**Curriculum Vitae**

Name: Mwangi James Kinyanjui

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**Curent position –**

1. Coordinator – Centre for Mountain Studies and Climate Change
2. Lecturer Karatina University – Forestry, Natural Resource Management, Geography

**PROFESSIONAL QUALIFICATION**

**2003 – 2009:** **Doctor of Philosophy** (Natural Resource Management). Department of Forestry, Egerton University P.O. Box 536 Egerton, Njoro Kenya, Thesis title “***Effect of Human Encroachment on forest cover, structure and composition in the western blocks of the Mau forest reserve, Kenya***”

**1997 - 2001: Master of Philosophy** (Forest Biology and Silviculture). Department of Forestry, Moi University P.O. Box 3900 Eldoret, Kenya. Thesis title, ***Preliminary sample plot data and volume equations for four common indigenous species in Transmara district forests, Kenya”***

**1990 - 1995: Bachelor of Forestry**, Moi University P.O. Box 3900 Eldoret, Kenya. Grade – 2nd class Hons Upper Division

**SPECIALIZED TRAINING**

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| Institution | Date | Subject/Course | Certificate |
| Green Climate Fund | 10/2020 | Writing GCF proposals for Simplified Approval Process | Certificate |
| Coalition for Rain Forest Nations | 4/2019 | Training on the generation of a National Greenhouse Gas Inventory and the calculation of emissions and removals estimations for Agriculture, Forests and wood products and Other Land Use sectors under the Reporting for Results-based REDD+ (RRR+) Actions project | Certificate |
| United Nations Framework convention on Climate Change (UNFCCC) Bonn Campus | 12/2017 | * Module 1 An Overview of GHGs * Module 2.1 Mitigation Actions and their Effects on GHG inventories * Module 2.2 National GHG Inventories | Certificate |
| 12/2017 | * Cluster 2 - Background materials covering methods and science of Climate Change * Module 2.2d GHG Inventories - LULUCF * Module 2.2f GHG Inventories - Differences in IPCC Guidelines (1996 vs 2006) | Certificate |
| 12/2017 | * Cluster 3 – Provisions on technical analysis of technical annex on REDD-plus * Module 3 Technical annex on results-based actions relating to REDD-plus | Certificate |
| 10/2015 | * General and cross-cutting aspects of the review of National Communications and Biennial Reports * Review of GHG emissions, emission trends, projections and the total effect of policies and measures. * Review of the provision of financial support, technology transfer and capacity-building | Certificate |
| UNEP – UN REDD academy | 12/2015 | * REDD+ (Basics, Results Based payments, FRL, SIS, NFMS, Strategy, PaMs) | Certificate |
| Kenya School of Government | 10/2014 | Senior management Course to support management of teams and projects | Certificate |
| United Nations Environment Programme | 12/2007 | GIS mapping of forest resources | Internship programme |

