

## CURRICULUM VITAE

### 1.1 PERSONAL PROFILE

#### 1.1.1 Personal details

NAME	Dr. Paul Kimata Muoria
Department:	Plant Sciences
Designation:	Lecturer
Email	<a href="mailto:muoria.paul@ke.ac.ke">muoria.paul@ke.ac.ke</a>
Tel	0721-631793
Address	P.O. Box 43844, 00100 Nairobi
Area of specialisation	Ecology and Conservation Biology
Professional/research interests	Ecosystem Services, Ecosystem management, Endangered species conservation and management, climate change
Goggle Scholar:	<a href="#">Paul Muoria</a>
ORCID ID	0000-0002-9412-8245



#### 1.1.2 Qualifications

Academic and professional qualifications

- 2001: PhD in Animal Ecology, Kenyatta University
- 1995: MPhil. In Environmental Studies (Biological Sciences), Moi University
- 1990: Bachelor of Science in Wildlife Management, Moi University

#### 1.1.3 Employment History

- **August 2019** – Present – Chairman, Department of Plant Sciences. Kenyatta University
- **2014 to Date** - Lecturer, Department of Plant Sciences. Kenyatta University
- **February 2012 – August 2014** – Species and Sites Programme Manager, The East African Natural History Society (Nature Kenya)
- **September 2009 - May 2012**: Part-time lecturer, African Nazarene University.
- **September 2011 to May 2012**. Part-time Lecturer, Kenyatta University.
- **June 2006-December 2011**- Scientist/Senior Ecologist, African Wildlife Foundation (AWF), Samburu Heartland
- **November 2001 – June 2006**: Senior Research Scientist, Institute of Primate Research, National Museums of Kenya
- **October 1993- November 2001** – Research Scientist, Institute of Primate Research, National Museums of Kenya
- **September 1990 – October 1991** – Untrained graduate Teacher – Mururia Secondary School

#### 1.1.4 Achievements

- ◆ Authored/co-authored many environmental policy documents
- ◆ Successively implemented/managed research and conservation projects in diverse ecosystems in Kenya
- ◆ Published in peer reviewed journals
- ◆ Conducted many consultancy assignments in the field of environmental management.
- ◆ Taught and mentored many young people in environment sector.

