



## CURRICULUM VITAE

**DR. CALVINCE OUKO OTHOO**

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### PERSONAL STATEMENT

**Dr. Calvin Ouko Othoo** is an Environment and Climate change scientist with interest in climate resilience and sustainable development nexus. Presently a Lecturer at the Co-operative University of Kenya and a Postdoc fellow at the Global Centre for Adaptation project at the University of Nairobi. Dr. Othoo has key competencies in environmental monitoring & analysis, climate risk assessment, GIS, GHG emission modelling, proposal development, capacity development, and leadership. Dr. Calvin is a Commonwealth scholar of the British Commonwealth scholarship, he is also a prize winner of the mahatma Gandhi trustee prize for best student performance, and presently a One- Planet Fellow of the Agropolis Foundation (France)/AWARD (Kenya). Besides, Dr. Calvin has an extensive research and consultancy experience with local and international organizations serving in the role of environment and climate change expertise including in the development of Kenya's Long-Term Low Carbon Emission Development Strategy (LTS) by the Kenya Ministry of Environment and Forestry (MEF) in line with the Paris Climate Accord, and the Kenya's Urban Resilience development for five Kenyan Cities (Nairobi, Mombasa, Kisumu, Nakuru, and Eldoret) for the Government of Kenya, among other recent projects. Through these experiences, Dr. Othoo has gained advanced and valuable experience in research and project work. On a personal level, Dr. Calvin is an amiable person who always delights in maintaining valuable working relationship with people of diverse backgrounds in any challenging environment.

### A. EDUCATION

DATE	INSTITUTION	DEGREE	THESIS/RESEARCH TITLE
2015 - 2021	Institute for Climate Change and Adaptation University of Nairobi- Kenya	PhD in climate Change and Adaptation	The Impact of Climate Extremes (Floods) on Sanitation Infrastructure In Unplanned Settlements in Kisumu City, Kenya
2012- 2014	Institute of Geography and Environmental Science (IGES), University of Wales Aberystwyth, UK	MSc. Environmental Monitoring and Analysis	Importance of Contaminated Soils in Supplying Bioaccessible Fluoride to Grazing Animals from the Historic Metalliferous Mining Areas (Derbyshire, Cardiganshire and Pembrokeshire) of the UK
2007- 2011	Department of Land and Agricultural Resource Management (LARMAT), University of Nairobi	BSc. Management of Agro-Ecosystems and Environment,	Analysis of physical and chemical quality of selected soil samples from Rwanda using Aggregate Techniques

### B. LANGUAGE PROFICIENCY

LANGUAGE	SPEAKING	READING	WRITING
English	Excellent	Excellent	Excellent
Kiswahili	Excellent	Excellent	Excellent
Tholuo (Mother tongue)	Excellent	Excellent	Excellent
Welsh	Basic	Basic	Basic
French	Basic	Basic	Basic

### C. EMPLOYMENT HISTORY

DATE	ORGANIZATION	RESPONSIBILITY
2015 to Date	<b>Cooperative University of Kenya</b>  Role: Lecturer	I have eight years work experience at the Cooperative university, conducting teaching and student mentorship. I have served in various roles in substantive and acting capacity including as an examination coordinator, Chair of department and Patron of the environment and GIS clubs. Other responsibility include: <ul style="list-style-type: none"><li>Conducting research, analysis, reviews &amp; publications</li></ul>