**COMMUNITY OUTREACH**

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| **Date** | **Place** | **Position** | **Description** |
| 2022 ongoing | Nigeria | Team leader | Operationalization of Nigeria’s National Forest Monitoring System for REDD+A project lead by Arbonaut Oy Ltd (<https://www.arbonaut.com/en/>) |
| 2021 - ongoing | Rwanda | Team Leader | Assessment of the Potential Forest Carbon supply and Market Readiness in Rwanda’s forests - Development of Rwanda’s forest Reference Level for REDD+ |
| 2021 | Kenya | Team Leader | Development of Kenya’s REDD+ Strategy and investment Plan. A REDD+ Readiness activity coordinated by UNDP/Ministry of Environment and Forestry |
| 2021 | UNFCCC | Expert Reviewer | Technical analysis of Malaysia 3rd BUR.  <https://unfccc.int/documents/307605> |
| 2021 | UNFCCC | Expert Reviewer | Technical analysis of Peru 2nd BUR.  <https://unfccc.int/documents/266410> |
| 2020 | UNFCCC | Expert Reviewer | Review of 1st biennial update Report under the UNFCCC- <https://unfccc.int/sites/default/files/resource/tasr2021_ZMB.pdf> |
| 2020 | UNFCCC | Expert Reviewer | 7th REDD+ technical assessment of proposed forest levels – June - July 2020.  <https://unfccc.int/sites/default/files/resource/tar2020_BTN.pdf> |
| 2020 | UNFCCC | Expert Reviewer | Technical analysis of biennial update reports (BURs) from developing Country Parties ( 9th-13th March 2020. <https://unfccc.int/sites/default/files/resource/tasr2020_LBN.pdf> |
| 2020 | UNFCCC | Expert Reviewer | Technical analysis of Botswana 1st BUR.  <https://unfccc.int/documents/267105> |
| 2020 | GFOI | C Author | Co-Author of the Methods and Guidance Document (MGD 3.0) of the Global Forest Observation Initiative (GFOI)  <https://www.reddcompass.org/documents/184/0/GFOI-MGD-3.0-en.pdf/9893d3c5-0502-4b56-a93c-f24563faf083> |
| 2020 | Kenya | Team Leader | Writing of Kenya’s Forest Reference Level for submission to the UNFCCC –  <https://redd.unfccc.int/files/national_frl_report_for_redd__in_kenya.pdf> |
| 2020  g | Kenya | REDD+ expert | Development of a community based Carbon Monitoring project for Kirisia forest in Samburu County. |
| 2020 | Kenya | Member | Green House Gas Inventory for Kenya’s LULUCF sector to support development of Kenya’s 3rd National Communication |
| 2019 | UNFCCC | Expert Reviewer | Reviewer of 7th National communication for Portugal submitted to UNFCCC. <https://unfccc.int/sites/default/files/resource/idr7_PRT.pdf> |
| 2019 | UNFCCC | Expert Reviewer | Reviewer of 3rd Biennial Update Report for Portugal submitted to UNFCCC.  <https://unfccc.int/sites/default/files/resource/trr3_PRT.pdf> |
| 2019 | UNFCCC | Expert Reviewer | Reviewer of 2nd Biennial Update Report for Malaysia submitted to UNFCCC.  <https://unfccc.int/sites/default/files/resource/tasr2019_MYS.pdf> |
| 2019 | IPCC | Lead Author | The 2019 Refinement to the 2006 Intergovernmental Panel on climate Change (IPCC) Guidelines for National Green House Gas Inventories (2019 Refinement). Specific area Biomass tables AFOLU sector  <https://www.ipcc.ch/site/assets/uploads/2018/05/2019Refinement_ListofSelectedAuthors.pdf> |
| 2017 | Rwanda | REDD+ Expert | REDD+ expert in development of the Forest Investment Plan for Rwanda  (<https://www.climateinvestmentfunds.org/sites/cif_enc/files/fip_final_rwanda.pdf>) as a REDD+ implementation strategy. I was responsible for   1. Aligning the Forest Investment Plan to the REDD+ strategy for Rwanda 2. Projections of GHG emissions based on Nationally Determined Contributions (NDC) for Rwanda |
| 2016-2018 | Rwanda | Team Leader | Leading the process of development of District Forest Management Plans in 8 Districts; Burera, Musanze Nyabihu, Rwamagana, Gatsibo Gasabo, Nyarugenge and Kicukiro to support sustainable management of forest in Rwanda.  <https://file.scirp.org/pdf/OJF_2018042614180610.pdf> |
| 2016 | Kenya | MRV/REDD+ expert | Development of Kenya’s roadmap for the National forest monitoring system (NFMS) . <http://www.kenyaforestservice.org/documents/redd/Roadmap%20for%20Establishing%20REDD,%20%20RL%20and%20NFMS.pdf> |
| 2008 – 2015 | Kenya | Forestry expert | Deputy Head – Remote Sensing Section (Monitoring forest/vegetation cover in Kenya, |
| 2012 | Kenya | Team Leader – forest biomass | **Forest Preservation Programme for Forest Biomass/Carbon inventory**. A program linking Arbonaut (Finland) PASCO (Japan) and KFS (Kenya).  https://www.researchgate.net/publication/269791724\_An\_Inventory\_of\_the\_Above\_Ground\_Biomass\_in\_the\_Mau\_Forest\_Ecosystem\_Kenya |

