

CURRICULUM VITAE



A: PERSONAL INFORMATION

Name: Gicheha Mathew Gitau
Place of Birth: Murang'a
Nationality: Kenyan
Sex: Male
Address: P.O. Box 2650-01000
Thika, Kenya.
Telephone: +254 706 135 611
E-mail: gicheham@jkuat.ac.ke; gichehag@yahoo.com
Website: dr-mathew-g-gicheha.com

B: EDUCATIONAL BACKGROUND

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- 2008 - 2011 Doctor of Philosophy in Agriculture Systems Management, Lincoln University, Canterbury, New Zealand.
- Major:* Systems Management
- Thesis:* Managing climatic variability in high performance dryland sheep production systems.
- Areas of specialisation:* risk management, evaluation of alternative management strategies, systems analysis and modelling information and Decision Systems, Biostatistics
- Name of supervisors:* Prof. Tony Bywater and Prof. Grant Edwards
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- 2002 – 2005 Master of Science in Animal Production (Animal Breeding and Genetics) Egerton University Njoro, Kenya. 2005
- Major:* Animal Breeding and Genetics
- Thesis:* Optimising Breeding Strategies Incorporating Resistance to Gastrointestinal Helminths in Meat Sheep in Kenya.
- Areas of specialisation:* Genetic and economic evaluation of alternative breeding strategies, modelling, estimation of economic values for diseases resistance traits and prediction of genetic gain, Molecular Genetics
- Name of supervisors:* Prof. Alexander K. Kahi and Prof. Bockline Omede Bebe.

Minor: Animal Nutrition, Physiology, Livestock Production Systems and Biostatistics.

1996 – 2001	Bachelor of Science in Animal Production (Second Class Honours-Upper Division); Egerton University, Njoro, Kenya.
1990 – 1993	Kenya Certificate of Secondary Education; Njiiris High School, Murang'a, Kenya
1981 – 1989	Kenya Certificate of Primary Education; Makuyu Primary School, Murang'a, Kenya.

C: PROFESSIONAL COURSES

Certificate in Business Skills and Entrepreneurship Development (BSED)	UNDP-Kenya	May 2006
Agricultural Technology Intensive Training	Sino-Africa Joint Research Centre	December 2018
DTC e-Learning Training	CoELIB	September 2016
Effective Teaching Training	JKUAT	May 2013

D: WORKING EXPERIENCE

Position	Place/Firm	Dates
Director Research & Innovations	Jomo Kenyatta University of Agriculture & Technology	Sep 2022 – July 2023
Senior Lecturer	Jomo Kenyatta University of Agriculture & Technology	June 2019 - to date
Lecturer	Jomo Kenyatta University of Agriculture & Technology	February 2013 – June 2019
Part-time Lecturer	Pan African University (Institute for Basic Sciences, Technology and Innovation)	2017 - to date
Lecturer	Kenyatta University	February 2012 – February 2013
Youth Trainer	Ministry of Youth Affairs	March 2007 – August 2007
Consultant	Advachem E.A. Ltd.	October 2003–August 2008
Consultant	BISVET Ltd.	January 2001–October 2003
Production Supervisor	Meditec Laboratories Ltd.	January 1994 – July 1995

E: RESPONSIBILITIES

- **Reviewer:**

- ✓ National Commission of Science and Technology (NACOSTI) – Kenya
- ✓ National Research Fund (NRF) - Kenya
- ✓ Small Ruminant Research
- ✓ Journal of Agriculture and Rural Development in the Tropics and Subtropics
- ✓ Animal Production Society of Kenya
- ✓ Journal of Agriculture Science and Technology
- ✓ South African Journal of Science
- ✓ International Journal of Tropical Insect Science
- ✓ Poultry Sciences
- ✓ Journal of Insects as Food and Feed (JIFF)
- ✓ Journal of Agriculture and Food Research

- Editorial Board Member [Global Journal of Agricultural Innovation, Research & Development](#)

- Editorial Board Member [The Journal of Agriculture, Science, and Technology \(JAGST\)](#)

- **National Vice-chair: Animal Breeding and Genomics Association of Kenya (ABGAK)**

- **Visiting scholar:**

- ✓ Hamelmalo Agricultural College, Eritrea – 01/05/2014 - 30/06/2014

- **Jomo Kenyatta University of Agriculture and Technology (JKUAT)**

- ✓ Chairman: Technical Committee on Evaluation of 2020-2022 Tenders, Framework Contract and Disposal of University Surplus: Animal Feeds, Veterinary Drugs and Fumigation and Bedbug Chemicals.
- ✓ Member: Research Ethics Review Committee