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		<ul style="list-style-type: none"> <li>Effective Teaching in Environmental Science Courses, Climate Change, GIS</li> <li>Effective research and consultancy activities within university</li> <li>Curriculum development and review</li> </ul> <p>Mentorship and Supervision of students' research projects, among others</p>
<b>Feb. 2023 To date</b>	<b>Department of Earth and Climate Sciences, University of Nairobi</b>  <b>Role:</b> Post Doc fellow	<p>Providing research support and advisory on the ongoing GCA-UON climate resilience project.</p> <p>Other responsibilities include</p> <ul style="list-style-type: none"> <li>Provision of teaching and supervision support at the department</li> <li>Reporting and communication</li> <li>Mentorship to students</li> <li>Publications</li> <li>Any other duty as maybe assigned</li> </ul>
<b>August 2021 -January 2023</b>	<b>Climate &amp; Energy Advisory (Ke) Limited</b>  <b>Role:</b> Senior Consultant	<p>Served as a Senior Consultant and Business development Lead in charge of fundraising and business development and project liaison. Specifically, I undertake the following:</p> <ul style="list-style-type: none"> <li>Provision of technical assistance to ongoing projects in the company, among others</li> <li>Supporting the Business Development Manager in timely proposal development,</li> <li>Undertaking quality assurance of other on-going projects; working in liaison with project managers involved in on-going projects to spot opportunities for development of new business areas;</li> <li>Mentorship for junior technical staff and building their capacity.</li> </ul>
<b>2016 - 2019</b>	<b>African Waste &amp; Environmental Management in Africa Consultancy (AWEMAC) Ltd.</b>  <b>Role:</b> Associate Consultant	<ul style="list-style-type: none"> <li>Technical assistant on the development for Strategic Environmental and Social Impact Assessment (SESA) for the Kenya Petroleum Technical Assistance Project (KEPTAP).</li> <li>Field work support and stakeholders engagement</li> <li>Data collection and analysis</li> <li>In charge of GPS survey and development of study area maps for the projects involved.</li> </ul>
<b>2014 -2016</b>	<b>1. Kenyatta University</b> <b>2. Masinde Muliro University of Science and Technology</b> <b>Role:</b> Parttime lecturer	<ul style="list-style-type: none"> <li>Teaching and delivery of course units</li> <li>Project assignment</li> <li>Student Mentorship</li> </ul>
<b>2011 – 2015</b>	<b>AGFOR Technical services</b>  <b>Role:</b> Associate Consultant	<ul style="list-style-type: none"> <li>Technical support on business development</li> <li>Filed work technical support</li> <li>Support on environmental evaluations and monitoring</li> <li>Resource mapping and Land use planning; Environmental and Social Impact Assessment</li> <li>Data management and reporting; Resource mobilization</li> </ul>
<b>June-Sept.2013</b>	<b>Plas Lluest Care Home Aberystwyth, Wales, UK</b> <b>Role:</b> Social Worker	<ul style="list-style-type: none"> <li>Care for the disabled adult residents at the Care Home</li> <li>Social and Physical support</li> <li>Emotional and Spiritual encouragement</li> <li>Wellness exercise and physical therapy</li> <li>Domestic care support</li> </ul>



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### D. RESEARCH AND CONSULTANCY EXPERIENCE

