

CURRICULUM VITAE

PERSONAL DETAILS

NAME	MARY MBURA NJENGA
GENDER	Female
NATIONALITY	Kenyan
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LANGUAGES	Kikuyu, English and Swahili (Spoken & written)

SUMMARY

Current roles and interest: I am a Research Scientist, Bioenergy at World Agroforestry Centre (ICRAF) and leading Eastern and Southern African Regional work on sustainable woodfuel systems and resource recovery and reuse (RRR) for energy. My work involves sustainable woodfuel and other biomass energy systems and include designing, fund raising, gender integration, implementing and managing transdisciplinary research and action projects and gender integration. This includes generating knowledge on appropriate technology and innovations, implications on natural resource/environment including climate change and livelihoods. I am also involved in capacity development for communities and scientists on these fields of study. I am directly contributing to policy development through working closely with county and national governments. I communicate findings and lessons through various channels and currently have published 28 journal papers, 5 books, 1 strategy, 35 book chapters, 5 training manuals, 11 technical and policy briefs, 3 working papers, 29 technical magazine articles, 9 abstracts/papers from presentations published in conference books/journals (*presented 6 of them and 2 of these as a panelist*), another 59 presentations (*presented 49 of them*) including 5 as a panelist, 3 demonstrations, 7 seminars and 2 training sessions and given 6 guest lectures. Stared 6 less than 15 minutes training video clips. My aim is to contribute to improving food, nutrition and energy security, health, eliminating poverty, gender equality, sustainable use of ecosystems, mitigating climate change and sustainable rural and urban development.

RESEARCH AND SCHOLARLY BACKGROUND

- **August 2017-current**, *Research Scientist: Bioenergy*. World Agroforestry Centre (ICRAF-Consultative Group on International Agricultural Research {CGIAR}) Nairobi, Kenya
- **May 2019-current** *Editorial Board* Resource Recovery and Reuse (RRR) series of International Water Management Institute (IWMI)
- **January 2019-current** *Editorial Board*, Urban Agriculture Book Series of the Springer publishing house
- **2015-current**, *Member of Board of Directors* Women Organizing for Change in Agriculture and Natural Resource Management (WOCAN) <http://www.wocan.org/about/staff>. Headquartered in San Francisco, USA, with a membership of 1248 people in 112 countries in Africa, Asia, Europe, North America and Latin America.
- **1st September 2014-current**, Visiting lecturer. Wangari Maathai Institute for Peace and Environmental Studies, University of Nairobi
- March 2014- July 2017. *Post-Doctoral Fellow, Bioenergy*. World Agroforestry Centre (ICRAF-Consultative Group on International Agricultural Research {CGIAR}) Nairobi, Kenya
- 6th November 2013, Adjunct Assistant Professor, Department of Geography, North Illinois University, USA.
- 17th March 2011-23rd August 2013, plus 1 year of proposal development and defense in 2010, University of Nairobi *Doctor of Philosophy (PhD)* in Management of Agroecosystems and Environment. Thesis 'Evaluating fuel briquette technologies and their implications on greenhouse gases and livelihoods in Kenya'. Affiliation: World Agroforestry Centre (ICRAF), Swedish University of Agricultural Sciences (SLU) and Michigan State University (MSU).
- 2000-June 2008, University of Nairobi. *Master of Science (MSc)*, Degree in Biology of Conservation. Thesis 'Vegetation Survey and Large Herbivores Population Changes, at IL Ng'wesi Community Conservancy, Laikipia District- Kenya'.
- 1992 – 1996, Egerton University. *Bachelor of Science (BSc)*, Degree in Natural Resource Management.
- June 26-July 18, 2009, University of California, Berkeley, USA. Certificate in Sustainable Environmental Management, supported by Beahrs Environmental Leadership Program (ELP) and Doyle Foundation

Schools

- Kambaa Girls High School, (1987-1990). Kenya Certificate of Secondary Education
- Kereita Primary School, (1978-1986). Kenya Certificate of Primary Education

Scholarly fellowships and research placements

- 14 June-3 July 2018. Guest Scientist -Bioenergy. Office of International Programs, College of Agricultural Sciences, Penn State University. Working with Dr. Ruth Mendum, Associate Director of Gender Initiatives.
- 12-29 January 2018. Guest Scientist -Bioenergy. Office of International Programs, College of Agricultural Sciences, Penn State University. Working with Dr. Ruth Mendum, Associate Director of Gender Initiatives.
- 8th March-2nd April 2017. Guest Scientist -Bioenergy. Office of International Programs, College of Agricultural Sciences, Penn State University. Working with Dr. Ruth Mendum, Associate Director of Gender Initiatives.
 - *jMary Njenga and *jRuth Mendum. Guest lecture on sustainable woodfuel systems and gender. Undergraduate class on women studies and rural development. Penn State University. March 2017.
- 26 September to 23rd October 2016, Guest Scholar on Sustainable Energy and Climate Resilience at the Institute of Energy Systems, University of Edinburgh, Scotland, UK, supported by Commonwealth Professional Fellowships.
- 3-7th October 2016 in Nairobi Kenya. Transdisciplinary Research (TDR) by International Council of Science (ICSU) in collaboration with its Regional office in Africa, (ICSU ROA), Network of African Science Academies (NASAC) and the International Social Science Council (ISSC).
- 4-24 June 2016 and 4-24 June 2017. Gender Research and Integrated Training (GRIT) at Pennsylvania State University, USA as part of a 2 year training programme for CGIAR early career scientists by CGIAR-Pennsylvania State University.
- 3-15th May 2015, Research exchange programme on fruit tree breeding at the National Research and Innovations Centre (NARIC)-Fruitculture Research Centre (FRI) and short rotation forestry for energy at Forest Research Institute (ERTI), Hungary, supported by EU and CGIAR.
- 1st December 2011- 28th February 2013. Formal mentorship and research placement by The Norman E. Borlaug Leadership Enhancement in Agriculture Program (LEAP) funded by the United States Agency for International Development (USAID).
 - September to November 2012, Guest Research Scholar, Department of Community, Agriculture, Recreation and Resource Studies, Michigan State University, Socio-economics of fuel briquettes and influence of type of wood on quality of fuel briquettes. Supported by Borlaug LEAP fellowship.
 - 1-4 November 2012, guest lecture on sustainable woodfuel for sustainable development: Case of Kenya to Environmental Management undergraduate course at the Department of Geography, North Illinois University., Africa. Supported by Borlaug LEAP fellowship.
- September 1st 2009-31st August 2012. Formal mentorship and research placement on leadership and technical capacity by African Women in Agricultural Research and Development (AWARD) of the Gender and Diversity program of the Consultative Group on International Agricultural Research (CGIAR).
 - September-December 2011 and May-July 2012, Guest Research Scholar, Department of Energy and Technology, Swedish University of Agricultural Sciences (SLU). Biomass energy quality and environmental impact assessment of charcoal briquettes using life cycle assessment (LCA). Supported by AWARD fellowship.
- 31st October 2013, guest lectures in four classes on charcoal briquette innovation in the school of media and public affairs of The George Washington University.
- September 2009-Sept 2010. Ecopolis Graduate Fellowship. Organic Waste Recycling for Sustainable Energy Fuel Briquette Production and Healthy Environment, Nairobi City and Its Environs, Kenya. Funded by IDRC

