

ACADEMIC STAFF

1.1 Personal Profile

1.1.1 Personal Details

Name: Namikoye Everlyne Samita

PF. No.: 9648

Department: Agriculture Science and Technology

Designation: Lecturer

Email: namikoye.samita@ku.ac.ke

Area of Specialization: Agricultural Entomology/ Biologist and Minor in Crop Pathology

Professional Summary

A seasoned Agricultural Entomologist and Lecturer with extensive expertise in Climate-Resilient Agriculture, Integrated Pest Management, and Crop Pathology. Passionate about advancing sustainable agricultural practices through innovative research and teaching. Experienced in developing and delivering comprehensive curricula that equip students with practical knowledge and skills in agricultural entomology and pest management. Possesses a strong research background in agricultural entomology, focusing on integrated pest and vector management for key challenges such as fall armyworm, locusts, and maize lethal necrosis disease vectors. Published researcher with a focus on pest and vector management, insect-based feed solutions, and the safe use and management of pesticides. Actively engaged in industry collaborations to drive the adoption of climate-resilient food systems and improve agricultural productivity. Dedicated to mentoring the next generation of agricultural scientists and contributing to the development of sustainable agriculture.

Research Interests:

Leadership | Curriculum Development | Teaching | Academic Administration | Research & Publication | Mentorship & Student Support | Postgraduate Supervision | Community Engagement | Strategic Planning | Agricultural Entomology | Pest & Vector Management | Crop Pathology | Climate Change | Ecology | Partnerships Management | Stakeholder Engagement | Sustainable Agricultural Practices | Food Security | Board Support | -

Google Scholar: <https://scholar.google.com/citations?hl=en&user=avEmHCoAAAAJ>

ORCID ID: <https://orcid.org/0000-0003-3399-1616>

1.1.2 Academic & Professional Qualifications

**Academic
Qualifications
Postgraduate**

Highest Academic qualification: PhD
Year: 2018

Awarding Institution: Kenyatta University

Area of specialization: Agricultural Entomology; Management of vectors (*Frankliniella williamsi* and *Rhopalosiphum maidis* of Maize lethal Necrosis disease

**Academic
Qualifications
Postgraduate**

Year : 2017

Award: Postgraduate Certificate: “Science and Leadership for Transforming Institutions

Awarding Institution: Swedish University of Agricultural Sciences and the University and Dar es salaam.

**Academic
Qualifications
Postgraduate**

Year: 2011

Award: MSc in Agricultural Entomology

Awarding Institution: Kenyatta University

Area of specialization: Use of Botanical pesticides and natural enemies in the control of *Liriomyza huidobrensis*

**Academic
Qualifications
Undergraduate
Training**

Year: 2007

Award: Bachelor of Education Sciences (Second Class Upper)

Awarding Institution: Kenyatta University

Area of specialization: Biology and Chemistry

Tertiary College

1997

Award: Certificate in Primary Teaching (Distinction (10 points)

Awarding institution; Kamwenja Teachers college

Secondary School

1994

Award: Kenya Certificate of Secondary Education

Awarding Institution; Butere girls High School

1.1.3 Employment History

**Employment
experience**

Employer: Kenyatta University

Year: 2018 to Current

Position /Designation : Lecturer

Responsibility: Research, Teaching, mentoring and postgraduate supervision

**Employment
experience**

Employer: Kenyatta University

Year: 2014 to 2018

Position Designation: Tutorial Fellow

4th-year

4th year projects

Employer: Teachers Service Commission

Year: 1997 to 2013

Position /Designation : Teacher

Responsibility: Teaching and mentoring

1.1.3 Achievements

- Currently, coordinating the Post graduate Board of studies in successfully and prompt execution of the duties and activities at the Department. Most of the students including the old DSVOL students have been motivated in presenting their work
- Acted as the School Postgraduate Board of studies Chair for a period of 6 months during the Transition period when School of environment and Agriculture merged
- Trained both staff and students on the use of E-learning and the Kusoma platform for the purposes of carrying out successful classes and learning.