#### D1. CURRENT RESEARCH PROJECTS ENGAGED

Name of Research Project	Funding organization	Activities
<b>GCA-UON Infrastructure Resilience Project</b>  <b>Role: Postdoc Fellow</b>	Global Centre on Climate Adaptation (GCA) (Netherlands)	<ul style="list-style-type: none"> <li>• Providing research support on climate adaptataion for the project</li> <li>• Undertaking critical analysis and modelling for climate impacts on infrastructure and scenario building.</li> <li>• Technical lead in Reporting and publications.</li> <li>• Team leadership for the projects Research Assistants</li> </ul>
<b>Community Based Climate Change Adaptation Study</b>  <b>Role: Project Principal Investigator</b>	<b>Italian Episcopal Conference (CEI)</b> thro' the <b>Comitato Internazionale per lo Sviluppo dei Popoli (CISP)</b> Nairobi office, Kenya	<ul style="list-style-type: none"> <li>• Plan and organize for community research study with select communities living in ASAL areas. The study focusses on understanding the community adaptation approaches for vulnerable communities in ASAL areas.</li> <li>• Other activities include: <ul style="list-style-type: none"> <li>○ Capacity building on climate adaptation</li> <li>○ Production of policy briefs and journal publications</li> </ul> </li> <li>• I am the Project principal lead investigator</li> </ul>
<b>African water and sanitation project (AFRIWATSAN)</b>  <b>Role: Research Fellow</b>	Royal Society Capacity Building Initiative and the UK Department for International Development (DFID)	<ul style="list-style-type: none"> <li>• A researcher involved in data collection and field work engagements.</li> <li>• Thematic contact (water and sanitation) for exchange students from UK in Kisumu</li> <li>• Involved in data analysis, flood risk modelling using DEMs, Watershed delineation, Runoff modelling, climate projections and publications of research papers</li> </ul>
<b>Analysis of Spatial Distribution, Capacity and Cooperation among Disaster Risk Management Actors in Kenya</b> <b>Role: Research Fellow</b>	National Research Fund (NRF), Kenya	<ul style="list-style-type: none"> <li>• A serving member of the Project management Unit and member of the six core research team.</li> <li>• I serve as the Secretariate to the project operation, handling liaison and documentation</li> <li>• Conducted data collection in my assigned regions within Kenya</li> <li>• I developed the inbuild digital data collection Tools using Survey123 connect in the XLS form. Trained enumerators on digital data collection</li> <li>• Managed the database for incoming data from field enumerators.</li> <li>• Data analysis support</li> </ul>
<b>Kenya Rural Transformation Centres Digital Platform</b>  <b>Role: Research Officer</b>	African Development Bank (AfDB)	<ul style="list-style-type: none"> <li>• Role of researcher in the development of Kenya agricultural transformation digital centres meant to be a hub for agricultural cooperatives and famer associations in rural Kenya.</li> <li>• The project involves development of a digital platform and operation of a one-stop digital shop for all agricultural farmer knowledge exchange and communication.</li> <li>• Also involved in secretariate roles including reporting and logistical organization</li> </ul>



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## D2. CONSULTANCY EXPERIENCE

DATE	ROLE /CLIENT	DESCRIPTION
Dec 2021 -To present	<b>Climate Change and Environment Expert</b>  Client: <i>Ministry of Transport, Infrastructure, Housing and Urban Development</i>	Project: <b>Development Of Urban Resilience Strategies For Five Selected Cities In Kenya Namely; Nairobi, Mombasa, Kisumu, Nakuru And Eldoret.</b> The project is funded by the World Bank through the State Department for Housing and Urban Development My role is to provide climate change technical advisory and stakeholder engagement for the project  My role is in providing climate change technical advice and key informant engagement.
Dec., 2022	<b>Training Consultant</b>  Client: <b>Tangaza University College, Nairobi, supported by CISP (Italy)</b>	Program: <b>Training Consultancy</b> Facilitated a short course training on <b>Community Based Adaptation to Climate Change and Resilience.</b>  I was the training lead on Climate Change adaptation. The training focussed on climate change concepts and practical approaches to community lead climate change adaptation. Participants were drawn from postgraduate students and representatives from NGOs, CBOs and the Catholic church organizations across Kenya.
July, 2022 -Jan 2023	<b>Project Manager</b>  Client: Loughborough University and Ministry of Energy (Kenya)	<b>Project: Alternative Fuels Resources Assessment for Kenya</b>  I am the team lead for the ongoing consultancy led by C&E Advisory to assess alternative fuel use and opportunities in Kenya. I am presently coordinating a team of 7 researchers in developing an inception report, sampling approach, and data collection program yet to begin. I am the project liaison between the client and C&E. This project is a component of the ongoing larger technical support project for the development of the Kenya Clean Cooking Strategy
March - October 2022	<b>Project Manager</b>  Client: GIZ	Project: <b>Assessment of the functionality of existing small-scale biodigesters in Kenya</b> I coordinated a team of seven members as the project manager in assessing the functionality rate of small-scale biodigesters in Kenya, record the end-user satisfaction levels, using the Net Promoter Score (NPS) method and to provide recommendations to the client-GIZ. I planned for stakeholders' engagement, data collection and community engagement as well as reporting to the client GIZ. This was done in line with the baseline assessment conducted by the Kenya Biogas Program (KBP) in April 2021, KBP involving 156 biodigesters (95% of them fixed dome). The overall goal of this project is to develop a detailed report analysis of the digesters assessed and their functionality to be used in the development of a functionality indicator base for the project through the biodigester company customer service centres.
Feb., 2022	<b>Training Consultant</b>	Program: <b>Training Consultancy</b> Facilitated a short course training on Community Based Adaptation to Climate Change and Resilience.  The training focussed on climate change concepts and practical approaches to community lead climate change adaptation. Participants were drawn from



