

# **CURRICULUM VITAE**

**Evaristus Makunyi Irandu, PhD, MEIK**

**Professor**

**Department of Geography, Population and Environmental Studies**

**University of Nairobi**

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**BIODATA:**

Name : **IRANDU** Evaristus Makunyi (**Professor**)

Profession : Teaching, Research and Consultancy in  
Transport, Tourism, Industrial development and Environmental  
Management

Date of Birth : 17th April 1956

Nationality : Kenyan

Marital Status : Married with five children

Postal Address : Department of Geography, Population &  
Environmental Studies,  
University of Nairobi,  
P.O. Box 5207 - 00200, Nairobi

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**CAREER OBJECTIVE:**

- To build a long-term career in Geographical Sciences and Environmental Studies.

**PROFESSIONAL STATEMENT:**

- Prefers working in a challenging environment, keen on detail and being resourceful in solving problems. Have ability to learn new knowledge and skills to improve my competences, thereby making me adaptable to changing work environment and able to undertake any new assignments with a positive attitude.

**KEY SKILLS:**

- Analytical skills in Geographical, Environmental, Transport and Tourism studies.
- Skills in carrying out interdisciplinary and multidisciplinary research.
- Specialist in Environmental and Social safeguards.

## **PROFESSIONAL COMPETENCE:**

I am a trained and experienced **Economic Geographer** with a wealth of experience in **Transport Infrastructure, Tourism, Regional development, Industrial development and Sustainable development**. I have **45 years** of postgraduate research experience focusing on analysis and discussion of **air transport, logistics, railway, urban and rural transport systems in Kenya, East Africa and the rest of Africa**. In addition, I have teaching and research experience in International Tourism, Ecotourism and Tour Operations Management. I am also a Lead Consultant in Environmental Impact Assessment & Audit. In total, I have **37 years** teaching experience at the University level.

I have carried out consultancy services on rail transport in Kenya, transport and trade facilitation in Kenya and air transport in the East African Community. These consultancies were commissioned by international organizations and bodies such as USAID, Technoserve and COMESA.

I was the Chairman of the Department of Geography and Environmental Studies of the University of Nairobi for two terms from **September 1999 to August 2005**. During this period, I participated and presided over the development of new market driven degree and diploma programmes in the Department such as M.A. (Environmental Planning and Management) and Diploma (Natural Resources Management). I also actively participated in the development of B.A. (Tourism), an undergraduate degree programme in the Faculty of Arts. I was involved in the development of harmonized International Tourism Curriculum for the leading Public Universities in East Africa (Dar es Salaam, Makerere, Moi and University of Nairobi). I prepared the concept note which was approved by the **European Union(EU)** that funded the project. I also prepared the questionnaire that was used for the training needs assessment (TNA) in tourism sector in East Africa before developing the harmonised tourism curriculum for the leading Public Universities in East Africa.

I was also the Team Leader for an Environmental Impact Assessment study (EIA) for the Thika Superhighway. This was a joint research project involving the Earth Institute of Columbia University in the USA and the Department of Geography and Environmental Studies of the University of Nairobi. The project started in August 2011 and ended in November 2012. A final report was published by the Centre for Sustainable Urban Development (CSUD) of the

Earth Institute of Columbia University and is now used for training students in carrying out Environmental Impact Assessment (EIA) in our Department and at the Earth Institute.

I am a **Social and environmental safeguards expert** who has done a lot of consultancy work for the World Bank in the preparation of Environmental and Social Management Frameworks (ESMFs) and Integrated Pest Management Framework (IPMF) for the Ministry of Agriculture, Livestock, Fisheries and Irrigation (MoALFI) and the Ministry of Devolution. I have also undertaken consultancy work commissioned by the World Bank on Environmental and Social Audit (ESA) and Strategic environmental and social assessment (S-ESA) for the Ministry of Agriculture, Livestock, Fisheries and Irrigation (MoALFI).

#### **ACADEMIC AND PROFESSIONAL QUALIFICATIONS:**

- 1995 : Ph.D., University of Nairobi.  
Thesis Topic: **Air Transport in Kenya: An Analysis of Domestic and International Airline Networks.**
- 1983 : M.A., University of Nairobi.  
Thesis Topic: **The Road Network in the Mombasa Municipal Area: A spatial Analysis of its Effects on Land Values, Population Density and Travel Patterns.**
- 1978 : B.Ed. (Hons), University of Nairobi – **Majoring in Geography and Education.**
- 2005: Registered **Lead Expert** on **Environmental Impact Assessment and Auditor** (NEMA Cert. No. 0660).

#### **AWARDS**

- 1979: Awarded a Master's Degree Scholarship by Kenyatta University College, then Constituent College of the University of Nairobi to major in Economic Geography in the Department of Geography and Environmental Studies, University of Nairobi.
- 1990: Awarded PhD in- Country Scholarship by the Germany Academic Exchange Programme (DAAD) to pursue Doctorate Degree in Transport Geography at the University of Nairobi.

## **TRAINING ATTENDED**

1. World Intellectual Property Organisation (WIPO) African Introductory Course on Industrial Property organised by the World Intellectual Property Organisation (WIPO) in cooperation with the Government of the Republic of Kenya, Nairobi, September, 11<sup>th</sup> to 20<sup>th</sup>, 1996.
2. Programme for Training Lecturers in Pedagogy, organised by the University of Nairobi, 5<sup>th</sup> October to 7<sup>th</sup> October, 2005.

