

# DETAILED CURRICULUM VITAE

PROFESSOR NATHAN NDEGWA **GICHUKI**

## 1. Personal Information

Full Name: **Gichuki, Nathan Ndegwa.**  
Nationality: Kenyan.  
Date of birth: 20th August 1953.  
Passport: Valid Kenyan Passport since 1989.  
Driving License: Valid and clean since 1980.  
Official Postal Address: School of Biological Sciences, University of Nairobi,  
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## 2. Educational qualifications

**Ph.D.** (1993): Churchill College, Cambridge University, United Kingdom.  
**M.Sc.** (1983): College of Biological and Physical Sciences, University of Nairobi.  
**B.Sc. (Hon)** (1978): Department of Zoology, University of Nairobi.  
**East African Advanced Certificate of Secondary Education** (1973-1974): Nyeri High School, Kenya.  
**East African Certificate of Secondary Education** (1969-1972): Muhoho High School.  
Certificate of Primary Education (B+), (1962-1968): Simbara Primary School, Nyandarua North.

## 3. Academic positions held within the University of Nairobi.

Senior Lecturer, School of Biological Sciences, University of Nairobi. 2004 -Present.  
Lecturer, Department of Zoology, University of Nairobi, 1987-1989.  
Assistant Lecturer, Department of Zoology, University of Nairobi, 1985-1986.

#### **4. Administrative and Professional Positions held in the University**

##### **a) Administrative Positions:**

- Acting Director, School of Biological Sciences, University of Nairobi (2009/2010).
- Acting Chairman, Department of Zoology, University of Nairobi, Kenya (July/ August 2007)
- Coordinator, Open and Distance Learning Programme (ODL), 2005-Present.

##### **b) Professional and academic positions**

**Secretary**, Strategic Planning Committee, School of Biological Sciences

**Patron**, Environmental Awareness Club, College of Biological and Physical Sciences

**Patron**, Environmental Journalism Association, College of Biological and Physical Sciences

**Chairman**, Animal Welfare Curriculum Development Committee, School of Biological Sciences.

**Internal Examiner** (M.Sc. and PhD Thesis)

**Coordinator**, Fourth Year Research Projects for B.Sc. Environmental Conservation and Natural Resource Management (2010-Present)

**Coordinator**, Third Year Field Course for B.Sc. Environmental Conservation and Natural Resource Management (2010-Present)

**Third Year Student Mentor (2012 –Present)**

##### **c) Appointments as external or internal examiner of thesis**

###### **Master of Science thesis:**

- Kenyatta University (23).
- Moi University (10)
- University of Eldoret (2)
- University of Nairobi (25)

###### **Doctor of Philosophy thesis:**

- University of Nairobi (5)
- University of Natal, South Africa (1)
- Kenyatta University (4).

## **Undergraduate external examinations**

School of Natural Resources and Environmental Studies, Karatina University College (2011-2015)

School of Natural Resource Management, Moi University (2011-2015)

Department of Veterinary Anatomy and Physiology, University of Nairobi (2003-2006)

Department of Environmental Science, Kenyatta University (2003-2005)

Department of Zoology, University of Nairobi (2001-2003)

## **5. Professional and Administrative Positions Held Outside the University**

### **5.1 Professional positions**

**Elected Member of the Executive Committee:** International Ornithological Congress (2004 – Present, Hamburg, Federal Republic of Germany)

**Technical Committee Member:** Kenya Wetland Biodiversity Network (Kenweb IRD/European Union) 2009-Present.

**Assistant Editor-in-Chief:** Samaki News, Journal of Ministry Fisheries Development, Kenya, GOK (2003 - Present).

**Manuscript Reviewer:** African Journal of Ecology (2008 – Present), Ethiopian Journal of Biological Sciences (Addis Ababa), Kenya National Academy of Science (Biology Journal) (2006-Present).

**Chairman,** National Steering Committee of GEF/UNDP/ICIPE Taxonomic Network Programme for Eastern Africa (BOZONET). (2005-2008)

Visiting Lecturer: Department of Environmental Science, Kenyatta University 1995-1997.