- d. Trained Module uploaders and Co-ordinated the writing, vetting and uploading of the blended modules in the School of Agriculture.
- e. Successfully Coordinated career days for the School of Agriculture and carried out exhibitions as well as sensitizing High schoolers and the Community on why Kenyatta University is the best.
- f. Front runner in field attachment and internship placement of students in Agricultural-related institutions around the Country.
- g. Student mentorship both at the undergraduate and post-graduate levels.
- h. Successfully represented the University at local and international conferences and seminars in research dissemination.
- i. Front runner in the resurrection and formation of the Entomological Society of Kenya (**ESK**). I am the current Treasurer of the ESK as well as the African Association of Insect Scientists (**AAIS**).
- j. Participated in the validation of the Go Micro Artificial intelligent gadget for the fall armyworm Identification
- k. Reviewed more than 20 manuscripts and processed more than 30 manuscripts as the Managing Editor for the International Journal of Topical insect Science (**JTIS**)
- l. Reviewer for the Plant Health Inspectorate Services and Biocontrol dossiers.
- m. Applied the Knowledge from the training on “An introduction to virus and vector diagnostics” held at the BecA-ILRI Hub in teaching and training my students.
- n. Supported the Initiative of Postgraduate students’ empowerment while serving in the Departmental Board of Postgraduates Studies.

1.2 Publications

1.2.1 Referred Journals

- Muthama, E, **Samita, N. E**, Dharani, N. and Rebecca Karanja (2024). Enhancing Climate-smart Agricultural Practices. A focus on the Production of African indigenous vegetables and Pulses in Kenya. International Journal of Agricultural Technology 2024 4(1).
- Muhorakeye, M.C., **Namikoye, E.S.**, Khamis, F.M. *et al*. Biostimulant and antagonistic potential of endophytic fungi against fusarium wilt pathogen of tomato *Fusarium oxysporum* f. sp. *lycopersici*. *Sci Rep* **14**, 15365 (2024). <https://doi.org/10.1038/s41598-024-66101-1>.
- Genga, O. C., **Samita, N. E.**, Kahuthia-Gathu, R. and Kioko, E. N. (2023). Biology of the Endemic Endangered Swallowtail Butterfly, *Papilio desmondi teita* (Lepidoptera: Papilionidae), on Wild Citrus Species in Taita Hills, Kenya. *Psyche: A Journal of Entomology*, 2023. <https://doi.org/10.1155/2023/5538627>.
- 2. Genga, O. C., **Samita, N. E.**, Kahuthia-Gathu, R. and Kioko, E. N. (2023). Larval ecology and development of swallowtail butterfly, *Papilio nireus* (Lepidoptera: Papilionidae) on wild citrus species (Rutaceae) in Kenya. *Biologia*, 1-18. <https://doi.org/10.1007/s11756-023-01491-7>
- Nduta A. Waithaka, Muo Kasina, **Namikoye E Samita**, Mary M Guantai, Evanson R Omuse, Nadia K Toukem, H Michael G. Lattorff, Elfatih M Abdel-Rahman, Marian Adan, Samira A Mohamed, Thomas Dubois (2023). Interactions between integrated pest management, pollinator supplementation, and normalized difference vegetation index in pumpkin, *Cucurbita maxima* (Cucurbitales: Cucurbitaceae), production, *Environmental Entomology*,,, nvad035, <https://doi.org/10.1093/ee/nvad035> .
- **Dennis A. Wakhungu, Everlyne S. Namikoye, H. Michael G. Lattorff** (2022). Foraging range of an African stingless bee, *Hypotrigona gribodoi* (Apidae: Meliponini) <https://doi.org/10.1111/aje.13068>
- Geoffrey N. Anyanda, Anani Y. Bruce, Dan Makumbi, Monday Ahonsi, Ruth Kahuthia-Gathu, **Samita E. Namikoye**, Yoseph Beyene, B. M. Prasanna (2022). Reproductive potential of fall armyworm *Spodoptera frugiperda* (J.E. Smith) and effects of feeding on diverse maize genotypes under artificial infestation. *Frontiers in Insect Science*, September 2022, Sec. Invasive Insect Species <https://doi.org/10.3389/finsc.2022.950815>.
- Muriuki C., Guantai M., **Samita N.**, Mulwa J., Nyamai M. and Kasina M. (2020). Abundance and Diversity of Frugivorous Fruit Flies in Kandara, Murang’a County, Kenya African Phytosanitary Journal <http://africanphytosanitaryjournal.org> ISSN 2617-1856 (Paper) DOI: 10.52855/SLMZ8250 Vol.2, No.1, 2020.

