

CURRICULUM VITAE

DR. CATHERINE NKIROTE KUNYANGA, BSc.
(Hons) (UoN), MSc (UoN), PhD (UoN)

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I. PERSONAL PROFILE:

Name:	Dr. Catherine Nkirote Kunyanga
Nationality:	Kenyan
Place of birth:	Nairobi County, Kenya
Gender:	Female
Religion:	Christian
Language:	English and Swahili
	Twitter: @DrKathyKunyanga
	Linkedin: DrCatherineKunyanga
	Facebook: Catherine Kunyanga
	Google Scholar - https://scholar.google.com/citations?hl=en&user=G436DPcAAAAJ&view_op=list_works&sortby=pubdate
	Uon Profile Website - https://profiles.uonbi.ac.ke/ckunyanga/

EDUCATION HISTORY

- 2009-2011: Doctor of Philosophy (PhD),
Food Science and Technology,
University of Nairobi/University of Hohenheim
- 2003-2006: Master of Science (M.Sc.),
Food Science and Technology,
University of Nairobi
Distinction
- 1998-2002: BSc. Food Science and Technology,
University of Nairobi
First Class Honors
- 1993-1996: Kenya Certificate of Secondary Education (KCSE)
Grade A-
- 1984-1992: Kenya Certificate of Primary Education (KCPE)

ACADEMIC /PROFESSIONAL POSITIONS HELD

- 2018 February - to date: Senior Lecturer
Main job responsibilities include:
Teaching, Research and Administration.
- 2011 February- 2018: Lecturer, Department of Food Science, Nutrition and
Technology, Faculty of Agriculture, University of Nairobi
- 2010 Feb-2011 Feb: Tutorial Fellow, Department of Food Science, Nutrition and
Technology, Faculty of Agriculture, University of Nairobi
- 2008 Oct. -2010 Feb: Part-time Lecturer, Department of Food Science, Nutrition
and Technology, Faculty of Agriculture, University of
Nairobi
- 2006 Oct.-2008 Feb: Technical Nutrition Manager
Bell Industries Limited
- 2005 March-2006 June: Research Assistant, Food Research Office, University
of Nairobi
- 2004 Aug-2004 Dec: Research Assistant - Sorghum & Millets Food and Feed 1
Systems Network (SORMIFFS), University of Nairobi
- 2003 June-2003 October: Research Assistant, Population Services International (PSI).
- 2003 Feb-2003 May: Quality Control technician, Unga Group Limited.

POSITIONS OF RESPONSIBILITY HELD

- Coordinator for University of Nairobi in the Food Security Centre (FSC) and the University of Hohenheim, Germany sponsored by DAAD through the Federal Ministry of Economic Cooperation and Development (BMZ).
- Senator, Faculty of Agriculture Representative, University of Nairobi (2012 - 2021).
- Head of Section, Food Chemistry, Department of Food Science, Nutrition and Technology, University of Nairobi, 2014 - to date.
- Coordinator, Industrial projects, BSc. Food Science and Technology programme, University of Nairobi.
- Acting Chair, Department of Food Science, Nutrition and Technology, February to April, 2016.
- Senate Student Mentorship Committee, University of Nairobi
- Senate committee and representative, curriculum and quality assurance, CAVs, UoN, 2020-2021.
- Senate Committee Member, Communication, branding and Marketing Strategy, UoN, 2021.
- Senate Committee Member, Review of UoN Strategic plan, 2021.
- CAVS UoN@50 celebration sub-committee member representing FOA, 2021.
- College Committee Member on National Values and National Cohesion: Capacity building on corruption prevention, ethics and integrity, CAVs, UoN.
- College Committee Member for UoN Strategic Plan implementation, 2020.
- Committee member, College Plagiarism Committee, CAVS, 2018 - to date.
- Faculty of Agriculture Postgraduate Studies Committee member, Department of Food Science, Nutrition & Technology Representative (2013-2021).
- Member, organizing Committee AGRO Conference 2018 - 2021, Faculty of Agriculture, UoN.
- Member Faculty Sub-committee on Undergraduate Studies Admission
- Member, Steering Committee of the Africa Life Science Knowledge (ALSK) Hub.
- Committee member, Alumni Affairs and Professional Development Faculty of Agriculture, University of Nairobi, 2021.
- Chairman, Welfare, Faculty of Agriculture, University of Nairobi, 2021.
- Patron, Mentorship of Professional Organizations in the Faculty of Agriculture, Mentor and Chair of AFOSTEC, DFSNT.
- Faculty Committee member, Curriculum and Strategic Planning, Faculty of Agriculture
- College Committee member, College committee for the Nairobi Innovation Week, College of Agriculture and Veterinary Sciences, 2015-2016.
- College Committee member, College Plagiarism Committee, CAVS.
- Appointed as College National Values Champion, CAVS, 2016
- Hon. Secretary and Deputy Secretary, Faculty Club House, University of Nairobi, 2016 - 2018
- Deputy Secretary, Faculty Club House, University of Nairobi (2011-2012)

- External examiner for Jomo Kenyatta University of Agriculture and Technology for PhD and MSc thesis examination and Board of Postgraduate Studies.
- Examiner, Food Science & Nutrition Programme, Department of Food Science and Nutrition, Karatina University
- External examiner, Ph.D. theses, University of the West Indies, St. Augustine, Trinidad and Tobago, West Indies
- External Academic Programme Peer Reviewer for South Eastern Kenya University (SEKU), 2021.
- Technical committee Member KEBS/TC 026 KS 5992/2008 KS 7304/2008 and KS 111056/1999 - Sensory Analysis Technical Committee 2021.
- Technical committee Member KEBS/TC 618: 2020, KS 618 and KS 2150 - Alcoholic Beverages Technical Committee 2020.
- Technical committee Member KEBS/TC 020-Food Labelling Technical Committee 2019 - 2021.
- Technical committee member for Kenya Bureau of Standards (KEBS) in development of standards for processed cereals, pulses & legumes, meat and & meat products, soy textured products.
- Instructor in Experiential Field Training Program on Sustainable Land Use Management with Wangari Mathai Institute in Collaboration with the University of Copenhagen.
- Chair and Vice-Chair of Board of Management in two high schools in Meru County for mentorship of young girls.
- Chairman, Ray of Hope Kenya (ROHK), for social outreach in the community.
- Industrial Attachment at Brookside Dairies Limited. (08/2001-10/2001).
- Polling clerk with The Electoral Commission of Kenya. (05/1997-12/1997).
- Captain of University of Nairobi's women soccer team (1998-2002).
- Laboratory Captain Nkuene Girls High School (1994-1996).

MEMBERSHIP IN PROFESSIONAL SOCIETIES

- Institute of Food Technologists (IFT), USA.
- American Society for Microbiology, USA
- Kenya Institute of Food Science and Technology (KIFST)
- Kenya Society of Microbiologists (KSM), Kenya.
- Tiana Professional and Business Forum Association, Kenya.
- Association of Food Scientists and Technologists, Kenya.
- African Women for Biosciences Forum (AWfB)

PROFESSIONAL AWARDS AND SCHOLARSHIPS.

2021: Fellowship and Scholarship award by Baden-Württemberg Ministry of Science, Research and Arts Call "Science Cooperation Africa 2021/2022" for a research stay at University of Hohenheim in Summer 2022.

2015: Australia Awards Fellowship

2009: DAAD Scholarship (PhD research in Germany - University of Hohenheim, Stuttgart, Germany).

2008: DAAD Scholarship (PhD studies- University of Nairobi)

2003: University of Nairobi Scholarship for Master of Science Degree.

1996: Best overall student, Nkuene Girls High School.

1995: Best overall Students Congress in Science and Technology.

PROFESSIONAL SKILLS, COMPETENCES AND TRAINING EXPERIENCE.