**Visiting Lecturer:** St. Lawrence University, Karen Campus, Nairobi, (2003-2005).

### **5.2. Administrative positions**

**Chief Curator (Assistant Director),** National Museums of Kenya, Nairobi, (2002- May 2004).

**Senior Scientist and Head,** Wetlands Research and Education Programme, National Museums of Kenya, Nairobi, 1993-2002.

**Project Coordinator:** UNDP/UNEP Nairobi River Basin, Community Waste Management Project (2006-2009)

**Programme Manager,** GEF/UNDP Conservation and Management of Biodiversity in the Eastern Rift Valley Lakes, Kenya. (1999 – 2003).

**Project Manager**, WWF-Community Wetland Conservation Project, Kitale, Kenya. (1989-1993)

**Technical Officer**, (GoK/FAO) Migratory Pests Control Programme for Eastern Africa, Nairobi (1980-1983).

**Agricultural Research Scientist** (Crop Protection), National Agricultural Research Centre, Njoro, Kenya, (1978-1984)

## **6. Professional affiliation**

Member, Advisory Committee, Wetlands International, Wengeningen, Netherlands.

Member, International Advisory Council, International Crane Foundation, USA.

Member, Executive Committee, International Ornithological Congress, Hamburg, Germany.

Member, Society of Wetland Scientists, Bristol, U.K.

Member, American Ornithological Society, New York, USA.

Member, British Ornithologists Club, Oxford, U.K.

Member, African Bird Club, London, U.K.

Member, IUCN Species Commission Specialist Group, Gland, Switzerland.

Member, Society of Conservation Biology, Cambridge, U.K

## **7. Professional Recognition Awards**

**Environmental Conservation Award**: East African Environment Network (2003).

**Wetland Conservation Award**: Kenya Wetland Working Group, Nairobi, Kenya. (2002).

**Fellow, Cambridge Commonwealth Society**, University of Cambridge, U.K. (1995-Present).

Principal Coordinator: International Research Experiences and Education (IRES) Partnership (Tulane University, University of Nairobi and national Museums of Kenya, Nairobi.).

## **8. Major areas of research, education and training**

### **8.1 Areas of interest in research and development**

University level training in zoology, wildlife conservation and management

University level training in research methodology and biostatistics

Research in stream ecology and fishery development

Research in buffering capacity of natural wetlands against pollution

Research in wetland vegetation as a grazing resource in semi-arid lands

Research in constructed wetlands for waste water treatment in built environment

Research in bird conservation in farmed landscapes

Monitoring international trade in birds

Conservation and management of natural heritage

## **8.2 Education and training**

### **8.2.1 Undergraduate training:**

Geography, Botany and Zoology, Arthropod Biology, Aquatic Biology, Wildlife Ecology

### **8.2.2. Career building training**

Training in research and development proposal writing (UNES, March 2012)

Taxonomy and ecology of Eumycetozoa (Slime Molds), Arkansas University (USA), National Museums of Kenya and University of Nairobi, January 2011. Workshop Organizer)

Pedagogy and development of open learning resources (School of Continuing Education, June 2010).

International Field Training Course on the Use of Geographical Information System in Mapping Natural Resources in East Africa (British Council/ Sokoine University of Agriculture and Technology, Lake Natron, Tanzania: November 2009)

Skills in scientific communication, **Safetrain** DANIDA (April 2009)

Training in digitalization of biological specimen collections in Research and Educational Institutions (Global Biodiversity Information Systems, Nakuru August 2008)

### **8.2.3. Research and development training**

Stakeholders training and refresher courses in environment (Various workshops)

Community training in project development and management ((Various workshops)

Participatory research and product development ((Various workshops)

Strategic planning processes ((Various workshops)

### **8.2.4. Experience in Strategic Planning**

GEF/UNDP/ICIPE – (2006-2008) Facilitating national consultations on the development of national taxonomic capacity for biodiversity conservation and development.

SIDA/Inter-University Council for East Africa (2003/2004). Review of scientific and socio-economic research activities affecting wetlands in Lake Victoria basin (Kenya). 39pp.

GEF/FAO/ UNEP African Pollinators Initiative (2005). Facilitation of national stakeholders consultation process for *Assessment of pollinator services for enhanced agricultural production and biodiversity conservation*.

