2015). Coffee farmers adaptation strategies to climate variability in Kirinyaga County, Kenya
4. Mr. Stephen Mwaniki Muasya (N50/27664/2014). Cassava production as a strategy to climate variability adaptation in Kathiani, Machakos County, Kenya.
5. Joseph Ngungi Kathigia (N50/CE/24736/2012). Effectiveness of Climate Variability Adaptation Strategies by Smallholder Farmers in Mbeere North, Embu County, Kenya.
6. Florence M. Muriithi (N50/37672/2016). Effects of human encroachment on natural regeneration of indigenous tree seedlings in Kimakia Forest, Kenya.
7. Ofulla Melvin Charles (N50/CTY/PT/33488/2015). Socio-economic factors influencing tree species diversity at the farms in Kisumu West sub County, Kenya.
8. Chelang'at Langat Joyce (N50/38008/2016). Effects of human activities on utilization and conservation of Kerisoi Forest, Kenya.

Submitted for examination

Ph.D Student

1. Mr. Mutuku Heeran M. (N85/24991/2012). Tree cover perspectives and climate change resilience: Case of Matungulu Sub-County, South Eastern Kenya.

Masters

1. Ms. Gichohi Jedidah Wambui (N50/CE/14477/09). Effects of Human Activities on the Conservation of Karima Hill Forest. Nyeri County, Kenya.
2. Mr. Bosire Douglas Onyiego (N50/CE/22724/2012). Impacts of climate variability on water availability and the social-economic challenges on adaptation in Masinga sub-county, Kenya.

Successful supervision/graduated students

PhD

1. Mr. Isaac Wafula Wamalwa (N85/28217/2013). Adoption of climate smart practices among small scale farmers of Kitutu and Nyaribari Chache Sub-counties in Kisii County, Kenya

Masters

1. Mr. Mutahi William Gichuki (N50/CE/14483/09). Awareness and Sources of Climate Change Information among Secondary School Students in Nairobi County, Kenya.
2. Ms. Christine Wanjiku Ngucia (N50/CE/26522/2011). Adoption of NERICA rice farming as a strategy to climate change adaptation in Mwea west, Kirinyaga County, Kenya.
3. Mr. Kamau Joseph Gakuo (N50/CE/21200/2012). Climate change effects on food security and the coping strategies by women groups in Gikindu Division, Murang'a East Sub-County, Kenya.

1.4 PROFESSIONAL CONSULTING

Networking and collaborating with external organizations

- Collaborating with ORGUT Consulting Kenya Limited
 - Collaborating with KINGSLINK ventures Ltd
 - Resource person for The Institution of Engineers of Kenya Contract Management Seminars.
 - Consultancy services for Monitoring and Evaluation of National Urban Transport Improvement Project (NUTRIP). Project ID P126321. Tender No: MOTIHUD/NUTRIP/03/2017-2018
 - Training consultancy for the Regional Centre for Capacity Development
 - NEMA accredited Environmental Impact Assessment (EIA) Lead Expert
 - Have conducted many EIA and Audit studies including several for Kenyatta University
1. EIA for Proposed Recreation Centre development project on plot LR No. 11026/2, Kasarani Division, Nairobi County (2016)

2. EIA for Proposed Machine Cut Quarry Stones on L.R. No. Juja/Juja East Block 1/1540 Juja Sub-County, Kiambu County (2018)
3. Proposed Amendments and Extensions to Church Complex on L.R. No Thika Municipality Block 20/409&410 Ngoingwa Thika Sub-County, Kiambu County (2018)
4. EIA for Proposed School of Business development project on plot LR No. 11026/2, Kasarani Division, Nairobi County (2016)
5. EIA for Proposed earth dam development project for Kenyatta University, Kitui Campus (2016)
6. Environmental Impact Assessment project report for proposed residential development on plot L.R 13631/28 Kahawa Wendani, Ruiru Sub-county, Kiambu County (2016).
7. Environmental Impact Assessment Report for the Proposed KENVERSITY SACCO Office Block on Plot L.R. No. Ruiru/Kiu/Block 3/2656, Kahawa Sukari, Kiambu County (2016).
8. EIA for Proposed underground water storage tank development project for Kenyatta University, Kitui Campus (2015)
9. Environmental Impact Assessment project report for the proposed residential development on plot L.R. No. Ruiru/Ruiru East Block 2/7451, Ruiru Sub-County Kiambu County (2015).
10. Environmental Impact Assessment project report for the proposed go down development on plot L.R. No. Thika Municipality Block 5/130, Kiambu County (2015)
11. Environmental Impact Assessment project report for the proposed go down development on plot L.R. No. Thika Municipality Block 5/135, Kiambu County (2015)
12. Environmental Impact Assessment project report for the proposed go down development on plot L.R. No. Thika Municipality Block 5/138, Kiambu County (2015)
13. Environmental Audit report for the 8-4-4 building–Kenyatta University (2015)
14. Environmental Impact Assessment Project report for proposed residential flats development on plot L.R. No 28656/23 Juja, Kiambu County (2015)
15. Environmental Impact Assessment Project report for proposed residential flats development on plot L.R. No 28656/28 Juja, Kiambu County (2015)
16. EIA for Proposed Development Project on Plot No. J207 within Plot L.R No.4148/15, Kenyatta road, Kiambu County (2015)
17. EIA for Proposed commercial cum residential Project on Plot Number, Thika Municipality/Block 20/310, Kiambu County (2015)