- **Department of Land Resource Planning and Management JKUAT:**

- ✓ Examinations Coordinator; February 2015 – October 2015
- ✓ Acting Department chair – Various

- **Department of Animal Sciences JKUAT:**

- ✓ Departmental Timetabling Officer; February 2019 – To date
- ✓ Departmental Attachment Coordinator; February 2019 – To date
- ✓ Department of Animal Sciences Management Review Committee Member; August 2018 – To date
- ✓ Examinations Coordinator; October 2015 – February 2019
- ✓ Departmental Website Administrator
- ✓ Acting Department chair – Various

- **Pan African University** (Institute for Basic Sciences, technology and Innovation):
 - ✓ Examiner – variously
 - ✓ Part time Lecturer - August 2016 – To date
- **Masinde Muliro University of Agriculture and Technology**
 - ✓ External examiner Department of Agriculture and Land Use Management (ALUM); December 2019 – To date
- **Community:**
 - ✓ Treasurer St. Patricks Catholic Church (Thika) Teachers Association (CTA); May 2023 – to-date
 - ✓ Vice Secretary St. Patricks Catholic Church (Thika) Teachers Association (CTA); February 2019 – May 2023
 - ✓ Member of The Board of Management - Makuyu Girls High School; March 2019 – March 2025.
 - Chair Education Committee
 - ✓ Member of The Board of Management – Ndera Primary School; June 2019 – June 2025.
 - Member Education Committee
 - ✓ Treasurer: Murang’a County Dairy Value Chain 2019-2023 Strategic Plan Implementation Committee
 - ✓ Committee Member: Conformity of Honey and Apicultural Products to the Global Market. Ministry of Industry, Trade and Co-operatives, State Department for Trade, Kenya Accreditation Service
- **Africa-ai-JAPAN Project:**
 - ✓ Member of Innovation Centre Bio-resources(iCB) sub-task force
 - ✓ iCB website committee member
- **External Examiner (PhD & MSc Theses)**
 - ✓ Pan African University (Institute for Basic Sciences, technology and Innovation) – Animal Biotechnology
 - ✓ University of Nairobi – Department of Animal Production
 - ✓ Egerton University – Department of Animal Sciences

E.1. POSTGRADUATE SUPERVISION

E.1.1. PhD Theses

1. **Geofrey Waweru Nyambura PhD Thesis, Jomo Kenyatta University of Agriculture and Technology.** Effects of Tillage, Mulching and Herbicide Application on Soil Physicochemical and Biological Properties Under a Rain-fed Maize Production System in Laikipia East In Kenya. **IN PROGRESS**

2. **Nancy Wamwitha Ndung'u- PhD Thesis, Jomo Kenyatta University of Agriculture and Technology.** Innovation Processes and Effects of Gendered Participation in the Edible Insect Value Chain Development in Kenya and Uganda. **IN PROGRESS**
3. **Joy Twyla Ayoma Noreh - PhD Thesis, Jomo Kenyatta University of Agriculture and Technology.** Genetic Gains in Dairy Cows through In-Vitro Fertilization in Kenya. **IN PROGRESS**
4. **Bacigale Bashizi Samy - PhD Thesis, Jomo Kenyatta University of Agriculture and Technology.** Feed scope and growth performance of calves fed on different Brachiaria hybrid cultivar-based diets under Maize-cattle production in South-Kivu province, DR Congo. **IN PROGRESS**
5. **Dominic Menjo – PhD Thesis, Jomo Kenyatta University of Agriculture and Technology.** Evaluation of Profitability, Productivity and Fitness for Smallholder Dairy Cattle in High Potential Dairy Regions of Kenya. **THESIS SUBMITTED**
6. **Josep Muchiri Waweru - PhD Thesis, Jomo Kenyatta University of Agriculture and Technology.** Performance of Broilers Fed on Diets Formulated Using Alternative Energy (Cassava) and Protein (Cricket) Sources. **IN PROGRESS**
7. **Tangomo Ngnintedem Armel – PhD Thesis, Pan African University Institute for Basic Sciences, technology and Innovation (PAUISTI).** Phytobiotic and Phytogenic Modulatory Effects of *Dacryodes edulis* leaves, Stem-Barks and Seeds Powder on the Gut Microbiota and Microbiome Diversity of the Cameroon Local Kabir Chicken. **GRADUATED**
8. **Goitom Solomon – PhD Thesis, Jomo Kenyatta University of Agriculture and Technology.** Morphological and Genetic Characterisation of Indigenous Cattle Populations in Eritrea. **GRADUATED**
9. **Onyango Ochieng Bernard – PhD, Thesis, Jomo Kenyatta University of Agriculture and Technology.** Spatio Temporal Influences on Real Estate Value in Mass Valuation of Residential Property: A Case Study of Three Residential Suburbs in Nairobi. **IN PROGRESS**
10. **John Njuguna Mburu – PhD, Thesis, Jomo Kenyatta University of Agriculture and Technology.** Egg Production Indices and Bone Mineralization in Quail (*Cortunix cortunix Japonica*) Fed on *Moringa oleifera* leaf meal. **IN PROGRESS**
11. **Eyob Haile Woldegeorgis – PhD, Thesis, Jomo Kenyatta University of Agriculture and Technology.** Determining nutritive value of crop residues and agro-industrial by-products and improving their utilization in small ruminant nutrition in Eritrea. **GRADUATED**
12. **Ng'anga Ruth Wambui – PhD, Thesis, Kenyatta University.** Effectiveness of farmer field schools in enhancing adoption of agroforestry technologies by smallholder farmers in Gatundu, Kiambu, County. **IN PROGRESS**