## **EMPLOYMENT HISTORY IN THE UNIVERSITY OF NAIROBI:**

<b>2018- To- date</b>	<b>Professor</b>
<b>2006-2018:</b>	<b>Associate Professor</b>
<b>1997-2006:</b>	<b>Senior Lecturer</b>
<b>1989- 1997:</b>	<b>Lecturer</b>
<b>1988-1989:</b>	<b>Assistant Lecturer</b>

## **EMPLOYMENT HISTORY IN OTHER EDUCATIONAL INSTITUTIONS:**

1982-1987:	Kagumo Teachers' Training College (Nyeri County).
1981-1982:	Githiga High School (Kiambu County)
1978- 1979:	St. Mary's Girls High School, Igoji (Meru County)

## **COURSES TAUGHT:**

### **Undergraduate Courses:**

- Economic Geography
- Geography of World Economies
- Transport Geography
- Industrial Geography
- International Tourism
- Ecotourism
- Tour Operations Management
- Tourist Attractions and Facilities

**Post Graduate Courses (M.A. /M.Sc.):**

- Transport Geography
- Economic Geography or Geography of Development
- Environmental Management, Review and Critique

**ADMINISTRATIVE AND OTHER RESPONSIBILITIES**

September 1999- August 2005: Substantive Chairman, Department of Geography and Environmental Studies, University of Nairobi

August 2005- September 2014: Departmental Internal Moderator appointed by the Vice Chancellor.

October 2006- Appointed as Member of the Gender Policy Committee by the Vice Chancellor

September 2013- 2014: Member of the Departmental Post Graduate Studies Committee

2014- 2023 Chair, Departmental Curriculum Committee

2018-2023 Member, Faculty of Arts Curriculum Committee

**EXTERNAL EXAMINING**

1. 2000-2004: External Examiner, Department of Geography, Kenyatta University
2. 2006-2013: External Examiner, Department of Tourism and Tour Operations Management, School of Tourism and Hospitality, Moi University, Eldoret.
3. 2012-2017: External Examiner, Department of Tourism and Tour Operations Management, University of Eldoret, Eldoret.
4. 2012-2016: External Examiner, Department of Tourism and Tour Operations Management, School of Business, Karatina University, Karatina.
5. 2015- 2018: External Examiner, Department of Social Studies (Geography), Maasai Mara University.

## PUBLICATIONS

### Peer-reviewed Journal Articles

1. **Irandu**, Evaristus M (2024). Towards making Nairobi a walking friendly City. **World Transport Policy and Practice Journal**, Vol 29(1). pp 11-19.
2. **Irandu**, Evaristus M (2023). The Potential Role of Aerial Cable Car in Promoting Sustainable Mobility in Mombasa, Kenya. **World Transport and Policy Journal**, Vol 28(2). pp 36-51.
3. **Irandu**, Evaristus. M and Luca Zamparini (2023). The Role of Intermodal Transport in Promoting Horticultural Products' Export Trade in Kenya. **International Journal of Business and Social Science**. Vol. 14 (3). pp. 32-39. doi:10.30845/ijbss.v14n3p4 32.
4. **Irandu**, Evaristus. M and Shah P (2023). Biofuel Production versus Food Security in Kenya. **Africa Journal of Physical Sciences**. Vol. 8. pp. 1-17.
5. Shah, P. and **Irandu**, E.M. (2022). Recreational green spaces as the future for sustainable cities: Case of Karura Forest in Nairobi, Kenya. **Journal of sustainability, Environment and. Peace**. 5(1) 87-95.
6. Ondicho, T. G and **Irandu**, E. M. (2021). Impact of Corona Virus (Covid-19) Pandemic and Implications on Tourism Sector: The Experience in Kenya. **Journal of African Interdisciplinary Studies**, 5(6), 31 – 44.
7. Alice A. Oluoko-Odingo and **Evaristus Makunyi Irandu** (2021). Imperatives for Pastoral Livelihood Sustainability in the Mara Ecosystem, Kenya. **Journal of Sustainability, Environment and Peace** 4(1) 1-7.
8. **Irandu**, E.M. and Owilla, H.H. (2020d). The Economic Implications of Belt and Road Initiative in the Development of Railway Transport Infrastructure in Africa: The Case of the Standard Gauge Railway in Kenya. **The African Review**, 47(2). 457–480.
9. Togoch, H. Kemboi, **Evaristus M. Irandu** and Thuita Thenya. (2020c). Patterns of Livelihood Diversification among Kamnarok National Reserve Adjacent Communities in Baringo County, Kenya. **Journal of Sustainability, Environment and Peace**. Vol. 3(2) 55-62.
10. Togoch H. Kemboi, **Irandu M. Evaristus**, Thuita Thenya. (2020b). Conflicts over resource use in Kamnarok National Reserve and the adjacent community. **Journal of Environmental Science** 2(2), 236-246.
11. Kithuka, D.M., **Irandu EM**, Moronge JM/ (2020a). "The role of periodic markets in provision of manufactured goods and creation of income in rural areas: a case study of selected



markets in Mukaa Sub County; Kenya." **International Journal of Scientific Research and Innovative Technology**. 2020; 7(5):65-79/.

12. Karema, F.M., **Irandu, E.M.** and Mbatia, P. (2019b). Role of Walking and Cycling in Promotion of Mobility in Kenya: A Case Study of Laikipia County, Kenya. **International Journal of Research and Innovation in Applied Science**, Vol. IV, Issue VIII, 49-61.

13. Karema, F.M., **Irandu, E.M.** and Mbatia, P. (2019a). Role played by Bicycles in Rural Employment diversification in Laikipia County. Kenya. **International Journal of Innovative Science and Research Technology**, Vol. 4 (7), 770-772.

14. Kemboi, T.H., **Irandu E.M**, and Thenya, T. (2018b). Human Wildlife Conflicts and Livelihood Diversification among Kamnnarok National Reserve Adjacent Communities in Baringo County, Kenya. **African Environmental Review Journal Volume 3, Issue 1, pp. 51-64.**

15. **Irandu, E.M.** (2018a.). Factors influencing growth of horticultural exports in Kenya: a gravity model analysis in **GeoJournal**, <https://doi.org/10.1007/s10708-018-9888-x>.