SIDA/RPSUD National Museums of Kenya (2005). Review of a regional strategic plan for networking of dry land biodiversity research initiatives in Eastern Africa.

University of Nairobi (Department of Zoology) Five-year Strategic Plan (2005- 2010). Team Secretary/Leader, Nairobi, Kenya 2005.

### **8.3 Postgraduate student mentoring and supervision**

#### **8.3.1 PhD students**

**Obari, Thadeus Odongo 2011.** Population Ecology of Maasai Giraffe in relation to changing climate in southern Kenya. (**In progress**), University of Nairobi.

**Kivai, Stanlaus Mulu 2011.** Population ecology and genetic variability of de Brazza's monkey in Mathews range Forest Reserve, Kenya. (**In progress**) University of Nairobi

**Nyamweya, Humpden N. 2010.** The impacts of invasive plant species on forest regeneration in Mount Marsabit Forest, Kenya. (**In progress**) University of Nairobi

**Ali, Adan 2009.** Management of domestic waste in Nairobi and suburbs. Department of Environmental Engineering, University of Nairobi, Kenya. (**Graduated**, University of Nairobi)

**Geoffrey Macharia 2009** Land use and its impact on biodiversity in the Lake Ol Bolossat basin, Kenya. Department of Environmental Science. (**Graduated**, Kenyatta University)

**Njumbe, Steve 2008.** Ethics and values in wildlife conservation and management: a case study of Kenya. Department of Geography and Environmental Sciences, University of Nairobi, Kenya. (**In progress**)

**Nyingi, Dorothy Wanja (2007).** Differentiation morphologiques et genetique du Tilapia du Nil *Oreochromis niloticus* (Linnaeus, 1758) en Afrique. (**Graduated**, University of Montpellier II, Paris, France.

**Nasirwa, O.N. 2006-2008.** Factors affecting foraging and breeding success of Kitlitz Plover in soda lakes of central Rift Valley, Kenya. (**In progress**, University of Nairobi)

**Helmut Schiller, 1998-2002.** Development of communication signals in young Grey Crowned Cranes (*Balearica regulorum*). Department of Biological Sciences, University of Munich, Germany. **(Graduated)**

### **8.3.2 M.A. and M. Sc students**

#### **Graduated M. A Project Planning and Management**

**Lesanjir Borniface Mauan 2013.** Factors influencing academic performance of girls in public primary schools in Sereolipi Education zone in Samburu County Kenya. **M.A. Graduated, University of Nairobi.**

**Ikiuathu Dominic Maringa 2013.** Factors influencing water use conflicts in Ngarendare and Ngare Niti WRUAs in upper Isiolo sub-region, Samburu County, Kenya. **M.A. Graduated, University of Nairobi.**

**Austin D.O. Uduogu 2012.** Impacts of legume-based rotational cropping on rangeland soil biodiversity and insect pollinators at Isinya, Kenya. **(M.A. Biodiversity, University of Nairobi)**

**Ali Jatani Boru 2012.** Determinants of community ownership of water projects in Kenya: A case study of central Division, Isiolo County, Kenya. **(M.A. Graduated, University of Nairobi)**

**Francis Muchiri Nyaga 2012.** Influence of capacity building on adoption of soil conservation in Miriga Mieru west division, Imenti north District, Kenya. **M.A. Graduated, University of Nairobi).**

Daniel Lejaroi Letoiye 2013. Effects of infrastructural development on wildlife conservation in northern Kenya: A case study of Isiolo-Moyale Highway at Isiolo\_Merile section in Samburu County Kenya. (M.A. in progress).

#### **Graduated M.Sc. Conservation Biology**

**Herman Chege 2013.** Mescarnivore diversity as indicators of ecological health of wetlands in Laikipia County Kenya. **(Graduated, University of Nairobi).**

**Esther W. Githumbi 2013.** Changes in vegetation structure in response to land use in the watershed of Manguo swamp, Kiambu County, Kenya. **(Graduated, University of Nairobi)**

**Margaret Nduku Kyalo 2011.** Assessment of alternative food resources of Lesser Flamingo in some Kenyan saline lakes. **(Graduated, University of Nairobi)**