Other trainings

- *Women's Leadership and Management Course*. By Training Resource Group Inc. USA and Gender and Diversity Program-CGIAR for African Women in Agricultural Research and Development (AWARD). Accra Ghana, 7-13th November 2010.
- *Scientific Writing and Policy Development in Agricultural Research*. By Gender and Diversity Program-CGIAR for African Women in Agricultural Research and Development (AWARD) and International Foundation for Science (IFS). Maputo, Mozambique 18-27th January 2010
- *Mentorship skills*. By Gender and Diversity Program-CGIAR for African Women in Agricultural Research and Development (AWARD). Mombasa, Kenya 21-25th Sept 2009

- *Urban Futures - The Challenge of Sustainability*. By Alliance for Global Sustainability (AGS). ETH Zurich. 26 - 29 January 2009
- *Scientific Communication*. By International Potato Centre, Nairobi, Kenya. 19-21 June 2006 and 10 April 2008
- *System-wide Collaborative Action for Livelihoods and the Environment* By Academy for Education Development-USAID. Nairobi, Kenya 6-10 November 2006
- *Gender Mainstreaming in Urban Food Production and Food Security*. By Resource Centre for Urban Agriculture and Food security (RUAF) and Urban Harvest-CIP. Women Feeding Cities: Ghana, 20-23 September 2004
- *Gender and Urban Agriculture*. By Resource Centre for Urban Agriculture and Food security (RUAF). South Africa, July 5-12, 2003
- *Environmental Impact Assessment*. By USAID & PACT MWENGO, April 22-26 2002 Naivasha, Kenya.
- *Project Management Cycle*. By ETC/SARDEP Nanyuki, Kenya, January 25-27 2001
- Certificate course in *Micro Computer Software Packages*. Kimende Business College August - October 1997

Coordination and supervision of postgraduate students and interns work

- Siri Ranung and Jessica Ruud March-May 2019. BSc, Energy and Environment Royal Institute of Technology (KTH) Sweden. Study on farm-level production and use of biochar in Kenya - energy efficiency, greenhouse gas emissions and health conditions.
- February 2015-current. James Kinyua Gitau, PhD student in Environmental Governance and Management at Wangari Maathai Institute for Peace and Environmental Studies, University of Nairobi. Study on tree/biomass based cooking energy systems in rural Kenya.
- March-May 2018. Libbis Sujessy MSc, Sustainable Technology, Royal Institute of Technology (KTH) Sweden and Made Sania Saraswati, MSc, Sustainable Development, Uppsala University. Studies on assessment of the climate and health impacts of the application of biochar, both positive and negative, in small-holder farms and households in rural Kenya against the traditional agricultural and cooking practices and assessing the improvements needed on gasifier stove (TLUD GASTOV) in response to the user's needs and in consideration of its environmental implications respectively.
- January 2015-current. Dan Oluoch, PhD student in Environmental Governance and Management at WMI, University of Nairobi. Study on household cooking energy mix and factors that influence choice and adoption of cleaner and sustainable options, Nairobi, Kenya.
- October 2015-2016. Barbara Njeri an intern at ICRAF on bioenergy and environment. BSc. Graduate on Environmental Planning and Management Kenyatta University, Kenya.
- March 2015. Helle Henriksen, Mrija Crone, Ida Brink and Sofie Mortensen, University of Copenhagen, Denmark and Anne Majani and Sarah Kongani, University of Nairobi. The six Masters students were undertaking a research project on domestic energy at Magina, Kiambu County, Kenya under Sustainable Land Use and Management Systems (SLUSE) exchange program
http://sluse.dk/courses/ilunrm/project/Domestic_Energy.pdf
- September-December 2015. Petra Sieber Masters student on environment and bio-resources management, University of Natural Resources and Applied Life Sciences Vienna while on attached at Swedish University of Agricultural Sciences (SLU). Study on implications of improved biofuel management for climate change. An LCA-based evaluation of biochar and charcoal in Kenyan smallholder farming.
- June-August 2014, Barbara Njeri. Bachelor of Environmental Planning and Management Kenyatta University, Kenya attached to ICRAF. Studies on (i) emissions and energy use efficiency of household cooking using biochar produced indoor in Embu, Kenya by ICRAF, International Institute for Tropical Agriculture (IITA) and SLU, (ii) Flower green farm green waste plus human waste into briquettes by Sanivation in Naivasha and ICRAF.
- June-August 2014. Nemer Archour Master's student in Energy Systems Engineering, 300c, Uppsala University and Swedish University of Agricultural Science (SLU), Sweden attached to ICRAF. Study on emissions and energy use efficiency of household cooking using biochar produced indoor in Embu, Kenya by ICRAF, International Institute for Tropical Agriculture (IITA) and SLU.
- March-May 2014. Lovisa Larsson and Hanna Helander, Bachelor of Social Technical Engineering –Energy Systems, Uppsala University and Swedish University of Agricultural Science (SLU), Sweden attached to ICRAF. Study on Emissions and Energy use efficiency of household biochar production during cooking in Embu, Kenya by ICRAF, International Institute for Tropical Agriculture (IITA) and SLU.
<http://urn.kb.se/resolve?urn=urn:nbn:se:uu:diva-225772>