- Certificate “Antimicrobial Resistance in the COVID-19 pandemic and post-pandemic period” World Society for Pediatric Infectious Diseases, WSPID Workshop, 8th July, 2021.
- COLEACP E-meeting SPS with NPPO’s from ACP countries - 19 January 2021, from 2 pm until 3:30 pm (UTC), “Use of the European system TRACES NT (Trade Control and Expert System New Technology) in ACP countries - main implications and challenges”, 2021.
- Certificate ‘Hygiene and Food Safety Advanced Level Training’, COLEACP E-Learning Platform, 2021.
- Certificate “Moving from face to face to digital training” and development of training material for “NPPO organization of official controls” under the Moodle platform by COLEACP from October to December, 2020.
- Training expert of ACP countries on NPPO Organization of Official Control (Reference 201173-CC-CATHY SFC) on “Animation of a digital training module on (FTh_OOC) under the general framework COLEACP’ Fit For Market Programme and FFM program.
- Trained expert on Food Safety Quality Management and Organization of Official Control as an expert trainer of COLEACP, trained on in the training and animation techniques of COLEACP (Training of Trainers), and in the transposition of training to online training, including the development of online training materials. Highly Proficient in Module and E-learning animation of training.
- Coordinator and organizer of the “FSC Regional Hybrid Workshop” on “*The Responsible Governance of Innovations for Food Security*” under the Food Security Center, University of Nairobi, in collaboration with the Department of Politics and International Studies, University of Warwick on 25 and 26 March 2021 at CHAK Conference Centre in Nairobi, Kenya.
- Organizing committee, Uon@50 Webinar (Celebrating 50 Years of Academic Excellence), “The Impact of Covid-19 on Food Systems and Effects on Food and Nutrition Security. What Are the Opportunities During and Post the Pandemic?” with Hon Prof. Hamadi, Prof. Umezuruike Linus Opara, Dr. Nicholas Ozor and Prof. Gabriel Okafor on 7th October 2020.
- Trainer and instructor of workshop on Pedagogy, Andragogy and mentorship training programme for Centre for Pedagogy and Andragogy (CEPA) May -June,

2019 targeting lecturers from the CBPS, CAVS, CHS, CHSS, CAE, ODEL and CEES, University of Nairobi

- Trainer and instructor of workshop on Pedagogy, Andragogy and mentorship training programme for Centre for Pedagogy and Andragogy (CEPA) on 15th - 17th January, 2019 targeting lecturers from the College of Architecture and Engineering (CAE), University of Nairobi
- Trainer and instructor of workshop on Curriculum Development/Review and Constructive Alignment for Centre for Pedagogy and Andragogy (CEPA) on 31st October- 2nd November 2018 targeting lecturers from the College of Humanities and Social Sciences, University of Nairobi
- Organizer and coordinator of short course training on “Role of Technology, Policy Advocacy and Extension in addressing Food security” held on 10-12th October 2018 at the 844 building in the College of Agriculture and Veterinary Sciences, University of Nairobi.
- Organized the “Meat Festival Extravaganza”: Reducing Losses And Adding Value (Reload) under “Reduction of Postharvest Losses and Value Addition in East African Food Value Chains” project sponsored by the Federal Ministry of Education and Research (BMBF) in Germany.
- Organizer and coordinator of Regional Workshop for Food and Nutrition Security on “Youth and Innovation Summit: Sustainable Solutions towards ZERO Hunger in Africa” held on 25th-26th October, 2018 at the University of Nairobi in conjunction with the Food Security Center (FSC) of the University of Hohenheim in Germany and EXCEED (“Higher Education Excellence in Development Cooperation”), sponsored by DAAD.
- Organizer of food fortification workshop on “The Future of Food Fortification” held on 29th May, 2018 in the College of Agriculture and Veterinary Sciences, between University of Nairobi and industry/government stakeholders in food fortification and Texas University A&M, USA.
- Instructor, Livestock theme of postgraduate students from Copenhagen University and University of Nairobi during the Experiential Field Training Program on Sustainable Land Use Management (SLUSE), 2018 and the Wangari Maathai Institute For Peace and Environmental Studies, March, 2018 in Othaya Nyeri County.
- Visiting Lecturer, University of Abomey-Calavi in Benin under the Food Security Center (FSC), University of Hohenheim sponsored by DAAD Module 3 (November, 20 - 25, 2017): Food & Nutrition security: Assessment of nutrition status and disease-related malnutrition; chronic, transitory and cyclical, acute and temporary food insecurity; nutrition gaps, Global Hunger Index, Hidden Hunger Index, dietary diversity index, Omega-3; prospects and tools for eradication.
- Local organizing committee member and Chairman of the Postharvest Technologies and Innovations Challenge appreciation in the All-Africa Postharvest Congress and Exhibition “Reducing postharvest losses: Sustainable Solutions for Africa”, held annually in Africa.
- Lecturer Didactic Training Workshops under PREPARE BSC project and CEPA.

- Facilitator and trainer for Internal Dissemination Workshop for PREPARE-BSC Project “Sharing Results, Experiences, Lessons Learnt and Achievements” and CEPA held on 13 April, 2017, at central catering unit (CCU), University of Nairobi under PREPARE-BSC project funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II).
- Trained on technical evaluation in the context of the Public Procurement and Asset Disposal ACT, 2015 held on Monday April 10, 2017 at the Central Catering Unit (CCU) Hall.
- Supervisor and trainer in Implementation of Sustainable Land Use and Natural Resource Management (SLUSE) and Interdisciplinary Land Use and Natural Resource Management (ILUNRM) under the Wangari Maathai Institute for Peace and Environmental Studies, March, 2017 in Kibugu Location, Embu County
- Trained on “Sensitization Training for Technical Evaluation Committees in the context of Public Procurement and Asset Disposal Act, 2015” held on 10th April, 2017 at Central catering Unit (CCU), University of Nairobi.
- Trained on “ICT in Research Grants Management Information Systems (RGMIS) for University of Nairobi” on 2nd May 2017, CAVs
- Training on Staff capacity building aimed at improving student retention and student qualification with course in ‘Lecturer didactics’; ‘Experiential learning method’; and ‘Problem based learning’ with course weight of 7.5 ECTS under the PREPARE-BSC project funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II).
- Training course on “Commercialization of research and innovations” during the Nairobi Innovation Week held on 1-2 August 2016 at Nairobi Safari Club (Lilian Towers).
- Trainer/facilitator in Pedagogy Training Workshop under the Centre for Pedagogy and Andragogy (CEPA) and PREPARE-BSC project funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II) on 2nd - 4th February, 2016 in CCU, University of Nairobi
- Facilitator and coordinator of short course programme on “Economic Modelling for Food Security Analysis” held on 14th-18th December 2015, at 844 building, Department of Agricultural Economics, University of Nairobi sponsored by DAAD.
- Trainer in “Aflatoxin in Food and Feeds Sampling and Proficiency Testing in Kenya” for CHROMAFRICA LLC/LGC-UK, 7TH - 11TH December, 2015.
- Trainer/facilitator in Lecturer Didactic Training Workshop under the PREPARE-BSC project funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II) on 24th - 25th September, 2015 in College of Agriculture and Veterinary Sciences, University of Nairobi
- Training of Trainers in pedagogy and didactics under the PREPARE-BSC project, workshop meeting in Sokoine University, Tanzania, June 21-27, 2015
- Australia Awards Fellowship on “Improving Agricultural productivity through Increasing the Impact of Agricultural Research in Africa” at The University of Sydney on 27th April to 28th May, 2015.
- Summer School DAAD Alumni on Special project “Agritechnica 2013” Agricultural Engineering for Food Security and Resources Conservation by DAAD

and Universität Hohenheim, Institute of Agricultural Engineering Tropics and Subtropics Group held on November 04-15, 2013.

- Training of Trainers (TOT) on “Risk Communication”. Arusha, Tanzania, August 26th to 30th, 2013. Safe Food in ACP ‘Des Aliments Sûrs en ACP’ Program funded by the EU, UN programme Finance Parl’ue (EDES).
- Training of Trainers (TOT) on “Organization of Official Controls in the Food Safety System, Implementation of Official Controls and the Organization and Methodology of Risk Assessment”. Brussels, Belgium, April 15th to 26th, 2013. Safe Food in ACP ‘Des Aliments Sûrs en ACP’ Program funded by the EU, UN programme Finance Parl’ue (EDES).
- Safe Food in ACP ‘Des Aliments Sûrs en ACP’ Program funded by the EU, UN programme Finance Parl’ue (EDES) - Training on Risk Communication in Nairobi, Kenya, November 26th to 30th 2012.
- Safe Food in ACP ‘Des Aliments Sûrs en ACP’ Program funded by the EU, UN programme Finance Parl’ue (EDES) - Training on Organization and Methodology of Health Risk Assessment in Nairobi, Kenya, November 19th to 23rd 2012.
- Safe Food in ACP ‘Des Aliments Sûrs en ACP’ Program funded by the EU, UN programme Finance Parl’ue (EDES) - Training on Execution of Official Controls in Nairobi, Kenya, October 1st to 5th, 2012.
- Program on Sampling and Analysis Methods used in the context of Official Food and Feed Controls - Training on Microbiology Food Testing in Madrid, Spain, 18 - 29 June 2012.
- Program on “Applied Solar Technology in Developing Countries” held in Witzenhausen, Germany on 4th - 15th June 2012 organized by the University of Kassel and the German Institute for Tropical and Subtropical Agriculture (DITSL), Germany under the German Academic Exchange Service.
- PhD supervision training workshop by PREPARE-PhD Project under an EU-funded project entitled “Promoting Excellence in Ph.D. Research Programmes in East Africa” held on 13th July, 2011 in the University of Nairobi.
- Partner Alliance and Grants management training under the Kenya Horticulture Competitiveness Project (KHCP) funded by USAID (6TH - 7TH October, 2011 at Methodist Guest House).