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	Client: <b>Tangaza University College, Nairobi</b>	postgraduate students and representatives from NGOs, CBOs and the Catholic church organizations across Kenya.
June 2021- Jan 2022	Climate Adaptation Assistant  Client: <b>Ministry of Environment and Forestry</b>	Project: <b>Kenya's Long-Term Low-Carbon Emission Development Strategies (LTS) document by the Ministry of Environment and Forestry through German GIZ and UNDP support.</b> My roles included: Data collection support, stakeholder engagement, workshop facilitation, data collection, climate scenario modelling, and analysis and report writing
Dec 2020- Jan 2022	Technical Consultant  Client: <b>OCDC</b>	Project: <b>Resilience of SACCOs in the Hospitality, Aviation and Horticulture sectors to COVID-19 systemic shock Phase I undertaken by Co-operative University in partnership with University of Nairobi and KALRO-Kenya with funding from OCDC, Canada.</b> Key roles included development of Survey123 for ArcGIS in-built digital data collection tool in an XLS format. Later trained enumerators on the use of the tool and maintained database for oncoming data from the field Assisted in data analysis and database management for the project entitled
JAN 2019 – Feb 2020:	Technical Assistant  Client: <b>County Government of Kisumu (CGoK)</b>	Project: <b>Kisumu Urban Program (KUP) implemented by the County Government of Kisumu (CGoK)</b> <b>Key roles:</b> Technical assistance in the development of Resettlement Action Plans (RAPs) Studies, Environmental and Social Management Plan (ESMP) Reviews, Socio-Economic Feasibility Studies And Socio-Economic Feasibility Reviews for the Kisumu Urban Project (KUP), Kisumu Kenya. I was directly in charge of GPS survey and mapping of project sites of interest including the Kisumu Floodlight projects, market locations and Drainage works ESMP.
NOV 2019	Training Consultant  Client: <b>Seasons Consults Ltd.</b>	Project: <b>Training Consultancy on Community Based Climate Change Adaptation for Rural Livelihoods at Appleton Resort, Westlands, and Nairobi, Kenya.</b> I was a key trainer on climate adaptation for 30 self-sponsored participants from Kenya and Tanzania Client: Seasons Development Solutions Ltd., Nairobi, Kenya.
OCT 2019 – DEC 2019	Technical Assistant  Client: <b>OCDC-Canada</b>	Project: <b>Renewable Solar Energy project in Kathonzi, Makueni County, Kenya; Robust Extra Low-Cost Nano-Grids for the Developing World (RELCON) in Makueni County- a collaborative Project between Cardiff University, UK, University of Oxford and Co-operative University</b> Key roles included development of Survey123 for ArcGIS in-built digital data collection tool in an XLS format. Later trained enumerators on the use of the tool and maintained database for oncoming data from the field enumerators Assisted in data analysis and database management for the project entitled.