**RELEVANT PUBLICATIONS**

1. Cuni Sanchez et al (2021). High aboveground carbon stock of African tropical montane forests. *Nature* <https://www.nature.com/articles/s41586-021-03728-4>
2. Mathew Kiura Kigomo, David Mwehia Mburu, **James Mwangi Kinyanjui**, Aggrey Daniel Maina Thuo, Charles Ndegwa Mundia (2020). Trend and Variability in Interannual Air Temperature Over South West Mau Forest, 1985 – 2015. [*https://iiste.org/Journals/index.php/JNSR/article/view/53717*](https://iiste.org/Journals/index.php/JNSR/article/view/53717)
3. Mathew Kiura Kigomo, David Mwehia Mburu, **James Mwangi Kinyanjui**, Aggrey Daniel Maina Thuo, Charles Ndegwa Mundia (2020). Carbon Sequestration by the Above Ground Biomass Pool in the South West Mau Forest of Kenya, 1985 – 2015. [*https://www.iiste.org/Journals/index.php/JEES/article/view/53831*](https://www.iiste.org/Journals/index.php/JEES/article/view/53831)
4. Nancy Mwangi,·Hunja Waithaka, ·Charles Mundia, ·**Mwangi Kinyanjui** and Felix Mutua (2020). Assessment of drivers of forest changes using multi‑temporal analysis and boosted regression trees model: a case study of Nyeri County, Central Region of Kenya. *Modeling Earth Systems and Environment* <https://doi.org/10.1007/s40808-020-00781-2>
5. The 2019 Refinement to the 2006 IPCC Guidelines for National Green House Gas Inventories (2019 Refinement) (Coauthor). Specific area Biomass tables and wood based forest products

<https://www.ipcc.ch/site/assets/uploads/2018/05/2019Refinement_ListofSelectedAuthors.pdf>