16. Otieno N.V., **Irandu, E.M** and J.M. Moronge. (2017f) 'Public Involvement in Environmental Decision Making in Nairobi County, Kenya' **International Journal of Education and Research**, Volume 5, Issue No. 10, October 2017, pp. 185-193 ISSN: 2411-5681

17. **Irandu, E.M.** (2017e). A review of the impact of the Standard Gauge Railway (SGR) on Kenya's national development in the **World Transport Policy and Practice**, Volume 23.(2), 22-37

18. Njoroge, I. W, **Irandu, E. M**, Moronge J. M. (2017d). An assessment of the Impacts of Cleaner Production Implementation in Manufacturing Industries in Nairobi Kenya in the **International Journal of Education and Research** Vol. 5 No. 7; 173-186.

19. Bundi, J. M., **Irandu, E.M., and** Mbatia, P.N. (2017c). Analysis of Effects of Environmental Factors on Road Traffic Accidents in Nairobi, Kenya in the **International Journal of Humanities and Social Science Review**, Vol. 3 No. 1; 1-9.

20. F.M. Karema and **Irandu, E.M.** (2017b). Role of Commercial motorcycles in promoting agricultural production in Kenya: a case study of Laikipia East sub-county, Kenya in the **International Journal of Education and Research**, Vol. 5 No. 2, 1-16.

21. Karema F.M., **Irandu, E.M.,** and Moronge, J.M. (2017a): The Role of Commercial Motorcycles in Alleviating Poverty in Rural areas: A case study of Laikipia East Sub County, Kenya in **Journal of World Review of Intermodal Transportation Research**,

Vol. 6, No. 2, 155—176.

22. Makunyi, E. W., **Irandu, E.M.**, Kimiywe, J. and Wahome, E. (2016b): Marketing Adventure Tourism in the Mt. Kenya Region by the Kenya Tourist Board: An Analysis of the Changing Roles of Destination Marketing Organizations in International **Journal of Education and Social Science**, Vol. 3, No. 12. 1-17.
23. **Irandu, E.M.** and Makunyi, E. W. (2016a): Sport Hunting as a Sustainable Wildlife Conservation Strategy in Kenya: Prospects and Challenges in **International Journal of Social Science and Business**, Vol. 1, No.4. 1-17.
24. Shah, P., and **Irandu, E.M.** (2015): Ecotourism: The case of Karura Forest, Nairobi in **African Journal of Tourism and Hospitality**, Vol. 1, No.2., 21-40.
25. **Irandu, E.M** and Shah, P. (2014). The Role of Ecotourism in Promoting Women Empowerment and Community Development: Some Reflections from Kenya in **Journal of Tourism and Hospitality Management**, Vol. 2, No.6, 245-259.
26. **Irandu, E.M.** (2008b): Towards Efficient Management of Public transportation in the City of Nairobi through Application of Intelligent Transport Systems (ITS) in the **Journal of World Review of Intermodal Transportation Research**, Vol.2, No.1: 72-83.
27. **Irandu, E.M.** (2008a): Opening up African Skies: the case of Airline Industry Liberalization in East Africa in the **Journal of the Transportation Research Forum**, Vol.47, No.1: 73-89.
28. **Irandu, E.M.** (2006c): Sustainable Tourism Development on Kenya's Coast: a Hospitality Sector View, "in **ANATOLIA: An International Journal of Tourism and Hospitality Research**, Vol.17 No.2: 189 – 209, published in Ankara, Turkey.
29. **Irandu, E.M.** and Rhoades, D. (2006b): The Development of Jomo Kenyatta International Airport as a Regional Aviation Hub in the **Journal of Air Transportation**, Vol.11 No.1: 50 – 64, Published by the Aviation Institute, University of Nebraska, Omaha, USA.
30. **Irandu, E.M.** and Rhoades, D. (2006a): The Challenges of Sustaining African Aviation: The Case of Jomo Kenyatta International Airport in **World Review of Entrepreneurship, Management and Sustainable Development**, Vol.2, No.4: 362 – 374, USA
31. **Irandu, E.M.** (2005): Air Transport and Growth of Tourism in Kenya, in **HEKIMA, Journal of Humanities and Social Sciences**, Vol.3, No.1: 14 – 26, published in Nairobi, Kenya.

- 32. Irandu, E.M.** (2004c): The Role of Tourism in the Conservation of Cultural Heritage in Kenya in **ASIA PACIFIC JOURNAL of Tourism Research** Vol.9 No.2: 133 – 150, Published in Hong Kong, China.
- 33. Irandu, E.M.** (2004b): The Potential for Cruise Tourism in Kenya “in **ANATOLIA: An International Journal of Tourism and Hospitality Research**, Vol.15 No.1: 69 – 86, Published in Ankara, Turkey.
- 34. Mutoro, H. and Irandu, E.M.** (2004a): **Tropical Urbanism with Riverrine Focus: Settlement Formation and Distribution in Lower Grand Falls, Upper Tana River Catchment** in **Journal of Environment and Culture**, Vol.1, No.1: 10-20, Published in Nigeria.
- 35. Irandu, E.M.** (1983): “Urban Transportation and Land Values: the case of Mombasa, Kenya”, in **ARDHI**, Journal of Land Development, University of Nairobi.