E.1.2. MSc. Theses

- 1 Rotich Kiplangat Victor - MSc., Thesis, JKUAT University.** Impact of Black soldier fly Larvae on growth performance, haematological parameters, and gene expression in broiler chicken. **IN PROGRESS**
- 2 Martin Kiiru Kimani - MSc., Thesis, JKUAT University.** Protein and Carbohydrate Fractionation of Feed Ingredients and Compounded Feeds for Dairy Cattle Production in Kiambu County, Kenya. **IN PROGRESS**
- 3 Mercy Wangui Kariuki - MSc., Thesis, JKUAT University.** Use of Black Soldier Fly Larvae as an Alternative Protein Source in Fish Diets for Nile Tilapia. **IN PROGRESS**
- 4 Edwin Nderitu Mathai - MSc., Thesis, JKUAT University.** Performance and Profitability Analysis of Nile Tilapia (*Oreochromis niloticus*) Fed on Black Soldier Fly (*Hermetia illucens*) Larvae as Protein Source in Kenya. **IN PROGRESS**
- 5 Mohamed Dere - MSc., Thesis, JKUAT University.** Characterization of livestock production systems in Isiolo County, Kenya. **IN PROGRESS**
- 6 Andrew Webala Wanyama - MSc., Thesis, JKUAT University.** Performance of Broiler Chicken Fed on Diets Formulated Using Desert Locust (*Schistocerca Gregaria*) Protein. **IN PROGRESS**
- 7 Mutisya Mary Muoti - MSc., Thesis, JKUAT University.** Evaluation of growth performance, carcass traits and cost implications of broiler chicken fed on black soldier fly larvae and Desmodium based diets **THESIS SUBMITTED**
- 8 Diana Wanda Odinya - MSc., Thesis, JKUAT University.** Acceptance of Insect-Cassava based Livestock Feed Ingredients among Smallholder Farmers in Murang'a County, Kenya. **GRADUATED**
- 9 Barwani Kichochi Didier - MSc., Thesis, JKUAT University.** Lactation Performance of Crossbred Dairy Cows Fed on Pastures Supplemented with Browse Forages Available in Tanganyika Province, Democratic Republic of Congo. **GRADUATED**
- 10 Mahugnon Santoze Adido Berryl Adhiambo – MSc., Thesis, Pan African University Institute for Basic Sciences, technology and Innovation (PAUISTI).** Genetic Characterization of North Eastern Benin Cattle Breeds. **GRADUATED**
- 11 Berryl Adhiambo – MSc., Thesis, JKUAT University.** Effect of Low Tannin White Sorghum Based Diets on Broiler Meat and Layer Egg Nutritional and Sensory Properties. **GRADUATED**
- 12 Amayi Alex – MSc., Thesis, Egerton University.** Optimising breeding strategies incorporating risk, diseases resistance and production preferences in dairy goats for low-input smallholder farmers in Kenya. **GRADUATED**
- 13 Moses Mutugi Gikunju– MSc., Thesis, Eldoret University.** Evaluation of breed improvement programme for indigenous chicken in Kenya. **GRADUATED**