- September 2010-April 2011. Courtney Gallaher PhD student from Michigan State University attached to the University of Nairobi. Study on Livelihoods, Food Security and Environmental Risk: Sack Gardening in Kibera Slums of Nairobi, Kenya.
- October-December 2011. Aya Yonemitsu, PhD student from University of Tsukuba and an Intern at ICRAF. Third study for comparison with study one and two on social-economic assessment of consumption of biomass energy (fuel briquettes) in Gatwekera and Kisumu Dogo, Kibera slums in Nairobi among 100 households in each village.
- September-November 2010, August 2011. Aya Yonemitsu, MSc. student from University of Tsukuba under the Japan-CGIAR Fellowship Program and an Intern at ICRAF. Studies on (i) social-economic assessment of consumption of biomass energy (fuel briquettes) in Gatwekera village, Kibera slums Nairobi among 199 households within a radius of 250 metres from production site, (ii) social-economic assessment of consumption of biomass energy (fuel briquettes) in Kisumu Dogo, Kibera slums in Nairobi among 200 households within 500-1000 metres from production site.

Fund raising and implementation of multi and trans disciplinary research and development projects

1. Gender-responsive innovations for soil rehabilitation, alternative fuel and agriculture for resilient refugee and host community settlements in East Africa. EUR 1,2 M, 2019-2022 funded by BMZ, GIZ. Led by IWMI and partners include ICRAF, CIAT, ADRA, Penn State University.
2. Woodfuel Component 6.3. Analysis of and development of policy options for improving woodfuel value chains and their impact on livelihoods. A component led by ICRAF in the Governing Multifunctional Landscapes in Sub-Saharan Africa: Managing Trade-Offs between Social and Ecological Impacts (GML). US\$600,000, 2018-2021 supported by European Commission's Directorate-General for International Cooperation and Development (DG DEVCO).
3. Scaling-up sustainable woodfuel cooking systems through Pwani, Lindi and Mtwara regions, Tanzania. Implemented by ICRAF, US\$220,492 funded by CTCN-UNEP, September 2017-November 2018. <https://www.ctc-n.org/technical-assistance/projects/scaling-sustainable-wood-fuel-charcoal-and-firewood-systems-pwani>
4. Gender, Energy and Climate Change Integrated Planning: Fuel briquettes for women empowerment at Kalobeyei refuge and host community settlements, Kenya. US\$ 41,440 supported November 2017-November 2018 funded by UN Habitat and Japan International Research Center for Agricultural Sciences (JIRCA). Led by ICRAF and partners include IWMI-Water Land and Ecosystems (WLE) program of the CGIAR, Penn State University.
5. Farm-level production of Biochar in Kenya-energy security, Biochar quality and climate change mitigation potential. US\$300,000 supported by Formas, Swedish Research Council, 2016-2018. Led by Royal Institute of Technology (KTH) Sweden and partners include ICRAF, SLU, LUND University, IITA.
6. Farm-level production of Biochar in Kenya –energy, farm management and climate change mitigation potential. US\$ 300,000 supported by VR, Swedish Research Council, Sweden, 2016-2018. Led by Royal Institute of Technology (KTH) Sweden and partners include ICRAF, SLU, LUND University, IITA.
7. Bio-char and smallholder farmers in Kenya - improved use efficiency of farm-level organic resources in relation to energy, crops and soil. US\$ 300,000 supported by Swedish Research Council, 2013-2016. Led by SLU, and partners include ICRAF, LUND University, IITA.
8. Empowering forest dependent communities through commercialization of small-scale forestry. Call for Improved Forest Management for Sustainable Livelihoods Programme Phase II. EURO 1.2 M funded by European Union, 2015-2017 led by ICRAF and partners include World Vision, Malawi.
9. Creating and capturing value: Supporting enterprises for urban liquid and solid wastes recycling for food, energy and clean environment (CapVal), Ghana. Supported by WASH Window-FDW, Dutch Government 2015-19. Led by IWMI and partners include ICRAF, RUAF and private sector.
10. Evaluating fuel briquette technologies using sawdust and charcoal dust from selected agroforestry tree species for environmental, social-economic and food security implications in Kenya. Funded by Borlaug LEAP 1st December 2011- 28th February 2013.
11. Turning environmental burdens into livelihood benefits: building a sustainable neighbourhood through waste recycling, agro-enterprise and a cohesive community in Kampala, Uganda. (Funded 2006-2009 by IDRC)
12. Enhancing Livelihoods of the Urban Youth through Recycling of Organic Waste for Energy Briquette making at Kahawa Soweto Informal Settlement, Nairobi (Feb2007-Feb2008 funded by IDRC)