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AUG 2018 – DEC 2019	Associate Consultant  Client: <b>Federal Ministry of Environment.</b>	Project: <b>Sustainable FuelWood Management in Nigeria – Payment for Ecosystem Services (PES) implemented by the Energy Commission of Nigeria</b> - Federal Ministry of Environment. I was the environmental consultant and GIS expert for the project entitled “Development of a Measurement, Verification and Reporting (MVR) for Payment for Ecosystem Services (PES) in three States of Kaduna, Delta and Cross-River, Nigeria. I developed a data collection tool for the remote field-based data collection in Nigeria.
AUG 2018:	Training Consultant  Client: <b>PELUM- Kenya</b>	Project: <b>Training on Nature Based Enterprises for Community Livelihoods and Forest Conservation</b> I trained a group of diverse stakeholders including organic farmers, NGOs and CBOs on the value of Non-timber forest-based enterprises (such as bee keeping, medicinal plants) in the South Rift Region, Nakuru, Kenya. Client: PELUM- Kenya ( <a href="https://www.pelum.net/">https://www.pelum.net/</a> ).
JUNE 2017	Training Facilitator	Project: <b>Training Consultancy</b> I conducted an Environmental Impact Assessment (EIA) training to a group of <b>40 students</b> registered on a short EIA annual training course organized by African Waste and Environmental Management Centre (AWEMAC) in Nairobi, Kenya ( <a href="http://www.awemac.co.ke">www.awemac.co.ke</a> ).
JAN 2016- JAN 2017	Technical Assistant  Client: <b>Ministry of Energy and Petroleum of Kenya.</b>	Project: <b>Kenya Strategic Environmental and Social Impact Assessment (SESA) for the Kenya Petroleum Technical Assistance Project (KEPTAP) for the Rail-Road-Pipeline (LAPSET project) project</b> The project was funded by the World Bank My main tasks included development of project work and planning field itinerary and schedules for key experts. Data collection and entry and map development
OCT 2016	Training Facilitator	Project: <b>Training consultancy at the Centre for Mathematics, Science and Technology of East Africa (CEMASTEA) in Nairobi, Kenya</b> Undertook capacity training on environmental safety and risk management for staff at CEMASTEA Nairobi, Kenya (Ministry of Education) <a href="http://www.cemastea.ac.ke">www.cemastea.ac.ke</a> .
FEB 2015 – DEC 2015	Associate Consultant	Project: <b>Enhancing Community Based Adaptation to Climate Change: (ECO-BACC) program-End of project evaluation report for INADES-Formation NGO in Kenya”, Machakos Kenya. Client: INADES Kenya.</b> Provision of environmental expertise during the End of Project Evaluation for the project Main responsibilities included community engagement and data collection, data analysis and report writing
JUNE 2014	Associate Consultant	Project: <b>Promoting Ecological Land Use Management and Networking for Livelihoods Improvement (PENELI) Phase 2 for the South Rift-Valley Region of Kenya; Client: PELUM-Kenya</b> My roles involved project planning and stakeholder engagement, data collection and field work activities. Other roles involved quantitative data analysis, mapping and environmental advisory during the baseline Survey





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April 2012:	Research Assistant	Project: <b><i>Environmental compliance Monitoring and Vegetation Assessment in Kirinyaga and Laikipia Counties-Kenya.</i></b> Main roles included data collection and environmental sampling, water quality assessment and vegetation change monitoring in Laikipia and Kirinyaga. Conservation International.
September, 2011	Research Assistant	Project: <b>Adaptation to climate change and insurance (ACCI) project among small scale farmers in western Kenya funded by the German (GIZ)</b> Main activities included data collection, community engagement and field work activities Kenya Agricultural Research Organization (KARI). Contact: Dr. Mulinge, <a href="mailto:wmmulinge@kari.org">wmmulinge@kari.org</a>



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### E. SCIENTIFIC PUBLICATIONS