E.2. THESIS EXAMINED - INTERNAL

S. No.	Name	Degree	Title	Year
1	Chelang'a Kipkorir Philemon	PhD	Mobile Phone Technology Access and Livestock Markets Linkages in the Pastoral Drylands of Kenya	2023
2	Eregae Ekuwom Justus	PhD	Economic of Ecosystem Services (ES) within selected Water Catchment Ecosystems in Kenya	2023
3	Ednah Mutindi Masila	MSc.	Phenotypic and Genetic Diversity among Galla Goats from Selected Regions in Kenya Using Mitochondrial DNA and HSP70 Gene Polymorphism	2023
4	Kiiru Samuel Maina	MSc.	<i>In vitro</i> Protein Digestibility and Textural Properties of Extrusion Texturized Cricket Soy Meat Analogues	2020
5	Festus Kiprono Mutai	MSc.	Morphological Characterisation, Genetic Polymorphism in Myostatin and Growth Hormone Receptor Genes in Domesticated Rabbits in Kenya	2018
6	Joyce Janet Wangui Macharia	MSc.	Phenotypic characterisation and functional polymorphism at prolactin and VIPR1 genes in minor poultry species from Western Kenya	2018
7	Mutua Jane Kavata	MSc.	Evaluation of the Nutritional and Antimicrobial Characteristics of Kernel Oil and Peel of Local Mango Varieties and their Potential Incorporation in a Functional Bread Product	2017
8	Ogada Stephen Omondi	MSc.	Assessing Poultry Production Through Cross-Sectional Survey and Genetic Characterisation of <i>VIPR-1</i> and <i>GHR</i> Genes in Poultry Populations of Kenya	2017
9	Kukom Edoh Ognakossan	MSc.	Assessment of Rodents' Postharvest Losses in On-farm Maize Storage in Kenya	2017
10	Angela Aluko	MSc.	Probiotic viability and storage stability of yoghurt enriched with baobab pulp (<i>Adansonia digitata</i>)	2017
11	Ogeya Fredrick Odoyo	MSc.	Modeling the Distribution and Crop Loss Associated with Bacterial Wilt of Tomatoes Using Binary Logistic Models	2016
12	Julius Mwangi Kinuthia	PhD	Use of forensic DNA technology in the conservation of elephants (<i>Loxodonta Africana</i>) in Kenya	2015

E.3. BOARD OF EXAMINERS MEMBER AND/OR THESIS CORRECTION SUPERVISOR - INTERNAL

S. No.	Name	Degree	Title	Year
1	Abraham Mayoke	PhD	Phylogenetic Analysis of Palpalis Group Tsetse Flies And Population Genetic Studies of <i>Glossina Fuscipes</i> (S.L.) in Congo Brazzaville	2021
2	Geoffrey Ochieng' Otieno	PhD	Smallholder Dairy Farmers Typologies, Collective Action and Commercialisation in Kenya	2020
3	Jean De Dieu Baziki	PhD	Development of A Monoclonal Antibody-Based Enzyme Linked Immunosorbent Assay for Quality Control of MCCP Protein in Contagious Caprine Pleuropneumonia Vaccine	2019
4	Irene Awino Onyango	PhD	Varroa Mites' Genetic Diversity, Bacterial Brood Infections and Viruses in Managed Honeybee Colonies and Beekeepers' Awareness on Colony Health in Kenya	2019
5	Mesfin W. Tenagashaw	PhD	Development and evaluation of complementary foods from a composite of teff, soybean and orange-fleshed sweet potato	2017
6	Alex Karuiru Ndiritu	MSc	Physical, chemical and functional characterization of edible cricket (<i>Acheta domestica</i>) protein concentrate	2017

E.4. THESIS EXAMINED - EXTERNAL

S. No.	Name	Degree	Title	University*	Year
1	Alayu Kidane Solomon	PhD ¹	Breed specific differences in spermatozoa transcriptomes and polymorphism of <i>BMP15</i> and <i>GDF9</i> genes in Ethiopian indigenous sheep	PAUSTI	2021
2	Dominic Lado Marino Gore	PhD	Reproductive Performance and Genetic Response to Selection of Dairy Goats in Kenya	Egerton University	2021
3	Musembi Lilian Mutheu	MSc.	Evaluation of Rumen Microbiota and the Associated Milk Composition Profiles of Crossbred Dairy Cattle	UoN	2021
4	Wanjahi Rimui Njau	MSc.	Genetic Diversity of the Major Histocompatibility Complex in Local Chicken Ecotypes in Kenya	UoN	2021

