

CURRICULUM VITAE FOR GODWIN OPINDE (PhD)

1.1 PERSONAL PROFILE

1.1.1 Personal Details

Name: Dr. Godwin Opinde

Department: Spatial & Environmental Planning

Designation: Lecturer

Contact Address: 43844-00100, Nairobi

Email: opinde.godwin@ku.ac.ke



Area of Specialization: Environmental Planning & Management

Research Interests:

- Climate change adaptation & Mitigation
- Environmental governance
- Waste management
- Air Quality Management
- Transport planning
- Renewable energy
- Informal economy
- Urban & Rural development

ORCID ID: <https://orcid.org/0000-0002-7442-4100>

Research Gate: <https://www.researchgate.net/profile/Godwin-Opinde>

Google scholar:

https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=godwin+Opinde&btnG=

Web of Science Researcher ID: OHR-6487-2025

Scopus ID:

<https://www.scopus.com/authid/detail.uri?authorId=57950073100>

1.1.2 Academic & Professional Qualifications

University Attended	Duration (Year)	Degree/ Certificate obtained
Kenyatta University (Kenya)	2015 - 2019	Doctor of Philosophy in Environmental Planning & Management
University of Twente Faculty of Geo-Information Science ITC – Enschede, (Netherlands)	2013 - 2013	Post graduate Certificate in GIS & Remote Sensing
Kenyatta University (Kenya)	2008 -2010	Masters in Environmental Planning & Management
Egerton University (Kenya)	2003 - 2007	Bachelors, B.Ed. Science

Professional Qualifications

Registered Lead Environmental Expert (NEMA, MEIK, IAIA)

Researcher

Environmentalist/Educationist

Other Trainings (Certification Obtained)

- Training of Trainers (ToT) for Leveraging UNEP's Resource Library for Strengthened Course Delivery on Pollution Management of the Oil & Gas Sector from 10th-12th December 2024, organized and supported by Norway Oil for Development Partnership United Nations Environment Programme, Geneva.
- Training on Low Emission Analysis Platform (LEAP) from 10th -13th September, 2024 at United Hotel, Mbankomo, Yaounde, Cameroon. Sponsored by Climate & Clean Air Coalition – UN Environment.
- Basic Cybersecurity training. 20-24th July, 2023. Online training by Ministry of Information, Communication and the digital economy & ICT Authority Kenya.
- Training on mainstreaming solid waste management in curricula at all levels of education. 21st-24th March 2022. Hosted by Ministry of Environment and Forestry. Appointed by VC- Kenyatta University.
- Crest online training course for supervisors of doctoral candidates at African Universities. 6th September 2021 to 31st January 2022, Offered by Center of Research on Evaluation, Science and Technology, Stellenbosch University
- Engagement, influencing and impact training for Danida supported researchers, November 2021.
- Air Quality Summer Certificate Course by Columbia University, 26th to 30th July 2021.
- Train the trainer training on Mental Health: Detection, Screening, Low intensity therapies and referrals, Hosted by Directorate of Wellness and rehabilitation services Kenyatta University and sponsored by Basic needs (NGO), 3rd to 6th June, 2019.
- Train the trainer training on integration of innovation and entrepreneurial content into teaching methodology, Hosted by Chandaria Business Incubation Center, 6th to 10th of May, 2019.
- Training on patent drafting, organized by Kenya Industrial Property Institute (KIPI) and Kenyatta University, Hosted by Chandaria Business Incubation Center, 18th to 22nd of March, 2019.
- Training Workshop on "Systems theory and higher education didactics, Organized by Center for Natural Resources and Development, Funded by DAAD, Hosted by Kenyatta University, 24th to 28th April, 2017.
- Regional Training Course on Scientific Communication and Publishing, organized by German Academic Exchange Services (DAAD) and Training Centre in Communication (TCC), 9th – 14th October, 2016.
- Certificate on Climate Change Vulnerability Mapping and Assessment, organized by Regional Center for Mapping of Resources for Development (RCMRD), 25th -29th July, 2016.
- Course on Public Participation – Organized by United States Environmental Protection Agency (US E.P.A) and East Africa Network for Environmental Compliance and Enforcement (EANECE), February, 2013.
- Certificate in Data Quality, Johns Hopkins Bloomberg School of Public Health, USA (March 2011).
- Certificate in Fundamentals of Monitoring and Evaluation, Johns Hopkins Bloomberg School of Public Health, USA (February 2011).
- Certificate in Demographic Health Survey, John Hopkins Bloomberg School of Public Health, USA (February 2011).
- Certificate in Conflict analysis, From United States Institute of Peace, USA (February 2011).

- CPA 1 (Certified public Accountant section 1) - July 2003

1.1.3 Employment History

1st January, 2022 to date: Lecturer, Kenyatta University, School of Engineering & Architecture, Department of Spatial & Environmental Planning.

1st January, 2020 to December 2021: Lecturer, Kenyatta University, School of Environmental Studies, Department of Environmental Planning and Management.

1st September 2014 to December 2019: Tutorial Fellow, Kenyatta University, School of Environmental Studies, Department of Environmental Planning and Management.

1st May 2012 to August, 2014: Part- time Lecturer, Kenyatta University, School of Environmental Studies, Department of Environmental Planning and Management.

1st February 2012 to October, 2014: Environmentalist, Kenya National Highways Authority (KeNHA) - National Headquarters, Department of Planning and Environment.

1st August 2011 to 31st January 2012: Post Graduate Intern: National Environment Management Authority (NEMA) – National Headquarters, Department of Compliance and Enforcement – Environmental Impact Assessment Section.