### 1.2 PUBLICATIONS

#### 1.2.1 Refereed Journals

1. Cecilia O. Olima. **Paul K. Muoria**, (2020) Margaret A. Owuor Valuation of harvested goods in Mida Creek with application of the TESSA approach. *WIO Journal of Marine Science* 19 (2) 2020 105-115
2. Hosea Kipkoech Morogo, **Paul K Muoria**, Grace W. Gatheri (2020) Impact On Their Diversity And Abundance In Chemususu Forest, Baringo County, Kenya. *Researchjournali's Journal of Ecology* Vol. 7 | No. 1 February |
3. Dorca Auma Murono, Emily Wabuye, **Paul K. Muoria**, John Otieno Abuto (2018) Distribution of *Parthenium hysterophorus* Linn and its Impacts on Biodiversity in Nyando Sub-County, Kisumu County, Kenya . *European Academic Research* –VI: 1599 – 1622
4. Mariciano Iguna Mutiga, **Paul Kimata Muoria**, Kiplagat Kotut and Hannah Wangari Karuri. (2016). Behavioural patterns and responses to human disturbances of wild Somali ostriches (*Sruthio molybdophanes*) in Samburu, Kenya. *Int. J. of Adv. Res.* 4 (8). 495-502] (ISSN 2320-5407). www.journalijar.com
5. Gordon O. Ocholla, Caleb Mireri, **Paul K. Muoria** (2016) Application of Indigenous Knowledge Systems in Wildlife Management: A Case Study of the Samburu Pastoral Community in Kenya. *International Journal of Applied Science and Technology* Vol. 6, No. 1;72-80 February 2016 <http://www.ijastnet.com/journal/index/809>
6. Paul K. Ntang'ang'a, Fred M. Barasa , Mercy N. Kariuki and **Paul Muoria**. (2016) Trends in forest condition, threats and conservation action as derived from participatory monitoring in coastal Kenya" , *African Journal of Ecology*, 54, 76–86
7. Mark Chandler, Daniel P Bebb Sebastian Castro, Margaret D Lowma, **Paul Muoria**, Nicholas Oguge, and Daniel Rubenstein (2012) **International citizen science: making the local global.** *Front Ecol Environ* 2012; 10(6): 328-331, doi: 10. 1890/110283
8. Geoffrey L. Lelenguyah, Callistus K.P.O. Ogol and **Paul K. Muoria** (2010) Historical distribution and threats to Grevy's zebra (*Equus grevyi*) in Samburu- An indigenous people perspective. *African Journal of Ecology* ([onlinelibrary.wiley.com/doi/10.1111/j.1365-2028.2010.01253.x/abstract](http://onlinelibrary.wiley.com/doi/10.1111/j.1365-2028.2010.01253.x/abstract))
9. **P. K. Muoria**, P. Muruthi, W. K. Kariuki, B. A. Hassan, D. Mijeje and N. O. Oguge (2007) Anthrax outbreak among Grevy's zebra (*Equus grevyi*) in Samburu, Kenya. *African Journal of Ecology*. African Journal of Ecology, Volume 45, Number 4, December 2007, pp. 483-489(7).
10. G. M. Wahungu, **P. K. Muoria**, N. N. Moinde, N. O. Oguge and J. N. Kirathe. (2005) Changes in forest fragment sizes and primate population trends along the River Tana floodplain, Kenya, *African Journal of Ecology* . **43**, 81–90
11. **P. K. Muoria**, Philip Muruthi, Daniel Rubenstein, Nicholas O. Oguge , Elephas Munene (2005) Cross-Sectional survey of gastro-intestinal parasites of Grevy's zebras in southern Samburu, Kenya . *African Journal of Ecology* . 43, 392–395
12. Karere G.M., Oguge N.O.; Kirathe J.; **Muoria P.K.**; Moinde N.N.; Suleman M.A. (2004) Population Sizes and Distribution of Primates in the Lower Tana River Forests, Kenya *International Journal of Primatology* vol. 25, no. 2 :351-365
13. **Muoria, P. K.** , G.M. Karere, N. N. Moinde, M. A. Suleman (2002). Primate census and habitat evaluation in the Tana delta region, Kenya . *African Journal of Ecology* . **41** (2): 157-163.
14. **Muoria P. K.** (2000). Population estimate of elephants in Arabuko-Sokoke Forest . *Pachyderm* .29:48-51
15. **Muoria, P.K.**; Gordon, I., Oguge, N. O. (2001) Seed dispersal by elephants in Arabuko-Sokoke Forest . *Pachyderm* . 30: 75-80.

### 1.2.2 University Level Scholarly books

- **Paul Muoria**, Paul Matiku and Paul Gacheru (2019). Mount Kenya Forest Restoration Strategy (2019-2029). Nature Kenya, Nairobi. <http://naturekenya.org/publications/>

- Odhengo P., Matiku P., **Muoria P. K.**, Nyangena J., Waweru P., Mnyamwezi E., Munguti S., Odeny D., Wahome, K., Ashitiva D., and Nelson P. (2018). Yala Delta Land Use Plan. Siaya and Busia County Governments, Siaya and Busia, <http://naturekenya.org/publications/>
- Odhengo P., Matiku P., **Muoria P. K.**, Nyangena J., Waweru P., Mnyamwezi E., Munguti S., Odeny D., Wahome, K., Ashitiva D., and Nelson P. (2018). Yala Delta Strategic Environmental Assessment. Siaya and Busia County Governments, Siaya and Busia. <http://naturekenya.org/publications/>
- **Paul Muoria**, Paul Matiku, Fleur Ng'weno, Sarah Munguti, Fred Barasa and Washington Ayiimba. (2016) Coping with climate change in Kenya. Policy Guide for Ecosystem based Adaptation for National and County Governments. Nature Kenya, Nairobi. [https://issuu.com/nature\\_kenya/docs/coping\\_with\\_climate\\_change\\_in\\_kenya](https://issuu.com/nature_kenya/docs/coping_with_climate_change_in_kenya) <http://naturekenya.org/publications/>
- Kariuki Nding'ang'a, Charles Musyoki, Fred Barasa, Philista Malaki, **Paul Muoria**, Paul Gacheru, Partrick Malonza and Vincent Muchai (2015) Single species action plan for conservation of Sahalla Caecilian (*Boulengerula Niedeni*): : 2015- 2020. Nairobi: Kenya Wildlife Service.. [https://issuu.com/nature\\_kenya/docs/sagalla\\_caecilian\\_final](https://issuu.com/nature_kenya/docs/sagalla_caecilian_final) <http://naturekenya.org/publications/>
- Kariuki Nding'ang'a, Charles Musyoki, Fred Barasa, Philista Malaki, **Paul Muoria**, Mwangi Githiru, Luca Borghesio and Paul Gacheru. (2015). Action plan for Conservation of Critically Endangered Birds in Taita Hills, Kenya: 2015- 2020. Nairobi: Kenya Wildlife Service. [https://issuu.com/nature\\_kenya/docs/taita\\_thrush\\_taita\\_apalis\\_final](https://issuu.com/nature_kenya/docs/taita_thrush_taita_apalis_final)
- Gereau, R. E., Kariuki, M., Paul K. Nding'ang'a, Werema, C., & **Muoria, P.** (2014). [\*Biodiversity status and trends in the Eastern Arc Mountains and coastal forests of Kenya and Tanzania region, 2008-2013.\*](#) BirdLife International, African Partnership Secretariat.