**Sister Alfredo Mbegu 2011.** Comparative study of bird guilds in different cropping systems on farmlands adjacent to Kakamega Forest, Kenya. **(Graduated, University of Nairobi)**

**Anne Wangari Kairu 2011.** Distribution and population structure of East African Greenheart (*Warbughia ugandensis*) in Mount Kenya Forest, Kenya. **(Graduated, University of Nairobi)**

**Muriithi, Evans 2010.** Factors influencing livestock predation by carnivores in group ranches bordering Maasai Mara National Reserve, Kenya. **(Graduated, University of Nairobi)**

**Ngaruiya, Grace Wambui 2010.** The ecology of the Golden-rumped Elephant Shrew in coastal forests of Gede and Arabuko Sokoke Forests, Kenya. **(Graduated, University of Nairobi)**

**Nguku, Julius 2010.** The diversity and distribution of herpetofauna in Lower Tana River Forests, Kenya. M.Sc. Thesis, University of Nairobi. **(Graduated, University of Nairobi)**

**Wambua Josephat K. 2010.** The influence plant invasive species on the distribution of large mammals in Ol Doinyo Sabuk National park, Kenya. M.Sc. Thesis, University of Nairobi. **(Graduated, University of Nairobi)**

**Obari, Thadeus O. 2010.** Factors influencing population and behaviour of Giraffe in the Athi Kapiti ecosystem, Kenya. M.Sc. Thesis, University of Nairobi. **(Graduated, University of Nairobi)**

**Otieno, Nickson E. 2008.** Factors influencing diversity and abundance of farmland birds in Kakamega Forest, Kenya. M.Sc. Thesis, University of Nairobi. **(Graduated, University of Nairobi)**

**Nyamweya, Humpden N. 2007.** An assessment of butterfly species diversity in relation to plant structure in mount Marsabit Forest, Kenya. M.Sc. Thesis, University of Nairobi. **(Graduated, University of Nairobi)**

**Njenga, M.M. 2007.** Vegetation characterization and large herbivore population dynamics at Il Ngwesi Community Conservancy, Laikipia District, Kenya. **(Graduated, University of Nairobi)**

**Munyekenye, F.B. 2006.** Bird species richness and abundance in different forest types in Kakamega Forest, Kenya. **(Graduated, University of Nairobi)**

**Garbo Abdurahi M. 2006.** Characterization and biodiversity of dry land wetlands in Injara District, Kenya. **(Graduated, University of Nairobi)**

**Mutuku, Jackson M. 2005.** The diversity, abundance and distribution of birds in Mount Marsabit Forest, Kenya. M.Sc. Thesis, University of Nairobi. **(Graduated)**

**Edah Kaguthi 2002.** Assessment of resource use conflicts among communities in Lower Tana River, Kenya. **(Graduated, Kenyatta University)**

**Nzengya, D.M. 1997.** The performance of constructed wetlands in wastewater treatment in Kenya: a case study of Carnivore Wetlands, Nairobi. M.Phil. Thesis. (**Graduated**, Moi University)

**Jane B. Masese 1996.** Human perception and its implications on wetland use and conservation: A case study of Nyamira District, Kenya.. (**Graduated**, Kenyatta University)

#### **M. Sc students in progress**

**Noreen M. Mutoro 2013.** Assessment of cheetah prey base outside protected areas in Salama and Kapiti plains of southern Kenya.

**Titus Imboma 2012.** Competitive exclusion of native sparrows by the invasive house sparrow in urban Nairobi (**In progress**, University of Nairobi, 2011-2012)

**Nekesa, Sarah Wekesa 2009.** The altitudinal variation in angiosperms and bryophyte communities on Sirimon Truck in Mount Kenya Forest. (**In progress**)

Zippora Musyimi (2007). The effects rice cultivation on breeding habitats and productivity of Grey Crowned Cranes in Mwea Rice Scheme, central Kenya. (**In progress**).

#### **9. Major Research Grants Awarded**

**French International Research and Development Agency (IRD, France):** Wetland Biodiversity Assessment in Kenya: River Tana Delta and Loboï Swamp, (2011-2013) Budget: Euro 20,000 per year for three years. Joint Project with NMK.