1.1.4 Achievements

- **Team Leader** -Organized Training workshop on East Africa Air Quality Management at Kenyatta University from 14th-18th September 2023. This workshop was attended by academia, Policy makers, Regulators, students and Civil society members from USA, United Kingdom, Sweden, South Korea, Rwanda, Uganda and Kenya. It was graced by Vice chancellor Kenyatta University, Representative from USAID and Director Columbia global Centre. https://www.youtube.com/watch?v=2E7ZcKjS_Ww
- **International Enlisted Expert** – Listed & contracted by Netherlands Commission for Environmental Assessment (NCEA) for period 2025-2030. To provide expertise in advisory processes, capacity development and development of knowledge products development.
- **Research grants** - Won 7 Research grants
- **Collaborations** - Initiated and actualized 4 MoU's between Kenyatta University and partners: Columbia University, North Carolina Agriculture and Technical State University, Stuttgart State Academy of Art and Design, Germany and OpenAQ, Washinton DC, USA.
- **Recognized** by Vice chancellor, Kenyatta University for being ranked among top five Kenyatta University Early Career Researchers publishing in Scopus indexed journals.
- **Recognized** by Director General National Environment Management Authority for opening a collaborative opportunity for Knowledge exchange and bench-marking with US Environmental Protection Agency & Columbia University USA to two NEMA officers.
- **Recognized** by Dean Nelson Institute of Environmental studies, Wisconsin University for successfully guiding the undergraduates on project focusing on Africa.
- **Examined** internal & external post graduate theses
- **Supervision:** Supervised 5 PhD students: 1-graduated, 2-submitting thesis for examination, 1-collecting data, 1- proposal development
- **Committee member:** Africa Clean Air Forum organized by AiQo Makerere University, World Resource Institute, Clean Air Fund and multiple partners. Event held in Nairobi.

- **International Planning Committee Member:** AELERT – INECE 2024 Global summit on Implementing and Enforcing Environmental Law held from 6th-8th November, 2024 in Brisbane, Queensland, Australia. Sponsored by International Network for Environmental Compliance and Enforcement (INECE) and Australasian Environmental Law Enforcement and Regulatory Network.

1.2 PUBLICATIONS

1.2.1 Refereed Journals

- Akello, G., Opinde, G., Lugumira, J. S., & Letema, S. (2026). Institutional arrangements for the governance of Manafwa catchment in Uganda: a policy arrangement approach. *International Journal of River Basin Management*, 1–16. <https://doi.org/10.1080/15715124.2026.2650799>
- Kariuki, D. W., **Opinde, G.**, & Letema, S. (2025). Patterns of perception of ecosystem services associated with trees outside forests along an urban-rural gradient. A case of Murang'a municipality, Kenya. *Forests, Trees and Livelihoods*, 1–18. <https://doi.org/10.1080/14728028.2025.2530023>
- Ezekiel N. Waiguru, Michael R. Giordano, Matthias Beekmann, Daniel M. Westervelt, Michael Gatari, John Mungai, **Godwin Opinde**, Albert A. Presto, Emilia Tjernstrom, V. Faye McNeill, R. Subramanian (2025). Seasonal multisite low-cost sensor measurements to estimate spatial and temporal variability of particulate matter pollution in Nairobi, Kenya, *Atmospheric Pollution Research*, 2025, 102630, ISSN 1309-1042, <https://doi.org/10.1016/j.apr.2025.102630>.
- Wambui Kariuki, D., **Opinde, G.**, & Letema, S. (2025). Exploring the diversity and distribution of trees outside forests along the urban-rural gradient of Murang'a municipality, Kenya. *Arboricultural Journal*, 1–16. <https://doi.org/10.1080/03071375.2025.2477955>
- Gertrude Akello, **Godwin Opinde**, Sammy Letema, Valuation of regulating ecosystem services in Africa: a review of policy impact reporting, *Integrated Environmental Assessment and Management*, 2025;, vjae032, <https://doi.org/10.1093/inteam/vjae032>
- **Opinde, G.**, Majale, C. and Nygaard, I., 2024. Hibernation of off-grid solar e-waste in Kenya - An unintended response to an emerging waste issue. *Environmental Innovation and Societal Transitions*. Volume 53. <https://doi.org/10.1016/j.eist.2024.100926>
- Kariuki, D. W., Letema, S. C., & **Opinde, G. O.** (2024). Determinants of spatial distribution of trees outside forests along urban-rural gradients: A review . *Sustinere: Journal of Environment and Sustainability*, 8(1), 103–122. <https://doi.org/10.22515/sustinere.jes.v8i1.385>
- Christine Majale, **Godwin Opinde**, Ivan Nygaard (2024) Bringing light, connectivity and waste to local communities: A study of the post-consumption value chain for off-grid solar devices in Kenya, *Energy Research & Social Science*, Volume 112, 2024, 103516, ISSN 2214-6296. <https://doi.org/10.1016/j.erss.2024.103516>.
- Stephen Balaka Opiyo, Sammy Letema & **Godwin Opinde** (2023) Characterizing rural households' livelihood vulnerability to climate change and extremes in Migori River Watershed, Kenya, *Climate and Development*, DOI: [10.1080/17565529.2023.2243612](https://doi.org/10.1080/17565529.2023.2243612)
- Stephen Balaka Opiyo, **Godwin Opinde** & Sammy Letema (2023) A perspective of sustainable livelihood framework in analysis of sustainability of rural community livelihoods: evidence from Migori River watershed in Kenya, *International Journal of River Basin Management*, DOI: [10.1080/15715124.2023.2216019](https://doi.org/10.1080/15715124.2023.2216019)
- Jackline Nyerere, Godwin Opinde, Purity Muthoni, Wilson Mutuma (2022). Incubating Graduate Entrepreneurs in Kenya: Nested Case Studies of Kenyatta University Chandaria Business

Innovation Incubation Centre. Education and development. Vol. 40(1).
<https://www.ajol.info/index.php/ped/article/view/231344>

- Stephen Balaka Opiyo, **Godwin Opinde** & Sammy Letema (2022) Spatio-seasonal variations in water quality status of Migori River in Kenya and associated household health risk implications: an application of a multidimensional water quality index approach, International Journal of River Basin Management, DOI: [10.1080/15715124.2022.2138409](https://doi.org/10.1080/15715124.2022.2138409)
- Stephen Balaka Opiyo, **Godwin Opinde**, Sammy Letema (2022) Dynamics and drivers of land use and land cover changes in Migori River Watershed, western Kenya region, Watershed Ecology and the Environment, Volume 4, Pages 219-232, ISSN 2589-4714, <https://doi.org/10.1016/j.wsee.2022.11.008>
- Stephen Balaka Opiyo, **Godwin Opinde** & Sammy Letema (2022) Multi-level governance of watersheds in Kenya under devolution framework: a case of Migori river watershed, International Journal of River Basin Management, DOI: [10.1080/15715124.2022.2118284](https://doi.org/10.1080/15715124.2022.2118284)

1.2.2 Books and Books Chapters

Opinde Godwin (2012). Contributions to Solid Waste Management in Eldoret Municipality Kenya. LAP Lambert Academic Publishing GmbH & Co.KG, Heinrich-Böcking, Germany. ISBN: 978-3-659-13686-3.