### **Chapters in Scholarly Books**

- 36. Irandu, E.M.** (2023). Impact of Climate Resilient rural road transport on human security in Kenya in **Human security and sustainable development in East Africa** edited by Asaka, J.O and Alice-A.Oluoko-Odingo. Routledge, New York, USA.
- 37. Irandu, E.M.** and Ndolo, I, J. (2018b). Green Energy for the City of Nairobi: a path to sustainable future in **Food Security, renewable energy and water: Insights on sustainability**, edited by Oluoko-Odingo, Ayiemba, E.H.O, and Muthama, J, N. Kenya Literature Bureau, Nairobi.
- 38. Irandu, E.M.** (2018a): Air Transport Security in Kenya in **Air Transport Security: Issues, Challenges and National Policies**. Edward Elgar Publishers, 180-198.
- 37. Irandu, E.M.** and Shah P. (2016b). Development of Cultural Heritage Tourism in Kenya: a Strategy for Diversification of Tourism Products in the **Conservation of Cultural and Natural Heritage in Kenya: Cross-Disciplinary Approaches In Theory and Practices**, edited by Anne-Marie D. and Mugwima N. 129-147.
- 39. Irandu, E.M.** (2016a): Multimodal Freight Transport Security in Kenya in **Multimodal Transport Security: Frameworks and Policy Applications in Freight and Passenger Transport**. Edward Elgar Publishers, 124-142.
- 40. Irandu, E.M.** (2015): Global Change and Sustainable Mountain Tourism: The Case of Mount Kenya. In **Impact of Global Changes on Mountains: Responses and Adaptation**. Aw Publication, 187-207.

- 41. Irandu, E.M. (2001): “CDM “Transport Projects on Mass Transport and Non-Motorized Transport in Odingo, R.S. (Ed): The Clean Development Mechanism in Africa, a Framework for the Design of Sustainable Development Projects, pp. 197-201, Climate Network Africa, Nairobi.**
- 42. Irandu, E.M. (1999): “Urban Transport and Communication”, in Environment and Development in Kenya, pp. 83-110, Kenya National Academy of Sciences, A Public Lecture Series, Nairobi, Kenya**

### **Reviews in International Refereed Journals**

- 43. Irandu, E.M. and J.K. Omoke (2000): Tourism and African Development: Change and Challenge of Tourism in Kenya, Review of Isaac Sindiga (1999) in Third World Planning Review, Vol.22, No.4: 458-460.**
- 44. Irandu, E.M. and Mary N. Kinyanjui (1998): Geography of Sub-Saharan Africa review of Aryeetey, S. (Ed) (1998) in the Journal of African and Asian Studies, Vol.32, No.4: 409-410.**

### **Books:**

#### **Edited**

- 45. Oluoko, -Odingo, A.A., Khroda, G.O., Irandu, E.M. and Omoke, J.K. (2019). (Eds).Food Security and Livelihoods in Kenya: Drivers, Challenges and Sustainability Issues. Kenya Literature Bureau, Nairobi.**

### **Teaching Modules**

- 46. Irandu, E.M. (2012): SGP/CGP 321: Economic Geography, published by the Centre for Open and Distance Learning, University of Nairobi.**
- 47 Irandu, E.M. & S. Mikalista, (2011): CGP/SGP 332: Geography of World Economies, published by the Centre for Open and Distance Learning, University of Nairobi.**
- 48. Irandu, E.M. & J.K Omoke,. (2010): CGP/SGP 327: Geography of Recreation and Tourism, published by University Council, University of Nairobi.**
- 49. Irandu, E.M. (2009): CTO 304: Tour Operations Management, Published by the Centre for Open and Distance Learning, University of Nairobi.**
- 50. Irandu, E.M. and E. Wahome (2008): CTO 103: Tourist Attractions & Facilities, published by the Centre for Open and Distance Learning, University of Nairobi.**

**51. Irandu, E.M.** (2006): **SGP 307: Economic Geography I**, published by Faculty of Science, University of Nairobi.

**52. Irandu, E.M. & J.M. Moronge** (2005): **SGP 306: Regional Development I**, published by Faculty of Science, University of Nairobi.

#### **Secondary School Books**

**53. Akivaga, P and Irandu, E.M.** (2016b): **Star Secondary Geography Revision Paper 2** published by Longhorn Kenya Limited, Nairobi, Kenya.

**54. Akivaga, P and Irandu, E.M.** (2016a): **Star Secondary Geography Revision Paper 1** published by Longhorn Kenya Limited, Nairobi, Kenya.

**55. Irandu, E.M. & Akivaga, P.** (2005): **Gateway Secondary Geography Revision**, published by Longhorn.

**56. Irandu, E.M.** (2000). **Target Secondary Geography. Form 2 Students' Book.** Longhorn, Nairobi, Kenya.

**57. Irandu, E.M.** (1999). **Target Secondary Geography. Form 1 Students' Book.** Longhorn, Nairobi, Kenya.

**58. Irandu, E.M.** (1989): **A complete Junior Course in Human and Physical Geography**, published by Longman, Kenya.

#### **REFEREED CONFERENCE PROCEEDINGS:**

**59. Parita S. and Irandu, E.M.** (2014). **"Ecotourism as a Strategy for promoting Conservation of Biodiversity in the Tana River County"**, A paper presented at the National Scientific Conference for the Tana River County, February 25<sup>th</sup> to 27<sup>th</sup> 2014., Published jointly by NEMA, Wetlands International and University of Nairobi.

**60. Irandu, E.M.** (2007): **Wildlife Tourism and Local Communities in Kenya** in **ATLAS: Aspects of Tourism in Kenya**.

**61. Irandu, E.M.** (1998): **"Promoting Sustainable Mobility in Kenya"**, Published as part of a Study Paper for the Member Churches of the World Council of Churches (WCC), Geneva Switzerland.

**62. Irandu, E.M.** (1996): **The Rural Road Transport Infrastructure and Sustainable Development in Kenya**, A Paper Presented at the Sixth Annual Conference of the Eastern Africa Environmental Network (EAEN), Louis Leakey Memorial Hall, National Museums of Kenya, 26-27<sup>th</sup> May.

