


1. ACADEMIC STAFF PROFILE – EDWIN WAMUKAYA OKONYO

1.1. Personal Profile

1.1.1. Personal Details

Name:	EDWIN WAMUKAYA OKONYO	
Title/Qualification:	MSc. Geo-information Science and Earth Observation	
Department:	Department of Urban and Regional Planning	
Designation/Position:	Lecturer	
Email:	wamukaya.edwin@ku.ac.ke	
Contact Address:	P.O. Box 14913 – 00100 Nairobi, Kenya	
Areas of Specialization:	<ul style="list-style-type: none">• Urban Planning and Management• ICTs for Urban Development and Monitoring - GIS mapping, GIS database, GIS image analysis, GIS developer	
Research Interests:	<ul style="list-style-type: none">• Urban land governance• Urban strategies and planning• Urban environment, sustainability and climate change• Urban housing, equity and social Justice• Spatial decision support systems	
Google Scholar:	wamukaya.edwin@ku.ac.ke	
ORCID ID:	https://orcid.org/0000-0002-4408-5929	

1.1.2. Academic & Professional Qualifications

- Ph.D. (Urban Management) – UoN (Kenya), (in progress)
- MSc. Geo-information Science and Earth Observation (Urban Planning and Management) - University of Twente (The Netherlands), 2008
- Bachelors of Arts (Economics & Geography) – UoN (Kenya), 2004

1.1.3. Employment History

- 2021 -: **Lecturer** – Department of Urban and Regional Planning, Kenyatta University
- 2015 – 2016: **GIS Specialist** – United Nations Development Program – Office of the United Nations Resident and Humanitarian Coordinator, Nairobi, Kenya
- 2013: **GIS Specialist** – United Nations Centre for Regional Development – Africa Office, United Nations Office – Nairobi, Kenya
- 2012 -: **Planner/ GIS Specialist** – Urban, Regional and Environmental Planners International Ltd.
- 2012: **GIS/ CAD Specialist** - Rwanda Social Security Board, Kigali
- 2012: **GIS Specialist** – Mipango Institute Ltd.
- 2012: **GIS Specialist** – Repcon Associates
- 2010 – 2012: **Planner/ GIS Specialist/ Business Development Manager (East & Southern Africa)** – Coda Consulting Group
- 2010: **Planner/ GIS Specialist** – Urban Design and Planning Services Unit, Urban Development Branch – UN-HABITAT, United Nations Office – Nairobi, Kenya
- 2009: **GIS Specialist** – Syagga and Associates Ltd.
- 2009 -: **GIS Assistant/ Research Assistant** – Centre for Urban Research and Innovations
- 2008 – 2010: **Part-time Lecturer** – Department of Urban and Regional Planning, UoN
- 2006 – 2010: **Planner/ GIS Specialist** – Centre for Urban and Regional Planning Ltd.
- 2004 – 2005: **GIS Intern Assistant** – Dept. of Physical Planning, Ministry of Lands and Settlement

1.1.4. Achievements

- GIS Specialist in the field of **Urban planning, City planning, Transportation planning and Environmental planning**. I bring more than 15 years' experience working with GIS in the field of spatial planning with expertise in ESRI's ArcGIS, Spatial Analysts, 3D Analyst, Network Analyst, Visualization and modelling, Spatial multi-criteria decision analysis, ArcGIS Online, QGIS, ILWIS, Global Mapper, Google Earth, AutoCAD, etc. Key skillsets: Analytical skills, Data analytics, Communication skills, Leadership, Results-focus, Active listening.

1.2. Publications

1.2.1. Referred journals

1. Wamukaya, E., & Mbathi, M. (2019). Customary system as 'constraint' or 'enabler' to peri-urban land development: Case of Kisumu city, Kenya. *Town and Regional Planning*, 75, 77-90.
<https://doi.org/10.18820/2415-0495/trp75i1.9>

1.2.2. Books and book chapters

- N/A

1.2.3. Conference/ Workshops/ Seminar papers

1.2.3.1.1. Conference papers

1. ICT usage in Kenya for Citizen Participation in Security (2017).
2. Geo-Information technology applications for land and resource management systems (2013).

1.2.3.1.2. Workshops papers

1. Case Study on the establishment of a Physical Address System for Nairobi City County (2016).
2. GIS as a decision support tool for planning waste management (2009).

1.2.3.1.3. Seminar papers

1. Theoretical understanding of GIS principles and techniques and their application as supporting tools for local and regional development planning and management (2013).