**International Research and Education in Science (IRES/IFS, USA):** Assessment of riverine fish biodiversity and training in molecular taxonomy in Kenya. UoN/NMK/Tulane University. (2009-2012), Budget: US\$ 150,000.

**UNDP/UNEP Regional Office for Africa:** Solid waste assessment and management by local Communities in Nairobi River basin (2006-2008). (US \$40,000 per year for two years.

**UNEP/AGREF – Mount Marsabit Ecosystem Conservation and Development Project** (2004-2006): Biodiversity Assessment and inventory. (US \$ 17,000 for one year).

International Crane Foundation (USA) and Endangered Wildlife Trust (South Africa): University Training Scholarship and Financing of International Crane Trade Project in East Africa: (2006-2009) Budget: US \$ 50,000 for two years.

**American Zoos and Aquariums Association** (2002-2004). Pollution buffering capacity and biodiversity of River Nyando Delta in Lake Victoria basin, Kenya. Principal Investigator in a team of four national scientists. (Budget: USD 5,000).

**IUCN-NORAD** (2001-2002). Development of tools and criteria for wetland monitoring in East Africa. Lead Consultant in Kenya in a team of four experts. (Budget USD \$ 20,000)

**Ramsar Convention Bureau** (1999-2001). Monitoring of African-Eurasian Migratory birds in Kenya. National Coordinator (Budget: Austrian Shillings 65,000).

**GEF/UNDP/UNEP** (1999-2001). Conservation and Sustainable Use of Biodiversity in the Eastern Rift Valley Lakes, Kenya. *National Programme Coordinator* (Responsibilities: Project planning, implementation, financial management, administration and mainstreaming into national policies and programmes). (USD 327,000).

**Swedish International Agency for Research and Development (SAREC)** 1997-2000. Assessment of wetland resources, values and uses in Kajiado District, southern Kenya. (Budget: USD \$15,000).

**World-wide Fund for Nature (WWF)** (1990-1993). Community Wetland Conservation in Trans Nzoia District, Kenya. National Museums of Kenya, and Moi University. (Budget SFr 225,000).

**Chapman Memorial Fund of the American Museum of Natural History** (1990-1992). Role of water birds as indicators of wetland quality in Kenya. (Budget: US\$ 10,000).

## **10. Consultancies and Community Service**

**GEF/FAO** African Pollinators Initiative (2008) Facilitator, National Stakeholders Consultation workshop, Two days. National Museums of Kenya.

**World Environment Monitoring Centre (Cambridge)** 2004): Developing tools (indicators) of biodiversity in tropical wetland ecosystems. Leader: National Task Force for Tana River Basin.

**GEF-UNOPS/UNEP** (Lake Baringo Land and Water Conservation Project. June-July/October-November 2001. Consultancy: Assessment of the conservation status of birds and tourism potential in Lake Baringo area, Kenya. 60 man-days.

**Kenya Government (Ministry of Environment and Natural Resources)**. August-November 2001. Review of Post Rio achievements in biodiversity conservation in Kenya. Team Leader: 13 experts.

**IUCN-NORAD Eastern Africa Wetland Support Programme:** (2001–2002. Development and testing of new wetland monitoring tools in Kenya. Two months. Lead consultant in a team of four experts.

**UNEP/SIDA (Global International Waters Assessment, GIWA)** (2001) Review of assessment methodology and policy options in natural resource assessment in the Great Rift Valley Lakes (Lakes Victoria, Tanganyika, Albert and Turkana). Member of an international team of 13 experts. World wide Fund for Nature and Kenya Wildlife Service.

**National Environment Action Plan** (1994). Geoffrey W.Howard, Cecilia M. Gichuki, Peter Kiai, Tom Kabii and Nathan Gichuki. National Report, 1995. Environmental strategies and actions for sustainable management of water resources and wetlands in Kenya. Twenty-five days in a technical team of 12 experts.

**Kenya Wildlife Service** (1997). Nathan Gichuki. Stakeholder consultation workshop for Lake Ol Bolossat Conservation and Development. Eight days workshop planning and facilitation, Ol Kalou Town.

**Lake Victoria Species Survival Programme** (1996/1997). Joe Norton, Dough Warlmots, Nathan Gichuki, Roger Cloceck, and Helida Oyieke. Inventory of fish diversity in the wetlands of Lake Victoria. Ten days in a multi-disciplinary research team of six.