- **Namikoye, E. S., Kinyua, Z. and M. W. Kasina, M. (2020).** “Sampling procedures and action threshold level of vectors of viruses that cause Maize lethal necrosis disease in Kenya (**International Journal of Tropical Insect Science (IF 0.536)**) Pub Date: 2020-06- 17, DOI: 10.1007/s42690-020-00150-7 E. S.
 - **Namikoye, E. S., Kariuki, M. G., Kinyua, Z. M., Githendu, M. W. and Kasina, M. (2018).** Cropping System Intensification as a Management Method against Vectors of Viruses Causing Maize Lethal Necrosis Disease in Kenya. *East African Agricultural and Forestry Journal* Taylor and Francis DOI: 10.1080/00128325.2018.1456298 (Published on 25/06/2022).
- 1.2.2 University Level Scholarly Books
- Modules KST 101; Agricultural Zoology
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- 1.2.3 Patented Invention or Innovations
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- 1.2.4 Tertiary Level Scholarly Books
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- 1.2.5 Book Chapters
Book chapter Publication) Namikoye, E. S., Kariuki, M. G., Kinyua, Z. M., Githendu, M. W. and Kasina, M. (2020). **“Invasive Pest in Africa and their sustainable Management”** Chapter 5. Enhancing Monitoring efficiency and management of vectors of maize lethal necrosis disease causing viruses in Kenya **Springer Publishers)**
- 1.2.6 **Refereed Learning Modules**

KST 101, Agricultural Zoology
- 1.2.7 Reviewed Conference Papers
Namikoye, E. S., Kariuki, M. G., Kinyua, Z. M., Githendu, M. W. and Kasina, M. (2015). Effects of companion crops on population dynamics of maize lethal necrosis disease vectors in Bomet County of Kenya. *Paper KAPAP conference proceedings at KALRO Westlands* 10- 12th June 2015; pp 88-91
- 1.2.8 Secondary School Level Textbooks
- 1.2.9 Short Communication in Journals
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- 1.2.10 Consultancy and Project Reports
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- 1.2.11 **Non - Reviewed Conference Papers**
- Participated in the 19th workshop of the Horticultural Association of Kenya titled, “Determining the potential of decomposed silkworm excreta as a bio-fertilizer on spider plant (*cleome gynandra*) in Murang’a County, Kenya” from 24th to 27th November 2019
 - Participated in the 19th workshop of the Horticultural Association of Kenya titled, Specificity and effects of various lures on fruit fly management in Kandara, Murang’a County, Kenya, from 24th to 27th November 2019

1.2.12 Refereed Exhibitions and Performances

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1.2.13 Other Publications

Participating in radio interviews on the locust invasion Hot 96 (13/01/2020), Capital FM (23/01/2020) and KBC English Service 27/01/2020

<https://wetransfer.com/downloads/3729c97c5344c03202ff6478c6409cf720200113122906/dd6eacc1729b135a4778fe6f95eb1d4520200113122906/110204>

Participating in TV interviews KTN Farmers and Look up TV

TAARIFA KUU: USALAMA WA CHAKULA/ UVAMIZI WA NZIGE <https://t.co/OEqsZy00Vy>
(<https://twitter.com/lookuptv/status/1368592745326022658?s=03>)

<https://www.facebook.com/lookuptv/videos/262152805436299/>

1.2.14 Editorship of a Book or Conference Proceedings

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1.2.15 Scholarly Presentations at Conferences/Workshops/Seminars

- ❖ Seminar on Review Registration Process for Microbial bio control agents in Kenya and identify options to strengthen and improve Pest Management Initiative (Kephis/ PCPB) Held at Qaribu Hotel from 14th to 16th May 2019
- ❖ Attended a training on the *Pesticide Management Initiative East African Region: Kenya* towards contributing to sustainable agricultural production in Kenya through improving plant health, integrated pest management, food safety and reducing the risks of pesticide use on 13th November at Fairview Hotel Nairobi.
- ❖ Workshop for sharing research results on Pollination studies done in Kenya, Tanzania and Ethiopia Organized by Environment for Development in Kenya and Icipe at icipe Kasarani on 17th March 2019.
- ❖ Seminar on Review Registration Process for Microbial bio control agents in Kenya and identify options to strengthen and improve Pest Management Initiative (Kephis/ PCPB) Held at Qaribu Hotel from 14th to 16th May 2019

1.2.16 Book Review Published in Refereed Journals

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1.3 QUALITY TEACHING, LEARNING AND MENTORSHIP

1.3.1 Student Evaluations

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1.3.2 Training in Higher Education