1.2.3.1.4. Student Co-authored Publications

1. Multimodal transport modelling for Nairobi (2009)
<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.149.1923&rep=rep1&type=pdf>

1.2.3.1.5. Other Publications

1. Mapping and profiling of informal settlements in Nairobi (2014)
2. Detailed technical study for design of the IPRC-South campus master plan and technical study for the construction of training of trainers (T.O.T) center and new educational facilities (2013)
3. Ewaso Ng'iro North river basin integrated regional development plan, 2010 - 2040 (2013)

4. Local development plans and detailed action area plans of prioritized areas for Ruhango and Kamonyi urban centers (2012)
5. Kipchorian and Kundos sub-catchment management plan for Water Resources Management Authority (2012)
6. Preparation of base, thematic and issue maps for Siaya town (2010)
7. Development of a land use database for the city of Nairobi (2010)
8. Preparation of an integrated solid waste management plan for Nairobi City (2010)
9. Preparation of the integrated Coast region master plan (2009)
10. preparation of a flood mitigation strategy 2009 – 2012 for the Ministry of Water and Irrigation (2009)
11. Spatial planning concept for the Nairobi Metropolitan Region (2009)
12. Preparation of Coast province enumeration area maps for the 2009 Kenya population and housing census (2009)
13. Preparation of web-based information system (WBIS) for Gongoni Township, County Council of Malindi (2006)

1.3. Research

1. Ph.D. (Urban Management) – **Dynamics and implications of urban sprawl in Nairobi Metropolitan regions** (in progress)
2. Wamukaya, E. (2008): **Customary tenure: ‘opportunity’ or ‘obstacle’ to urban land development? The case of Kisumu City, Kenya** https://webapps.itc.utwente.nl/librarywww/papers_2008/msc/upm/okonyo.pdf

1.4. Funded Projects

- N/A

1.5. Conferenced/Workshops/Seminars Attended

1.5.1. Conferences Attended

1. ICT usage in Kenya for Citizen Participation in Security. Presented at the National Committee on Citizen Participation in Security (CPS); “Reaching out to the Community”, Workshop for Faith Based Broadcasters (FBB), KBC and Media Max producers and reporters - Multimedia University; Nairobi, Kenya (28th Feb. to 1st Mar. 2017)
2. Geo-Information technology applications for land and resource management systems. Presented at the Architectural Association of Kenya (AAK) annual convention - Sarova Whitesands Beach Resort; Mombasa, Kenya (21st to 24th Aug. 2013)

1.5.2. Workshops Attended

1. Second annual Pan-African College on Sustainable Cities fellow workshop. Zoom Meeting (17-19 Aug 2020).
2. First annual pan-African College on Sustainable Cities fellow workshop. Monkey Valley Resort – Cape Town, South Africa. (9-15 Jul 2019).
3. Use of Population Maps for Urban Planning and Health Management: Practical Exercises in QGIS at the Africa Population Health Research Centre (APHRC) - Nairobi, Kenya. Organized by MAUPP research project and UN-HABITAT (http://maupp.ulb.ac.be/flyers/MAUPP_workshop_31Jan19.pdf)
4. Case Study on the establishment of a Physical Address System for Nairobi City County. Presented at the National Addressing System (NAS) 2nd Buy-In Workshop - Laico Regency Hotel; Nairobi, Kenya (24th Oct. 2016)
5. Training workshop on development of data analysis, validation and plan preparation for the Tana and Athi Rivers Basins (TARDA). Masinga Dam (10 – 13 June 2013)

6. East Africa regional conference on approaches to informal settlement upgrading, Sarova Panafric Hotel, Nairobi (Jul. 2012)
7. Training program in urban planning and management for local authorities. Kigali, Rwanda (May 21 – Jun 1 2012)
8. Training program in web GIS and mapping for participatory planning and urban governance for Ruiru municipality staff. UoN (15 - 22 Jun 2010)
9. GIS as a decision support tool for planning waste management. Presented at the Nairobi City Integrated Solid Waste Management Plan, National Taskforce – Sarova Panafric Hotel, Nairobi (Jul. 2009)

1.5.3. Seminars Attended

1. Follow Up - Fellows Seminar Writing for Publication - Pan-African College on Sustainable Cities. Zoom Meeting (27 Nov. 2020)
2. Fellows Seminar Writing for Publication - Pan-African College on Sustainable Cities. Zoom Meeting (6 Nov. 2020)
3. Global Change Colloquium – University of Witwatersrand, Johannesburg. Microsoft Teams Meeting (7-8 Oct 2020).
4. Theoretical understanding of GIS principles and techniques and their application as supporting tools for local and regional development planning and management. Presented at the Africa Training Course on Local and Regional Development Planning and Management African Institute for Capacity Development (AICAD) - Juja, Kenya (17th to 29th Jun. 2013)

1.6. Supervision of Postgraduate Students

1.6.1. Masters

- N/A

1.6.2. Ph.D.

- N/A

1.7. Professional/Consultancy (Editor/Peer review in journals, Networks/Collaborations, External Examiner, Patents)

- N/A

1.8. Community Service and Other Engagements

- Member CITAM's Social Action, Advocacy and Governance ministry

1.9. Affiliation of Professional Bodies

1. Corporate Member - MKIP No. 0180 (Kenya Institute of Planners)
2. Graduate Member - No. 0220G (Kenya Institute of Planners)

1.10. National and International awards and Recognitions

- N/A

1.11. Administrative Positions Held

1.11.1. Recognized university administrative positions

- N/A

1.11.2. Other administrative positions Held

1. Member - Departmental curriculum review sub-committee for the Master of Science in Urban and Regional Planning curriculum in line with the Commission for University Education guidelines. (DURP - Kenyatta University, 2021)
2. Member - Departmental curriculum review committee for the Master of Arts in Urban and Regional Planning curriculum in line with the Commission for University Education guidelines. (DURP - UoN, 2008/2009)