13. Combating HIV/AIDS in urban communities through food and nutrition security: the role of women led micro-livestock enterprises and horticultural production in Nakuru Town, 2006-2009 supported by CIDA.
14. Organic Waste Recycling for Sustainable Energy Fuel Briquette Production and Healthy Environment, Nairobi City and Its Environs, Kenya. Funded by IDRC in September 2009-March 2011. Ecopolis Graduate Fellowship.
15. Publishing a book on Women Feeding Cities. Mainstreaming Gender in urban agriculture and development. Funded by IDRC April 2007-Dec 2008.
16. Gender mainstreaming in CIP's research process 2006-2007 supported by PR&GA of CGIAR. *I lead in the development of draft guidelines for gender responsive research in CIP.*
17. Assessment of benefits and risks in wastewater reuse for agriculture in urban and peri-urban areas of Nairobi 2006-2007 supported by IDRC
18. Understanding how to achieve impact-at-scale through nutrition-focused marketing of Traditional African Vegetables (TAVs) and Orange-Fleshed Sweet Potatoes (OFSP) (funded by KILIMO TRUST 2007-2010)
19. Viable market opportunities and investigative research on market threats for urban and peri-urban farmers 2005-2006 supported by IDRC
20. Kenya national land policy formulation process, 2004-2006. *Participated in the process, wrote a paper on urban agriculture and got urban agriculture and forestry incorporated in the policy.*
21. Local Participatory Research and Development on Urban Agriculture and Livestock Keeping in Nakuru, 2005-2006 supported by DFID. *Lead a process of drafting Nakuru municipal urban agriculture by-laws*
22. Community-Based Research and Development Centre on Urban Agriculture and Waste Management in Nakuru 2004-2005 supported by IDRC
23. Solid Waste Management and Urban Agriculture. MODULE 5. of the Anglophone Africa Regional Training Course on Urban Agriculture Held in Nairobi, Kenya 8 – 26 March 2004, NAIROBI. <http://etraining.cip.cgiar.org> supported by IDRC. *Participated in the module development and delivery*
24. Management of Organic Waste and Livestock Manure for Enhancing Agricultural Productivity in Urban and Peri-Urban Nairobi 2003-2004 supported by World Bank.

January 2010 to 2014: Short Term Assignments

- May-July 2014. **Position** Sustainable Clean Energy Associate. Lead and managed the development and delivery of wPOWER training module entitled sustainable clean energy entrepreneurship for the course entitled "Trainers Course on Sustainable Clean Energy and Entrepreneurship" at Wangari Maathai Institute for Peace and Environmental Studies, UoN. <http://wpower.uonbi.ac.ke/what-we-do/curriculum-development/>
- November 2013-April 2014. **Position:** Energy consultant. EU funded project "Sustainable Employment Creation and Improved Livelihoods for Vulnerable Urban Communities in Mogadishu (SECIL), by UN-Habitat in cooperation with Cooperazione E Sviluppo Onlus (CESVI) and Human Relief Foundation (HRF) with the specific purpose of "Improvement of livelihoods of vulnerable households in urban and peri-urban areas of Mogadishu". **Outputs:** Community based charcoal briquette enterprises implementation strategy, training manual adapted to local situations in Mogadishu, Training of Trainers (TOT) in Nairobi on theory and practical's for trainers to work in Mogadishu, backstopping community trainings in Mogadishu by the trained trainers and backstopping charcoal briquette production, marketing and utilization in Mogadishu.
- June 2013-February 2014. **Position:** Consultant. Resilient livelihoods in Eastern Africa drylands and biomass energy and World Agroforestry Centre (ICRAF).
- April 2012. **Position:** Fuel Briquette expert. Preparation and delivery of the fuel briquette as cooking fuel module at the Learning Exchange on Urban Agriculture: Freetown, Dar es salaam and Nairobi. Held in Nairobi 22nd April—3rd May 2012 and organized by Mazingira Institute in collaboration with Resource Centre on Urban Agriculture and Food Security (RUAF).
- February-April 2011. **Position:** Gender Analysis Consultant through Women Organizing for Change in Agriculture and NRM (WOCAN) in the Putting Nitrogen Fixation to Work for Small-holder Farmers in Africa (N2Africa) project. Project supported by Bill and Melinda Gates Foundation through Wageningen University, International Institute to Tropical Agriculture (IITA) and International Centre for Tropical Agriculture-Tropical Soil Biology and Fertility Institute (CIAT-TSBF) and implemented in eight countries in Sub-Saharan Africa.

May 2010-March 2011. **Position:** Project Co-coordinator and Researcher. Urban Agriculture: A Sustainable Solution to Alleviating Urban Poverty, Addressing the Food Crisis, and Adapting To Climate Change. Project funded by World Bank through Resource Centre in Urban Agriculture and Food Security (RUAF).

November 2009-February 2011. **Position:** Researcher. Measures to Reduce Food Safety Risks in Peri-Urban Leafy Vegetable Value Chains in Nairobi, Kenya. Project of University of Nairobi, Swedish University of Agricultural Sciences (SLU) and International Food Policy Research Institute (IFPRI)

November 2002 to December 2009: Urban Harvest of International Potato Centre, a system wide imitative on Urban and Peri Urban Agriculture of the Consultative Group on International Agricultural Research (CGIAR) www.cipotato.org/urbanharvest/

Position: Research Officer/Assistant Regional Coordinator, sub-Saharan Africa (SSA)