#### 1.2.10: Key consultancy and project reports

Some reports and Plans submitted to Clients including County Governments and other stake holders since 2014.

1. **Paul K. Muoria**, Paul Gacheru, Paul Matiku, Rob Field, Edward Njagi, Milka Musyoki<sup>2</sup> Martin Kiama, Dickens Odeny, James Mwang'ombe (2019) Ecosystem Service Assessment for the Restoration of Mount Kenya Forest. Nature Kenya. Nairobi.
2. Rob Field, **Paul K. Muoria**, Paul Gacheru, Chris Magin, Paul Matiku, Sarah Munguti, George Odera, Dickens Odeny.(2018). Tana Delta's Community Conserved Area Ecosystem Service Assessment Report. Nature Kenya, Nairobi
3. Nakuru County Government (2018). Nakuru County Climate Change Action Plan (2018-2022).
4. Nandi County Government (2018). Nandi County Climate Change Action Plan (2018-2022).
5. Nature Kenya (2019): Tana Delta Indigenous Community Conserved Area Management Plan, 2019-2029
6. ICE (2017): Workshop report. Protection of water catchment areas and natural resource management., ICE, Thika, Kenya
7. 2016: Oloisukut Community Conservancy Management Plan, WWF, Nairobi, Kenya
8. Paul Muoria., Rob Field, Emily Mateche, Simon Shati, Dickens Odeny (2015)Rapid Assessment of Ecosystem Service provision by Yala Swamp, Western Kenya, Nature Kenya, Nairobi
9. 2015: Aberdare forest ecosystem: environmental & social impact assessment for forest plantation management. NEMA, Kenya
10. 2015: Cherengany forest ecosystem: environmental & social impact assessment for forest plantation management. NEMA, Kenya
11. 2014: Mt Kenya forest ecosystem: environmental & social impact assessment for forest plantation management. NEMA, Kenya
12. 2014: Biodiversity Expert in "Mau forest ecosystem: environmental & social impact assessment for forest plantation management. NEMA, Kenya

13. 2014: Mbooni Sub-County Community's Response to Climate Change through Alternative Livelihood, Zadakta, Nairobi, Kenya