- 63. Irandu, E.M. (1995b): The Maritime Infrastructure and Economic Development in Kenya**, Proceedings of the 50th Anniversary of Engineers Conference on the Engineer and Infrastructure, KICC, Nairobi, 22-24th November.
- 64. Irandu, E.M. (1995a) Tourism and Sustainable Development in Kenya**, in the Proceedings of the Fifth Annual Conference of the Eastern Africa Environmental Network (EAEN), Louis Leakey Memorial Hall, National Museums of Kenya, 26-27th May.
- 65. Irandu, E.M. (1989): “Urban Transportation in Kenya’s Medium Sized Towns”: the case of Eldoret**, in the proceedings of the first National Workshop on Planning and Development of Eldoret and Environs, 14th-18th August at Sirikwa Hotel, Eldoret.
- 66. Irandu, E.M. (1988): The Bus and Rail Commuter Services in Nairobi**, in the proceedings of the first international conference on spatial planning of Nairobi. 13<sup>th</sup> –17<sup>th</sup> December, Kenyatta International Conference Centre, Nairobi Kenya.

## **POST GRADUATE SUPERVISION**

### **Post Graduate Diploma**

Nancy.Aluoch Ounga. Research topic: **The Human Factors Influencing Road Traffic Accidents in Nairobi**. Awarded Postgraduate Diploma in Strategic and Security Studies in 2012.

### **Masters Degrees Successfully Completed**

- 1. David S. Abwalaba. Research topic Analysis of Indigenous Knowledge in wildlife conservation: a case study of the Shompole Conservancy, Kenya.** Awarded Master’s degree in December 2021.
- 2. Magdalene Kikuvu. Research topic: Effects of drought on household livelihoods in Ngomeni Ward, Mwingi North Sub County, Kitui County.** Awarded master’s degree in December 2021.
- 3. Lydia, N. Masikonte. Research topic: Potential Environmental and socioeconomic effects of geothermal exploitation on the local community: A case of Suswa Geothermal Plant.** Awarded Master’s Degree on December 11th, 2020.
- 4. Priscilla, N. Muchibwa. Research topic: Potential for Bike share in Upper Hill Area, Nairobi, Kenya.** Awarded Master’s Degree on December 11th, 2020.

5. Kithuka Daniel Muoki. Research topic: **An analysis of the Role of Periodic Markets in Rural Development in Mukaa Sub-county; Makueni County.** Awarded Master's Degree on December 20th, 2019.
6. Diana Ochieng. Research topic: **The Impact of Green Business Practices on an Organization's Performance. A Case Study of Safaricom Limited, Nairobi-Kenya.** Awarded Master's Degree, on December 20<sup>th</sup> 2019.
7. Waweru, Kabari, Michael.. Research topic. **Factors Influencing Environmental Concern and Pro-environmental Behaviour among University of Nairobi Students.** Awarded Master's Degree on December 20<sup>th</sup>, 2019.
8. Kul, Chaw, Johnson. Research topic: **Potential Impact of the Withdrawal of 14 seater Matatus in Nairobi County.** Awarded Master's Degree in December 2017.
9. Otieno, Vivvianne, Ndiakha Research topic: **Improving Public Participation and Consultation in Environmental Impact Assessment (EIA): A case study of Nairobi County.** Awarded Master's Degree in December 2017.
10. Njoroge, Irene, Wanjiku. Research topic **Determinants of adoption of Cleaner Production in Manufacturing Industries: A study of selected industries in Nairobi** Awarded Master's Degree in December 2017.
11. Omondi Jack Frederick. Research topic: **An assessment of Eco-village Tourism Potential as a Model for Sustainable Ecotourism; A case study of western Kenya.** Awarded Master's Degree in December 2015.
12. Mwangi, Frederick Karema. Research topic: **The role of Commercial Motorcycles in the Rural Economy: a case study of Laikipia East sub-county, Kenya.** Awarded Master's Degree in December 2015.
13. Catherine Njeri. Research topic: **Effects of Dust on the Wellbeing of People in Learning Institutions along Wamagana-Ihithe Road in Nyeri County During its improvement.** Awarded Master's Degree in 2014.
14. Vimbainashe Makombe. Research topic: **Analysis of the Environmental Proactivity Strategies in the Zimbabwe Poultry Value Chain.** Awarded Master's Degree in 2014.
15. Jairus Machogu. Research topic: **Assessment of the Environmental Impacts of Wildlife based Tourism in Kenya's protected areas: A case study of Maasai Mara National Reserve.** Awarded Master's in 2014.
16. Wakesho, C. Research topic: **Mainstreaming Environmental Management in Corporate Organizations: A Case Study of Kenya Commercial Bank (KCB).** Awarded Master's Degree in 2013.