S. No.	Name	Degree	Title	University*	Year
5	Patrick Bisimwa Ntagereka	PhD	Genetic Diversity of African Swine Fever Virus and Immunogenetic Markers for Tolerance in Pigs from South-Kivu, Democratic Republic of Congo	PAUSTI	2020
6	Daniel Comboni Victor Tarbal	MSc.	Evaluation of Genes Associated with Mastitis in Crossbred Dairy Cattle	UoN	2020
7	Goitom Kesete	MSc.	The effect of supplementing a layer ration with different levels of Duckweed on egg production of the White Leghorn hens	Hamelmallo College, Eritrea	2014

* PAUSTI; Pan African University Institute for Basic Sciences, Technology and Innovation, UoN; University of Nairobi

¹Proposal examination

F: PROFESSIONAL ORGANISATIONS MEMBERSHIP

Member of Animal Production Society of Kenya

Member of Animal Breeding and Genomics Association of Kenya

G: PROFESSIONAL ENGAGEMENT

Year	Assignment	Organisation*
2023	Conference Organizing Committee Co-Chair: 17 th JKUAT Scientific, Technological and Industrialization Conference, 23-24 March, 2023	JKUAT
2022	Session Chair: Agricultural Sciences and Technologies Session Chair during the 16 th Edition of the JKUAT Scientific, Technological and Industrialization Conference	JKUAT
2020	Select member of a team of researchers developing institutional funding proposals aimed at supporting the implementation of the Big Four Agenda of the Governemnt of the Republic of Kenya	JKUAT
2020	Overseeing the production (formulation and processing) of feeds for JKUAT livestock farm	JKUAT
2017	Review of the Newton Utafiti Fund Programme Funding Proposals Submitted to The British Council and NRF	The British Council and NRF
2017	Review of the Infrastructure Funding Proposals Submitted to NRF	NRF
2016	Review of the South Africa –Kenya Joint Science & Technology Research Funding Proposals submitted to NACOSTI	NACOSTI

Year	Assignment	Organisation*
2023	Conference Organizing Committee Co-Chair: 17 th JKUAT Scientific, Technological and Industrialization Conference, 23-24 March, 2023	JKUAT
2016	Review of the PhD, MSc and Innovation Funding Proposals Submitted to NACOSTI	NACOSTI
2016	Development of an MSc. ELearning-Module in Livestock Production System	KU- DSVOL
2015	Review of the Kenya Livestock Insurance Design Tool: Appointed to Review the Tool Developed Collaboratively by The World Bank Group (WBG), the International Livestock Research Institute (ILRI), and Financial Sector Deepening (FSD) for the Ministry of Agriculture, Livestock and Fisheries of Kenya	WBG
2015	Review of the Kenya Veterinary Policy	APSK
2015	Development of a BSc. ELearning Module in Aquatic Resource Management	KU- DSVOL
2007	Development of Curriculum for Youth Enterprise Development in Kenya	UNDP

*JKUAT; Jomo Kenyatta University of Agriculture and Technology, WBG; The World Bank Group, APSK; Animal Production Society of Kenya, UNDP; United Nations Development Programme, KU- DSVOL; Kenyatta University's Digital School of Virtual & Open Learning; NACOSTI; National Commission for Science, Technology & Innovation, NRF; National Research Fund of Kenya

H: CONSULTANCIES

Year	Task	Client*
2024	Lead Consultant: Delineation of Unit Areas of Insurance (UAIs) to Support DRIVE Project Design in Ethiopia, Kenya and Somalia (<i>Validation of IBLI and Dissemination Component</i>)	ZEP-RE/WORLD BANK
2023	Lead Consultant: Staff-Training and Capacity Building in Modern Research Methodologies	REREC
2022	Lead Consultant: Production of Black Soldeir Fly (BSF) as an alternative source of protein for the local chicken for increased productivity in Kiambu County	Kiambu County
2021	Lead Consultant: Formulation of different stock diets using locust meal. Broiler feeding trial using the locust meal as a protein source. The assignment involved use of locust meal to formulate and carry out broiler feeding trials to determine the suitability of locust meal in replacing soya, omena and other oil crops by-products in production of broiler feeds.	The BUG Picture
2021	Lead Consultant: EU Project: Building Drought Resilience in Isiolo County Through Sustainable Livelihoods: NO: FED/2019/159965-4/11 – Livestock Population Census. The project involved counting of all livestock in 10 wards in Isiolo County, mapping resources that determine the livestock movements through seasons, value chain analysis and identification of challenges and opportunities in ASALs areas.	E4Impact for EU