1. Othoo, C., Dulo, S., & Olago, D. (2021). Flood-risk vulnerabilities of sanitation facilities in urban informal settlements: Lessons from Kisumu City, Kenya. *East African Journal of Science, Technology and Innovation*, 2(4). DOI <https://doi.org/10.37425/eajsti.v2i4.371>
2. Othoo, C. O., Dulo, S. O., Olago, D. O., & Ayah, R. (2020). Proximity Density Assessment and Characterization of Water and Sanitation Facilities in the Informal Settlements of Kisumu City: Implications for Public Health Planning. *Journal of UOEH*, 42(3), 237-249. DOI: <https://doi.org/10.7888/juoeh.42.237>.
3. Othoo, C. O., Dulo, S. O., Olago, D. O., & Ayah, R. (2020). Effects of Shallow Water Table on the Construction of Pit Latrines and Shallow Wells in the Informal Settlements of Kisumu City. *Sanitation Value Chain*, 00020. <https://doi.org/10.34416/svc.00020>
4. Kibwage, J. K., Othoo, C. O., & Ndungu, C. (2019). Environmental audit and policy compliance of tobacco farming practices in Migori County, Western Kenya. *Journal of UOEH*, 41(3), 259-269. DOI: <https://doi.org/10.7888/juoeh.41.259>
5. Othoo C.O & Oboka W.A. (2019). Assessment of Suitability of Flush Toilets in Promoting Sustainable Water Use in Kenyan Cities: Implication for Supply and Management of Water for Domestic Use in Kenya. Conference Proceeding, ICWSFSWM 2019: 21st International Conference on Water, Sanitation, Food Security and Waste Management, Montreal, Canada. May 21-24, 2019. <https://panel.waset.org/conference/2019/05/montreal/program?forceTentative=1>
6. Othoo, C.O., Kibwage J. K., Kauti, M. & Muli, B. (2017). Practices and Sustainability of Handcrafts Cooperatives in Kenya: Lessons for Emerging Bamboo Farming Enterprises. *African journal of Cooperative Development and Technology*. Vol. 2. No.1, pp. 85-96. ISSN 2411-6645 (print).
7. Oboka W.& Othoo C. (2017). Assessment of Environmental Degradation and Water Quality in Southern Vihiga Hills. *African journal of Cooperative Development and Technology*. Vol. 2. No.1, pp. 119-132. ISSN 2411-6645 (print).
8. Othoo C. O & Abrahams W. P. (2016). Importance of Contaminated Soils in Supplying Bioaccessible Fluoride to Grazing Animals from the Historic Metalliferous Mining Areas of the UK. *Journal of Health and Environmental Research*. Vol. 2, No. 5, pp. 27-33. doi: 10.11648/j.jher.20160205.11

### F. SCIENTIFIC REVIEW/EDITORIAL EXPERIENCE

Organization	Nature of review	Title of Document
African Journal of Food, Agriculture, Nutrition and Development	Journal review	Role of climate smart cassava innovations on farm performance and household food security in Kenya
The Institute of Geophysics, PAS and Polish Academy of Sciences, Poland	Journal Paper reviewer Act-Geophysica Journal	Hydraulic geometry influences some water quality parameters in a small tropical headwater basin in southwestern Nigeria.
Friedrich Ebert Stiftung (PES) and Life & Peace Institute (LPI), Nairobi	Policy Paper Reviewer	Advocating Greening: Kenya on the United Nations Security Council and the climate security nexus
The Institute of Geophysics, PAS and Polish Academy of Sciences, Poland	Journal Paper reviewer Act-Geophysica Journal	Practical strategies for groundwater security in irrigated plains by surface water distribution network under water scarcity
Co-operative university of Kenya	Editorial board member	The Cooperator Co-operator Magazine of the Co-operative university of Kenya.