1.2.3 Conference Papers

- **Opinde, G.**, Opondo, G., Ozay, L., 2024. Enforceable commitments and accountability in ESIA follow-up. Page 13. 43rd Annual Conference of the International Association for Impact Assessment on Impact Assessment for a Just Transformation. 24-27 April 2024 The Convention Centre Dublin Dublin, Ireland. https://2024.iaia.org/wp-content/uploads/2024/04/Finalpro_24-web.pdf
Draft Paper Link: [HERE](#)
- **Opinde, G.**, Majale, C. and Nygaard, I., 2023. *Hibernation of off-grid solar e-waste in Kenya - An unintended response to an emerging waste issue*- Page 206. 14th IST Conference on Responsibility and Reflexivity in Transitions – Copernicus Institute of Sustainable Development- Utrecht, Netherlands.
- Majale, C., **Opinde, G.** and Nygaard, I., 2023. *Bringing light, connectivity and waste to local communities - A study of the post-consumption value chain for off-grid solar devices in Kenya*- Page 379 . 14th IST Conference on Responsibility and Reflexivity in Transitions – Copernicus Institute of Sustainable Development- Utrecht, Netherlands.
- Ezekiel Waiguru Nyaga, Matthias Beekmann, Subramanian R., Mike R. Giordano, Savannah Ward, Daniel Westervelt, Michael Gatari, Moses Njeru, John Mungai, Godwin Opinde, Tedy Mwendwa, Albert Presto, Emilia Tjernstrom, and Faye v. McNeill. (2023). Air Quality Study to Analyze PM2.5 Sources and their Possible Mitigation pathways in Nairobi. EGU General assembly 23-28 April, 2023. Vienna Austria.
<https://meetingorganizer.copernicus.org/EGU23/EGU23-10315.html>
- Dan Westervelt, Garima Raheja, Michael Gatari, **Godwin Opinde**, Paul Njogu, Josephine Kanyeria, Ezekiel Waiguru, R Subramanian, Mike Giordano, V. Faye McNeill, Solomon Bililign (2022). First measurements of PM2.5 and NO2 in Mombasa, Kenya. Presented at Air Sensor International Conference 11th to 13th May 2022 in Pasadena, California USA.
<https://asic.agrc.ucdavis.edu/sites/g/files/dgvnsk3466/files/inline-files/Dan%20Westervelt%20-%20First%20measurements%20of%20PM2.5%20and%20NO2%20in%20Mombasa%2C%20Kenya.pdf>

- **Opinde Godwin** (2022). Public Engagement in Air quality Management in Kenya. Presented at Air Sensor International Conference 11th to 13th May 2022 in Pasadena, California USA. <https://asic.aqrc.ucdavis.edu/sites/g/files/dgvnsk3466/files/inline-files/Godwin%20Opinde%20-%20PUBLIC%20ENGAGEMENT%20IN%20AIR%20QUALITY%20MANAGEMENT%20IN%20KENYA.pdf>
- Savannah Ward, **Godwin Opinde**, Tedy Mwendwa, Ezekiel Waiguru, Michael Gatari, R Subramanian, Michael Giordano, Garima Raheja, Celeste McFarlane, V Faye McNeill and Daniel Westervel (2021). NO_x and PM_{2.5} Measurements with Low Cost Sensors and Reference Monitors at a High Traffic Site in Nairobi, Kenya. AGU fall Meeting, New Orleans, LA on 16th December 2021. Programme: <https://agu.confex.com/agu/fm21/meetingapp.cgi/Paper/959923>. Published Abstract access: <http://ui.adsabs.harvard.edu/abs/2021AGUFM.A35G1722W/abstract>

1.2.4 Workshops Papers

- **Opinde G** (2023). Public participation and stakeholder engagement in clean air policy, regulation Standards and laws. East Africa Air Quality Training Workshop 14th-18th August, 2023. Kenyatta University Conference Centre.

1.2.5 Seminar Papers

- Opinde G (2023). Air quality Monitoring in East Africa Cities. 24th May 2023. Columbia University, New York. <https://aqtoolbox.org/knowledge-exchange-with-clean-air-toolbox-partners/>

1.2.6 Policy Brief

- *Off-grid solar electronic waste management: Lessons from Kenya*. Authors: Ulrich Elmer Hansen, Paul Kamau, Christine Majale, Caleb Mireri, David Mugendi, Ivan Nygaard, **Godwin Opinde**, Herbert Wamalwa, Martin Enevoldsen

1.2.7 Action Plans

- Nairobi City County Air Quality Action Plan 2025-2029. Clean Air Fund through Breath Cities initiative/ ECI (Technical Lead). <https://nairobi.go.ke/download/nairobi-city-county-air-quality-action-plan-2025-2029>
- Kampala Capital City Authority (2021-2025). Kampala Clean Air Action Plan. UNEP/ECI (Contributor).
- Nairobi City Air Quality Action Plan 2019-2023. UNEP/ ECI (contributor)

1.2.8 Working paper series

- Opiyo Steve, Roelof P. Burger, Godwin Opinde, Niké Wesch. Evaluating the Role of Local Governments in Climate Governance in Sub Saharan Africa: A Comparative Study of Mahikeng City (South Africa) and Kisumu City (Kenya). <https://preparecenter.org/resource/evaluating-the-role-of-local-governments-in-climate-governance-in-sub-saharan-africa-a-comparative-study-of-mafikeng-city-south-africa-and-kisumu-city-kenya/>
- Nyerere J, Gatwiri W and Okinyi R (2021). Kenya's climate change policy actions and the response of higher education Transforming Universities for a Changing Climate Working Paper Series No. 4 Transforming Universities for a Changing Climate Working Paper Series, No. 4. ISSN 2754-0308. https://www.climate-uni.com/files/ugd/f81108_1fe481d96de94247b5b3a5baab268f33.pdf