Year	Task	Client*
2024	Lead Consultant: Delineation of Unit Areas of Insurance (UAI) to Support DRIVE Project Design in Ethiopia, Kenya and Somalia (<i>Validation of IBLI and Dissemination Component</i>)	ZEP-RE/WORLD BANK
2023	Lead Consultant: Staff-Training and Capacity Building in Modern Research Methodologies	REREC
2021	Lead Consultant: EU Project: Support for Resilience for Sustainable Livelihoods in West Pokot County NO: FED/2019/409-172 – Livestock Population Census. The project involved counting of all livestock in 10 wards in West Pokot County, mapping resources that determine the livestock movements through seasons, value chain analysis and identification of challenges and opportunities in ASALS areas.	E4Impact for EU
2020	Lead Consultant – Feasibility study on establishment of a poultry hatchery and breeding stock in the Chicken Value Chain. The exercise involved data (production, market and marketing) collection to determine the viability of establishing and running a chicken hatchery and breeding stock breeding by Murang’a Poultry Cooperative Society	Murang’a Poultry Cooperative Society Limited; NARIGP Murang’a County
2020	Lead Consultant – Feasibility study on establishment of a commercial poultry feeds factory in the Chicken Value Chain for Murang’a Poultry Cooperative Society. The exercise involved data (production, market and marketing) collection to determine the viability of establishing and running poultry feeds business in the county.	Murang’a Poultry Cooperative Society Limited; NARIGP Murang’a County
2020	Lead Technical Person – Selection of Service Provider for the Chicken Value Chain. The exercise involved evaluating, interviewing and awarding contracts to service providers selected by the county government through the GARIGP project	Murang’a Poultry Cooperative Society Limited; NARIGP Murang’a County
2020	Training in Dairy Production	Green to Grow Project
2017	Development of Livestock Value Chain Handbook	KCB

*REREC; Rural Electrification & Renewable Energy Corporation, KCB; Kenya Commercial Bank, NARIGP; National Agricultural and Rural Inclusive Growth Project, EU; European Union, IBLI; Index Based Livestock Insurance, **DRIVE**; De-Resking, Inclusion and Value Enhancement of Pastoral Economies in the Horn of Africa

I: FUNDED PROJECTS

S. No.	Role	Year	Title	Funding Agency ¹	Funding (US \$) ²
1.	PI	2022-2023	Yes; Protein and energy (fat) from nonfood grade potatoes and waste from food grade processing	African-ai-Japan Project	6,000.00
2.	PI	2020-2023	Climate Responsive Low-Input Grazed Production Systems Project for ASALS in Kenya (CRASALS)	KALRO – KCSAP Project	49,806.22

S. No.	Role	Year	Title	Funding Agency ¹	Funding (US \$) ²
3	Co-PI	2020-2025	Climate smart potato production and consumption for improved nutrition and better health in Kenya	African-ai-Japan Project	200,000.00
4.	PI	2020-2021	Integrating livestock production in the potato value chain for higher productivity and profitability	African-ai-Japan Project	5,998.62
5.	Co-PI	2020-2021	Validation of insect based protein rich feeds for enhanced nutrition and health of fish in Kenya (INSProFEED)	KALRO – KCSAP Project	184,999.50
6.	Co-PI	2020-2021	An integrated agri-energy system for sustainable banana farming for improved livelihoods of smallholder farmers in Kenya	KALRO – KCSAP Project	220, 028.87
7.	PI	2018-2021	Mass production and utilization of edible insects and cassava meal for feed security and improvement of livelihood for smallholders farmers in Kenya	NRF-Kenya – Multi-disciplinary Project	127,000.00
8.	PI	2018-2021	Enhancing Cassava Value Chain: Use of Cassava Meal in Pig, Broiler and Dairy Rations	JKUAT Research Funds	45,000.00
9	Co-PI	2017-2019	Productivity and profitability of smallholder dairy goat systems in Kiambu County, Kenya	Kenyatta University VC Research Grant	8,000.00
10	PI	2017-2018	Enhancing Food and Nutritional Security in Kenya and Benin: Production and Products Value Chain in Dairy Goat	African-ai-Japan Project	9,000.00
11	Co-PI	2016-2019	Conservation and utilisation of Oryx as an emerging livestock in arid and semi-arid areas in Kenya	JKUAT Research Funds	45,000.00
12	PI	2016-2017	Development of Novel Breeding Stock and Fast Growth Rabbit Feed Formulae using locally available raw materials	JKUAT; Innovation Fund	13,000.00
13	PI	2016-2017	Development of Novel Breeding Stock and Fast Growth Rabbit Feed Formulae using locally available raw materials (Pilot Run)	JKUAT; In-country	3,000.00
14	Co-PI	2015-2017	Development and evaluation of sweet sorghum (<i>Sorghum bicolor L. Moench</i>) grain as an alternative energy source in chicken feed formulae	RUFORUM	64,996.00

