

CURRICULUM VITAE, 2022

Jared Ketiba NGURWE

Department of Biological Sciences

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PERSONAL INFORMATION

Date of birth: 17th October, 1962

Nationality: Kenyan

Languages: English, Kiswahili, Luhya

EDUCATION BACKGROUND

1983-1984: St. Paul's Amukura High School: 'A' Level 1principal, 2subsidiaries

1979-1982: Lubinu Secondary School: 'O' Level, Division II

1972-1978; Shitoto Primary School: Certificate of Primary Education (C.P.E)

PROFESSIONAL TRAINING

Present: Masinde Muliro University of Science and Technology

Doctor of Philosophy in Applied Entomology (ongoing)

Research topic:

'Bee populations, their sources of floral resources for pollination and honey production in the Kakamega Forest agro-ecosystems'

2016: University of Eldoret:

Master of Science in Entomology.

Research topic:

‘Integration of *Allium cepa* aqueous extracts and farmyard manures in the control of *Aphis fabae* and *Tetranychus evansi* infesting *Solanum nigrum* cultivars in western Kenya’

2008-2010: Moi University:

Bachelor of Science (BSc - Zoology option), Second Class, Upper division

Research project: **‘The use of *Allium sativum* (Liliaceae) Extracts in the control of cabbage Aphids (*Brevicoryne brassicae*) on kales’**

1990-1991: The Kenya Polytechnic Nairobi:

Higher Diploma in Applied Biology (Entomology, Plant Pathology and Soil Science option)

Research project: **‘The effects of pH on the distribution of meso- and macro-fauna in some selected soil types in Kenya’.**

Attachment exercises at National Museums of Kenya, Nairobi, January-September, 1991: **Invertebrate Identification Methods with special emphasis on arthropods of economic importance.**

1988-1989: Kenya Polytechnic, Nairobi:

Ordinary Diploma, Applied Biology.

SHORT COURSES/WORKSHOPS/SEMINARS

28th February, 2019

Training on Grand Proposal Writing Workshop held at Masinde Muliro University of Science and Technology

August 2018

Transition Change and Impact Awareness Training for Implementers (Based on ISO 9001-2015) held at Masinde Muliro University of Science and Technology.

5th -9th September, 2016

Training on ‘Principles of plant disease diagnosis and laboratory equipment operations’ at Masinde Muliro University of Science and Technology (MMUST) in Kakamega, Kenya.

23rd – 24th January, 2014

Participated in the ‘University Multiplication Training Workshop on Curriculum Development and Review for Public Universities in Kenya: Implementation and Accreditation’, held at Masinde Muliro University of Science and Technology (MMUST) in Kakamega, Kenya.

13th – 21st December, 2003

Training on research methods in coastal environments: by School of Environmental Studies, Moi University at the coastal station, Malindi.

3rd – 23rd September, 1995

Participated as a technical expert in benthos identification in the second workshop in ‘Tropical River Initiative’, organized by the Austria Academy of Sciences in collaboration with Egerton University, Njoro, Kenya.

9th – 29th November, 1992

Third East African International Course on ‘Taxonomy of insects of importance in agriculture and forestry’ organized by the International Institute of Entomology, in collaboration with the National Museums of Kenya, Nairobi, Kenya.

WORKING EXPERIENCE

2021 to date

Assistant Lecturer, Department of Biological Sciences, Masinde Muliro University of Science and Technology, Kakamega

Duties - Teaching

- Research
- Community outreach

2011 - 2021

Chief Technician grade 12, Department of Biological Sciences, Masinde Muliro University of Science and Technology, Kakamega.

- Supervision of technical activities in the department and laboratory management.
- Designing and development of laboratory protocols, manuals and supervision of practical classes.
- In-charge of departmental practical class time-tabling
- Training of technical staff members.
- Acquisition and preparation of laboratory equipment and teaching materials.
- Assisting in research.

1997 – 2011

Senior technician, Department of Biological Sciences, Moi University, Eldoret.

- Assisting chief technician in supervision and training of technical staff.