- Jackline Nyerere, Jeremy Munene Kaburu, Godwin Opinde, Purity Muthoni, Rachel Okinyi, Wilson Mutuma (2023) Higher Education Climate Action: The Case of Kenyatta University. Transforming Universities for a Changing Climate, Working Paper Series No. 12. Institute of Education, UCL 20 Bedford Way, London, WC1H 0AL ISSN: 2754-0308.
https://www.climate-uni.com/files/ugd/f81108_0e537c1e976a4a54bb75cc4b6a8b0e5a.pdf

1.2.9 Training Manual/ Hand book

- Gerry Opondo & **Godwin Opinde** (2021) Draft. Training Manual. Designing Regulatory programmes for clean air in African Cities. ECI/ UNEP.
- ECI (2015). Multilateral Environmental Agreements: A handbook for African Journalists, ECI Nairobi, Kenya. (Participated as Research Team Member).
- Transparency International Kenya (2020) Simplified handbook on environmental impact assessment in Kenya with focus on enhancing community participation in infrastructure and extractive related projects (**Godwin Opinde**: Lead Author in the publication).
<https://tikenya.org/wp-content/uploads/2020/07/ENVIRONMENTAL-IMPACT-ASSESSMENT-HANDBOOK-FINAL.pdf>

1.2.10 Technical/ Research Reports

- Nairobi City County (2025). Best Practices in Air Quality Action Planning Report. (**Godwin Opinde** - Lead Author; Lydia Ago; Gerry Opondo). Funded by Clean Air Fund through Breath Cities Initiative.
- Nairobi City County (2025) Air Quality Action Plan 2019-2023 Stock-take Report. (**Godwin Opinde** Lead Author; Lydia Ago; Gerry Opondo). Funded by Clean Air Fund through Breath Cities Initiative.
- Open Air Quality Data: The Global Landscape 2024. OpenAQ, Washington D.C. (acknowledged as data Lead: **Godwin Opinde**). <https://documents.openaq.org/reports/Open+Air+Quality+Data-The+Global+Landscape+2024.pdf>
- Assessment of capacity gaps and needs related to Environmental Compliance and Enforcement in East Africa – Funded by UNEP – 2022 (Team lead: **Godwin Opinde**)
- EANECE (2024). Needs Assessment Report on Environmental and Social Impact Assessment (ESIA) Follow-up in Eastern Africa. (Lead Author: **Godwin Opinde**). Funded by Netherlands Commission for Environmental Assessment (NCEA).
https://pas.eia.nl/files/os/7171-01/FINAL%20Needs%20assessment%20report%20on%20ESIA%20follow-up_18-12-2024.pdf

1.3 RESEARCH

1.3.1 Funded Projects

- **Co-PI** (KU): Globalsmog project. Funded by French National Research Institute for Development (IRD). Grant Amount. KES. 2.184 million. Support research activities in the Department of Spatial & Environmental Planning, Kenyatta University. Project length 1 year. From 5th June 2026.
- **Researcher** Life Skills and Values: Harnessing Education Research for Impact in Africa, Under Research Chair life skills and value, Kenyatta University.
- **Co-PI**: Evaluating the Role of Local Governments in Climate Governance in Sub Saharan Africa: A Comparative Study of Mahikeng City (South Africa) and Kisumu City (Kenya). Funded by Global Disaster Preparedness Centre – American Red Cross, PI – Dr. Stephen Balaka Opiyo

(North-West University, South Africa). Grant Amount USD 10,000. Project Length: 8 Months from 17th February, 2025.

- **Co-PI:** The Nairobi Aerosol Chemistry and Environmental Monitoring campaign (NBO-CHEM). Funded by US National Science Foundation, PI – Prof. Daniel Westervelt (Columbia University, USA). Grant amount USD 20,000. <https://aerosol.ldeo.columbia.edu/content/nbo-chem>
- **Team Leader (Kenyatta University):** Collaborative online international learning (COIL) programme on climate change and sustainable development (Acclimatise). Funded by Gower Street through Centre for Education and Sustainable Development in Africa (CESDA). Project PI – Prof. Jackline Nyerere (CESDA). Grant Amount USD 54,000. <https://cesdafrica.org/>
- Project Lead **in Kenya:** “International networking, knowledge sharing, and capacity building for improved air quality in four East African countries” Air Quality Management Community of Practice in East Africa, *SFOP0006549*. Funded by Department of State USA, PI – Dr Daniel Westervelt (Columbia University, USA). Grant Amount USD 292,729. Project Length: 36 Months (3Years). Start date: 1st October, 2020. Ongoing project.
- **Project Team Member:** The Columbia Global Center Project in Nairobi: “Towards closing the air pollution data gap in sub-saharan Africa through international collaboration and capacity building.” Funded by Provost - Columbia University, P I- Dr. Daniel Westervelt (Columbia University, USA). Grant Amount USD 42,000. Ongoing project.
- **Project Team Member:** NSF AccelNet Project: “Clean Air Monitoring and Solutions Network (CAMS-Net)” Funded by US National Science Foundation (NSF), P I - Dr. Daniel Westervelt (Columbia University, USA). Grant Amount USD 2,000, 000. Ongoing project. <https://camsnet.org/project-overview/>
- **Researcher:** Social Enterprises Skills Development: The Role of Higher Education in sustainable Development, Funded by African Development Bank (AfDB), PI- Dr. Nyerere, May 2017 to May 2018
- **Research Affiliate:** Transforming University for a changing climate, project to be undertaken in Brazil, Fiji, Mozambique and Kenya, Coordinated by University College London and funded by United Kingdom, Economic and Social Research Council under Global Challenge Research Fund (GCRF), P-I Prof. Tristan McCowan (UCL), Dr. Jackline Nyerere –Project Lead, Kenya, from 1st February 2019 to 30th March, 2023. <https://www.climate-uni.com/kenya-team>
- **Researcher:** Governing Solar Electronic Waste recycling in Kenya, Project funded by Ministry of foreign Affairs of Denmark (MFA) through Danida Fellowship Centre. Project No. 20-M07DTU. PI- Ulrich Elmer Hansen, Technical University of Denmark. Lead Kenya – Dr. Christine Majale, Kenyatta University. Grant Amount DKK 4,998,719. <https://unepdtu.org/project/governing-solar-electronic-waste-recycling-in-kenya/>