COLLABORATIVE RESEARCH PROJECTS AND ASSIGNMENTS

- Coordinator, Food Security Center, UoN, “Capacity building in food and nutrition security in SAGEARP (ACCPAC)” under Food Security Centre (FSC), University of Hohenheim, funded by DAAD in the University of Hohenheim, Germany, 2010 to date.
- Co-PI, UoN, 2021. “African Center of Excellence in Sustainable Operations for Resource Management and Food Supply Project”. The Center of Excellence (CoE) in collaboration with UoN (Faculty of Agriculture and School of Business), University of Dar Es Salaam Business School (UDBS), Kuehne Logistics University

- (KLU) and Kuehne Foundation (KF) funded by the German Academic Exchange Services (DAAD).
- PI, UoN, 2021. “Strengthening Urban REsilience in FOOD and nutrition security in Kenya (SURE FOOD)”, funded by the German Ministry of Education and Research (BMBF) in collaboration with Egerton University, ATPS and Universität Hohenheim from June 1, 2021 until May 31, 2024, (Funding number: 01DG21024).
 - PI, 2020. “Safety of produce and informally processed foods consumed by infants and young children in Nairobi and Makueni” project by International Food Policy Research Institute (IFPRI) in collaboration with UoN and University of Iowa, funded by Consultative Group for International Agricultural Research (CGIAR) Research Platform on Agriculture for Nutrition and Health (A4NH), Research Agreement (203004.003.311-515-01-01) Contract No. 2020x170.Uon
 - PI, UoN, 2020. KENUJGE Covid19 “African Behavioral Responses Against COVID-19 (ABRA-COVID-19)” in collaboration with University of Hohenheim and University of Tübingen, Initial funding (seed grant) for joint projects on Africa by the Universities of Hohenheim and Tübingen.
 - PI, UoN, 2020. “Chakula Salama: a risk-based approach to reducing foodborne disease and increasing production of safe foods in Kenya” in collaboration Ohio State University and KEMRI under Feed the Future Innovation Lab for Food Safety (FSIL), a collaborative funding opportunity by the United States Agency for International Development (USAID) under Cooperative Agreement Award No. 7200AA19LE00003 implemented by Purdue University (lead institution) and Cornell University.
 - Co-investigator, UoN 2020. “Earth observation and environmental sensing for climate-smart sustainable agropastoral ecosystem transformation in East Africa - ESSA” under Climate-relevant Development-Smart Innovation through Research in Agriculture to be funded under the 2019 (or 2020) Global Public Goods and Challenges Programme, 2021.
 - Co-PI, “Improving Farm Profitability and Household Incomes of Mango Farmers in Kenya with Silicon” project under the Research England Global Challenges Research Fund In collaboration with Cambridge University, UK, award reference, G108162/A21232; GCRF QR Funding 2020-21.
 - PI, UoN, “Technological Risks in Development: Food Security, Super-Wicked Problems, and the Decolonization of Technological Governance”. Knowledge Frontiers: International Interdisciplinary Research 2020 (Grant reference - KF400226-63880) in collaboration with University of Warwick, UK.
 - PI, UoN and Lead Party, 65214, Ethics: technological risk governance and food security, Research award from the “Institute for Global Sustainable Development (IGSD)” (Higher Education Funding Council for England), in collaboration with Warwick University UK, Grant reference: AH/T007982/1, 2020.
 - Co-PI, “Synergistic Climate-Smart Technologies, Innovations and Management Practices for Sustainable Greenhouse Tomato Production in Kenya”, KCSAP CGS/CRGs-AD 2019/CSC/01-8/ Tomato, KCSAP Collaborative Research Grants.

- Co-investigator, “Validation and promotion of integrated climate-smart green gram technologies for improved livelihoods in Kenya” KCSAP CGS/CRGs-AD 2019/CSC/01: CLIMATE SMART CROPS, KCSAP Collaborative Research Grants.
- Co-PI, “Mango Value Addition: An Opportunity to Improve Household Incomes for Small Scale Mango Farmers in Kenya” project under the Research England Global Challenges Research Fund, in collaboration with Cambridge University award reference G102642/A18879, 2019.
- Co-PI, Rockefeller Foundation Project: Strengthening African Food Processors (SAP) to Reduce Food Losses in collaboration with University of Nairobi and Purdue University, USA, 201841000438-029; [Grant 41000438]. Design and installation of solar dryers for mango processing in Kenya.
- Co-investigator, “Harnessing the genetic resources of Sorghum (*Sorghum bicolor* L) in Kenya to improve drought tolerance and Striga resistance of farmer preferred cultivars for climate change adaptation by utilizing innovative genomic, value chain and participatory approaches” National Research Fund (NRF) Multidisciplinary Research Grant, 2016-2017.
- Lead Investigator and service provider for delivery of Training for Businesses on Basic Nutrition Principles for SMEs and businesses in Asia and Africa in June 2020 under Scaling Up Nutrition movement for SUN Business Network (SBN) convened by the Global Alliance for Improved Nutrition (GAIN) and the UN World Food Programme (WFP).
- Lead Investigator and service provider for Development of a Food Safety Manual for SMEs in fruits and vegetables, cereals and legumes, and animal foods for Postharvest Loss Alliance and Nutrition (PLAN) under the Global Alliance for Improved Nutrition (GAIN), 2020.
- Lead Investigator and service provider for “Product Evaluation and QC/QA manual development and Consumer and assessment/ preference study for food processing entrepreneur/SME (Wimssy Dairy Limited)” for Global Alliance for Improved Nutrition (GAIN) under the Marketplace for Nutritious Foods project, 2020.
- Lead Investigator and service provider for Product Development of a Pre-Cooked ‘Ugali’ Product - “Fortified Instant ‘Ugali’ Flour” and Consumer and assessment/ preference study for Global Alliance for Improved Nutrition (GAIN) under the Marketplace for Nutritious Foods project, 2019.
- Lead Investigator in the design and installation of a solar dryer for processing of *Moringa Oleifera* powder for fortification of food products in Malindi, 2019.
- Technical Investigator, Midterm project evaluation for the Yieldwise expansion phase (mango-Kenya) under TechnoServe and RockerFeller Foundation, 2019.
- Technical consultant, Midterm project evaluation for the Yieldwise expansion phase (mango-Kenya) under TechnoServe and RockerFeller Foundation, 2019.
- Lead Investigator, “Data analysis and development of nutrition profiles for Marsabit county” under Concern Worldwide October- November, 2018.
- Lead investigator in the design and installation of a solar dryer for processing of *Moringa Oleifera* powder for fortification of food products in Malindi, 2019.
- Project director, “Data analysis and development of nutrition profiles for Marsabit county” under Concern Worldwide October- November, 2018.

- Co-PI, “Adaptation and Up-scaling of tested and applicable postharvest technologies for smallholder horticultural farmers to reduce postharvest losses” National Research Fund (NRF) Multidisciplinary Research Grant, 2017.
- Co-Investigator on “Establishment of Aggregation Centers for Smallholder Horticultural Farmers in YieldWise Project and Organization of the 1st All Africa Postharvest Congress and Exhibition sponsored by Rockefeller Foundation, 2016”. Design and installation of solar dryers for mango processing in Kenya.
- Principal researcher: Baseline Evaluation Study in Marsabit, Turkana, Isiolo, Wajir and Garissa for the Feed the Future Kenya Livestock Market Systems under ACIDI VOCA, Mercy Corps, Smart Regional Consultants (SRC) and BOMA Program, USAID, 2018. Baseline evaluation on livestock market systems, nutrition and health impacts, food and nutrition security, gender, youth and women, conflict management, disaster management and rangeland management.
- Project director, “Enhancing the Processing Techniques, Marketing and Financial Management Skills of Livestock Enterprises in Meru, Tharaka Nithi, Kitui Counties” under the Kenya Semi- Arid Livestock Enhancement Support Project (K-SALES) under Land O’ Lakes sponsored by USDA.
- Co-investigator, Tailored fermentation for delivery of wholegrain and cereal fibre-rich products:- Promoting dietary fibre intake in Africa and Europe - (FIBRE - PRO)” Era Africa under the European Commission, part of the Seventh Framework Programme of the European Community for Research, Technological Development and Demonstration Activities under the funding scheme of “Collaborative Project”, ERAfrica-ERAFRICA_IC-025; FIBRE-PRO.
- Sub-project coordinator and WP 3b leader, Meat Value Chain in the RELOAD Project “Reduction of losses and value addition by strengthening small and medium enterprises in food processing to sustain value chains in East African postharvest systems” sponsored by the Federal Ministry of Education, Germany.
- Co-investigator: Enhancing the Quality of graduates of agriculture to meet tomorrow’s food security challenge (PREPARE-BSc) funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II) -Reference: EuropeAid/132023/D/ACT/ACPTPS. 2013 - 2015.
- Co-investigator: Contribution of *Cleome Gynandra* (Cat’s whiskers) to food, nutrition and income for rural populations under the Dean’s Grant 2011/2012 NO. 500-655-665.
- Co-investigator: Strategies to reduce mycotoxin levels in maize during storage funded by the National Council for Science & Technology and Ministry of Higher Education Science and Technology under the Science, Technology and Innovations (ST&I) grant for Women Scientists/ Researchers (2010-2011)
- Principal Investigator: Nutritional Value and Functional Properties of Bioactive Compounds in Supplementary Food Developed from Selected Local Food Ingredients, a PhD research study sponsored by the German Academic Exchange Services DAAD), 2008-2011.
- Principal Investigator: Microbiological Studies of *Kirario*, an indigenous Kenyan Fermented Porridge Based on Green Maize and Millet/Sorghum. An MSc. research Project Sponsored by the University of Nairobi, 2004-2006.