Responsibilities /TOR

- Deputizing for the SSA regional coordinator, liaising with partners and partnership establishment and development and linking research work and policy formulation processes
- Gender mainstreaming in International Potato Centre and Urban Harvest-CGIAR program organizational culture and research processes and collaborative research projects development, designing, fund raising and management
- Projects activity planning, implementation including development of gender sensitive data collection tools and carrying out field work, tracking of projects objectives, performance and impact assessment and report writing.
- Collaborative projects coordination involving working with government departments, NGOs, community based organizations, universities, international organizations.
- Provision of expertise in natural resource management including resource re-use and recycling.
- Development and implementation of Urban Harvest's "Nutrient Flow-Environment Conservation Model"
- Assist in the development and implementation of other Urban Harvest's Models i.e. Technology Transfer Model, Policy Development and Advocacy Model, Health and Nutrition Model, Marketing and Agro-enterprise Model'
- Dissemination of research findings through reports, posters, fliers, policy briefs, brochures and publications and capacity building through preparing and moderating training courses on urban agriculture and urban ecosystem health.
- Organization and facilitation of stakeholder meetings workshops and feedback sessions
- Management of a resource center (hard copy and soft copy)

June to September 2001 and September to November 2002: International Crop Research Institute in Semi Arid Tropics (ICRISAT)

Position: Local Consultant/Researcher:

Rural Livelihood, Food Security and Poverty Reduction Project of UNDP at Suba Districts, South Nyanza (June to September 2001) and Bomet District in Rift Valley Province (August to October 2002).

Responsibility

- Facilitating Participatory Rural Appraisals, data collection, analysis and report writing on: Production systems that included crop and livestock production and fishing as three major livelihood strategies
- Identification of natural resources, their importance to the community and existing natural resource based opportunities for poverty reduction, community wealth mapping and household sampling.
- Supervision on implementation of questionnaire by research assistants, data quality control and initial data analysis.
- *Conducted 9 PRA's and led the research team in field work, data analysis and report writing*

July 2000-May 2001 and October 2001 to August 2002 Semi-Arid Rural Development Program (SARDEP) of Netherlands Development Program (SNV)

Position: Consultant in Community Based Natural Resource Management (CBNRM), Participatory Land Use Planning and Organizational Development & Institutional Strengthening

Responsibility

- Community Based Natural Resources Management within Laikipia District: Working in a wide spectrum of ethnic groups under different socio, cultural and economic status. For instance pastoral communities within group ranches e.g. the Maasai, and Agro- pastoral communities like Kikuyu, Meru, Karinjini, Turkana
- Facilitating Participatory Land Use Planning (PLUP) using Participatory Rural Appraisal (PRA) approach while focusing on Community Based Natural Resource Management. (*Conducted 10 Community Based Natural Resource Management Participatory Rural Appraisals in Laikipia District*)
- Community Based Natural Resource Management projects development through participatory action planning using Logical Framework Approach (LFA) of the Projects Management Cycle (PMC). (*Facilitated development of 13 Community Resource Management Area Action Plans in Laikipia District*)
- Community Organizational Development and Institutional Strengthening (OD/IS) towards sustainable wise use of natural resources and community development.
 - a) Facilitate constitution and registration of community organizations like self-help groups (SHG), resource management committees, Ngo's, Companies, Trusts among others.
 - b) Developing training modules and conducting trainings for CBO's and Government Technical Staff towards sustainable wise use of natural resources
- Gender mainstreaming in community based natural resource management through awareness creation, incorporation of youth and women in local decision-making structures.
- Co-ordination and management of technical teams facilitating CBNRM activities.
- Appraising CBNRM proposals through desk and field studies, establishment of possible environmental impacts while offering realist mitigation measures.
- Technical backstopping of community based natural resource management project implementation.

Jan 1998 to December 1999: Natural Resources Monitoring Modelling and Management NRM³

Position: Research Assistant

Responsibilities

Data collection, data management which involved data entry, quality control, analysis and report writing

Research areas included:

- (i) Vegetation cover establishment in different farming systems e.g. Agroforestry in, pruned Vs non pruned plots and trees under different spacing, Mulching, Minimum tillage and Conventional or deep tillage.
- (ii) Crop yields under different farming systems. E.g. Agroforestry in pruned Vs non pruned and trees under different spacing, Mulching and Conventional or deep tillage

AWARDS AND RECOGNITION

- Award for top 20 published scientists at ICRAF between 2014-2016. Recognized during ICRAF's Science week 5-9 September 2016.
- Two blogs on woodfuel work selected among the top three articles on forests and ecology in 2017's International Day of Forests March 21 <https://news.globallandscapesforum.org/21601/roundup-for-international-day-of-forests/> Blogs (i) Threat or opportunity? Transforming the wood energy sector: <https://news.globallandscapesforum.org/18674/threat-opportunity-transforming-wood-energy-sector/> (ii) Trees for wood energy and land restoration: <https://news.globallandscapesforum.org/17773/trees-wood-energy-land-restoration/>