**Lake Victoria Species Survival Programme and Boston University** (1996). Les Kauffman, Nathan Gichuki, William Ojwang and James Maikweki. Modelling fluctuations in water levels of Lake Victoria and its implications on aquatic biodiversity and human settlements. Five days of field study in Lake Victoria basin in a technical team four.

**GEF-UNDP/FAO/Kenya Wetland Working Group** (1996). Geoffrey Howard, Nathan Gichuki and Fleur Ngweno. Ethno-botanical assessment of wetlands in Uasin Gishu District, Kenya. Responsibility: Coordination of Field Research Activities.

**GEF-UNDP/UNEP** (1998-2001). Nathan Gichuki (NMK), Christopher Gakahu (UNDP), Annah Tengberg (UNEP) and Allan Rodgers (FAO/UNDP). Conservation and Sustainable Use of Biodiversity in the eastern Rift Valley Lakes. Responsibilities: Coordination, planning, and implementation of project budget and activities in Kenya. Coordinating 25 National Resource Persons.

## **11. Major Seminars and Conferences Attended**

Convention on Biological Diversity (COP5), Official Kenya Delegate (Inland Water Biodiversity Regional Conference on East African Dry Land Biodiversity, November, Arusha, Tanzania.

9<sup>h</sup> Pan-African Ornithological Congress, December, Kampala, Uganda.

Wetlands International Advisory Board meeting. Wengingen, Netherlands November 2001.

23<sup>rd</sup> Int. Ornithological Congress, Beijing, China. August 2002

Promoting best practices for biodiversity conservation in arid and semi-arid areas. GEF/Third World Network of Scientific Organizations (TWNSO) Regional Workshop. Sultan Qaboos University. Muscat, Oman. April 2002.

Promoting best practices for biodiversity conservation in arid and semi-arid areas. GEF/Third World Network of Scientific Organizations (TWNSO) Regional Workshop, Center for Desert Research, Cairo, Egypt. Dec.2003

SIDA/SAREC-Lake Victoria wetlands research programme. Regional Conference and Board Meeting. Nile Resort, Jinja Uganda. April 2004.

UNEP/German Ministry of Education/BIOTA East Africa: Evaluation Mission for Project Activities in Kenya and Uganda. September, 2005.

24<sup>th</sup> International Ornithological Congress, Hamburg, Germany, August, 2006.

SIDA/ RPSUD – National Museums of Kenya. Evaluation Mission for project to assess research reports for publication in dry land biodiversity journal, June 2007

International Crane trade Mitigation Workshop. Naivasha, Kenya: 8-11 October , 2007.

Evaluation Mission of Marine Science Institute, Zanzibar, University of Dar Es Salaam. October, 2008.

National Wildlife Conservation Strategy for Kenya, Voi Lodge, Kenya. June 2009

Africa International Animal Welfare Action Conference and Exhibition, KCB Leadership Centre, Karen, 6-8 September, 2010.

International Symposium on Theology and Peace Building in Africa. Hekima College of Catholic University of Eastern Africa:. Guest Speaker on the theme Ecology in Dialogue with Technology, Peace Building and Development in Africa. March 5-8, 2012.

International Conference of Climate Change Adaptation and Development in Africa. National Museums of Kenya, Nairobi, July 2013

## **12. Professional Training**

**Training on assessing damage to grain crops by birds in Eastern Africa.** (F.A.O/U.N.D.P. (1979: 10 days, Arusha, Tanzania).

**Training on participatory research methodologies.** Kenya Energy Non-Governmental Organization (KENGO). Duration 5 days, June 1988.

**Training on marking and monitoring of migratory birds using satellite technology: (DAAD):** (May, 1989: 30 days, Max Planck Institute, Radolfzell, Germany.

**Training on evaluating effects of chemical water pollution on breeding shore birds.** (June 1989: 30 days, Institut fur Vogelforschung, Wilhemshaven, Germany.

**Training in water bird counts as tools for wetland monitoring.** Wetlands International. Two weeks, March 1990. Uganda Institute of Ecology and Makerere University, Kampala, Uganda.