17. Cherotich, E. Research topic: **E-waste Management in Kenya: A Case Study of Mobile Phone Waste in Nairobi.** Awarded Master's Degree in 2013.
18. Moraa, J. Research topic: **An Assessment of the Adoption and Level of Implementation of Cleaner Production by Star-rated Hotels in Nairobi County, Kenya,** Awarded Master's Degree in 2013.
19. Maina, M. Wanngondi. Research topic: **An Investigation of Commuter Satisfaction in the Use of Muthurwa Terminus.** Awarded Master's Degree in 2013.
20. Katsoleh, G.C. Kahindi. Research topic: **Awareness of Environmental Laws: A case study of Nairobi residents living around Dandora dumping site.** . Awarded Master's Degree in 2008.
21. Gichira, P.S. Research topic **The Role of Religion in Sustainable Development: A Study of the Work of the Church in Africa in the Conservation of Forests.** Awarded Master's Degree in 2009.
22. Maina N Manyeki. Research topic **Energy Options for Secondary Schools in Thika District, Kenya,** Awarded Master's Degree in 2007.
23. Kamithi, Ng'ang'a. Research topic **The Role of Eco-Tourism in Environmental Management: A Case Study of Southern Laikipia Plateau, Laikipia District.** Awarded Master's Degree in 2005.
24. Bundi, J. Miriti. Research topic **Road Transport Problems: A Case Study of Tea Roads in Meru South,** Awarded Master's Degree in 2005.
25. Mary-Anne Njeri Kamau. Research topic **The Role of Tourism in Regional Development: A case study of Village Tourist Centres of the Coast Province, Kenya.** Awarded Master's Degree in 2000.
26. Kariga, John Ng'ang'a. Research topic **An Investigation of Some Economic Impacts of Feeder Roads in Rural Areas: A Case study of Thika District, Kenya.** Awarded Master's Degree in 2000.
27. Achieng' Bertha Othoche. Research topic **The Economic Impact of Tourism on the Kenyan Economy: A case study of Lake Victoria Region.** Awarded Master's Degree in 2000.
28. Kyaka Joshua Mbunya. Research topic: **The Spatio-Temporal Structure of Periodic Livestock Markets and their Associated Environmental Effects in Laikipia District, Kenya.** Awarded Master's Degree in 1999.



**29. Bernard Wasike Wafukho. Research topic: Industrial development planning: The case of development inducing and development supporting industries of Western Province, Kenya. Awarded Master's Degree in 1997.**

**30. Stephen Lugarire Ongaro. Research topic: Transportation as a medium for spatial Interaction: A case study of Kenya's Railway Network. Awarded Master's Degree in 1995.**

### **Masters on-going**

**1. Nicholaus J. Mwakasege. Research topic: Tourism Growth and its Impacts on Sustainable Use of Freshwater Resources: A Case Study of Zanzibar Stone Town. Waiting to defend project.**

**2. Wachuka, M. George. Research topic: The Effects of Tourism Development on Poverty Reduction in Rural Communities: Case Study of Laikipia County. Proposal stage.**

**3. Cosmas Likhanga. Research topic: Challenges and Potentials of Ecotourism as a form of Conservation and Sustainable Development on Kakamega Forest Ecosystem. Proposal stage.**

**4. Oguta Omondi Evance. Research topic: The Effects of Linear Infrastructures on Community Water Access, Case of Standard Gauge Railway Corridor. Proposal stage.**

### **Doctorate Successfully Completed**

**1. James Moronge Miyogo. Research topic Industrial Restructuring in the City of Nairobi: A Case Study of Industries in the Formal Manufacturing Sector. Awarded Ph.D.**

**2. Ondicho, T: Research topic: Tourism, Power and Politics: The Challenges of Maasai Involvement in Tourism Development. Awarded Ph.D.**

**3. John Kioko Musingi. Research topic Effects of Large-Scale Multi-Purpose Dams on Public Health and Food Security: A Case Study of Masinga Dam, Kenya. Awarded Ph.D.**

**4. Bundi, Jeremy Miriti. Research topic: An Analysis of the effects of Environmental and Governance Factors on Road Safety Problems. A Case Study of Road Accident Black Spots in the City of Nairobi, Kenya. Awarded Ph.D.**

**5. Togoch Kemboi. Research topic: Analysis of Human-Wildlife conflict on livelihood diversification among communities living adjacent to Kamnarok National Reserve in Baringo County, Kenya. Awarded Ph.D.**

## **Doctorate on-going**

Kilaka, B. Kithome. Research topic: “**Effects of declining Agricultural Land Units on Food Security; A case of Makueni County, Kenya.** Preparing final draft of PhD Thesis.

## **SEMINARS/CONFERENCES/WORKSHOPS/SYMPOSIUMS**

1. Reducing emissions through sustainable waste management in Nairobi, Kenya. Invited paper presented at the Annual Environment Conference, November 17th-18<sup>th</sup>, 2022. Environment Institute of Kenya (EIK), Nairobi, Kenya.
2. Wanshou Forum on a New era of China-Africa Cooperation in the context of South-South cooperation, Crowne Plaza, Nairobi, 2<sup>nd</sup> June, 2018.
3. China-Africa Infrastructure cooperation in Africa: The case of the Mombasa-Nairobi Standard Gauge Railway Conference, jointly organized by the Government of Kenya and the Chinese Embassy, 24<sup>th</sup> -26<sup>th</sup> June, 2018, Intercontinental Hotel, Nairobi.
4. Joint University of Nairobi and Kenyatta University New Generation Researchers Workshop at Utalii Hotel, Nairobi, 8<sup>th</sup> august 2018.
5. Wanshou Forum on Targeted Poverty Alleviation, Beijing, China, Wednesday, 24 October 2018, attended as a member of the African Think Tank delegation.
6. Irandu, E.M. (2016). Keynote speech on ‘Tourism and Travel Industry: Emerging issues and good practices that will influence the future of the industry in Africa’. At the [Moi University 11th International Conference, September 13, 2016 – September 17, 2016](#), Margaret Thatcher Library (MTL), Moi University-Main campus, Eldoret.
7. Odingo, R.S., Irandu, E.M. and Oludhe (2015). Climate Change and the Survival of Maasai Mara Ecosystem. An invited paper presented at the Summit and Workshop held in the Maasai Mara University, organized by the Maasai Mara Science and Development Initiative, 21<sup>st</sup> – 24<sup>th</sup> April, 2015.
8. **Irandu, E.M.** and Parita Shah. 2014. The Potential and Challenges of Promoting Ecotourism in Kenya’s Wetlands, a paper presented at the First African Workshop on Sustainable Tourism

jointly organized by Strathmore University and African Fund for endangered Wildlife, 23<sup>RD</sup> - 25<sup>TH</sup> October 2014.