- ❖ Training on “An introduction to virus and vector diagnostics” that was held at the BecA-ILRI Hub, Kenya from 11th to 15th March 2019.
- ❖ Certificate of Competence in Curation, Experimentation, and Empowered Educator in learning for sustainable Development (Extend Africa) by The Commonwealth of Learning in Partnership with Kenyatta University (Digital School)

1.3.3 Ongoing Supervisions

- a. **Musumba, Orinda; Reg No. A144/31032/2015;** Influence of Silicate and Application Methods on the Yield, nutritional quality, pest and pathogens Management in Tomato in Kiambu County (**Thesis writing**)

- b. **Mbau Gladys Wacera, Reg no. A145/OL/NKU/26796/2015;** Arthropod incidences, Management and yield of strawberry (*fragaria*sp.) grown under Hydroponic and Soil cultures in Nyandarua County, Kenya (**Thesis writing**)
- c. **Koech Kiplangat Stanley A145/CE/28712/2015;** Effects of selected micronutrients on Pest and Disease resistance, growth, yield and quality of Tomato plants in Bomet County, Kenya. (**Thesis writing**)
- d. **Anyanda Geoffrey Nyapom, Reg No. A145/25901/2018:** Assessment of yield loss due to Fall Armyworm *spodoptera frugiperda* J.E Smith on Maize varieties *Zea mays* in Kenya. (**Submitted thesis**)
- e. **Elias Mwanja Wafula (BSc.) A144/CE/32560/2017:** Performance of Soybean (*glycine max*) and nitrogen fixation under rhizobium inoculation, phosphorous and potassium Application in Kakamega, county Kenya. (**Resubmitting Proposal Challenge**)
- f. **Chirchir J. Jackline: A145/ 26645/2019:** Population dynamics of *Tuta absoluta* meyrick , *Helicoverpa armigera* Hubner and their associated parasitoids on different Tomato Cultivars in Machakos County, Kenya (**Writing Thesis**)
- g. **Judith A. Onyiego ; A99/20062/2020:** Efficacy and upscaling of the Ocimum species product and its compatibility with *Metarrhizium anisoplae* (Metsch.) Sorok the control of Mango Fruit flies in Makueni and Taita Taveta Counties, Kenya (**Resubmitting Proposal**)
- h. **Marial Makur Zechariah Paweer; A145EA/20596/2020;** Efficacy of fungal isolates on *Trialeurodes vaporarium* vector of infectious and chlorosis viruses of tomato in Kiambu and Kirinyaga Counties, Kenya. (**Presented first progress**)
- i. **Angeline Kalondu Mwova: A145/OL/CTY/20812/2021;** The abundance of insect flower visitors and insect herbivores of wild and domesticated coffee in Taita Hills, Taita Taveta County, Kenya (**Presented first progress**)
- j. **Marie Cecile Muhorakeye: Reg no: A145EA/26521/2019 ;** Efficacy of selected entomopathogenic and endophytic fungi in the management of Late Blight and Fusarium wilt of tomato in Kenya (**Presented 2nd progress**)
- k. **Joseph Mutunga Mulwa; (A99/20769/2022);** Evaluation of Selected IPM Practices against the fall armyworm (*Spodoptera frugiperda*) on maize in Machakos County, Kenya. (**Data collection**)
- l. **Eric Muthama Muia; A145/OL/CTY/20152/2020;** Pest population and yield Dynamics of selected African Indigenous vegetables and Pulses under different Climate Smart Agricultural Practices in Murang'a County, Kenya (**2nd Progress presented**)

1.3.4 Complete Supervision of Postgraduate Students

1.3.4.1 Masters

- a. **Musito James Wafula; Reg No. A144/OL/24907/2011 :** Effects of organic and inorganic mulching on weeds, Diseases, growth and yield of Tomato (*solanum lycopersicum*) in Bungoma County, Kenya (**Graduated**)
- b. **Nduta Alice Waithaka ; Reg no. A145/27782/2018;** On- Farm Integrated Management of Fruit flies (Tephritidae) Infesting Pumpkins (*Cucurbita maxima* Duch.) In Machakos County, Kenya (**Graduating on 15th December 2023**)
- c. **Genga Cramswel Oliver: A145/25177/2018;** Biology and morphometric characterization of swallowtail butterfly, *Papilio desmondi teita* and *Papilio nireus* on wild citrus (Rutaceae) in Ngangao, Taita Taveta County, Kenya. (**Graduating on 15th December 2023**)