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### G. SELECTED CONFERENCES & TRAININGS ATTENDED

- **December 5<sup>th</sup>-9<sup>th</sup> 2022:** Integrated Climate Risk Assessment Tool Training organized by the Oxford Analytics of the University of Oxford in Partnership with University of Nairobi and Global Climate Adaptation (GCA) at the Wangari Mathai Institute of Environment and Peace Studies, Nairobi, Kenya
- **November 2022:** Participated in the **Leadership for Agricultural Research and Development (LEPARD)** Training organized by the **African Women in Agriculture, Research and Development (AWARD)/Agropolis Foundation** in Mombasa, Kenya
- **November 2022:** Co-organised the Co-operative University annual GIS conference dubbed "Gis in climate change adaptation research and resilience" at the Co-operative University of Kenya, Nairobi.
- **September 4<sup>th</sup> – 11<sup>th</sup> 2022:** Participant at the African Green Revolution Forum (AGRF) at the Kigali Conference Centre in Kigali Rwanda. 5<sup>th</sup> - 9<sup>th</sup> September 2022
- **May 2022:** Science Training Course of the **One-Planet Fellowship of the African Women in Agriculture, Research and Development (AWARD)/Agropolis Foundation** held at Safaripark Hotel, Nairobi, Kenya.
- **March 27 – 30<sup>th</sup> 2022:** Presented a policy paper at the AFRIWATSAN End-of project conference in Kisumu city, Kenya
- **November 2021:** Co-organized the 5<sup>th</sup> Annual ESRI/CUK joint GIS training at the Cooperative University of Kenya
- **JUNE 13 – 15, 2021:** An Early Career Research participant at the Sustainable Research and Innovation Congress (SRI21) organized by Future Earth, Virtual and Onsite at Melbourne, Australia (contact: [sri@futureearth.org](mailto:sri@futureearth.org))
- **MAY 23-JUNE 13, 2021:** Virtual Summer School on "**Trends, Rhythms and Events in the Earth's Climate System - Past, Present and Future**" organized by University of Potsdam, Germany. Contact: Prof. Martin Trauth: [trauth@uni-potsdam.de](mailto:trauth@uni-potsdam.de).
- **OCTOBER 2020:** Co-organized the 4<sup>th</sup> Annual ESRI/CUK joint training on GIS at the Cooperative University of Kenya
- **FEB 2020:** Presenting a paper at the Africa Water Association (AfWA) International Congress and Exhibition 2020 (AfWA ICE2020), **Kampala, Uganda**. February. 23-26<sup>th</sup> 2020
- **OCTOBER 2019:** Co-organized the 3<sup>RD</sup> annual ESRI/CUK joint training on GIS at the Cooperative University of Kenya
- **MAY 2019:** Presented a paper at the 21st International Conference on Water, Sanitation, Food Security and Waste Management (ICWSFSWM), **Montreal, Canada**. Paper Title "*Assessing Suitability of Flush Toilets in Promoting Sustainable Water Use in Urban cities*".
- **OCTOBER 2018:** Co-organized the 2<sup>ND</sup> annual ESRI/CUK joint training on GIS at the Cooperative University of Kenya
- **NOV 2018:** participated as a Climate Change and Land Use Modelling Training dubbed "PANAFRICAN Soil Challenge" at the West African Science Service Centre on Climate Change and Adapted Land Use (WASCAL) in **Accra, Ghana** (Nov 26-30<sup>th</sup> 2018)
- **APRIL 2018:** International Cooperative Conference: Presentation at the 1<sup>st</sup> East African Cooperative Conference at the Cooperative University of Kenya, **Nairobi, Kenya**
- **OCTOBER 2018:** Co-organized the 1<sup>st</sup> annual ESRI/CUK joint training on GIS at the Cooperative University of Kenya
- **SEP 2017:** Participation and presentation at the ESRI East African GIS conference Kenyatta University. 20-22<sup>nd</sup> September 2017. **Nairobi, Kenya**
- **JUNE 2017:** **AFRIWATSAN Project Workshop**-Multi-Stakeholder African Water and Sanitation Project Workshop, Kisumu-Kenya. 10- 14<sup>th</sup> June 2017
- **OCT 2016:** Participated in the AgriGIS Think-tank Workshop at the Regional Centre of Mapping and Resource Development (RCMRD) in Kasarani, Nairobi, **Nairobi, Kenya**
- **OCT 2016:** Participated in the National Disaster Risk Reduction Symposium at the SportsMan's Arms **Nanyuki, Kenya**, presented a paper entitled "Application of RS in monitoring the degraded Vihiga hills of western Kenya".
- **SEP 2016:** Participated in the Regional ESRI User Education GIS Conference at the UN Conference hall in **Addis Ababa, Ethiopia**. Presented a paper entitled "Application of RS in monitoring the degraded Vihiga hills of western Kenya".
- **OCT 2015:** Attended the East African Transport Conference at Kenyatta International Conference Centre (KICC), Nairobi organized by the Matatu Owners Association, **Nairobi, Kenya**.
- **MARCH 2012** - Sustainable Land Use management and Sustainable Energy (SLUSE); an exchange program in conjunction with University of Copenhagen and University of Nairobi held in Laikipia, Kenya. **Organization:** Green Belt Movement and University of Nairobi.