1.4 SCHOLARSHIP/ GRANTS

- National Research Fund (NRF) (2016)
- German Exchange Program (DAAD) (2015)
- Netherlands Fellowship Program (NUFFFFIC) (2013)
- Danida Fellowship Centre (2021)
- CAMSNET Air Sensor International Conference Grant (2022), (2023), (2024)
- Global Disaster Preparedness Centre - American Red Cross (2025)
- French National Research Institute for Development (IRD)

1.5 FELLOWSHIPS

- African Research Impact Network (ARIN) fellow (2020 Cohort). <https://www.arin-africa.org/regional-networks/>

1.6 MEDIA INVOLVEMENT/ COVERAGE

- **Expert Panellist:** Involved in conversation with international media agencies on issue of clean air and climate change on 10th May, 2024 from 10:30 am to 12:30pm at the Forum building, Columbia University, New York, USA. Session organized by US Department of State.
- **Environmental Expert:** Involved in promoting non-motorized transport system in Nairobi during World Environmental Day 5th June 2020, Theme: “Time for Nature,” with a focus on its role in providing the essential infrastructure that supports life on Earth and human development – Aired in KTN through Chams Media and YouTube channel. <https://www.youtube.com/watch?v=xSd9WLh8YNM>
- **Expert Interview:** Live interview with BBC world service radio Programme on 19th September 2021 at 8:35 am (EAT). Interview on drought situation in Kenya. BBC Presenter: Rebecca Kesby. Other guests: Manu Lekunze and Isabel Hilton.
- **Key Note Speaker:** Mazingira challenge 2019 at Kenyatta University. Covered by The Standard: <https://www.standardmedia.co.ke/education/article/2001344584/mazingira-challenge-targets-students-in-environmental-conservation>

1.7 MEMORANDUM OF UNDERSTANDING INITIATED

- Initiator: Mou between Kenyatta University and North Carolina Agriculture and Technical State University, Greensboro, North Carolina, United States of America: signed on 21st March, 2025 by Vice Chancellor, Kenyatta University.
- Initiator: MoU between Kenyatta University and Stuttgart State Academy of Art and Design, Germany. Signed on 16th May 2024 by Vice Chancellor, Kenyatta University.
- Initiator: MoU Between Kenyatta University and OpenAQ, Washinton DC, USA. MoU signed on 31st August 2023 by Vice Chancellor, Kenyatta University.
- Initiator: MOU between Kenyatta University and The Trustees of Columbia University in the City of New York for Lamont-Doherty Earth Observatory of the Earth Institute, Columbia University. MoU signed on 13th January 2021 by Vice Chancellor, Kenyatta University.

1.8 CONFERENCES/WORKSHOPS/SEMINARS

- Participant: Workshop on addressing vehicle emissions through cleaner fuels & vehicle standards in East Africa. Organized by UNEP, from 8th -9th July 2026 at United Nation Office, Nairobi.
- Participant: Active Learning Workshop. Organized by Rice 360 – Rice University - USA, from 29th June -3rd July, 2026 at Lamada Hotel, Nairobi.
- Participant: Research co-creation Strategy workshop Organized by HERI- Africa Research Chair Values & life skills, from 15th -18th June, 2026 at Seo Hotel, Machakos County, Kenya.
- Participant: Air Sensor International Conference 2026. Poster presentation on Aerosol Chemical Composition in urban core location in Nairobi, Kenya. Theme: Advancing Science & Engaging Communities. Held from 4th -8th May 2026, at Sheraton Gateway Hotel, Los Angeles, California, USA.

- Participant. PAN-Africa Workshop on waste tyre management, 24th -25th March, 2026 in Dar es Salaam, Tanzania. Funded by Centre for Science & Environment.
- Plenary Speaker on Spotlight in East Africa, Presentation on Kenyatta University – Columbia University Atmospheric Chemistry and Aerosol Collaboration, on 16th July 2025 at Clean-Air Forum 2025, Nairobi Kenya.
- Participant: Inception workshop of the Africa Methane Community of Practice (AMCOP), 29th – 31st January 2025, Nairobi, Kenya. Funded by Global Methane Hub.
- Local organizer and speaker. ALMOST URBAN” Crossed Perspectives from the Peripheries of Bamako, Dakar and Nairobi on Urban Sprawl and Land use Transitions at Kenyatta University Conference Centre, Funded by French Institute for Research in Africa (IFRA). Held on 21st January 2025. <https://ifranairobi.hypotheses.org/5653>
- Poster Presentation on challenges of using low cost air quality sensors for regulatory compliance & enforcement. Held on 26th – 30th August 2024 at Sheraton Grand Bangalore hotel, Bengaluru, India. <https://cstep.in/event-details.php?id=2775>
- Participant: Round table dialogue on supporting a just transition to sustainable Agriculture funded by Friedrich-Ebert-Stiftung, organized by ECAS institute and University of Nairobi. Held on 7th August 2024 at Royal Tulip Cannan, Hurlingham, Nairobi.
- Participant: Climate talk on exploring actionable plans to drive Kenya’s energy transition in line with the COP 28 energy package organized by German Government and Power Shift Africa. Held on 24th July, 2024 at residence of the German Ambassador to Kenya, Nairobi
- Plenary Speaker on Community engagement and low cost sensors. Air Sensor International Conference. Theme: Advancing Science & Engaging Communities. Held from 30th April – 3rd May, 2024 at Riverside Convention center, California, USA. <https://asic.aqrc.ucdavis.edu/2024-attendee-list>
- Participant: United Nation Environmental Assembly (UNEA 6). Held from 26th February – 1st March 2024 at UN Complex, UN Avenue, Nairobi, Kenya. (Supported Kenya Country representative in reviewing and contributing to [Air Quality Resolution](#) sponsored by USA & UK and Adopted in the Assembly. List of Participants
- Participant: Workshop on the preparation of the project proposal “Accelerating actions to address Non-CO2 Emissions in Africa through Community of practice (CoP) for Methane”. Held from 24th-25th February, 2024 at ICRAF Campus, UN Avenue, Nairobi, Kenya. Funded by Global Methane Hub.
- Participant: Air Sensor International Conference in Accra, Ghana. Held from 16th to 19th October 2023 at Accra Metropolitan Assembly Building.
- Team member: Workshop to Develop a Proposal Addressing African Air Quality, held at University of North Carolina Chapel hill, Gillings School of Global Public health, Funded by US National Science Foundation. 18th-19th September 2023
- Co-chair: Building momentum for health studies using locally available air quality and health data webinar hosted by Health Effect institute (HEI) on 19th September 2023. Link: <https://www.healtheffects.org/meeting/webinar-series-air-pollution-and-health-east-africa>
- Participant. Workshop on Air Pollution & Health in East Africa by Health Effect Institute (HEI). 29th -31st March, 2023. Nairobi, Kenya.