- Designing and development of laboratory protocols, manuals and supervision of practical classes.
- Training of technical staff members.
- In charge of technical attachments.
- Collection, fixation and preservation of teaching materials.
- Assisting in research.

2002 – 2004

- Assisted in the setting up of a zoology laboratory and procurement of teaching materials and laboratory equipment for Masinde Muliro University of Science and Technology.
- Was in charge for the setting and running of zoology practical classes in Masinde Muliro University of Science and Technology.

1990 – 1997

Senior technician, Department of Zoology, Egerton University, Njoro.

- Designing and development of laboratory protocols, manuals and supervision of practical classes.
- Training of technical staff members.
- In charge of technical attachments.
- Collection, fixation and preservation of teaching materials.
- Assisting in research.

1986 – 1990

Laboratory Assistant/ Technician, Department of Zoology, University of Nairobi.

- Designing and development of laboratory protocols, manuals and supervision of practical classes.
- Collection, fixation and preservation of teaching materials.
- Development of departmental entomological museum.
- Assisting in research.

TEACHING EXPERIENCE

2016 to date

Department of Biological Sciences, MMUST

1. Invertebrate Zoology
2. Vertebrate Zoology
3. Ornithology and Mammology
4. General Entomology
5. Evolutionary Biology
6. Bushmanship and survival skills

7. Biology Field Course

School of Agriculture and Veterinary Sciences, MMUST

1. Ecology of Inland waters
2. Marine Ecology
3. Apiculture
4. Animal diseases, parasites and health management
5. Livestock Production Systems

2010 – 2013:

Department of Wildlife Management, University of Eldoret

Courses:

1. Wildlife Diseases
2. Basic Mammology
3. Forest Entomology

2010 – 2011

Department of Applied Sciences, Rift Valley Technical Training Institute, Eldoret.

Courses:

1. Entomology
2. Parasitology
3. Animal Physiology and Histology

Laboratory manual preparation

Have prepared practical manuals in Entomology, Histology, Animal Physiology and Aquatic Ecology.

Professional body membership

Entomological Society of Kenya

Other services

1. Presiding officer in the 2017 General Election
2. Management board member, Shitoto Girls' High School
3. Church Elder

PUBLICATIONS

1. **Jared Ngurwe**^{1*} and Gaudencia Kiptoo² (2020) Efficacy of onion (*Allium cepa* Linnaeus) aqueous extracts on non-target attendant ants associated with aphids (*Aphis fabae* Linnaeus) infestation on blacknightshade (*Solanum nigrum* Linnaeus).
2. **Jared K. Ngurwe**, Fredrick MF Wanjala, Dennis MW Ochieno and Gaudencia J. Kiptoo (2019) Efficacy of onion (*Allium cepa*) extracts on the black bean aphids (*Aphis fabae*) and red spider mites (*Tetranychus evansi*) on black nightshade (*Solanum nigrum*) cultivars when planted with different manure regimes
3. **Jared K. Ngurwe**, Fredrick MF Wanjala, Dennis MW Ochieno and Gaudencia J. Kiptoo (2018) Infestation and damage of black nightshade (*Solanum nigrum*) by black bean aphid (*Aphis fabae*) and red spider mite (*Tetranychus evansi*).
4. Rotich Godfrey, C. Oduor, Robert W. Nyukuri, **Ngurwe Jared** and Bii Benard k. (2016) Comparative Efficacy of Varied Concentrations Fipronyl in Termites control on treated sand.
5. G. Kiptoo, M. Kinyua, O. Kiplagat, F.M.E. Wanjala, J.J. Kiptoo, J.J. Cheboi, S.K. Kimno, G. Rotich and **J.K. Ngurwe** (2016) Evaluation of common bean (*Phaseolus vulgaris* L.) varieties for resistance to bean stem maggot (*Ophiomyia spp*) in Kenya.
6. **Ngurwe J.K.**, Wanjala F.M.E, Kirui S.C and Makwali J.A. (2011). Efficacy of *Allium sativum* (Liliaceae) Extracts in Comparison to Conventional Insecticides in Controlling Cabbage Aphids (*Brevicoryne brassicae*) on Kales.