**Training in planning and execution of Environmental Education programmes.** (September 1990, 20 days, Savanna River Ecology Research Centre, Georgia, USA).

African Wildlife Conservation Center and University of Georgia:

**Field training in monitoring and restoration of wetlands.** (September, 1990: 10 days, at Savannah River Ecology Research Centre and St. Catherine Island, Georgia, U.S.A.).

Training in research data management: (July 1992: 5 days, Cambridge University Computer Laboratory, U.K.).

**Training on Scientific Writing and Desktop Publishing.** (October 1992: 10 days, Churchill College, Cambridge University, U.K.).

**Training on leadership and management of non-governmental organizations in Africa.** (June 1993: 10 days, New Hall College, Cambridge University, U.K.).

**Field training on Wetland Biodiversity Assessment.** December 1995: 10 days. Mwanga, Tanzania. IUCN-GEF/FAO Eastern Africa.

**Training on Results-oriented Project Management and Reporting.** Monitoring and Evaluation of multi-sectoral development projects. April 2001, UNDP, Gigiri.

**Training in Project planning and management by UNDP Kenya.** August 2002, Utalii College Hotel, Nairobi.

**Training in pedagogy and student mentoring.** . University of Philadelphia/University of Nairobi. October 2007.

**Training in scientific communication (DANIDA/ University of Nairobi):** 14 days April 2008.

### **13. Professional and Research Experience**

#### **13.1 Agricultural Research Experience (1978-1985)**

Research Scientist (Crop Protection): Conducting research on insect and vertebrate pests of field crops, providing technical advice to farmers, screening of pesticides and carrying out tests of pest impacts on new varieties at Kenya Agricultural Research Institute, Njoro, Kenya. Key innovations:

- Use of reflective ribbons against bird pests of wheat and sunflower.
- Modified disc-template for quantifying bird damage to mature sunflower.
- Economics of human bird scaring against bird scaring devices

#### **13.2 Experience in Environmental Education and Public Awareness since 1990**

**Resource Person**, Review of the status of Kenya's wetlands. IUCN-Kenya Wetlands Working Group. June 1991. National Museums of Kenya, Nairobi.

**Project manager**, Assessment of wetland values and uses in western Kenya. WWF Community based Wetland Conservation Project, Trans Nzoia District, (1990-1993).

**Project Manager**, Ecological and socio-economic study of wetlands in Lake Ol Bolossat basin, Kenya. (1991-1994). Project Manager, (9 persons supervised).

**Project Manager**, GEF/UNDP Rift Valley Lakes Project Kenya. (1999-2003), Five members of staff supervised.

**Administrative Head**: Senior Research Scientist in Charge of Wetlands Programme (National Museums of Kenya). June 1994-2003. Duties: Coordination of wetland biodiversity inventory. Managing Wetland Data Base. Developing Wetland Education Materials. Organizing Public Education and Awareness Ramsar Convention and wise use of wetlands.

#### **13.3 Experience in Education and Training**

Scientific communication and publishing (DANIDA/University of Nairobi), Nairobi (September 2008).

Scientific Writing and Desktop Publishing and Journal Editing, Sida/Sarec, and National Museums of Kenya, August 2003, Nairobi, Kenya.

Preparation of Learning Materials for Distance Education. University of Nairobi and African Academy of Science.

Training in pedagogy and evaluation practicing science teachers in East African schools (October 2009).

#### **14. List of some scientific publications since the year 2000**

**Gichuki, N.N., Austin U. Deniss, and Cecilia M. Gichuki 2013.** The role of conservation biology in promoting biodiversity conservation and climate change adaptation in Kenya. Proceedings of the International Conference on Biodiversity and Climate Change adaptation in Kenya. July 22-25, 2013. National Museums of Kenya, Nairobi.

**Gichuki, N.N. , Bart, L.B., and Wanja, D. (2013).** Fresh water fish Biodiversity in Kenya. Pan-African Fish and Fisheries Conference, Bujumbura, Burundi. September, 2013.

**Gichuki, N.N. and Denis, A.U. (2012)** Ecologically sustainable technologies in Africa. Hekima Review Journal, January 2013.