- **Participant.** AfriqAir Conference. Carnegie Mellon University Africa Campus 7th to 10th 2023, Kigali Rwanda
- **Participant:** Providing Support to Countries and Cities in Improving Air Quality. Project Dissemination Workshop, Held on 4th August 2022 at Golden Tulip Hotel, Kampala, Uganda
- **Trainer:** Air Quality Management Strategies Course offered to staff of Kampala Capital City Authority (KCCA), held from 25th to 29th July, 2022 at Hilton hotel, Nairobi, Kenya. Training Workshop Supported by Expertise France Group AFD
- **Participant:** Clean Air Catalyst Multistakeholder Forum: Sharing Data on Sources of Air Pollution in Nairobi City, held from 19th to 22nd July, 2022 at Lake Naivasha Country Club Hotel. Workshop supported by USAID – Clean Air catalyst project.
- **Initiator and Organizing Team Member:** National Environment Management Authority (NEMA) Kenya, Enforcers training on air quality management. An out-put of “International networking, knowledge sharing, and capacity building for improved air quality in four East African countries” Air Quality Management Community of Practice in East Africa project.
- **Presenter:** Air Sensor International Conference in Pasadena, California, USA. Held from 11th to 13th May 2022 at Pasadena Conventional Centre. <https://asic.aqrc.ucdavis.edu/2022-conference-presenter-biographies>
- **Trainer:** Capacity building training towards developing a regulatory programme for clean air in Uganda, held on 20th to 22nd April, 2022 at Imperial Golf view hotel, Entebbe Uganda. Training Workshop Supported by UN Environment.
- **Trainer:** Capacity building training towards developing a regulatory programme for clean air in Addis Ababa, Ethiopia held on 13th-14th April 2022. Virtual training workshop Supported by UN Environment.
- **Speaker:** Virtual conference of the East Africa Network for Environmental Compliance & Enforcement held on 24th -25th February 2022. Title of Presentation – Capacity gaps and needs related to environmental compliance and enforcement in East Africa. Supported by UN Environment. Link: https://eancece.org/wp-content/uploads/2022/03/EANECE-2022-Conference-Report_18032022.pdf
- **Rapporteur:** COP26 Adaptation and Resilience Pan-Africa Launch Event, 29 July 2021: Profiling global impacts and upscaling opportunities for climate research in Africa, organized by UK Research and Innovation (UKRI) in partnership with African Research Impact Network (ARIN), 29th July, 2021 – Virtual event. Advertisement Link: <https://www.ukri.org/our-work/responding-to-climate-change/ukri-towards-cop26/climate-adaptation-and-resilience-online-events/>
- **Speaker:** Social Business Academia Network and Capacity Building in East Africa, Social Business Forum on Youth Entrepreneurship, organized by Yunus Center, 10-11th April, 2021 – Virtual event. Link: <https://socialbusinesspedia.com/events/EASBFYE/pages/parallel-session-workshop>
- **Panelist:** Air pollution in Nairobi and other emerging African megacities: sources, sampling, and solutions. Organized by Columbia Global Center- Nairobi, 23rd February, 2021 – Virtual event. Advertisement link: <https://www.youtube.com/watch?v=BW90QxgWv-A&t=8s>
- **International Society of Exposure Science (ISES)** Pre-conference course on Air Sensors and Reference Collocation Data Analysis, Supported by Columbia University, 19th September, 2020 (online training)

- Distinguished delegate Environment & Infrastructure; Inter-Governmental Authority on Development (IGAD) Regional Infrastructure Master Plan (IRIMP) consultative forum, 2nd to 3rd March, 2020, Entebbe, Uganda.
- Trainer on stakeholder engagement in clean air action planning for Kampala Capital City Authority (KCCA), Supported by UN Environment, 17th to 18th December, 2019, Kampala, Uganda.
- Facilitator during Technical Working Group workshop on Fuel Economy Policy Options for Tanzania, Organized by Energy Utilities Water Regulatory Authority (EWURA), Supported by UN Environment, 21st October, 2019, Dar es Salaam, Tanzania.
- Participant: Workshop on promoting cleaner and more fuel-efficient vehicle policies in Tanzania, Organized by University of Dar es Salaam – Bureau for Industrial Co-operation (BICO), Supported by UN Environment, 19th July, 2019, Dar es Salaam, Tanzania. Link: http://www.airqualityandmobility.org/PDFs/gfei_tz/WorkshopReport_GFEI%20Launch.pdf
- Participant: Workshop on Air Quality Planning for Kampala City, Organized by Kampala Capital City Authority, Supported by UN Environment & Environmental Compliance Institute (ECI), 16th July, 2019, Kampala, Uganda. Link: <https://www.eci-africa.org/2020/12/03/addis-ababa-kampala-cities-air-quality-project-underway/>
- Participant: East African Community Workshop on Harmonisation of Vehicle Emission Standards, organized by UN Environment, 10th-11th June, 2019, UNON, Nairobi, Kenya. Link: <https://www.unep.org/events/workshop/east-africa-community-harmonize-vehicle-emission-standards>
- Presenter: VERN PhD and Younger researchers workshop, Presented a paper on Integration of motorcycle transport and its implication on Safety in Kenya, Organized by Volvo Research Foundation, 29th June, 2018, Dar es salaam, Tanzania.
- Participant: Mobilize Summit on Bus Rapid Transport, Organized by Institute for Transportation & Development Policy and Dar Rapid Transit, 26th to 28th June, 2018, Dar es salaam, Tanzania.
- Participant: Volvo Research & Education Foundation Network Workshop on Transport & Road Safety, Organized by VERN, 25th June, 2018
- Next Generation Researchers Network writing workshop, Organized by United Nations University (UNU-IAS), hosted at University of Cape Town, South Africa, 3rd to 6th June, 2018.
- Stakeholder inception workshop on Addis Ababa City air quality situational analysis, Organized by Environmental Compliance Institute, Funded by UN Environment, 3rd May, 2018, Addis Ababa, Ethiopia.
- United Nation Environmental Assembly “Towards a pollution-free planet”, Organized by UN Environment, 4th to 6th December, 2017, Nairobi, Kenya.
- Kenya Air Quality Annual Conference, Clean Air, Healthy Lives: Air Quality and Sustainable Goals in Kenya, Organized by Stockholm Environment Institute (SEI), UNEP and World Agroforestry Center, 8th December, 2016, Nairobi, Kenya.
- National Stakeholders’ workshop on phasing out mercury added products: Road to Ratification and Implementation of Minamata Convention on Mercury, Organized by Center for Environment Justice and Development (CEJAD), 7th December, 2016, Nairobi, Kenya.