- Research assistant: Improving the Quality and Nutritional Status of “Gari” through the use of Starter Cultures and Fortification with soybean, palm oil and coconut milk; Training of Kaloleni women group on cassava processing, a European Commission sponsored project INCO-DEV) “GARISECURE” on Technological and Nutritional improvement of Gari, a lactic fermented cassava-based product.
- Award for Support to strengthen the competitiveness of the ACP horticultural industry through technical assistance and training in food safety under the Fit for Market’ COLEACP Program for Lot 2: Geographical area 2, Ref.: Tender 16001-lot 2, 2017.
- Project director on “Training in Risk Analysis for FDA project under the TRAQUE Programme” to enhance FDA capacity to regulate food and drugs held on 19th to 30th January, 2015. REF: FDA/TRAQU E/014/09
- Researcher: Delivery of Training Package 4 on Risk assessment from the 20th to the 24th of October 2014 in Gaborone, Botswana under the Safe Food in ACP ‘Des Aliments Sûrs en ACP’ Program funded by the EU, UN programme Finance Parl’ue (EDES). Consultancy under Cardno Emerging Markets East Africa Ltd, (REF: EDES 130318/AO/ACP)
- Researcher: Delivery of Trainings Packages 4 (Risk assessment) and 9 (Risk Communication) from the 13th to the 17th of January 2014 (P4) and from the 20th to the 24th of January 2014 (P9) in Accra, Ghana under the Safe Food in ACP ‘Des Aliments Sûrs en ACP’ Program funded by the EU, UN programme Finance Parl’ue (EDES). REF: (130360/GG/CSFC/001/GHA-REF: 1600)
- Principal researcher: Research on Food Safety for Fruits and Vegetables Sold in Domestic Markets for Solidaridad Eastern & Central Africa Expertise Centre (SECAEC), Solidaridad project number H&F/2013/PDC/Cathy Safe Foods Consultants.
- Principal researcher: Development of a Ready-to-Use Supplementary Food and training in Food safety for Nobel Enterprises Limited, Nairobi.
- Principal researcher: Installation and fabrication of a solar tunnel dryer in Mitunguu, Meru County for SunGold Foods Limited.
- Principal researcher: Product Development and nutritional analysis of dehydrated mangoes and bananas by solar drying for SunGold Foods Limited.
- Principal researcher: Design and layout for a fruit processing plant in Mitunguu, Meru County for SunGold Foods Limited.
- Principal investigator: Preservation and Shelf-Life Analysis of Opuntia Cactus fruit syrup: training of Twala women group on product technologies in Laikipia Kenya, a project sponsored by the African Conservation (ACC).
- Principal investigator: Nutritional Analysis and Chemical Composition of Opuntia Cactus Pear Fruits, a project sponsored by the African Conservation Centre (ACC).
- Co-researcher: Transfer of Postharvest handling technologies for fresh produce to rural communities in Kenya and particularly Machakos and Makueni Counties.
- Researcher: Design and fabrication of solar dryers particularly the tunnel and green house solar dryers for SMEs and rural communities.

- Principal investigator: Training personnel of Ministry of Agriculture: Value addition through agro- processing through Kenya Agriculture research Institute (KARI).
- Researcher: CTA on Information and communication Management strategies of small-scale agro- business enterprises in Africa held in Cotonou, Benin in February, 2006.
- Researcher for ICRISAT: proof-reading and editing of scientific papers on research carried out in the Limpopo Water Basin in Zimbabwe.

PATENT

- George Abong, Truphena Gikaara, Catherine Kunyanga, Lucy G.Njue. (2018). Orange Fleshed sweet potato thickened yoghurt. KE/UM/2018/1046.

PEER REVIEWED JOURNAL PUBLICATIONS

1. Abok, E.O., Okoth, M.W., **Kunyanga, C.N.** (2021). Water Disinfection Techniques: A Review. *Journal of Engineering in Agriculture and the Environment*; Volume 7. No.1, pp 54 -76. DOI: <https://doi.org/10.37017/jeae-volume7-no1.2021-4>
2. Kunyanga C.N., Kimani, D.E., and Werikhe G. (2021). Meat quality status and postharvest handling practices along the meat value chain in Kenya. *African Journal of Food Science*; Vol. 15(6) pp. 272-280, DOI: 10.5897/AJFS2021.2084. Article Number: DCF447E67160. ISSN: 1996-0794. <http://www.academicjournals.org/AJFS>.
3. Nkechi P. Akah, Catherine N. Kunyanga, Michael W. Okoth & Lucy K. Njue. (2021). Pulse Production, Consumption and Utilization in Nigeria within Regional and Global Context. *Sustainable Agriculture Research*; Vol. 10, No. 2; 2021. ISSN 1927-050X E-ISSN 1927-0518. doi:10.5539/sar.v10n2p48 URL: <https://doi.org/sar.v10n2p48>.
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PRESENTATIONS IN SCIENTIFIC CONFERENCES

ORAL PAPERS

1. Kunyanga, C. N. (2021). “Innovative Approaches to Processing and Preservation of Fruits by Smallholder Farmers in Kenya” during the DAAD alumni seminar “Fruit and Vegetable processing” - 29 June - 2 July 2021, “Transfer of knowledge between West and East Africa: advancing in fruit and vegetable processing to minimize food loss along the value chain and improve human nutrition” on Tuesday 29th June - Friday 2nd July 2021.
2. Mewa, E. A., Okoth, M. W., **Kunyanga, C. N.** & Rugiri, M.N. (2018). Effect of solar tunnel drying on the instrumental texture parameters of dried beef. *RUFORUM Working Document Series* (ISSN 1607-9345), No. 17 (1): 251-257. Available from <http://repository.ruforum.org>

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4. **Kunyanga C.N** Hesse, M, and Imungi, J.K. (2018). "Promoting Nutrition and Food Security in Africa: Role of University Research, technology and Innovation" presented at Tropentag, 2018 "International Conference on Research on Food Security, Natural Resource Management and Rural Development", Global Food Security and Food Safety: The role of Universities held on 17-19 September, 2018 in Ghent, Belgium.
5. Namusalisi, J., Anani, B., De Groote, H., **Kunyanga C.N.** (2018). Evaluation of Hermetic technologies in Controlling Insect Pests, Mould Infestation and Aflatoxin Contamination of Stored Maize" presented at Tropentag, 2018 "International Conference on Research on Food Security, Natural Resource Management and Rural Development", Global Food Security and Food Safety: The role of Universities held on 17-19 September, 2018 in Ghent, Belgium.
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9. Catarina Vila Real, Ana Pimenta, **Catherine Kunyanga**, Samuel Mbugua, Ndegwa H. Maina, Ana M.P. Gomes and Elisabete Pinto. (2018). Nutritional Adequacy in a sample of adult urban Kenyan presented at Associacao Portuguesa De Nutricao, Acta Portuguesa de Nutricao (2017) 44-74. www.actaportuguesadenutricao.pt.
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POSTERS

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4. Onyango C.M., **Kunyanga C.N.**, Wahome R.G., Karanja D.N., Muchemia G. and Inyega J. (2017) “Use of Problem Based Learning (PBL) Approach in University Education”, under PREPARE-BSC project funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II).
5. Karanja D.N., **Kunyanga C.N.**, Onyango C.M., Wahome R.G., Muchemia G. and Inyega J. (2017) “Knowledge, Attitudes and Practices of University Academic Staff in Training Agricultural Graduates”, under PREPARE-BSC project funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II).
6. Wahome R.G., Karanja D.N., **Kunyanga C.N.**, Onyango C.M., Muchemi G. and Inyega J. (2017) “Assessment of University Student Attitudes, Preparedness, Knowledge and Practices in taking Training in in Agriculture and related Subjects”, under PREPARE-BSC project funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II).
7. Karanja D.N., Wahome R.G., **Kunyanga C.N.**, Onyango C.M., Muchemia G. and Inyega J. (2017) “Improving Quality of Assessment and Feedback Practices in