**9. Irandu, E.M.** and Parita Shah. 2014. The Role of Ecotourism in Promoting Women empowerment and Community Development; Some Reflections from Kenya, a paper presented at the Symposium organised by the French Research Institute in Africa and the National Museums of Kenya, Louis Leakey Hall, Nairobi, 16<sup>th</sup> – 17<sup>th</sup> July. 2014.

**10. Parita S. and Irandu, E.M.** (2014). Ecotourism as a Strategy for promoting Conservation of Biodiversity in the Tana River County, A paper presented at the National Scientific Conference for the Tana River County, February 25<sup>th</sup> to 27<sup>th</sup>

**11.** Workshop for the Preparation of Yala Swamp Management Plan organised by the National Environment Management Authority (NEMA), 18th November-22<sup>rd</sup> November 2013, at Siaya Technical Institute, Siaya, Siaya County.

**12.** Joint Workshop to discuss Lessons Learned on Major Road Projects organised by the Earth Institute of Columbia University, New York and the Department of Geography and Environmental Studies, University of Nairobi, Main Campus, University of Nairobi, 19<sup>th</sup> November 2012. I presented our Environmental Impact Assessment Report on Thika Superhighway.

**13. Irandu, E.M.** (2011): Findings of Scoping Study on Environmental Impacts of Thika Superhighway an Invited Paper for the Public Forum, Pan Affric Hotel, 25<sup>th</sup> November, 2011, Organised by KARA (Kenya Association of Residents Alliance).

**14.** Regional Workshop on the Implementation of COMESA Facilitation Instruments along the Northern Corridor, 20<sup>th</sup> - 21st July 2009, Hilton, Nairobi, Kenya. I presented the Final Report on Assessment of the Implementation of the Transit Transport Facilitation Instruments in Kenya at the Workshop.

**15. Irandu, E.M.** (2007): Draft Report on the Assessment of the Implementation of the Transit Transport Facilitation Instruments in Kenya, Common Market for Eastern and Southern Africa, National Assessment Workshop, Nairobi, 13<sup>th</sup> – 14<sup>th</sup> December, 2007.

- 16. Irandu, E.M. (2005):** Trade and Transport Facilitation with specific Reference to the East African Community, an Invited Paper for the Seminar on the East African Community Customs Union, Silver Springs Hotel, 21<sup>st</sup> -22<sup>nd</sup> March, Organised by the Centre for Trade and Facilitation and Capacity Building Africa.
- 17. Irandu, E.M. (2003):** Wildlife Tourism and Local Communities in Kenya, an Invited Paper for the ATLAS Conference, Arusha, Tanzania, 20 – 22 Feb.
- 18.** East African Rail Study Review Workshop Organised by the East African Community (EAC) Secretariat and Technoserve Inc., EAC HQs, Arusha Tanzania, April, 29<sup>th</sup>-30<sup>th</sup>, 2002.
- 19.** Workshop to Review the First Draft of Kenya's Initial National Communication to the Conference of the Parties to the United Nations Framework. Convention on Climate Change (UNFCCC), Outspan Court and Country Club, Nyeri, 17th-18th Dec. 2001.
- 20.** Workshop on Factoring Weather and Climate Information into an Integrated Disaster Management Policy, 13th-14<sup>th</sup> Sept. Nairobi Safari Club - participated as Reviewer for Paper on Energy, Industry, Transport and Communications Sector, 2001.
- 21.** HIV/AIDs and Transport Workshop, Kampala, Uganda, organised by the Uganda National Transport Forum, July. 23rd-25<sup>th</sup>, 2001.
- 22.** Consultative Pre-Plan Workshop for Preparation of the 9<sup>th</sup> National and 7<sup>th</sup> District Development Plans, AFC Training Institute, Lang'ata, 4th-7<sup>th</sup> March 2001.
- 23.** Environment 2000 Conference on Kenya's state of the Environment United Nations Accommodation Centre, Gigiri, Nairobi, 23rd-27th October. Presented a Paper on the "Urban Transportation and the Environment. The Case of Nairobi, Kenya".
- 24.** International Workshop on understanding and integrating sustainable development into the Clean Development Mechanism (CDM) of the Kyoto Protocol-Focus on Africa - A Climate Network Workshop for African Experts held on 27th-29th September 1999 at Hilton Hotel, Nairobi. Presented two Pro-type Projects on Mass Transport and Non-Motorised Transport.

**25.** Annual Engineers Conference on the Role of the Engineer in Industrialization at KICC, Nairobi 13th-15th November, 1996 Presented a Paper on Prospects and Constraints of Ecologically Sustainable Industrial Development in Kenya.

**26.** Workshop on Appraising Kenya's Urban and Regional Planning Policy and Development Strategies, Silver Springs Hotel, 14th-15th December. Presented a Paper on the Role of Air Transport System in Regional Development in Kenya. 1995.

#### **MEMBERSHIP IN PROFESSIONAL ORGANISATIONS:**

2005 to-date : Lead EIA Consultant, NEMA, Reg. No. 0660.  
2014 to-date : Member, Environment Institute of Kenya (EIK)  
2015 to-date : Member of the Maasai Mara Science and Development Initiative

#### **CONSULTANCY AND PROFESSIONAL SERVICES:**

**1.** Prepared a research paper titled 'The China-Africa infrastructure cooperation: reflections on the Standard Gauge Railway (SGR) in Kenya and the East African Region' which formed basis for breakout sessions in the just concluded Seminar on China-Africa infrastructure cooperation organised jointly by the African Economic Research Consortium (AERC) and Chinese Embassy of the People's Republic of China in Nairobi, 24<sup>th</sup> -26<sup>th</sup> June 2018.