- Environmental Toxicological Risk Assessment Workshop, organized by International Union of Toxicology (IUTOX), American Chemistry Council and Environmental Compliance Institute (ECI), 21st -23rd June, 2016, Nairobi Kenya.
- Workshop on Solar Waste: Management, Sustainability and Renewable future in Kenya, University of Edinburgh, UK, 13th July, 2015, Strathmore Business School, Nairobi.
- Presentation on Air Quality Management in Nairobi at the Regional Workshop on Air Quality Management: Organized by World Banks: Pollution Management and Environmental Health Team: 25th- 28th March, 2015 in Johannesburg, South Africa.
- Presentation on Regulatory framework for Air Quality Management in Kenya at the Regional Workshop on Air Quality; Organized by Air Pollution for Africa (APINA) and UNEP; 10th to 11th December, 2013 in Lusaka Zambia.

1.9 SUPERVISION OF POSTGRADUATE STUDENTS

1.9.1 Ph. D

- Stephen Opiyo Balaka. Ecohydrology, Governance and Community Livelihoods of Migori River Watershed, Kenya (Graduated 2023)
- Gertrude Akello. Modelling Natural Hazard Regulating Ecosystem Services in Mt. Elgon, Uganda (on going – Thesis writing)
- Dorcas Wambui Kariuki. Determinants of Distribution of Tree Outside Forests along Urban-Rural Transition gradient in Kiharu, Murang'a County (Thesis writing).
- Peris Sogoti. Climate variability and its impacts on transboundary natural resource conflicts in North Rift region, Kenya (ongoing)
- Daniel J. N. Ngeranwa. Land use change in selected rural-urban landscapes of Embu, Tharaka-Nithi and Kirinyaga Counties of Kenya (ongoing)

1.9.2 Thesis Examined – Internal Examiner (PhD & Masters)

- Influence of school hygiene promotion approaches on hygiene practices in public primary schools in Dagoreti, Nairobi City County, Kenya – Masters Thesis **4th January 2021**
- Susceptibility of Chetambe Hills to Landslides and their Socio-economic Significance in Bungoma County, Kenya – Masters Thesis **22nd June 2021.**
- Pedestrian Accessibility in Urban Transport System of Nyeri Town, Nyeri County, Kenya – Masters Project **22nd July 2021**
- Ecosystem restoration methods and livelihoods development in Machakos County, Kenya - M/TH/209/2021 – Masters Thesis **4th January 2022**
- Water sanitation and hygiene program and its impact on public health in schools in Kisumu county, Kenya – M/TH/222/2021 - Masters Thesis **25th March 2022**
- Establishment of boundaries for sustainable conservation and enhanced livelihoods of forest dependent communities in Arabu Sokoke forest reserve, Kilifi County, Kenya- Masters thesis - **18th May 2023**
- Changes in land tenure and local institution at Nakuprat - Gotu community conservancy in Isiolo County, Kenya- Masters thesis - **17th July 2023**

- Assessment of indoor air quality in residential buildings of Kilifi County in Kenya – Masters Thesis – **1st March, 2024**
- Soil Conservation technologies for sustainable crop production in Kipkelion, Kericho County, Kenya – Masters Thesis – **6th June, 2024**
- Examining socio-political factors influencing climate finance coordination in Turkana County Kenya – PhD thesis – **13th March, 2025**
- Green Growth adoption, practices and challenges in selected textile industries in Kenya – Masters Thesis – **29th April, 2025**
- Impact of climate change and variability on Irish potato production and consumption among small-scale farmers in Narok County Kenya – **29th July, 2025**
- Water resources users' associations and their relations with key stakeholders in water resources management of lake Naivasha sub catchment, Kenya – **22nd May, 2026**
- Socio-economic impacts of Karura forest on livelihoods of the residents of Huruma informal settlement, Nairobi County – **1st June, 2026.**

1.9.3 External Examiner: (PhD & Masters Theses)

- Economics of Ecosystem Services (es) and resource utilization within selected water catchments ecosystems in Kenya – PhD Thesis – Jomo Kenyatta University of Agriculture & Technology **22nd September, 2023**
- Atmospheric Concentrations, Dry Deposition Fluxes and Compositional Analysis of Suspended Particulate Matter in Nairobi, Kenya – Masters Thesis – Jomo Kenyatta University of Agriculture & Technology - **31st March 2024**
- Spatial planning solutions to mitigate poor air quality in South African dense, low-income areas – The North-West University, South Africa – **2nd June 2025**

1.10 PROFESSIONAL/ CONSULTANCY (SELECTED)

- *Researcher:* Consultancy in Urban and Environmental Planning for the ANR Global Smog Project – Tackling Air. Funded by French National Research Agency (2026).
- *Lead Researcher:* Development of Nairobi City Air Quality Action Plan (2025-2029)
- *Team Leader:* Environmental Impact Assessment of Papariko Blue Carbon Project in South Coast Kenya, Kwale.
- *Team member* – Development of National Short-Lived Climate Pollutants Plans and National Methane Road Map for Cameroon
- *Team Leader:* Needs assessment report on environmental impact assessment follow-up in Eastern Africa - Funded by Netherlands Commission for Environmental Assessment – 2023-2024
- *Team Leader:* Assessment of capacity gaps and needs related to Environmental compliance and enforcement in East Africa – Funded by UNEP – 2022
- *Lead Expert:* Carryout Environmental Audit for ongoing Reconstruction of Mokowe Jetty and Associated Works in Lamu County. May 2021 to June 2021.
- *Lead Expert:* Preparation of Environmental & Social Impact Assessment for Proposed Mtongwe Ferry Ramp in Mtongwe, Mombasa County. For State Department of public Works, Ministry of Transport, Infrastructure, Public works, Housing and Urban Development. November 2020 to December 2020.