1. Owate, A., Mugo, M and **Kinyanjui, M, J**. (2018). Allometric equations for estimating silk oak (Grevillea robusta) wood biomass in agricultural landscapes of Maragua Sub-County, Kenya. *International Journal of Forestry Research*. Vol 2018, ID 6495271, 14 pages <https://doi.org/10.1155/2018/6495271>
2. Rurangwa, F., **Kinyanjui, M. J**., Bazimaziki, F., Peeters, J., Munyehirwe, A., Musoke, F., Habiyaremye, G. N., Bakundukize, D., Ngabonziza, P., & Uwase, J. (2018). Developing a Forest Management Plan (DFMP) for Gatsibo District in the Eastern Province of Rwanda. *Open Journal of Forestry*, 8, 247-265 <https://doi.org/10.4236/ojf.2018.82017>
3. Kavwele. C, Kimanzi J and **Mwangi James Kinyanjui (**2017)**.** Impacts of Bush Encroachment on Wildlife Species Diversity, Composition and Habitat Preference in Ol Pejeta Conservancy Laikipia, Kenya,” International Journal of Ecology [https://www.academia.edu/34723772/](https://www.academia.edu/34723772/%20)
4. Mutwiri, F. , Odera, P. and **Kinyanjui, M**. (2017) Estimation of Tree Height and Forest Biomass Using Airborne LiDAR Data: A Case Study of Londiani Forest Block in the Mau Complex, Kenya. Open Journal of Forestry, 7, 255-269. <https://www.scirp.org/journal/paperinformation.aspx?paperid=75684>.
5. Maina, E. , Odera, P. and Kinyanjui, M. (2017) Estimation of Above Ground Biomass in Forests Using Alos Palsar Data in Kericho and Aberdare Ranges. *Open Journal of Forestry*, **7**, 79-96. doi: <https://www.scirp.org/journal/paperinformation.aspx?paperid=74783>
6. **Kinyanjui, M.J**., Kigomo, J.N., Kamau M. W., Nderitu, Joel. K., Nyanjui C., Nganga J. M., Ojijo W. O., Ashiono F., Owate A. O. and Ndirangu M. K. (**2015**). Comparing Tree Heights among Montane Forest Blocks of Kenya Using LiDAR Data from GLAS. *Open Journal of forestry*, 2015, 5, 80-89. <https://www.scirp.org/html/9-1620250_53470.htm>
7. J.G. Muchemi, M. K. McCall, F. N. Wegulo, **J.M. Kinyanjui,** A. N. Gichu, E. K. Ucakuwun, G. M. Nduru (2015): Community Monitoring of Forest Carbon Stocks and Safeguards Tracking in Kenya: Design and Implementation Considerations. Open Journal of Forestry, 2015, 5, 457-470
8. **Kinyanjui, M.J**.,Shisanya, C.A., Ondimu, K. N., Wargute, P. W. and Ojwala, M. A. **(2014).** Assessing Tree Species Dominance along an Agro Ecological Gradient in the Mau Forest Complex, Kenya. *Open Journal of Ecology*, 2014, **4:** 662-670. [https://www.researchgate.net/publication/264828284\_](https://www.researchgate.net/publication/264828284_Assessing_Tree_Species_Dominance_along_an_Agro_Ecological_Gradient_in_the_Mau_Forest_Complex_Kenya)
9. **Kinyanjui, M.J**., Latva-Käyrä, P., Bhuwneshwar, P.S., Kariuki, P., Gichu, A. and Wamichwe, K**. (2014).** An Inventory of the Above Ground Biomass in the Mau Forest Ecosystem, Kenya. *Open Journal of Ecology*, 2014, **4**, 619-627. <https://www.scirp.org/html/4-1380236_48006.htm>
10. **Kinyanjui, J.M. (2014):** Predicting Pasture Security in Rangeland Districts of Kenya using 1 km Resolution Spot Vegetation Sensor NDVI Data. In Francis Eliott Greer (Ed). Dry Forests: Ecology, Species Diversity and Sustainable Management. Environmental Health – Physical and Biological Factors. ISBN 978-1-63321-29-6
11. Alemayehu, F, Onwonga R., **Kinyanjui, M. J**. and Wasonga O. (2014). Assessment of Shoreline Changes in the Period 1969-2010 in Watamu area, Kenya. *Global Journal of Science Frontier Research, Environment and Earth Science.* 14 (6): V1 2014. <https://journalofscience.org/index.php/GJSFR/article/view/1448>
12. Alemayehu, F, Onwonga R., **Kinyanjui, M. J**. and Wasonga O. (2014). **(2014)** Assessment of Mangrove Cover Change and Biomass in Mida Creek, Kenya. *Open Journal of Forestry, 2014, 4, 398-413.* [*https://www.scirp.org/journal/paperinformation.aspx?paperid=48377*](https://www.scirp.org/journal/paperinformation.aspx?paperid=48377)
13. **Kinyanjui, J.M (Coauthor)** IPCC 2014, Revised Supplementary Methods and Good Practice Guidance Arising from the Kyoto Protocol. Intergovernmental panel on climate change.
14. **Kinyanjui, J.M.** Karachi, M and Nyabuti, K.N **(2013)** Natural Regeneration and Ecological Recovery in Mau Forest complex, Kenya. *Open Journal of Ecology* 3 : 417-422
15. **Kinyanjui, J.M.** Karachi, M and Nyabuti, K.N **(2012):** Documenting the Carbon content of the Mau Forest *Complex****.*** *Journal of Environment, Natural Resources Management and Society Vol 1(1) 70-81*
16. **Kinyanjui, J.M.** Karachi, M and Nyabuti, K.N **(2012):** Estimating forest volume and yield in the western blocks of *the Mau Forest Complex, Kenya****.*** *Journal of Environment, Natural Resources Management and Society Vol 1(1) 59-69.*
17. **Kinyanjui, J.M. (2011):** NDVI based vegetation monitoring in the Mau forest complex, Kenya –*African Journal of Ecology* 49: 165-174. <https://onlinelibrary.wiley.com/doi/10.1111/j.1365-2028.2010.01251.x>
18. **Pavel et al (2012):** Capacity building for climate change Mitigation and adaptation activities in Kenya. A technical report of the project samrs/2010/15/01: Slovak hydro meteorological institute, Bratislava
19. **MEMR (2012):** The Water Catchment Master Plan. Ministry of Environment and Mineral Resources
20. **Kinyanjui et al., (2011):** Mapping the Status of Aberdare water Tower. Technical Report No 192. Department of Resource Surveys and Remote Sensing. MEMR.

**MEMBERSHIP**

1. Kenya Forestry Society
2. Commonwealth forest Association,
3. East African Ecological Society
4. African Association of Remote Sensing for the Environment