**2.** Involved in the Maasai Mara Research challenge for the next 20 years (2015-2035), a joint research project involving five Universities in Kenya (Maasai Mara and University of Nairobi) and Aarhus University in Denmark. Project is funded by EU and Danish Universities. One of its major components is impact of climate change in the Mara ecosystem especially on tourism and wildlife management. I am the main researcher in that area.

**3.** Carrying out research on climate compliant tourism development in Kenya using own resources.

**4.** Team Leader for the development of methodologies and tools for assessing climate change risks in Agriculture in ASALS, Kenya for the Ministry of Agriculture and Irrigation.

**5.** Team Leader for the preparation of Environmental and Social Management Framework (ESMF) for the Ministry of Devolution and Planning (2016).

**6.** Participated in drafting NMT policy for Nairobi City by making comments on it for Kenya Association of Residents Alliance (KARA) on 10<sup>th</sup> Feb 2015.

7. Team Leader for Environmental and Social Assessment (ESA) in 21 counties in Kenya for the Kenya Agricultural Productivity and Agribusiness Project (KAPAP), Ministry of Agriculture and Irrigation (2015).
8. Supervising masters' projects. on climate proofing in transportation in Kenya.
9. Undertook a joint EIA Scoping study on Thika Highway with the Centre for Sustainable Urban Development of Earth Institute, Columbia University (2013)
10. Has been involved in many EIA and Audit projects involving bore holes, hotels etc For example, carried out Environmental audit for Mr. John G.Kiburi's New Site Bar and Restaurant in Umoja II in July 2011 and another audit for Mr. David N. Ngoi's Hotel in January 2012.
11. Involved in Curriculum Review Project on Sustainable Tourism in East Africa as part of ACP-EU EDULINK Programme funded by European Union (2007).
12. Carried out consultancy work on country assessment study on implementation of COMESA Transit Transport facilitation instruments in Kenya (2007). The findings of the study were presented in a stake-holders workshop held in December 2007 in Hilton Hotel, Nairobi.
13. Team leader of a Study on Quantification of Non-Tariff Barriers and Cargo Diversion along the Northern Corridor, for Technoserve Inc., 2002, funded by USAID. The study identified various Non-Tariff Barriers such as cumbersome customs clearance procedures at the border posts and numerous road blocks.
14. Undertook a Study on Air Transport as a Mode of Transport for Regional Trade in East Africa, for Technoserve Inc., 2001, funded by USAID. The findings of the study were presented to a peer review workshop in Nairobi Safari Club.
15. Undertook a Study on Improving Railway Transport in Kenya: Policy Options and Achievements to date, for Technoserve Inc., 2000, funded by USAID. The findings of the study were presented to a peer review workshop in Nairobi Safari.

## RECOGNITION

- Member of the **African Think Tank** Group for China-Africa Cooperation that visited China from 20<sup>th</sup> October 2018 to November 2<sup>nd</sup> 2018.
- Invited by the School of Tourism, Hospitality and Events of Moi University, Eldoret to give a **Keynote speech** on '**Tourism and Travel Industry: Emerging issues and good practices that will influence the future of the industry in Africa**' at the 11th International Conference, September 13, 2016 – September 17, 2016.

## **FUND RAISING FOR UNIVERSITY**

- Undertook a joint EIA Scoping study on Thika Highway as the Principal Researcher with the Centre for Sustainable Urban Development of Earth Institute, Columbia University (2013). This project enabled the Department of Geography and Environmental Studies to obtain some teaching materials including some equipment. Some funds also came to the University Grants.
- Involved in Curriculum Review Project on Sustainable Tourism in East Africa as part of ACP-EU EDULINK Programme funded by European Union (2007). This was a big project involving the harmonisation of Tourism curriculum in 4 major Universities in East Africa, namely, University of Dar es Salaam, Makerere, Moi and the University of Nairobi. I am the one who prepared the concept note and the questionnaire for approval by EU. The project was worth **€500, 000** and was administered by the University of Nairobi Grants.

## **COMMUNITY SERVICE AND OUTREACH**

- Guest speaker at Chuka Boys, Chuka Igamban'gombe, Tharaka Nithi County. Invited as motivational speaker to encourage students to improve performance in national examinations. **26<sup>th</sup> February 2010.**
- Guest of Honour during Lion's Club, Tharaka Branch(Tharaka Nithi County) event organized to distribute sanitary towels to Primary school girls from Std 6-Std 8., **July 30<sup>th</sup>, 2011.**
- Motivational speech at Limuru Girls High School, Kiambu County, June 15<sup>th</sup> 2013. The theme was: **The relevance of Humanities in Education, special emphasis on Geography. June 15<sup>th</sup> 2013.**
- Guest speaker at Karani Secondary School, to motivate students to improve performance in the national examinations. I also donated books to the School. **March 15<sup>th</sup> 2014**
- Presided over fundraiser for Marimanti Primary School, Tharaka Constituency, Tharaka Nithi County. Donated books also. **May 3<sup>rd</sup>, 2014.**
- Funded Secondary education for 2 children from poor families, one from Mukothima Primary School, Tharaka North and one from Marimanti Primary School, Tharaka South (Form 1-4), **2015-2018.**

## **REFEREES**

**Prof. Richard K. Mibey,  
Former Vice Chancellor, Moi University,  
Department of Biology,  
University of Nairobi,  
P.O. Box 30197-00100,  
Nairobi, Kenya.**

**Prof. Jenasio Kinyamario,  
CEO, National Biosafety Authority,  
NACOSTI Building, Loresho,  
Off Waiyaki Way,  
P.O. Box 28251-00100,  
Nairobi, Kenya.**

**Prof. Simon Eric Mitema,  
Chairman of Council,  
Bomet University College,  
P.O. Box 701-20400,  
Bomet, Kenya.**