- *Assistant Team Leader*: Ongoing project on Support Development of Kampala City Air Quality Action Plan. Financed by UN Environment – Economy division. July 2019 to July 2021.
- *Assistant Team Leader*: Project on Support harmonization of vehicle emission standards in the East Africa Sub-Region. Financed by UN Environment- Economy division. May 2019 to Dec 2019.
- *Assistant Team Leader*: Project on Support development of cleaner and fuel-efficient vehicle policies in Tanzania. Financed by UN Environment. April 2019 to Nov 2019.
- *Lead Expert*: Preparation of Environmental & Social Impact Assessment for Proposed Reconstruction of Mokowe Jetty and Associated Works in Lamu County. April 2019 to May 2019.
- *Lead Expert*: Project on Simplification of Environmental and Social Impact Assessment procedures to enhance public participation and promote accountability in the EIA process in Kenya, Consultancy for Transparency International Kenya. March 2019 to April 2019.
- *Lead Expert*: Preparation of Environmental and Social Impact Assessment Report for Proposed Improvement of Bomas-Karen-Kikuyu Road (C63)/ Ngong Road (C60) Junction at Karen Center. August – September, 2015.
- *Project Coordinator*: Piloting of the Partnership for Clean Fuels and Vehicles Regulatory Tool Kit in Eastern Africa Countries (Kenya, Ethiopia, Tanzania, Uganda, Rwanda and Burundi). September – December, 2014.
- *Assistant Team Leader*: Environmental and Social Impact Assessment Study of the proposed Expansion of Moi international airport road and Port Rietz Road in Mombasa County, Kenya. October November, 2014.
- *Assistant Team Leader*: Environmental and Social Impact Assessment Study of the proposed Upgrading of Siaya-Ruambwa/Usoga (C29) Road to Bituminous standard. January-February, 2013.
- *Assistant Team Leader*: Environmental and Social Impact Assessment Study of the Proposed Mbita Causeway Replacement Bridge and Decommissioning of Existing Causeway. October-November, 2012.

1.11 COMMUNITY SERVICE AND OTHER ENGAGEMENTS

- *International Planning Committee Member*: AELERT – INECE 2024 Global summit on Implementing and Enforcing Environmental Law to be held from 6th-8th November, 2024 in Brisbane, Queensland, Australia. Sponsored by International Network for Environmental Compliance and Enforcement (INECE) and Australasian Environmental Law Enforcement and Regulatory Network.
- *Volunteer Judge*: For the Young Scientist Kenya – Evaluation of student’s Chemical, Physical and Mathematical category projects abstract in preparation for the 7th Edition of Kenya National Science & Technology Exhibition 2024- “Developing Sustainable Solutions for Climate Change”
- *Church Elder*: Seventh day Adventist Church Northview, Nairobi, Kenya (2023-Current).
- *Appointed Member* of Nairobi City County Working Group on Air Quality, N-air Project.
- *Staff Mentor*, Kenyatta University (2021/2022, 2022/2023, 2023/2024 Academic years)
- *Chairman*, Environmental Compliance Institute, Kenyan NGO (2014-2024).

- *Guest Lecturer/ Professional.* Nelson Institute of Environment, University of Wisconsin, USA. Provided online lectures and supervision of students with term-projects focusing on Africa between September & December, 2023
- *Listed as Earthshot Prize Official Nominator* for the years 2021 and 2022 in the five thematic areas: protect & restore nature, clean our air, revive our oceans, build a waste-free world and fix our climate. <https://earthshotprize.org/>
- *Listed Research Panelist.* Environment and Construction Panel. Kenya National Highways Authority
- *Initiator:* Linkage between National Environment Management Authority (NEMA) and “International networking, knowledge sharing, and capacity building for improved air quality in four East African countries” Air Quality Management Community of Practice in East Africa project team that led to training of over 50 NEMA Compliance and Enforcement officers on Air Quality Management. Project was funded by Department of States, SFOP0006549. Training period 5th April, 2022 to 12th May, 2022.

1.12 AFFILIATION OF PROFESSIONAL BODIES

- Environmental Institute of Kenya, Lead Member
- Member International Association for Impact Assessment. IAIA member No. 10532310

1.13 ADMINISTRATIVE POSITIONS HELD

1.13.1 Recognized university administrative positions

- Chair, School Postgraduate Studies Committee (School of Engineering & Architecture) From 2026 – Current.
- Chair, Departmental postgraduate studies committee (Department of Spatial & Environmental Planning) From 2022-2026
- Research Coordinator. Kenyatta University Green Education HUB (2022-Current)
- Departmental Exam Coordinator, EPM Department, Kenyatta University. From 2020-2023
- Coordinator in Country/ in region DAAD scholarship awardees, EPM Department, Kenyatta University (2019-current)

1.13.2 Other administrative positions Held

- E-learning Coordinator: EPM Department, Kenyatta University (2015-2017)
- Member resource mobilization committee, Next Generation Researchers (NGR) Network in Africa Hosted by United Nations University, Tokyo, Japan. (2018-2021)
- Member committee for collaborations between African Centre for Technological Studies (ACTS) and Department of Environmental Planning and Management, Kenyatta University. (2018)
- Member, Curriculum Development Committee, School of Environmental Studies (SES), Kenyatta University. (2020-2022)
- Member, School Board of postgraduate studies, School of Environmental Studies, Kenyatta University (2020-2022)
- Member, School Board of postgraduate studies, School of Engineering & Architecture, Kenyatta University (2022-2026)

Kindly use this format for your online CV submission and send it to:
webmaster@ku.ac.ke to enable updates to your web page.