Denis, A.U. and **Gichuki, N.N. (2012).** Effects of Legume-based Rotational Cropping on Rhizobia Assemblage in an Irrigated Rangeland in Southern Kenya. **Journal of Environmental, Cultural, Economic and Social Sustainability.** Link: <http://s12.cgpublisher.com/proposals/571>.

Otieno N.E., **Gichuki, N.N.,** Farwig N. and Kiboi, S. (2011). The role of farm structure on bird assemblages around a tropical rainforest. **African Journal of Ecology (44):** 1-8

Ali, A.A., Gitau A.N., Hassan M.A, Gumbe L.O. and **Gichuki N.N.** (2010). Household waste generation and management practices in Nairobi, Kenya. *Waste Management (Elsevier)* 30: 1752-1755.

Nyamweya, H. N. and **Gichuki, N.N** (2010). Effects of plant structure on butterfly diversity in Mt. Marsabit Forest – northern Kenya. **African Journal of Ecology, 48:** 304-312.

**Gichuki, N.N.** (2009). Characteristics of fish-eating birds in Lake Baringo, Kenya. **Samaki News 6(1):** 55-57.

Barasa F.B., Mwangi, E.M. and **Gichuki, N,N.** (2008). Bird species richness and abundance in different forest types in Kakamega Forest, Kenya. **Ostrich (76):** 81-83

Ntiba, M.J. and **Gichuki, N.N.** (2008). Impacts of global climate change on coastal ecosystems of Kenya. . **Samaki News 5(1):** 44-46.

Lukhoba, C.W. & **Gichuki, N.N.** (eds), 2007 Linking Taxonomy to Conservation. Botanical and Zoological Network in Eastern Africa.

Nairobi: **Global Environment Facility & United Nations Development Programme**. Pp. 35.

Ndiritu, G.G., **Gichuki, N.N.**, & Triest, L. (2006). Distribution of epilithic diatoms in response to environmental conditions in an urban tropical stream, Central Kenya. **Biodiversity and Conservation**, **15**: 3267-3293.

**Gichuki N.N.** and Githaiga, J.M (2006). *Fundamentals of Ecology*. A Handbook for Distance Learners in Bachelor of Education (Science). Faculty of External Studies, University of Nairobi, Kenya.

Githaiga, J.M and **Gichuki N.N** (2006). *Biostatistics*. A Handbook for Distance Learners in Bachelor of Education (Science). Faculty of External Studies, University of Nairobi, Kenya.

Odada, E. O., Orago, D. O., Ochola, W., Ntiba, M., Wandiga, S. O., **Gichuki, N.N** & Oyieke, H.A. (Eds.). *Proceedings of World Lakes Conference*, Volume I and Volume II, UNEP Regional Office for Africa, Nairobi, Kenya.

**Gichuki, N.N.**, Oyieke, H.A and Terer T. (2005). Status and root causes of biodiversity loss in the eastern Rift Valley lakes, Kenya. In: Odada, E. O., Orago, D. O., Ochola, W., Ntiba, M., Wandiga, S. O., **Gichuki, N.N** & Oyieke, H.A. (eds.). *World Lakes Conference*, Pages 511-517., Nairobi, Kenya.

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#### 15. Membership in academic/professional bodies

Member: Kenya Wetland Research Association (2006-Present)

Member: East Africa Natural History Society, 1985-Present

Member: Working Group on Crane and Wetlands in Africa 1990-Present

Secretary: Kenya Wetlands Working Group (1990 - 2006).

Member: Executive Council: Pan-African Ornithological Congress, 1988-1992.

Member: Association for the Study of Animal Behaviour (UK), 1992-1994.

Chairman: Birdlife Kenya (formerly ICBP), 1990-1997

Member: East African Ornithological Sub-committee 1980-Present.

Member: Society of Wetland Scientists (International) 1997-Present.

Member: Crane and Rails specialist Group. IUCN/SSC. 1993-Present.

Member: Governing Board, Wetlands International, (1998-2004)

Member: Advisory Board of International Crane Foundation, Wisconsin, USA. (1995-2008)

Member: American Ornithological Union (2001-2005).

Member: Executive Council: International Ornithological Congress, 1990-1998. 1995-Present.

Hobby: Reading science magazines, working with wood, bird watching and playing darts.

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