S. No.	Role	Year	Title	Funding Agency ¹	Funding (US \$) ²
15	Co-PI	2014-2016	Morphological and genetic characterisation of indigenous cattle populations in Eritrea	JICA	41,870.00
16	PI	2007-2011	Managing climatic variability in high performance dryland sheep production systems.	AGMARDT	80,000.00

*KALRO; Kenya Agricultural & Livestock Research Organisation, KCSAP; Kenya Climate Smart Agriculture Project, JICA; Japan International Cooperation Agency, AGMARDT; Agricultural & Marketing Research & Development Trust, RUFORUM; Regional Universities Forum for Capacity Building in Agriculture; JKUAT; Jomo Kenyatta University of Agriculture and Technology, NRF; National Research Fund – Kenya, VC; Vice Chancellor.

²Approximate Exchange Rate; US\$1 = Kes 100

J: PRESS RELEASE

Gicheha M.G. 2022. Appointed Director of Research and Innovation.

<https://www.jkuat.ac.ke/dr-mathew-gicheha-appointed-director-of-research-and-innovation/> September 2022.

Gicheha M. G. 2021: - Smart Money, Plague to Profits: Turning locusts into animal feed and fertilizer. <https://www.bbc.co.uk/programmes/p09js460>. BBC World Service TV | 27 May 2021

Gicheha M. G. 2021: From plague to promise: How insects can revolutionize our food systems. <https://grist.org/fix/from-plague-to-promise-how-insects-can-revolutionize-our-food-systems/>

Gicheha M. G. 2021: Unique Solutions: Transforming pests into profit. <https://www.hoganlovells.com/en/blogs/the-a-perspective/unique-solutions-transforming-pests-into-profit>. Blog: The A Perspective | 03 May 2021

Gicheha M. G. 2021: Farmers fight back - locust swarms harvested for animal feed. <https://www.africanews.com/amp/2021/03/10/farmers-fight-back-locust-swarms-harvested-for-animal-feed/>. Africanews, March 10 2021.

Gicheha M. G. 2020: Survival tips for farmers as milk prices go down. The Farmers Magazine, January 2020; a publication of Standard Newspaper. <https://www.farmers.co.ke/article/2001353986/survival-tips-for-farmers-as-milk-prices-go-down>. The Standard Newspaper,

Gicheha M. G. 2018: Harsh Weather: Our farmers need answers. Saturday Standard. In: The Smart Harvest Magazine, June 2nd 2018. Pp 26.

K: PUBLICATIONS

I.1. SCIENTIFIC JOURNAL ARTICLES

Leonard K., Ronoh E.K., Ondimu S. N., Kinyuru J. N., **Gicheha M.G. 2024.** Effects of Temperature Variation on Yield and Quality of Field Crickets (*Gryllus bimaculatus*) and Black Soldier Flies (*Hermetia illucens*). *Journal of Agriculture, Science and Technology*, **23:1–19**. <https://doi.org/10.4314/jagst.v23i6.1>

