



THE TECHNICAL UNIVERSITY OF KENYA

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| Faculty: | Applied Sciences and Technology |
| School: | Biological and Life Sciences |
| Department: | Applied and Technical Biology |
| Current Designation: | Senior Lecturer, APPLIED AND TECHNICAL BIOLOGY (DATB) |
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| Consultation Hours: | 8.30-5.00PM MON - FRI |



EDUCATION

| LEVEL | QUALIFICATION NAME | INSTITUTION | YEAR |
|----------------------------|------------------------|--|------|
| Doctor of Philosophy (PhD) | GENETICS AND EVOLUTION | UNIVERSITY OF GRANADA(Spain) | 2011 |
| Masters of Science (M.Sc.) | AGRICULTURE | WAGENINGEN UNIVERSITY AND RESEARCH CENTRE(The Netherlands) | 2008 |
| Bachelor of Science (BSc) | AGRICULTURE | EGERTON UNIVERSITY(Kenya) | 2005 |

WORK EXPERIENCE

| PERIOD | INSTITUTION | POSITION |
|---------------------|-------------------------------|-----------------|
| MARCH 2022 - TODATE | TECHNICAL UNIVERSITY OF KENYA | SENIOR LECTURER |
| JAN 2016 - MAR 2022 | TECHNICAL UNIVERSITY OF KENYA | LECTURER |

GENERAL STATEMENT ON RESEARCH AREAS

I have broad research interests in plant ecology and socio-ecological impacts of protected areas. Some of my lines of research include: (1) Plant-herbivore interactions; (2) Effects of global environmental change on plants; (3) Plant-soil feedbacks; (4) Local adaptation in plants; (5) Ecological niche modelling; (6) Soil microbiomes; (7) Governance processes and socio-economic outcome of terrestrial protected areas.

SELECTED PUBLICATIONS

| TITLE | LINK TO PUBLICATION | YEAR |
|--|-----------------------------|------|
| Artificial night-time lighting and nutrient enrichment synergistically favour the growth of alien ornamental plant species over co-occurring native plants | View online | 2023 |
| Older populations of the invader <i>Solidago canadensis</i> exhibit stronger positive plant-soil feedbacks and competitive ability in China | View online | 2022 |
| Native plant species show evolutionary responses to invasion by <i>Parthenium hysterophorus</i> in an African savanna | View online | 2022 |
| Patterns of human-wildlife conflict and management implications in Kenya: a national perspective | View online | 2020 |
| Allelopathic and competitive interactions between native and alien plants | View online | 2021 |
| Suppression of a plant hormone gibberellin reduces growth of invasive plants more than native plants | View online | 2021 |
| Effects of protected areas on welfare of local households: The case of Maasai Mara National Reserve in Kenya | View online | 2020 |
| Allelopathic effects of native and invasive <i>Brassica nigra</i> do not support the novel-weapons hypothesis | View online | 2020 |
| Can polyploidy confer invasive plants with a wider climatic tolerance? A test using <i>Solidago canadensis</i> | View online | 2020 |
| Introduced <i>Brassica nigra</i> populations exhibit greater growth and herbivore resistance but less tolerance than native populations in the native range | View online | 2011 |
| Livelihood impacts and governance processes of community-based wildlife conservation in Maasai Mara ecosystem, Kenya | View online | 2020 |
| An invasive plant provides refuge to native plant species in an intensely grazed ecosystem | View online | 2018 |
| In the presence of specialist root and shoot herbivory, invasive-range <i>Brassica nigra</i> populations have stronger competitive effects than native-range populations | View online | 2017 |
| Invasive plant species are locally adapted just as frequently and at least as strongly as native plant species | View online | 2016 |
| Do invasive alien plants benefit more from global environmental change than native plants? | View online | 2016 |
| Modeling vulnerability of protected areas to invasion by <i>chromolaena odorata</i> under current and future climates | View online | 2015 |
| Applied evolutionary biology could aid management of invaded ecosystems | View online | 2015 |
| Invasion of <i>Brassica nigra</i> in North America: distributions and origins of chloroplast DNA haplotypes suggest multiple introductions | View online | 2015 |
| Evolutionary responses of native plant species to invasive plants: a review | View online | 2013 |
| Exotic vertebrate and invertebrate herbivores differ in their impacts on native and exotic plants: a meta-analysis | View online | 2010 |
| Field parasitism rates of caterpillars on <i>Brassica oleracea</i> plants are reliably predicted by differential attraction of <i>Cotesia</i> parasitoids | View online | 2009 |