- Training Graduates of Agriculture”, under PREPARE-BSC project funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II).
8. Inyega J., Karanja D.N., **Kunyanga C.N.**, Wahome R.G., Onyango C.M., and Muchemia G. (2017) “Training of University Lecturers in Mentorship Programmes for Lecturers and Students”, under PREPARE-BSC project funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II).
 9. Wahome R.G., **Kunyanga C.N.**, Karanja D.N., Onyango C.M., Muchemia G. and Inyega J. (2017) “Knowledge, Attitudes and Practices of Secondary School Students, Teachers and Parents Towards Agricultural Sciences in University Education”, under PREPARE-BSC project funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II).
 10. Muchemia G., Wahome R.G., **Kunyanga C.N.**, Karanja D.N., Onyango C.M., and Inyega J. (2017) “Training of University Lecturers in Activating Lecturers and Engaging Students to Learn”, under PREPARE-BSC project funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II).
 11. **Kunyanga, C.N**, Gichure, J.N., and Mathi, P.M. (2015). Development of innovative fruity wines from Tamarind indica, Opuntia stricta and Opuntia Indica underutilized fruits in Kenya. Nairobi Innovation Week, UoN, 3rd to 7th August, 2015, “Innovate and Prosper: Strengthening Academia, Industry and Government linkages for economic growth”.
 12. **Kunyanga, C.N**, Gichure, J.N., and Mathi, P.M. (2015). Development, Acceptability and Nutritional Characteristics of a Low-cost, Shelf-stable Supplementary Food for People Living with HIV/AIDS (PLWHAs) in Kenya. Nairobi Innovation Week, UoN, 3rd to 7th August, 2015, “Innovate and Prosper: Strengthening Academia, Industry and Government linkages for economic growth”.
 13. Gichure, J.N., **Kunyanga, C.N**, and Imungi, J.K (2015). Poster Presentation on “Potential for improvement of deep-fried meat products among four pastoral communities in Kenya” SAAFoST 2015 Congress in Durban, South Africa.
 14. Okello, E., **Kunyanga, C.N**. Utilization of mango seeds as an alternative starch source in soup making. International Youth Conference: Factoring Youth Voices into Critical Issues: Agenda on Environmental Sustainability, Climate Change Mitigation and Adaptation, Food Security and Nutrition in Africa held on 9-10 March 2012, Nairobi, Kenya.
 15. Miriti, J. D.W, Okello, E., Koech, R., **Kunyanga, C. N**. Production and adaptability of banana wine in Eastern Africa. International Youth Conference. Factoring Youth Voices into Critical Issues: Agenda on Environmental Sustainability, Climate Change Mitigation and Adaptation, Food Security and Nutrition in Africa held on 9-10 March 2012, Nairobi, Kenya.

16. Miriti, J. D.W, Okello, E., Koech, R., **Kunyanga, C. N.** Value addition of meats by adopting salami manufacture. International Youth Conference. Factoring Youth Voices into Critical Issues: Agenda on Environmental Sustainability, Climate Change Mitigation and Adaptation, Food Security and Nutrition in Africa held on 9-10 March 2012, Nairobi, Kenya.
17. Okello, E., **Kunyanga, C.N.** Adaptation of mango nectar processing in small and medium enterprises in sub-Saharan Africa. International Youth Conference, Factoring Youth Voices into Critical Issues: Agenda on Environmental Sustainability, Climate Change Mitigation and Adaptation, Food Security and Nutrition in Africa held on 9-10 March 2012, Nairobi, Kenya.

EDITORIAL FUNCTIONS

- Editorial board member, *Journal of Pedagogy, Andragogy and Heutagogy in Academic Practice*/ISSN:2708-261X, under the University of Nairobi's Centre for Pedagogy and Andragogy (CEPA), launched 2015.
- Reviewer for PLOS ONE journals, plosone@plos.org.
- Reviewed for *Journal of Agriculture and Rural Development in the Tropics and Subtropics*, <http://www.jarts.info/>
- Reviewer, *Journal of Agriculture, Food and Environment (JAFE)*, UoN.
- Reviewed for *African Journal of Food and Nutrition (AJFAND)*, www.ajfand.net
- Reviewed for *Food Science and Technology Research Journal*
- Reviewed for *Agricultural and Natural Resources Journal*, Elsevier.
- Reviewed for *Journal of Food Composition and analysis*, Elsevier
- Review of papers and abstracts for the First and Second Africa Postharvest Congress in Nairobi and Addis Ababa.
- Review of Postdoctoral proposals under the Faculty of Agriculture Postgraduate Studies Committee member, Department of Food Science, Nutrition & Technology Representative.
- Review of proposals for Kenya Climate Smart Agriculture Project (KCSAP) under KARLO, 2020
- Technical reviews and Enhancement of Value Addition Modules for Farm Concern International and "Catalyzing Market Prospects for Horticulture Smallholder Farmers, Small, and Medium Enterprises in Rwanda Project", 2021.

STUDENT SUPERVISION:

GRADUATED STUDENTS

PHD

1. "Development of a Smart Prototype Solar Cooler to Replace Charcoal Coolers in Maintaining Quality and Shelf Stability of French Beans Along the Supply Chain in Kenya", **Ogumo Erick Otieno**, A81/53192/2018, 2020, PhD in Food Science and Technology, University of Nairobi.
2. "Farm Production Diversity and Its Association With Dietary Diversity Among Smallholder Farmers In Kisii And Nyamira Counties, Kenya". **Davis Nguthi**

Muthini, REG NO. A80/50979/2016, PhD in Agricultural Economics, University of Nairobi, 2020.

3. "Effects of Social Networks on Household Food Consumption among Smallholder Farmers in Kisii and Nyamira Counties, Kenya" **Mbugua Mercy Wanjiru**, (A80/50978/2016) PhD student in the Department of Agricultural Economics, University of Nairobi, 2019.
4. "Modeling of Drying Kinetics and Quality Characteristics of Solar Dried Beef." **Eunice Akello Mewa** (A81/98769/2015), PhD in Food Science and Technology, University of Nairobi, 2018.
5. "Integrating Traditional Techniques into Conventional Preservation Methods to Upgrade Pastoral Deep-Fried Beef Products in Kenya", **Josphat Njenga**, PhD in Food Science and Technology, University of Nairobi, 2017, RELOAD project, registration no. A81/94473/2014.

MSC

1. "Development of Ready to Eat (RTE) Breakfast Cereal from Sorghum-Pigeon Peas Blends" **Abdullahi Beinah** (A56/9093/2017), MSc. in Food Science and Technology, University of Nairobi, 2021.
2. Influence of maternal nutrition knowledge on Infant and young child feeding practices and nutrition status of children of 6-23 months of age, in Rwanda. **Nadine Umwali**, A56/12369/2018, Master of Science in Applied Human Nutrition, University of Nairobi, 2020.
3. Enhancing Haemoglobin Status of Anaemic School Girls Using Cooked Vegetables Enriched With Baobab Powder In Kilifi County- Kenya. **Riziki Dama Yaa** (A56/6834/2017), Master of Science in Applied Human Nutrition, University of Nairobi, 2020.
4. Commercialization Viability of an Upgraded Koche, a traditional meat product prepared in the Pastoral Regions Kenya. **Grace Warikhe**, (A56/87986/2016) MSc. in Food Science and Technology, University of Nairobi, 2019.
5. Effectiveness of Hermetic Storage Technologies on Mould Infestation and Aflatoxin Contamination of Maize Storage with Special Reference to Post Harvest Insect Pests in Kenya. **Jacqueline Namusalisi**, A56/85203/2016, MSc. in Food Science and Technology, University of Nairobi, 2019.
6. Development of a Food Supplement for Diabetes Type II Management with Enhanced Antidiabetic and Antioxidant Properties from Selected Local Foods. **Hengame Yousefifar**, (A56/82477/2015), **Master of Science in Applied Human Nutrition**, University of Nairobi, 2019.
7. "Development of a Functional Food from Bovine Tripe to Reduce By-Product Losses in Pastoral Slaughterhouses in Kenya". **Wilson Karibe**, A56/89637/2016, **MSc. in Food Science and Technology**, University of Nairobi, 2018.
8. Development of Vitamin A Rich Yoghurt by Supplementation with Orange Fleshed Sweet Potato Puree. **Truphena Gikaara**, **Master of Science in Food Safety and Quality**, University of Nairobi, 2018.
9. Development of Complementary Porridge Flour from Local Malawian Foods with Optimized Iron and Zinc for Children. **Memory Chikondi**, **A56/87035/2016**, **MSc. in Food Science and Technology**, University of Nairobi, 2018.

10. Continuous solar water disinfection system for rural food processing operations. **Abok Elisha, MSc. in Food Science and Technology**, University of Nairobi, 2018.
11. “Process analysis, nutritional quality and consumer acceptability of porridge composite flours developed from legume-based ingredients grown in Nandi”. **Peninah Gitau, (A56/82018/2018) Master of Science in Food Safety and Quality**, University of Nairobi, 2018.
12. “Dietary Assessment and Nutritional Status of Children (6-23 Months) Consuming Local Food Recipes in Vihiga County, Western Kenya”, **Cherop Gladys, MSC, Applied Human Nutrition**, Registration no. A56/81894/2015, University of Nairobi, 2018.
13. “Development of Beef Sausages through Bovine Blood Utilization as Fat Replacer to Reduce Slaughterhouse By-Product Losses.” RELOAD project, **Pius Mathi, MSc in Food Science and Technology**, University of Nairobi, 2016.
14. “Demystifying the Use of Honey in Diabetes Management: A case of Type II Diabetes Patients at Kenyatta National Hospital, Nairobi.” **Martha Chege, Master of Science in Applied Human Nutrition**, University of Nairobi, 2016.
15. “Adherence to Pre-requisite Handling Practices of Milk Dispensers in Nairobi Supermarkets, Kenya”. **Olivia Adhiambo Olang’. Reg. A11/69925/2013, Postgraduate Diploma in Food Safety and Quality**, University of Nairobi, 2016.
16. “Development of Value-Added Rabbit Meat Product and Assessing Their Microbiological Quality”. **Makori Shadrack, Master of Science in Food Safety and Quality**, University of Nairobi, 2015.
17. “Nutrition Knowledge and Dietary Practices and Nutritional Status of Health Practitioners in Naivasha District”. **Kihara Christine Wangui, Master of Science in Applied Human Nutrition**, University of Nairobi, 2014.
18. “Fruits and vegetable Consumption and Determining Factors among Pastoralists of Narok North.” By **Langat Pius Kibet, Master of Science in Applied Human Nutrition**, University of Nairobi, 2014.
19. “Performance of Malezi bora programme on improving the nutritional knowledge of mothers and nutritional status of children aged 6-59 months in Kawangware, Nairobi.” **Gichana Margaret Bochaberi, Master of Science in Applied Human Nutrition**, University of Nairobi, September, 2013.
20. “Prevalence and risk factors of malnutrition among under-five’s in Meru, Kenya: A comparative study of khat (*Catha edulis*) and non- khat farming households.” **Hellen G. Ringera, Master of Science in Applied Human Nutrition**, University of Nairobi, September, 2013.
21. “Influence of Nutrition Knowledge and Attitude on Dietary Practices and Nutritional Status of Female University Students Aged 19-25 Years in Nairobi Central Business District, Kenya.” **Lucy Kinyua, Master of Science in Applied Human Nutrition**, University of Nairobi, September, 2013.