- Gicheha M.G.**, Mwash V., Mbindyo P., Maina R.A., Mugodo C. **2023**. Role Of Research And Innovation On Sustainable Development. *Journal of Agriculture, Science and Technology*, **22:1-3**. <https://doi.org/10.4314/jagst.v22i1.1>
- Gicheha M.G.**, Osuga, I. M., Maindi, C. N., Mwash V. **2023**. Constraints and Opportunities in Smallholder Dairy Goat Production Systems in the Tropics *Journal of Agriculture, Science and Technology*, **22: 83-99**. <https://doi.org/10.4314/jagst.v22i2.7>
- Barwani D.K., Maindi, C. N., **Gicheha M.G.**, Osuga I.M. **2023**. Smallholder Cattle Farmers' Perceptions, Adoption Potential and Utilisation of Trees and Shrubs as livestock feeds in the Eastern Democratic Republic of the Congo. *International Journal of Agricultural Sustainability* **21: 1-15**. <https://doi.org/10.1080/14735903.2023.2219910>
- Barwani D.K., Bacigale S.B., Kibitok N.K., Webala A.W., **Gicheha M.G.**, Katunga D.M., Osuga I.M. **2022**. Nutritional Characteristics of Eight Trees and Shrubs Used as Livestock Feeds in the Eastern Democratic Republic of the Congo. *Livestock Research for Rural Development* **34 (10) 2022**
- Gicheha M.G.**, Kinyuru J.N. **2022**. Future Food Systems. *Journal of Agriculture, Science and Technology*, **21: 1-3** <https://doi.org/10.4314/jagst.v21i2.1>
- Wanda Diana, Ateka Josiah, Mbeche Robert, **Gicheha Mathew** **2022**. Smallholder farmers' intention to use insect-based feeds in dairy cattle diet in Kenya. *International Journal of Tropical Insect Science* <https://doi.org/10.1007/s42690-022-00891-7>
- Geoffrey Ochieng Otieno, **Gicheha Mathew** **2022**. A Holistic Review of the Kenyan Dairy Sector: Evidence for Transformative Interventions. *Advances in dairy Research*, **9:1**. <https://www.longdom.org/open-access/a-holistic-review-of-the-kenyan-dairy-sector-evidence-for-transformative-interventions.pdf>
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1.4. REPORTS

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Gicheha M.G., Obiero C., Kigomo M., Mburu D., Kimenye D. and Nyangau W., **2021**. *Support to Resilience for Sustainable Livelihoods project in West Pokot County: - Livestock Population Census Report*, [E4Impact](#), May **2021**, Nairobi, Kenya.

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L: COMPUTER SKILLS

Application Packages	MS-DOS, Ms-Word, Pagemaker, Ms-Excel, Ms-Access, Internet
Programming Languages	Fortran, C#, C++, Python, Borland Delphi, MatLab
Application Software	Microsoft Visual Studio 2008, Dundas Chart for ASP.NET, Dundas Chart for Windows Forms, SPSS, SAS, Quick Books, SIP

M: HOBBIES

Table tennis, Badminton, Soccer

N: REFEREES

1. Prof. Tony Bywater (Ph.D. Supervisor)
Agriculture and Life Sciences Division
PO Box 84 Lincoln University
Lincoln 7647, New Zealand
Email: Tony.Bywater@lincoln.ac.nz
Ph: 64 3 325 3803 extn 8338
Fax: 64 03 325 3851
2. Prof. Grant Edwards (Ph.D. Supervisor)
Vice-Chancellor,
Lincoln University,
PO Box 84 Lincoln University
Lincoln 7647, New Zealand
Email: edwardsg@lincoln.ac.nz

Ph: 64 03 325 2811 extn 8398

Fax: 64 03 325 3851

3. Prof. Dr. Alexander, K. Kahi , Ph.D., (MSc. Supervisor)
Deputy Vice Chancellor (Academic Affairs)
Egerton University,
P.O. Box 536, 20107 Njoro, Kenya
E-mail: alexanderkahi@yahoo.com
Tel.: 0722-709-215

4. Prof. Bockline O. Bebe, Ph.D., (MSc. Supervisor)
Associate Professor,
Department of Animal Sciences,
Egerton University,
P.O. Box 536, 20107 Njoro, Kenya
E-mail: obebeb@yahoo.com
Tel.: 0721-853-999

5. Prof. Isaac Sanga Kosgey, Ph.D.
Vice-Chancellor,
Moi University,
P.O Box 3900-30100 Eldoret
Uasin Gishu County, Kenya
E-mail: isaac_kosgey@yahoo.co.uk
Tel: 0722-962-335

Signature:

A handwritten signature in blue ink, appearing to read 'Isaac Sanga Kosgey' with a circular flourish above the name.

Date: 1st October, 2021