1.3.4.2 PhD

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1.4 PROFESSIONAL/CONSULTANCY

1.4.1 Networks/Collaborations

icipe; International Centre for insect Physiology and Ecology

CABI : Centre for Agriculture and Bioscience International
KALRO: Kenya Agricultural and livestock Research Organization
CYMMIT: International Maize and Wheat Improvement Center
NMK: National Museum of Kenya

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1.4.2 Editorial Boards/Referee for professional periodicals

- Reviewer/ Associate Editor with International Journal of Tropical Insect Science (JTIS)
- Reviewer with KEPHIS mainly on registration Procedures of Biological Control Agents

1.4.3 Consulting for international/national boards

- Consultancy at KEPHIS on Biological Control Dossiers

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1.4.5 Consulting for organizations/institutions KEPHIS

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1.4.6 Membership to acad/prof bodies

- Member Women Educationists and Researcher of Kenya(WERK)
- Member, African women in science and Engineering (AWSE)
- Member of Entomological Society of Kenya (**ESK**)
- Member of Horticultural Association of Kenya
- Member of African Association of insect Scientists (AAIS)
- Member of African women in Science and Engineering
- Member Kenyatta University mentorship Programme
- Member Fall Army worm Management Group In Kenya

1.4.7 Any other (Editorship/Peer review, external examiner, etc)

- Journal of Tropical insect Science

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1.5 Administrative and Responsibilities

1.5.1 Recognized university administrative positions

E-learning Coordinator in the School of Agriculture and Enterprise Development

1.5.2 Other responsibilities in the University

- Serving as the Assistant chair Departmental Board of Postgraduate studies
- Coordinator career affairs in the School of Agriculture
- Departmental Digital Coordinator
- Departmental Welfare Coordinator

1.6 Community Engagements and Other Contributions

1.6.1 Research funding

- ❖ **Universities Center of Excellence for Global Food Security and Defense CEGFSD : (USD 40,000)** Strengthening Productivity of Farm Animals, African Indigenous Cereals and Pulses through Upscaling Climate-Smart Technologies, Enhanced Pollination and Value Addition for Improved Resilience and Food Security in Murangá County, Kenya
- ❖ **National Research Fund:** Integrated strategies for enhanced control and surveillance of Desert locusts (*Shistocerca gregaria*) in Kenya Year: 2021 to 2024 – **Kshs 5000000**
Field of Research: Entomology

Role played: Co-Investigator

Status: Ongoing

- ❖ **National Research Fund (NRF)** Propagation of *Ocimum kilimandscharicum*, determination of efficacy against *Anopheles gambiae* ss and formulation of *O. kilimandscharicum* essential oils into jelly and bathing soap mosquito repellent – **Ksh 18,000, 000**
Year: 2020 to 2023

Field of Research: Entomology

Role played: Co-Investigator

Status: Ongoing

- ❖ **Kenyatta University Vice Chancellors grant:** Strengthening Productivity of African Indigenous Vegetables and Pulses through Climate Smart Practices, Enhanced Pollination, and Value Addition for Improved Resilience and Food Security (A case study of Murangá South Sub-County). **Ksh 1,100, 000**
Year: 2021 to 2022

Field of Research: Entomology

Role played: Co-Investigator

1.6.3 Professional Affiliation & portfolios

- Kenyatta University
- Butere girls
- Icipe Alumini
- KALRO

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1.6.4 Recognitions awards and honours

Homeward Bound Scholarship for stem leadership training
IPPC Workin group for curriculum Development for Plant Health
Country Trustee The Bridge International

1.6.5 Any other sub-category

1.7 Referees

Dr. Mwende Ngie

Chairman

Agriculture, science and Technology. Kenyatta University

Email: ngie.mwende@ku.ac.ke

Prof. Saliou Niassy

The Coordinator AU-Inter African Phytosanitary Council

Yaoundé, Cameroon

Email: Niassy.S@africa-union.org

Dr. Muo Kasina

Kenya Agricultural and Livestock Research Organization

National Sericulture Research Centre, Thika

Email: Muo.Kasina@kalro.org

Dr. Komi Fiaboe M- International Institute of Tropical Agriculture IITA- Cameroon

Tel: +254703335220

Email: K.Fiaboe@cgiar.org