#### **1.2.15: Scholarly presentations at Conferences/Workshops/Seminars (August 2014 – Present))**

1. **Paul Muoria** (8 March 2021) Yala Swamp Land Use Plan and Strategic Environmental Assessment. Presentation to Busia County Members of County Assembly, Busia, Kenya
2. **Paul Muoria** (7 March 2021) Yala Swamp Land Use Plan and Strategic Environmental Assessment. Presentation to Siaya County Members of County Assembly, Siaya, Kenya
3. **Paul Muoria (26 November 2020)**. Tana Delta Indigenous and Community Conservation Area Management (ICCA) Plan, 2019-2029. Presentation to Tana River County Government. Hola, Kenya
4. **Paul Muoria (27 November 2020)**. Tana Delta Indigenous and Community Conservation Area Management (ICCA) Plan, 2019-2029. Presentation to Lamu County Government. Lamu, Kenya
5. **Paul Muoria** 2019: Yala Swamp Land Use Plan - Presentation to Siaya and Busia County Governments. Siaya, Kenya
6. **Paul Muoria**. Trends and future developments in wetland management – Yala Swamp, Kenya. Regional training on Nile Ecosystems Valuation “Earth 18<sup>th</sup> -22<sup>nd</sup> April, 2016, JKUAT, Nairobi, Kenya
7. Rob Field, **Paul Muoria**, Paul Matiku, Serah Munguti, Emily Mateche, Simon Shati, Sarah Sanders. Biodiversity conservation, ecosystem services, and sustainable livelihoods inform land use planning in Kenya's Yala Delta. 2016 ESPA annual science conference – 17th -18th Nov 2016. <http://www.espa.ac.uk/news-events/events/thu-2016-11-17-0900/espa-2016-annual-science-conference>
8. **Paul Muoria**, Using TESSA to enhance waterbird conservation and livelihood resilience – a case study of Yala Swamp.” **Climate Resilient flyways”** workshop held by Wetland International, at Bondo, Kenya. 21<sup>st</sup> to 24<sup>th</sup> March 2016: “
9. Paul K. Muoria **Balancing Conservation and Development: The case of Yala Swamp Siaya, Kenya**. Panel discussion during World Wetland Day Celebrations, NEMA, Kenya. 27 January 2015

### **1.3: QUALITY TEACHING, LEARNING AND MENTORSHIP**

#### **1.3.1: Students Evaluations**

- ◆ Score for SMR 305 – Grade A
- ◆ Score for SCB 409 – Grade A
- ◆ Score for SCB 309- Grade C

#### **1.3.2: Trainings in Higher Education**

- ◆ 5th to 7th March 2018: ESPA Professional Development Course (PDC). The PDC covered .key concepts in ecosystem services, complexity, human wellbeing, equity & justice o different ways of representing the relationship between ecosystem services & poverty alleviation, & . addressed environment-related interventions by applying ES for PA concepts . Explored effective & interactive teaching approaches in these topics. Kenyatta University, Nairobi, Kenya
- ◆ In-house training on Online Content delivery (Multiple training sessions)

**1.3.3: Ongoing supervision of postgraduate students**

<b>Student</b>	<b>University</b>	<b>Thesis Research Title</b>	<b>Degree</b>	<b>Status</b>
1. Kiplangat Gabriel Mutai	Kenyatta University	Utilization, distribution and population structure of woody plants in Nairotia block of Mau Forest-Kenya	MSc Plant Ecology	Data Analysis and thesis writing stage
2. Vincent Nzau.	Kenyatta University	Bird conservation – Taita Hills	MSc Animal Ecology	Thesis writing
3. Caroline Chepkemoi	Kenyatta University	The spread and impacts of field dodder ( <i>Cuscuta campestris</i> ) on crops in Kericho County, Kenya	MSc Plant Ecology	Student collecting data
4. Patrick Michoma Bikeri	Kenyatta University	Distribution of <i>Cuscuta</i> spp and its impacts on biodiversity in Upper Nyakach, Kisumu County, Kenya	MSc Plant Ecology	Student collecting data
5. Joseph Waweru Mwangi	Kenyatta University	Carbon stock assessment in Dakatcha Woodland, Kilifi County, Kenya	MSc Plant Ecology	Data Collection Stage
6. Onsarigo Edwin	Kenyatta University	Ethnobotanical survey of indigenous medicinal plants and their conservation status in Gwasi Hills Forest Reserve of Homabay County, Kenya	MSc Plant Ecology	Data Collection Stage
7. Micheni Kanga Muchiri	Kenyatta University	The efficacy of integrating indigenous and modern practices in the conservation of medicinal plants in Meru South Sub-county, Kenya (Status: Proposal development)	MSc Plant Ecology	Proposal development stage
8. Cleophas Maswai	Kenyatta University	Ecological and socioeconomic impacts of the yellow Cestrum ( <i>cestrum aurantiacum</i> lindl.) in Nandi Forest and adjoining areas, Kenya.	MSc Plant Ecology	Proposal development stage
9. Emma Mukasia Murambi	Kenyatta University	Diversity, use and conservation status of plants of Luicho Hills in Bungoma County	MSc Plant Ecology	Proposal development stage
10. Mule Eunice Mutio	Kenyatta University	Floristic Composition, Structure And Conservation Status Of Woody Plant Species of Tulimani Hill Ecosystem.	MSc Plant Ecology	Proposal development stage