ONGOING STUDENTS

DOCTORAL STUDENTS

1. “Development of a High-Quality Functional Food from Orange Fleshed Sweet Potato, Finger Millet and Mung Bean”, Patrick Gacheru, A81/53489/2018 PhD in Food Science and Technology, University of Nairobi, 2020.
2. “Development Of Quality-Oriented Tomato Based Therapeutic Food Product” Cherop Gladys (A56/81894/2015), PhD in Applied Human Nutrition, University of Nairobi, 2020
3. “Effect of Maize Lethal Necrosis Disease on Food, Feed and Industrial End Use Quality of Maize in Kenya”. John Ndung'u Ng'ang'a (A80/52347/2017), PhD IN Crop Science and Protection University of Nairobi, 2018.
4. “Production and Evaluation of African Yam Bean (*Sphenostylis Stenocarpahochst* A. Rich) Flours for “Igbagidi” Pudding”, Peace Nkechi, A81/51423/2017, PhD in Food Science and Technology, University of Nairobi, 2017.
5. “Post-Harvest Management of Horticulture Produce (Avocado) In Rwanda”, Ernest Murindwa, A81/52132/2017, PhD in Food Science and Technology, University of Nairobi, 2017.

Masters students

1. Quality Kinetics and Nutritional Characteristics of Solar Dried Tomato and Tomato Powder. Ngaru Millicent N., (A56/34599/2019), (MSc. Food Safety and Quality)
2. Ochratoxin A Contamination During Post-Harvest Handling of Market Chili By Small Holder Farmers in Elgeyo Marakwet County of Kenya By Sadiya Mohamed Abdi, MSc. Food Safety and Quality.
3. Development of an Extruded Ready-To-Use Green Gram Based Food Product. Lucy A. Lumumba, (A56/33950/2019), MSc. Food Safety and Quality.
4. “Quality Characteristics and Storability of Solar Dried Chilli Products” Fridah Kawira Ileri (Registration No. A56/35656/2019), MSc. in Food Science and Technology, University of Nairobi, 2020.
5. Brenda Moraa Kimanga (Registration No. A56/35656/2019), MSc. in Food Science and Technology, University of Nairobi, 2020.
6. Muriuki Dennis Chomba, (Registration No.), MSc. in Food Science and Technology, University of Nairobi, 2020.
7. Effect of Nitrogen Nutrition on Yield, Postharvest Shelf-life and Quality of Solar Dried Tomatoes. Mutuli Suleiman Osokho A56/12151/2018. MSC in Horticulture.
8. Process Optimization and Development of Cookies from Composite Flours of Sorghum and Mung Bean. Rahma Thuiya Ali, A56/11093/2018. MSc. in Food Science and Technology, University of Nairobi, 2019.
9. Development of a Ready to Eat Sorghum Snack Supplemented with Sesame and Baobaob Fruit for Nutritional and Sensory Quality. David Edgar Kimani, A56/11864/2018. MSc. in Food Science and Technology, University of Nairobi, 2019.
10. Development of a Ready to Drink Probiotic Sorghum Beverage through Malting and Fermentation, Bwamu Elisha Kiptanui, (A56/14206/2018). MSc. in Food Science and Technology, University of Nairobi, 2019.

11. Quality Characteristics and Drying Kinetics of Mango in a Solar Tunnel Dryer using Mathematical Models. Gerald Musyoki Ndonge, Master of Science in Food Safety and Quality, University of Nairobi, 2017.
12. Pre-Slaughter and Postharvest Handling Practices Affecting Quality Characteristics of Dried and Deep-Fried Beef Products. Oliver Chanzu. MSc. in Food Science and Technology, University of Nairobi, 2017.
13. Characterization of fermentative bacteria in Mashanza and Musururu traditional fermented foods in Kivu, Eastern RD Congo, Baluku Safari, P, MSc. in Food Science and Technology, University of Nairobi, 2013.
14. Evaluation of physico-chemical properties and microbial quality of deep-fried beef in Kenya” Post graduate Diploma in Food Safety and Quality, University of Nairobi, 2016.

CONFERENCES, SYMPOSIUMS AND WORKSHOPS ATTENDED

1. COLEACP E-meeting SPS with NPPO’s from ACP countries 04 May 2021 on “How import controls of fresh fruit and vegetables are carried out in Europe example of Belgium - main implications and challenges”.
2. HEAL Community of Practice Webinar WASH and biosecurity interventions to reduce the burden of infections and AMR in animal agricultural settings’, with Chris Pinto, Research Fellow at the London School of Hygiene and Tropical Medicine (LSHTM) at 1300 EAT, ILRI.
3. Workshop on ‘Mycotoxins in food and feed’ Wednesday, January 20th 2021 at 4:00 PM (EAT) by AOAC Sub-Saharan Section and SAVETCON Event Management.
4. One Health Centre in Africa (OHRECA) launch, International Livestock Research Institute (ILRI) on 22nd October 2020.
5. Webinar, “Food Fraud & Food Authenticity: how to detect and manage in the supply chain”, AOAC SSA on Wednesday, October 28 2020 AT 4:00 PM (EAT).
6. “World Food Day Colloquium 2020”, The Food Security Center invites you to save the date for the World Food Day Colloquium 2020 “Future Agricultural and Food Systems: Ensuring Food Security during Crises” on Friday, October 16th, 2020. <https://fsc.uni-hohenheim.de/en/wfdc2020>
7. Food Aid Quality Review (FAQR) summit, “The Future of Food Assistance for Nutrition: Evidence Summit II!” USAID and Tufts University, October 5-8, 2020.
8. Webinar, The Global Food Banking Network, “Save Food, Fight Hunger”. 29th September, 2020 Champions 12.3.
9. Webinar Peer Review Week, "Celebrating Peer Review Week with ORCID" on Thu, Sep 24, 2020 5:00 PM - 6:00 PM AST.
10. Webinar Champions 12.3, “Success or Crisis in 2030? The Fight to Halve Food Loss and Waste” , Sep 24, 2020 09:00 AM in Eastern Time (US and Canada), Webinar ID 966 3950 5013
11. Online Webinar “Assessing trade-offs between food loss and waste and GHG emissions” Agro-Chain Greenhouse gas Emission (ACGE) calculator. Consortium for Innovations in PH Loss and Food Waste Reduction September 21 2020 AT 10:00 AM (EAT).