PUBLICATIONS

Journal Papers

1. Gitau, K., K, Mutune, J., Sundberg, C., Mendum, R., **Njenga, M** (2019). Implications on livelihoods and the environment of uptake of gasifier cook stoves among Kenya's rural households. *Appl. Sci.* 9, 1205 <https://www.mdpi.com/2076-3417/9/6/1205/pdf>
2. Njenga, M., Gitau, J., J., Iiyama, M., Jamnadassa, R., Mahmoud, Y., Karanja, N. (2019). Innovative biomass cooking approaches for sub-Saharan Africa. *Afr. J. Food Agric. Nutr. Dev.* 19(1):14066-14087. <http://ajfand.net/Volume19/No1/BLFB1031.pdf>
3. Mendum, R. and **Njenga M.**, (2018). Integrating woodfuels into agriculture and food security agendas and research in sub-Saharan Africa (SSA). *FACETS* 3, 1-11. <https://doi.org/10.1139/facets-2017-0032>
4. Iiyama, M., Neufeldt, H., **Njenga, M.**, Derero A., Mukuralinda, A., Dobie P., Jamnadass, R., (2017). Conceptual analysis: the charcoal-agriculture nexus to understand the socio-ecological contexts underlying varied sustainability outcome in African landscapes. *Front. Environ. Sci.* 14 June 2017 <https://doi.org/10.3389/fenvs.2017.00031>
5. **Njenga, M.**, Mahmoud, Y., Mendum, R., Iiyama, M., Jamnadass, R., Roing de Nowina, K., Sundberg, C., (2017), Quality of charcoal produced using micro gasification and how the new cook stove works in rural Kenya. *Environ Research Letters*, 12 (9). <http://iopscience.iop.org/article/10.1088/1748-9326/aa7499>
6. **Njenga, M.**, Iiyama, M., Jamndass, R., Helander, H. Larsson, L., de Leeuw, J., Neufeldt, H. Röing de Nowina K., Sundberg C. (2016). Gasifier as a cleaner cooking system in rural Kenya. *Journal of Cleaner Production*, Vol 121, 208-217. <https://dx.doi.org/10.1016/j.jclepro.2016.01.039>
7. **Mary Njenga** (2015) The bioenergy-environment-gender nexus: how simple innovations can drive change. *The Cornerstone, Journal of Sustainable Finance & Banking.* Vol 2 (2), 34-36. <http://cornerstonecapinc.com/2015/06/the-bioenergy-environment-gender-nexus-how-simple-innovations-can-drive-change/>
8. Paolo Cerutti, Phosiso Sola, Audrey Chenevoy, Miyuki Iiyama, Jummai Yila, Wen Zhou, Houria Djoudi, Richard Atyi, Denis Gautier, Davison Gumbo, Yannick Kuehl, Partice Levang, Robin Matthews, Robert Nasi, Henry Neufeldt, **Mary Njenga**, Gillian Petrokofsky, Matthew Saunders, Gill Shepherd, Denis Sonwa, Cecilia Sundberg Meine Noordwijk (2015). The socioeconomic and environmental impacts of wood energy value chains in sub-Saharan: a systematic protocol. *Africa Environmental Evidence* 4, 12
9. Gallaher, C. M., WinklerPrins, A. M.G.A, **Njenga, M.**, and Karanja, N.K. (2015). Creating Space: Sack gardening as a livelihood strategy in the Kibera slums of Nairobi, Kenya. *Journal of Agriculture, Food Systems and Community Development.* <http://dx.doi.org/10.5304/jafscd.2015.052.006>
10. Aya Yonemitsu, **Mary Njenga**, Miyuki Iiyama and Shusuke Matsushita (2015). "A Choice Experiment Study on Fuel Preference of Kibera Slum Households in Kenya. *International Journal of Environmental Science and Development*, Vol. 6, No. 3, pp196–200.
11. Aya Yonemitsu, **Mary Njenga**, Miyuki Iiyama and Shusuke Matsushita (2014). Household fuel consumption based on multiple fuel use strategies: A case study in Kibera slums'. *APCBEE Procedia* 10, 331-340.
12. Gallaher, C. and **Njenga, M.** (2014) Urban Agriculture. *Encyclopedia of Food and Agricultural Ethics*, 1775-1782.
13. **Njenga M**, Karanja, N, Karlsson, H, Jamnadass, R, Iiyama, M, Kithinji, J and Sundberg, C. (2014) Additional cooking fuel supply and reduced global warming potential from recycling charcoal dust into charcoal briquette in Kenya. *Journal of Cleaner Production.* 81, 81-88 <http://www.sciencedirect.com/science/article/pii/S0959652614005861>
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Communication through Media

1. **Mary Njenga** and Ruth Mendum book published in a blog by Amy Duke March 12, 2019 Book examines connection between gender and cooking energy in Sub-Saharan Africa
https://news.psu.edu/story/562867/2019/03/12/research/book-examines-connection-between-gender-and-cooking-energy-sub?utm_source=newswire&utm_medium=email&utm_term=563746_HTML&utm_content=03-18-2019-08-01&utm_campaign=agricultural%20sciences%20newswire
2. **Mary Njenga** and Ruth Mendum. 1st March 2019 a blog in the Green Growth Knowledge Platform on: Growing mounds of waste offer African women unexpected business opportunities in the bioenergy sector.
<http://www.greengrowthknowledge.org/blog/growing-mounds-waste-offer-african-women-unexpected-business-opportunities-bioenergy-sector>
3. **Mary Njenga** talk on woodfuel at the scaling up youth action to restore Africa's degraded land part of the Global Landscape Forum 2018, UN Environment Nairobi.
<http://blog.worldagroforestry.org/index.php/2018/09/05/beyond-selfies-african-youth-vow-to-restore-the-continents-landscapes/>
4. **Mary Njenga** key note speech on sustainable charcoal at the Charcoal Policy Conference held in Gulu, Uganda on 18th July 2018 published in the New Vision, Uganda Leading Daily newspaper 20th July 2018.
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5. **Mary Njenga** and others work published in Landscape News, 25 July 2018. Innovative biochar-producing gasifier stoves improve livelihoods, landscapes <https://news.globallandscapesforum.org/28488/innovative-biochar-producing-gasifier-stoves-improve-livelihoods-landscapes/>
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9. **Mary Njenga** and Sabrina Chesterman (November, 2017). A blog on SHARED knowledge to promote sustainable woodfuel. <http://blog.worldagroforestry.org/index.php/2017/12/08/shared-knowledge-to-promote-sustainable-woodfuel/>
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11. **Mary Njenga** 2015. Step by step construction of a dual purpose improved earth cook stove in Nyahururu, Kenya. <https://www.youtube.com/watch?v=oz2SUqstheQ>
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39. **Mary Njenga** featured in the CNBC-Africa TV at 11:00 am & 6.30pm on 15 and 16 August 2009 as one of the African Women in Agricultural Research and Development (AWARD) fellow. AWARD is a fellowship program to fast-track the careers of African women scientists, implemented by the CGIAR Gender & Diversity Program. <http://www.youtube.com/user/GenderDiversityAWARD#play/uploads/1/w0Q2ZEA42zM>