### 1.3.4: Supervision of Post Graduate Students (Graduated Students)

#### PhD level

1. Mr. Mariciano Mutiga. (2016) Distribution, abundance and genetic diversity of Somali Ostrich in West Gate and Meibei Conservancies of Samburu, Kenya. PhD – Animal Ecology, Embu University College, University of Nairobi.
2. Martha Muthoni Konje (2021) Spatial and temporal variation in forage production and availability in Richtersveld National Park, South Africa. PhD Plant Ecology. Kenyatta University.

#### Masters level

1. Cecilia Oyuga Olima (2021) Economic and Ecological Valuation of Mida Creek Forest Using Tessa Approach. MSc thesis, Kenyatta University
2. Morogo Hosea Kipkoech. (2020) Human impacts on the vegetation diversity, abundance and composition of woody plants in Chemususu Forest Block of Lembus Forest, Baringo County MSc thesis, Kenyatta University
3. Priscilla Wangui Kinyanjui (2020). Elephant (*Loxodonta africana blumenbach 1797*) population and distribution in Arabuko Sokoke Forest, Kilifi County. MSc thesis, Kenyatta University
4. Dorca Auma Muroso (2019). Distribution of *Parthenium hysterophorus* and its impacts on biodiversity and agricultural productivity in Kadibo Division, Kisumu County. MSc thesis, Kenyatta University
5. Mr. Matano S. Mwatenga. (2017): Influence of age and gender on the Gastro Intestinal Parasite loads in Grevy's zebra. MSc., Kenyatta University
6. Mr. Mariciano Mutiga. (2012). "Diet overlap between Grevy's zebra and donkeys, sheep, goats and cattle in Samburu, Kenya" MSc thesis . Kenyatta University
7. Ocholla Odhiambo Gordon (2012) Indigenous knowledge systems of the samburu community for better wildlife management within fringes of Mathews Range in Kenya. MSc. Thesis, Kenyatta University.
8. Kivai, S. (2006). Feeding ecology and diurnal activity time budget of Grevy's zebra (*Equus grevyi*, oustalet, 1882) in Samburu community lands, Kenya. M.Sc. thesis. Addis Ababa University.

## 1.4: PROFESSIONAL/CONSULTANCY

### 1.4.1: Networks/Collaborations

1. **2019 – Present** - Member – National Forest Working Group developing a national Forest Restoration Action Plan.
2. **2018 – 2019** **Technical** Team Leader, Development of Mount Kenya Forest Restoration Strategy and business plan for financing forest restoration.
3. **2015 – 2019:** Technical Team Leader, development of Land Use Plan for Yala Swamp
4. **2014-2019:** Technical team Leader on Ecosystem Services Assessment in Yala Swamp, Tana River Delta, and Mount Kenya Ecosystem

### 1.4.2: Editorial Boards/Referee for professional periodicals

1. Review for African Journal of Ecology
2. 2016: Reviewer for Volume 29, Society & Natural Resources, 29:12, 1533-1535, <http://www.tandfonline.com/doi/pdf/10.1080/08941920.2016.1229473>

### 1.4.3: Consulting for international/national organizations

Year/period	Client/organization	Assignment
2020-2021	BBC Research and Consulting	Workshop facilitator for Tana River Delta Restoration Opportunity Assessment.
2019-2020	KFS/Nature Kenya/FAO	Facilitating the development of the “national Forest and Landscape Restoration Implementation Plan”