12. Quantifying Salt & Sodium in foods - challenges and implications, Wednesday, September 16 2020 AT 4:00 PM (EAT), Savetcon Event Management, webinar hosted by the AOAC Sub-Saharan Africa Section.
13. RECIRCULATE Workshop “Innovation and Entrepreneurship”. UK Research and Innovation under GCRF with Lancaster University, UK and Center for Global Eco-Innovation, 24th -27th February, 2020.
14. Stakeholder workshop on Guidelines for Regulation of Animal Biotechnologies in Kenya: Genetically Modified Organisms (GMOs) such as Plants, Animals and Microorganisms in Kenya. Animal Biotechnology Workshop at Park Inn-By Radison Hotel, Westlands, Nairobi, 10th & 11th March 2020.
15. VIRCA Plus Project Technical updates workshop, Genetically modified (GM) cassava research in Kenya, 5-6th February, 2020, Alupe, Busia.
16. 2nd All Africa Postharvest Congress and Exhibition held at African Union Commission in Addis Ababa Ethiopia on 17 to 20 September, 2019.
17. 2nd All Africa Postharvest Congress and Exhibition Planning Committee Meeting held at Stellenbosch University, Cape town on 22 to 26 July, 2019.
18. Practical training on European phytosanitary regulations: phytosanitary certificates and additional declarations held in Dar Es Salaam - Tanzania, 24 - 26 April 2019 under COLEACP ‘Fit for Market’ program.
19. Research for Development (R4D) Conference on “Improving the Effectiveness of the Research-to-Translation Value Chain” under LASER PULSE project, the Long-term Assistance and Services for Research (LASER) - Partners for University-Led Solutions Engine (PULSE) consortium on May 6-8, 2019 at the Speke Resort and Conference Centre Munyonyo, Kampala, Uganda.
20. Technical training and promotion conference on Solar Cooling for Agriculture for academia by Strathmore Energy Research Center, Strathmore University by University of Hohenheim on 18th March, 2019.
21. 4th International Congress Hunger Hidden, “***Hidden Hunger and the transformation of food systems: How to combat the double burden of malnutrition?***” on February 27 - March 1, 2019 University of Hohenheim, Stuttgart, Germany
22. Inter-regional workshop on “Sensor Technology and Agricultural Robots for Food security in Changing Climates: Opportunity for developing countries” held in Kasetsart University in Bangkok, Thailand on November 15-16, 2018
23. Workshop on Food Safety and Food Loss Issues Prioritization Workshop by ILRI and ReSAKSS-ECA held IN Naivasha on October 2nd to 4th, 2018
24. World Food Day Colloquium on “Cooperatives: Essentials for food security?!” on 15th to 16th October, 2018 at the University of Hohenheim, Stuttgart, Germany.
25. Stakeholder workshop on Validation of Poultry and Meat Occupational Standards and Curricula held at Utalii College, Nairobi on 25th September, 2018 under TVET Curriculum Development, Assessment and Certification Council (TVET CDACC) and GIZ.
26. Tropentag, 2018 “International Conference on Research on Food Security, Natural Resource Management and Rural Development”, Global Food Security and Food Safety: The role of Universities held on 17-19 September, 2018 in Ghent, Belgium.

27. The Food Fortification Summit, Fortifying for Food and Nutrition Security sponsored by GAIN and EU project on Strengthening the Kenya National Food Fortification Programme on 4th July, 2018 at Safari Park Hotel, Nairobi.
28. Global Mind Talk, Aflatoxin workshop on “The silent crisis: Why aflatoxin is an unsolved threat to Africa’s Food?” held in ICRISAT ON 30TH May, 2018, at World Agroforestry Centre in Nairobi.
29. Strengthening African Food Processors (SAP) to reduce food losses project launch workshop, August 21-22, 2018, CAVS, UoN.
30. FAO Sensitization Meeting for Integration of Nutrition in Agricultural and Food Systems Curriculum at the University of Nairobi, Kenya on 13th June 2018.
31. International conference on “Making Small Holder Agriculture More Nutrition-Sensitive: The Role of Innovation and Extension” 22-23rd March, 2018, Nairobi Kenya by Africa Harvest, University of Nairobi and Gottingen University.
32. Tropentag, 2017 “International Conference on Research on Food Security, Natural Resource Management and Rural Development”, Future Agriculture: Socio-ecological Transitions and bio-cultural shift held on 20-22 September, 2017 in University of Bonn, Germany.
33. African Women in Biosciences Forum held on Thursday, April, 20th, 2017 at the Royal Orchid Hotel in Nairobi sponsored by International Service for the Acquisition of gar-biotech Applications (ISAA) and Association of Women in Science and Engineering (AWSE).
34. The 1st All Africa Postharvest Congress and Exhibition “Reducing postharvest losses: Sustainable Solutions for Africa” 2017 held on 28th to 31 March, 2017 at Safari Park Hotel, Nairobi, Kenya.
35. The First East African Food Conference; Speaker (Publishing Ethics) in the Pre-conference Scholarly Writing Workshop organized by AJFAND and FoSTeP-K held on 29-31st March, 2016.
36. 4th Annual RELOAD project workshop on “Reduction of losses and value addition by strengthening small and medium enterprises in food processing to sustain value chains in East African postharvest systems” sponsored by the Federal Ministry of Education & Research and Unikassel held on November 10th to 15th, 2016 in Mukono, Uganda
37. Regional Youth Congress on New Learning approaches and Career Opportunities in Agriculture at Makerere University from 2nd - 5th November, 2016 under PREPARE-BSC project funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II).
38. Presenter at the World Food Day Colloquium, “No Sun - No Food”, Climate Disasters and Food Security 200 years after Tambora at the Food Security Center, University of Hohenheim, Germany held on October 18th, 2016.

39. Trainer, “Lecturer Didactic Training Workshop” at CSD Seminar room, University of Nairobi, PREPARE-BSC project funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II).
40. Facilitator, “Interpersonal skills” for Training Workshop for Peer Student Mentors Programme under PREPARE BSC project supported by EU through ACP-EDULINK II programme held on Tuesday 25 October, 2016 in CAVS, Kabete
41. Science Communication Training Program for Biosciences Eastern and Central Africa (BecA) and Virus Resistant cassava for Africa (VIRCA) scientists, facilitated by ISAAA held on 28th - 29th June, 2016, ILRI, Nairobi.
42. “Reduction of losses and value addition by strengthening small and medium enterprises in food processing to sustain value chains in East African postharvest systems” RELOAD Project workshop held in University of Kassel, Witzenhausen, Germany in 16th to 19th September, 2017.
43. Dissemination workshop held on 13th April at Central Catering Unit (CCU), University of Nairobi on “Enhancing the Quality of graduates of agriculture to meet tomorrow’s food security challenge (PREPARE-BSc)” funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II)
44. Workshop on Development of appropriate nyirinyiri processing technologies manual and hazard analysis critical control point plan 30th January to 3th February, 2017 in Nanyuki under the State Department of Livestock, Regional Pastoral Livelihoods Resilience Project (RPLRP), Ministry of Agriculture, Livestock and Fisheries.
45. ESCOBOX: Smart Monitoring, billing and control for pro-poor access to energy services workshop held on 11th January 2017 funded by Engineering and Physical Science Research Council (EPSRC) of the United Kingdom.
46. Co-facilitator, for short course programme on “Social network Analysis for Food security” held on 13th to 17th December, 2016 at 844 building, CAVs, University of Nairobi sponsored by DAAD and Food security Center, University of Hohenheim.
47. Participant in World Food Day Colloquium, “Grasslands - secret resource for a hungry world”, including presentation of Justus von Liebig Awards, sponsored by DAAD held in the Food Security Center, University of Hohenheim, Germany on October 16th, 2015.
48. 2015 Joint AAUN Australian Awards Agricultural Research Symposium, 25 November, 2015, Nairobi, Kenya.
49. Key note speaker on The Role of Agriculture in addressing Food and Nutrition Security, the Annual National Conference on ‘Enhancing Sustainable Food and Nutrition Security in Kenya by JICA Ex-Participants Alumni of Kenya (JEPAK) held on 20TH November, 2014 at Panafric Hotel, Nairobi.

50. International Conference for Youth in Africa on ‘Factoring Youth Voices into Critical Issues: Agenda on Environmental Sustainability, Climate Change Mitigation and Adaptation, Food Security and Nutrition in Africa held in the University of Nairobi, Kenya on 9th to 10th March, 2012.
51. II World Congress of Public Health and I Latin American Congress of Community Nutrition” held in Alfandega Congress Center, Porto, Portugal on September 23-25, 2010.
52. International Conference on African Nutritional Epidemiology (ANEC) organized by Center for Public Health Research and Kenya Medical Research Institute, held in Nairobi, Kenya on 4-8, October, 2010.
53. The African Crop Science Society Conference, Cape Town, South Africa 2009: Science and Technology Supporting Food Security in Africa 28 September to 1 October, 2009.
54. Curriculum Development and review workshop, facilitator in formulation of PhD in Community Nutrition and Monitoring and Evaluation; PhD in Food Science and Nutrition; MSc. Community Nutrition and Monitoring and Evaluation; MSc. in Food Science and Nutrition and review of BSc. Food Science and Nutrition; BSc Human Nutrition and Dietetics for Department of Food Science and Nutrition, Karatina University held on 23rd to 25th February 2016 in the Senior Common Room, Karatina University.
55. Facilitator in Stakeholders’ workshop on Proposed Syllabus for MSc in Biosafety held at KARLO Headquarters, Nairobi, Kenya on Monday, 11th November, 2015.
56. Annual RELOAD workshop “Reduction of losses and value addition by strengthening small and medium enterprises in food processing to sustain value chains in East African postharvest systems” sponsored by the Federal Ministry of Education & Research and Unikassel Witzenhausen, held on 29th September-2nd October, 2015 In Egerton University, ARC Hotel-Neissuit Conference Auditorium.
57. Annual workshop meeting held in Arusha on 2nd to 6th February, 2015 under PREPARE BSC project supported by EU through ACP-EDULINK II programme.
58. “Workshop for experienced lecturers: Improving and internationalizing University courses” sponsored by the Swedish Ministry of Finance held in Kasangati Hotel under Makerere University and Swedish University of Agricultural Sciences (SLU) in Kampala, Uganda on 10th to 12th June 2014.
59. RELOAD Project workshop held in University of Kassel, Witzenhausen, Germany in 28th September to 3rd October, 2014.
60. “Africa Days” of BMBF (Federal Ministry of education and Research) and RELOAD Project held on 16th to 18th March, 2014 in Berlin Germany.