Posters

1. James Kinyua Gitau, **Mary Njenga**, Jane Mutune, Cecilia Sundberg (2017). Introducing biochar-producing gasifier cookstoves in a rural community. Presented at the Agri4D - 2017 - Rural Transformation and Urbanization 20-21 September, 2017, Uppsala Sweden. Book of Abstract pp 15. https://www.siani.se/wp-content/uploads/2017/10/agri4d_abstract_170915_final.pdf
2. ***Mary Njenga**, Jane Mutune and Ruth Mendum (2016). Developing cleaner and affordable cooking energy innovation with women and youth in urban informal settlements in Kenya and Uganda. Presented at the ICSU-NASAC-ISSC training on trans-disciplinary research (TDR): 3-7 October 2016 in Nairobi, Kenya
3. Adenike Adejumo, Aliou Faye, Mattias Gustafsson, Nancy Karanja, Yahia Mahmoud, Fausto Marcigot, Moses Mensah, **Mary Njenga**, Gert Nyberg, Kristina Röing de Nowina, Reena Shah, Cecilia Sundberg, Edward Yeboah (2015). SIANI African Biochar Expert Group. Connecting and spreading science-based knowledge on biochar in Africa. Presented at the Biochar Symposium in Potsdam Germany May 2015.
4. Cecilia Sundberg, Geoffrey Kimutai, Dries Roobroeck, Yahia Mahmoud, **Mary Njenga**, Gert Nyberg, Thomas Kätterer, Erik Karlton, Kristina Roing de Nowina, (2015). Biochar as an Opportunity For Climate-Smart Agriculture in Small-Holder Farming Systems in Kenya. Presented at the Climate Smart Agriculture conference in Montpellier in May 2015.
5. ***Njenga, M.**, Iiyama, M., Yila, J., Dobbi, P., Kowero, G., Yemshaw, Y., Yila, O and Moraa, V. Gender and woodbased bioenergy. Presented at the ICRAF science week held at ICRAF campus Nairobi 8-12th September 2014.
6. ***Mary Njenga**, Nancy Karanja, Miyuki Iiyama and Ramni Jamnadass (May 2014) Cooking-fuel briquettes for sustainable communities in Kenya Health, wealth, nutrition and environmental gains from recycling waste charcoal and biomass. Presented at the Feed the Future Global Forum in Washington DC 19-21 May 2014.
7. ***Njenga, M.**, Karanja, N., Iiyama, M., De Leeuw, J., Sundberg, C., Neufeldt, H., Kristjanson, P., Mowo J. and Jamnadass R. Multiple benefits of charcoal briquettes as an option for building tree based livelihoods in Kenya (2014). Presented at the World Congress on Agroforestry. Held at New Delhi, 10-14 February 2014.
8. Iiyama, M, Neufeldt, H., Dobie, P., van Noordwijk, M., **Njenga, M.**, Ndegwa, G., de Leeuw, J., Mowo, J. and Jamnadass, R. (2014). Charcoal as a driver of dryland forest degradation and suggestions on how to make it sustainable in Africa? Presented at the World Congress on Agroforestry. Held at New Delhi, 10-14 February 2014.
9. Aya Yonemitsu, **Mary Njenga**, Miyuki Iiyama and Shusuke Matsushita (2012). Energy Consumption among the Urban Poor Households in Kenya: Case of Charcoal Briquettes in Kibera slums. 2012 Annual Meeting of the Agricultural Economics Society of Japan, Fukuoka, March 29-30, 2012.
10. Mbugua S, Andersen NA, Cole DC, Webb AL, Sellen D, **Njenga M**, Prain G, Karanja N, Tuitoek PJ, Yeudall F.(2009) Food and Nutrition Security Of HIV Affected Households In Nakuru, Kenya. Poster presented by Yeudall F at the International Congress of Nutrition, Thailand October 2009
11. ***Njenga, M.M.** Karanja, N., Prain G., Malii J., Gathuru K and Mwasi B. (2009). Recycling Urban Waste for Cooking Energy: Community Based Briquette Production by Soweto Youth in Action Group (SOYIA), Nairobi. Poster presented at the Urban Solutions for Health and Climate Change Session of the International Conference on Urban Health held in Nairobi, Kenya. 18-23rd October 2009.
12. ***Mary Njenga**, Nancy Karanja, Beatrice Mwasi, Gordon Prain Kuria Gathuru and John Malii (2009) Community Based Urban Waste Recycling for Production of Energy Fuel Briquettes in Nairobi, Kenya: An Urban Poverty and Environment Initiative. Poster presented at The Urban Futures: The Challenge of Sustainability. The Alliance for Global Sustainability AGS Annual Meeting Held 26-29 January 2009 at Swiss Federal Institute of Technology ETH Zurich. <http://www.cces.ethz.ch/agsam2009/>
13. N. Andersen, S. Mbugua, D. Sellen, D. Cole, N. Karanja, F. Yeudall, G. Prain, **M. Njenga** (2008) Application of the Sustainable Livelihoods Framework to Assess Households in Nakuru, Kenya. Poster presented at the XVII International AIDS Conference, 3 – 8 Mexico City. Poster Abstract MOPE878. www.aids2008.org.
14. Giovanna Muller and ***Mary Njenga** (June 2007) Gender and Diversity, Goals, Achievements and Challenges in CIP. Poster presented at the Gender and Diversity Associated Annual meeting at ICRISAT, Hyderabad
15. ***Njenga, M.**, Karanja, N. Ngugi, J., Kang'ethe, E., Gathuru, K. and G. Prain (May 2007) Mainstreaming Gender Analysis in the Research Process of the International Potato Centre (CIP). Presented at the project feedback workshop on March 1st and 2nd 2007, ILRI campus, Nairobi.