### 1.4.5: Consulting for organizations

Year/period	Client/organization	Assignment
2021	Frame Consultants	Baseline Ecological Study for the proposed Oloolotikosh – Kitengela, Kajiado Water and Sewerage Project in Kajiado County
2020-2021	Nature Kenya/Lamu County Government/Tana River County Government	Development of Tana River and Lamu County Forest Policy and Forest and Landscape Restoration Action Plans
2019	Nature Kenya	Tana Delta CCA Management Plan
2019	Nature Kenya	Mount Kenya Forest Restoration Strategy and Business Case
2018-2019	Nature Kenya	Mount Kenya Ecosystem Service Assessment
2017-2018	Nature Kenya	Conducting Ecosystem Service Assessment and feasibility studies for Tana Delta proposed CCA
2015-2018	Nature Kenya	Yala Swamp Land Use Plan and Strategic Environmental Assessment (SEA)
Dec 2017- March 2018:	Environment and Water Management (IEWM)	Development of Climate Change Action plans and an enabling Policy and Regulatory Framework for Nakuru and Nandi counties
May 2018 – July 2018	Francis consulting limited	Ecologist in Mzima II Project Environmental Impact Assessment
26 <sup>th</sup> to 27 <sup>th</sup> July 2017	ICE (Institute for Culture and Ecology)	Workshop facilitator for “ <u>Protection Of Water Catchment Areas and Natural Resource Management</u> ”
Nov 2015- March 2016	Agile Consulting	Protected Area Management Planning Expert for the development of “Oloisukut Community Conservancy Management Plan”
2014-2015	Nature Kenya	Yala Swamp Ecosystem Service Assessment
2014	Ecos consultants	Biodiversity Expert in “Aberdare forest ecosystem: environmental & social impact assessment for forest plantation management”
2014	Ecos consultants	Biodiversity Expert in. “Cherengany forest ecosystem: environmental & social impact assessment for forest plantation management”
2015	Ecos consultants	Biodiversity Expert in “Mt Kenya forest ecosystem: environmental & social impact assessment for forest plantation management”.
2015	Ecos consultants	Biodiversity Expert in “Mau forest ecosystem: environmental & social impact assessment for forest plantation management”.

### 1.4.6. Membership to academic/professional organisations/institutions

1. Member, Nature Kenya
2. Member, Lead member, Environment Institute of Kenya.
3. Society of economic botany – Kenya chapter (SEB-K)

#### **1.4.7: External examiner for other universities (2016-2017)**

1. Cynthia Njeri Muiro (2016). “ The impact of elephants (*loxodonta africana*) on Acacia tortilis woodlands in Tsavo East National Park, Kenya”. **M.Sc thesis. University of Nairobi**
2. Ghebremariam Hago’s (2016). “Population Distribution, Genetics and Conservation of African Wild Ass (*Equus africanus somalensis*) in Denkelia, Eritrea.” **MSc.Thesis. University of Nairobi**
3. Amur Arafa Abdallah (2017) Impacts of elephant confinement on the forest structure and regeneration in Arabuko-Sokoke Forest. **MSc. Pwani University**

#### **1.5: ADMINISTRATIVE RESPONSIBILITY**

##### **1.5.1 Recognized University administrative responsibilities**

1. **August 2011- present** – Chairman, Department of Plant Sciences
2. **2016–August 2019:** Chair – Departmental Board of Postgraduate Committee, Department of Plant Sciences
3. **2015-2017:** Head– Ecology and conservation programmes in Department of Plant Sciences
4. **2015-2017:** Member, Departmental Curriculum review committee, Department of Plant Sciences
5. **2014/2015:** Academic Advisor – Conservation Biology Programme

##### **1.5.2 Other responsibilities in the university**

1. **May 2017- August 2019** – Academic advisor, Postgraduate programme, Department of Plant Sciences.



## 1.6.2 Community service and outreach

- 1 **2016-2017** - PTA member, Moi Girls High School, Nairobi
- 2 **September 2019- Present** Secretary, Presbyterian Church Men Fellowship, Nkoroi PCEA Church

## 1.6.3 Professional affiliations & portfolios

1. **August 2014 – Date:** Scientific Advisor, Nature Kenya. My Role is to advise Nature Kenya on science matters particularly on strategic approaches to biodiversity conservation (natural resource management plans, species action plans and other planning processes), climate change, biodiversity conservation, Ecosystem services and emerging issues in conservation.

## 1.7: References

1. Prof. Michael Gicheru  
Dean, SPAS, Kenyatta University  
Kenyatta University P.O. Box 43844, 00100 NAIROBI, KENYA  
Email: [gicheru.michael@ku.ac.ke](mailto:gicheru.michael@ku.ac.ke)
2. Dr. Gathaara Moses P. Hungu  
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3. Professor Nicholas O. Oguge  
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