18. EIA for Proposed Bright Star Academy Project on Plot Number Thika Municipality/Block 19/2035, Kiambu County (2014)
19. EIA for Training consultancy for KU-Regional Centre for Capacity Development: USC - EDMOO1 (August 2014)
20. EIA for Proposed development of private mansion on Plot L.R. No. 14870/164, off Police Lane Road, Membreley area, Kiambu County (2014)
21. EIA for Proposed School of Education development project on plot LR No. 11026/2, Kasarani Division, Nairobi County (2014)
22. Embu University Health Unit-Clinic Environmental Audit (2014)
23. EIA for Proposed Students' Hostels Development Project on Plot LR. No. Mombasa/Block XXIV/98, Mombasa City (2014).
24. Town House Environmental Audit (2014)
25. Kenyatta University Funeral Home Environmental Audit (2014)
26. EIA for Proposed administration block development project on plot LR. No. Loc.2/Mariira/2372. Karega Secondary School, Murang'a County. (2013)
27. EIA for Proposed residential house development project on plot LR No. 4953/562. Thika sub-county (2013)
28. EIA for Proposed residential housing development project on plots LR No. Block 8/183 Thika sub-county (2013)
29. EIA for Proposed housing development project on the registered land LR No.12861/249&258. Thika sub-county (2013).
30. EIA for Proposed residential housing development project on plots LR No. 10890/38 & 39 Thika area (2012)
31. LWF EIA projects - Boreholes in Turkana West District, Turkana County (2012).
32. EIA for Proposed residential housing development project on plot LR No. 15/35, Thika Municipality (2011)
33. Bamburi Cement and Lafarge Eco Systems Statutory Health and safety audit (2008 and 2009)
34. Nzoia Sugar Statutory Environmental Health and Safety audit (2008 and 2009)
35. EIA for Proposed house development project on parcel no. L.R. 4602, Naivasha road, Nairobi (2008)
36. EIA for Proposed house development project on parcel no. L.R. 4603, Naivasha road, Nairobi (2008)

37. EIA for Proposed commercial/residential house development project on plot No. 2/156, Kiambu Municipality (2009)
38. EIA for Proposed residential flats development on plot LR.no. Ndumberi/Riabai/2760 Kiambu (2009)
39. EIA for Proposed residential house development project on plot LR.no. A181 Umoja inner core sector II, Nairobi city (2010)
40. EIA for Proposed Royal ICT Business Park (EPZ) project on plot LR no. 209/12971/2, Nairobi city

Membership to Academic/Professional Bodies

- 2010 to date: Member, Forestry Society of Kenya
- 2016 to date: Member Environmental Institute of Kenya

External examiner

- I have served as an external examiner for M.Sc. theses in the Institute of Energy and Environment Technology (IEET), Jomo Kenyatta University of Agriculture and Technology.
 1. Makau Anthony Musyoka (BPS/EET30-6238/2015). Assessment of communities' perception, policies and land use factors in relation to climate change processes in Nairobi City.
 2. Mongare Richard Ogoti (BPS/EET32-3003/2013). Assessment of occupational safety and health status of sawmilling industries in Nakuru County.
 3. Buyela Charles (BPS/EET32-5246/2015). Occupational safety and health status in Kenya Agricultural and Livestock Research organizations, western Kenya region.
 4. Eregae Justus Ekuwam (BPS/EET30-3882/2014). An assessment of carbon sequestration by dryland forest and eco-chair system in Taita Ranch, Kenya.

5. Kisilu P. Muthoki (BPS/EET32-C005-2714/2012). Determination of prevalence of work-related musculoskeletal disorders among housing construction workers in Mombasa County.

1.5 ADMINISTRATION AND RESPONSIBILITIES

1.5.1 Recognized University Administrative Positions

Head of section

- 2017 October to date: Head Academic Data Verification Section.

Examination coordinator

- 2012 November to 2016 May: School Examinations Coordinator (School of Environmental Studies).
- 2012 April to 2012 November: Departmental Examinations Coordinator (Department of Environmental Education).

Membership of Senate or University Board Committee

- Customer satisfaction survey committee for 2018/2019 Academic year
- Advisory committee on maximum utilization of space and facilities at Kitui Campus
- Fees fraud and emerging cases of tampering with marks committee
- 41st, 42nd, 43rd, 44th and 45th graduation committees
- Erroneous discontinuations of students and 'X' posting committee
- University staff establishment committee
- Sensitization and implementation of two thirds class attendance rule committee
- Institutional self-assessment committee
- Missing marks elimination committee
- Procedures for processing requests for semester off committee

Membership of Departmental Committee

- Departmental corruption prevention committee
- Departmental marks verification committee

1.5.2 Other Responsibilities in the University

- 2016 June to 2017 September: Ag, Head Academic Data Verification Section.
- Departmental field trips coordinator
- Staff mentor
- Teaching and examining students

1.6 COMMUNITY ENGAGEMENT AND OTHER CONTRIBUTIONS

Attracting research and development funding

- Member of the proposal writing committee for the African Union 2016 call for proposals

Member of school board

- 2013 to date: Chairman, Board of Management (BOM), Munyu Mixed Day Secondary
- 2010 to 2013: Member, Board of Management (BOM), Munyu Mixed Day Secondary School
- 2016 to date: Chairman, Board of Management (BOM), Gatwanyaga Mixed Day Secondary School.
- 2016 to date: Vice Chairman, Board of Management (BOM), Gatitu Primary School.

Others contributions

- 2015 to date: Chairman, Gatitu Primary School Alumni Mentors Group - working with the Gatitu Primary School fraternity in Murang'a County in enhancing education levels.
- 2012 to date – Church Elder, Ngoingwa PCEA, Thika West Parish– serving God and humanity by proactively addressing the physical and spiritual needs of the members

- March 2014: Member IPSS curriculum review committee
- Resource person for The Institution of Engineers of Kenya Contract Management Seminars