16. Karanja Nancy, **Njenga Mary**, Munyao Patrick, Kagure Priscilla, Rwamba Catherine, Muneri Caroline and Githongo Miriam (May 2007) Assessment of Benefits and Risks in Wastewater Reuse for Agriculture in Urban and Peri-Urban Areas of Nairobi, Kenya. Poster presented at project feedback workshop held in Nairobi on 28th April 2008.
17. ***Njenga, M.**, Karanja, N., Gathuru, K. and Kang'ethe E. (January 2007). Local Participatory Research and Development on Urban Agriculture and Livestock Keeping. Presented at project feedback workshop at Nakuru, Kenya on 26th January 07
18. **Njenga Mary**, Gathuru Kuria, Karanja Nancy, Romney Dannie and Lee-Smith Diana (September 2004) What happens to organic waste in Nairobi ?
19. **Njenga Mary**, Kimani Stephen, Karanja Nancy and Romney Dannie (May 2004) Nutrient Recovery from Solid Waste and Linkages to Urban and Peri Urban Agriculture in Nairobi, Kenya
20. Gathuru Kuria, **Njenga Mary**, Karanja Nancy and Githee Elijah (2003) Urban Agriculture Research and Development Centre

Published Project and Workshop Reports

1. **Mary Njenga** and Jeannette Gurung (April, 2011) Integrating Gender in Putting Nitrogen to Work for Smallholder Farmers in Africa (N2africa). A project supported by Bill and Melinda Gates Foundation through Wageningen University, IITA and CIAT. <https://agriknowledge.org/downloads/kd17cs91k>
2. **Mary Njenga**. A brief on the Workshop organized by the Systemwide PRGA entitled "Repositioning Gender Responsive Participatory Research (GRPR) in Times of Change" was held June 16-18, 2010 at the International Centre for Tropical Agriculture (CIAT) in Cali, Colombia. <http://www.prgaprogram.org/rptc/>
3. **Mary Njenga**. A brief on experiences in the Beahrs Environmental Leadership Program (ELP) 26 June-18 July 2009, College of Natural Resources, Center for Sustainable Resource Development, University of California, Berkeley, USA. http://fellowsupdate.wordpress.com/2009/09/08/mary_njenga_elp/
4. **Njenga, M**, Kang'ethe, E., Karanja, N., Kabiru, C., Munyao, P., Kironchi, Gathuru, K. and Prain, G. in collaboration with Githuku, C., Kanyari, P., Muneri, C., Githongo, M., Githigia, J., Gildemacher, P and Kinyae, P (2007) Mainstreaming Gender Analysis in the Research Process in International Potato Centre (CIP). Project Report supported by PRGA <http://www.prgaprogram.org/Newsletter/Newletter%202007/June/Newsletter%20issue22.htm>:
5. ILRI (2006) Process and Partnership for Pro-poor Policy Change. Learning Lessons from the Kampala Urban Agriculture Policy Process. Held in January 31st 2006 at Hotel Eguitoria, Kampala. Workshop report. <http://www.pppppc.org/content/files/documents/Kampala%20workshop%20report%20final%2028-03-06.pdf>
6. **Njenga M.**, Gathuru K. and Karanja N. Analysis of Gender Roles in Resource Recovery for Urban and Peri-Urban Agriculture in Nairobi. In: Gender Mainstreaming in Urban Food Production and Food Security' Proceedings Report of workshop held 20-24 September 2004 Accra Ghana. <http://www.cipotato.org/urbanharvest/documents/pdf/women-feeding-cities.pdf>

PROFESSIONAL MEMBERSHIP

- Member of the Board of Directors 2015-current, Women Organizing for Change in Agriculture and Natural Resource Management (WOCAN)
- Associate Bioenergy Research Scientist 2016-current with Gender Agriculture, Energy and Environment Initiative (GAEEI) or Gender+ of Penn State University, USA.
- Kijabe Environmental Volunteers (KENVO) 1996-current. A young people's conservation organization
- Biochar Africa
- Editorial Committee. Miti. The Tree Business Magazine for Africa. www.betterglobeforestry.com/miti-magazine
- African Women in Agricultural Research and Development (AWARD) Alumni. www.awardfellowships.org/
- Beahrs Environmental Leadership Program Alumni, an E-network managed by University of California, Berkeley, USA. elpalumni@lists.berkeley.edu
- Food-for-cities. An e-network managed by FAO. Food-for-cities@dgroups.org

- Gender and Diversity Associates Committee of International Potato Centre which looks into issues of dignity, inclusion, opportunity, well-being, gender analysis and mainstreaming 2004-2009.
- Registered with National Environmental Management Agency as an Environmental Impact Assessment Lead expert. Conducts EIA's and Environmental Audits.

SPORTS AND HOBBIES

- Starring edutainment movies, public speaking and giving motivational talks. Gives a talk at Kambaa Girls High school, Kereita Primary school and Kambaa primary school in my village every year.
- Driving motor vehicle, swimming, jogging, dancing, nature walks and professional international travel- USA (14 times), Scotland UK, Colombia (twice), Cambodia, India (twice), Indonesia, South Korea, Italy (twice), Netherlands, Switzerland, France (thrice), Germany, Portugal, Sweden (four times), Algeria, South Africa (twice), Mozambique, Zimbabwe, Zambia, Ghana (five), Cameroon, Nigeria, Uganda (eight times), Tanzania (eight times), Burundi, Rwanda, Malawi (twice), Ethiopia.
- Reading and writing on energy-people-environment, reading self-educating and motivational books
- Spending quiet time alone.

REFEREES

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