61. Study tour at the Department of Science Education, University of Copenhagen, Denmark under PREPARE BSC project supported by EU through ACP-EDULINK II programme on 8th - 16th February, 2014.
62. Inception workshop for needs assessment with stakeholders in the meat value chain under the RELOAD Project held in Naivasha on 29th January to 1st February, 2014.
63. Inception workshop meeting Project with partners under EU project on “Enhancing the Quality of graduates of agriculture to meet tomorrow’s food security challenge (PREPARE-BSc)” funded under the ACP-EU Co-operation Programme in Higher Education (EDULINK II) - Reference: EuropeAid/132023/D/ACT/ACPTPS held on 9th to 11th January, 2014 at Chak Guest House.
64. FAO/WHO workshop on the official launch of task force to spearhead activities to address the development of antimicrobial resistance in the meat value chain held on October 13th -14th, 2012 at Sarova Panafric hotel, Nairobi, Kenya. Rapporteur, Dr. CN Kunyanga.
65. International workshop of the RELOAD Coordination group held in PIBID Processing Plant, Bushenyi, Uganda in 21 - 22nd May, 2012. Sponsored by the Federal Ministry of Education & Research and Unikassel Witzenhausen.
66. RELOAD workshop “Reduction of losses and value addition by strengthening small and medium enterprises in food processing to sustain value chains in East African postharvest systems” sponsored by the Federal Ministry of Education & Research and Unikassel Witzenhausen, held on 26th - 28th March, 2012 in College of Agriculture and Veterinary Sciences, University of Nairobi.
67. FAO and University of Nairobi workshop on “Prevention and control of aflatoxin contamination in the maize value chain in Kenya” held at Jacaranda hotel, Nairobi, Kenya on 28th to 30th September, 2011. Rapporteur, Dr. CN Kunyanga.
68. FAO Expert Consultation Meeting on the Review of FAO Meat Inspection and Hygiene Guidelines held in Nairobi, Kenya on 25th - 26th August, 2011. Rapporteur, Dr. CN Kunyanga.
69. Development of Food Safety curriculum in the Department of Food Science, Nutrition & Technology, University of Nairobi and UNIDO.
70. Capacity building in grants and Academic research proposal development for staff and graduate students, 27-31 July 2009 CAVS, University of Nairobi, Kenya.
71. Safe Food Fair Food: Launch of Situation analysis paper on animal source foods, GTZ/IRLI workshop on 28th July, 2010, Nairobi.

MEDIA AND NON-JOURNAL ARTICLES

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6. Newspaper article on “*How mercury finds itself in your sugar*”. Published Wed, June 20th 2018 at 00:00, The Standard. Updated June 19th 2018 at 23:14 GMT +3. <https://www.google.com/amp/s/www.standardmedia.co.ke/mobile/amp/article/2001284742/how-mercury-finds-itself-in-your-sugar>
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12. GBS TV interview on domestic food safety of fruits and vegetables sold in open air markets and supermarkets in Kenya.
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17. Report of FAO/WHO workshop on the official launch of task force to spearhead activities to address the development of antimicrobial resistance in the meat value chain, 2012.
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Training manuals

1. Best practices manual in post-harvest handling of livestock meat products and business development produced under the Kenya Semi- Arid Livestock Enhancement Support Project (K-SALES), Land O’ Lakes funded by United States Department of Agriculture (USDA).
2. Training manual on by-product utilization for livestock processors and slaughterhouses produced under the Kenya Semi- Arid Livestock Enhancement Support Project (K-SALES), Land O’ Lakes funded by United States Department of Agriculture (USDA).
3. Training manual on slaughter processing techniques for livestock enterprises in Kenya, produced under the Kenya Semi- Arid Livestock Enhancement Support Project (K-SALES), Land O’ Lakes funded by United States Department of Agriculture (USDA).
4. Training manual on processing and value addition produced under the Kenya Semi- Arid Livestock Enhancement Support Project (K-SALES), Land O’ Lakes funded by United States Department of Agriculture (USDA).
5. Training manual on Business Planning and Financial Management for livestock enterprises in Kenya, produced under the Kenya Semi- Arid Livestock Enhancement Support Project (K-SALES), Land O’ Lakes funded by United States Department of Agriculture (USDA).
6. Marketing Manual for Livestock Processors in Kenya, produced under the USDA funded KSALES project.

7. Best practices manual in post-harvest handling of livestock meat and meat products under RELOAD project.
8. Training manual on development of ready to eat mixed product from bovine tripe rolls (matumbo) under RELOAD project.
9. Training manual on camel meat sausage processing under RELOAD project.
10. Training manual on Meat Processing and Meat Preservation under RELOAD project.
11. Training manual on Ready to Eat Meat snacks and deep fried meat products for commercialization under RELOAD project.
12. Training manual on upgraded 'Koche' product under RELOAD project.
13. Training manual on fabrication of a solar dryer for horticultural crops, a resource manual produced under USAID-funded Kenya Horticultural Competitiveness Project (KHCP) and Quality Management Systems and Associates (QSM), April 2014
14. Production and postharvest manual on sweet potatoes, a resource manual produced under USAID-funded Kenya Horticultural Competitiveness Project (KHCP) and Quality Management Systems and Associates (QSM), April 2014
15. Production and postharvest manual on African Leafy vegetables, a resource manual produced under USAID-funded Kenya Horticultural Competitiveness Project (KHCP) and Quality Management Systems and Associates (QSM), April 2014
16. Legumes and pulses: A training manual for smallholder producers and processors, a resource manual produced under USAID-funded Kenya Horticultural Competitiveness Project (KHCP) and Quality Management Systems and Associates (QSM), April 2014
17. Pigeon peas: Training manual for smallholder producers and processors, a resource manual produced under USAID-funded Kenya Horticultural Competitiveness Project (KHCP) and Quality Management Systems and Associates (QSM), April 2014.
18. Production and postharvest manual on mangoes, a resource manual produced under USAID-funded Kenya Horticultural Competitiveness Project (KHCP) and Quality Management Systems and Associates (QSM), April 2014

COMMUNITY SOCIAL RESPONSIBILITY, CAPACITY BUILDING AND OUTREACH SERVICES.

- Farmer participatory variety and technology selection for New Mwangaza Digital and Muuo wa kwa Kisai farmer groups under 'Validation and promotion of integrated Climate-Smart green gram technologies for improved livelihoods in Kenya.' KSCAP project in Kyua Location, Katangi ward, Yatta sub-county, Machakos County, 4th February, 2021.
- Farmer field days on silicon treatment and PHL mango practices, EMBU, 2020.
- Establishment of Food Processing hub in the department.
- Establishment of aggregation centers in Karurumo and Masii in Embu and Machakos counties.

- Installation of solar processing plants in Voi, Embu, Meru, Isolo, Voi, Malindi etc. for SMEs and private sectors.
- Value addition trainings and technical support for SMEs and private sector.
- Nutrition training for SM4ES in Africa and Asia.
- Food safety training for SMEs and private sector.
- Mentorship of ALUMNI and support to students' startups and SMEs in Kenya.
- Chair of the Board of Management (BOM) in Uringu Girls High School in Meru County.
- Vice-chair, Board of Management (BOM) in Nkuene Girls High School in Meru County.
- Chairperson, RAY of Hope Kenya (ROHK) for orphan children under St Joseph' ACK church, Kabete.
- Tree Planting for 2014 Wangari Maathai Day and Africa Environmental Day on "YOUTH - Healing the Earth; Environment. Education. Empowerment" held in Othaya on 3/03/2014 by Wangari Maathai Institute for Peace & Environmental Studies and UoN.
- Experiential learning and community participation under 'Interdisciplinary Land Use and Natural Resource Management (ILUNRM)' course 2014 sponsored by Wangari Maathai Institute for Peace & Environmental Studies.
- Training on solar drying of fruits and vegetables using solar dryers under USAID-funded Kenya Horticultural Competitiveness Project (KHCP) and Quality Management Systems and Associates (QSM), April 2014
- Training on postharvest handling technologies of African Leafy vegetables under USAID-funded Kenya Horticultural Competitiveness Project (KHCP) and Quality Management Systems and Associates (QSM), April 2014.
- Training on tomato paste, sauces and ketch production from tomatoes for smallholder producers and processors under USAID-funded Kenya Horticultural Competitiveness Project (KHCP) and Quality Management Systems and Associates (QSM), April 2014.
- Training on solar drying of fruits using tunnel solar dryers and hygiene practices in processing for Sungold Limited, Meru County, 2013.
- Training on postharvest handling technologies of green banana under USAID-funded Kenya Horticultural Competitiveness Project (KHCP) and Quality Management Systems and Associates (QSM), April 2014.
- Training of meat processing and value addition of meat for SMEs and slaughterhouses in pastoral regions, 2016.

HOBBIES:

- Traveling.
- Listening to music and watching movies.
- Reading inspirational books and magazines.
- Engaging in social activities and networking.
- Volunteer work.

- Soccer, jogging and volleyball.

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