## CURRICULUM VITAE

**DR. CALVINCE OUKO OTHOO**

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ORCID ID: <https://orcid.org/0000-0003-4956-2816>

- **JULY 2010-** International Training Course on Organic Agriculture (ITCOA) and Go Organic innovation conference held at Makerere University- Uganda, **Kampala, Uganda**.

### H. COMMUNITY RESPONSIBILITIES

- **Environmental Sustainability championship:** UNESCO, GIS and Environment clubs Patron, Co-operative University of Kenya
- **September 2015 - March 2017: Treasurer,** Universities Academic Staff Union (UASU), Cooperative University of Kenya Chapter.
- **Religious Service:** I have served in various church positions and roles including my present role as a church Head Deacon, Seventh Day Adventist Church (SDA) Oasis Church, Nairobi, Kenya.
- **Community Mobilizer;** I have volunteered, trained and empowered local start-up community cooperatives in my rural area on agroforestry and business start-ups including formation of cooperative movements.

### I. ADMINISTRATIVE EXPERIENCE

- **Jan 2017 – To date: UNESCO Chapter Coordinator and Liaison contact,** Cooperative University of Kenya.
- **September 2015 – To date: Geographic Information Services (GIS) Coordinator and Administrator,** University Champion and System Administrator for GIS programs and licence use, Cooperative University of Kenya.
- **January 2021 to date: Curriculum/Program Coordinator;** I am the program coordinator for BSc. Environmental Science and Technology program at the School of Cooperative and Community Development, Cooperative University of Kenya.
- **September 2018 to date: Member,** University Chaplaincy Committee, overseeing university chaplaincy activities, Co-operative University of Kenya.
- **Jan 2017 – June 2019: Examination Coordinator,** Department of Community Development and Environment Management (DCEM), Cooperative University of Kenya.
- **May – June 2018: Acting Chair of Department,** Department of Community Development and Environmental Management (DCEM), Co-operative University of Kenya.
- **Sept. 2015 – June 2017: Website Committee Chairman and Sub-Site Administrator,** Leading a committee in developing, upgrading and updating the proposed new university website during transition from College to University, Co-operative University of Kenya.

### J. KEY AWARDS

- **February 2023: POST DOCTORAL FELLOWSHIP AWARD** – Awarded a Postdoctoral fellowship by the joint Global Centre for Adaptation(GCA) and University of Nairobi (UON) Project on Upscaling climate resilience of critical infrastructure in Kenya and East Africa Region
- **May 2021: ONE PLANET FELLOWSHIP AWARD** – Become a winner of three-year career-development programme through the One Planet Fellowship (OPF) initiative led by African Women in Agricultural Research and Development (AWARD) in Collaboration with the Agropolis Foundation (France). OPF aims to build capacity and network of scientist between Africa and Europe working on the development of innovative research projects and interventions towards climate change adaptation for Africa's smallholder farmers (<https://awardfellowships.org>)
- **September 2012 – 2013: COMMONWEALTH SCHOLARSHIP** – Awarded the Commonwealth Scholarship by the British Commonwealth Commission (CSC) for study in Masters in Environmental monitoring and Analysis Study at the University of Wales, Aberystwyth in the UK (2012-2014).
- **September 2011: GANDHI SMARAK NINDHI TRUSTEE FUND AWARD** – Award for emerging the best student overall in the Faculty of Agriculture in the 2011 Graduating Class, University of Nairobi, Kenya
- **September 2011: UNIVERSITY OF NAIROBI ALUMNI AWARD** – Award for emerging the best student overall in the College of Agriculture and Veterinary Sciences (CAVS), Upper Kabete Campus, University of Nairobi.



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<https://www.linkedin.com/in/calvince-ouko-761a8036>

ORCID ID: <https://orcid.org/0000-0003-4956-2816>

### K. PROFESSIONAL QUALIFICATION

- Registered Lead Environmental Impact Assessment Expert in Kenya (NEMA REG. NO. 2203)
- Licensed TIVET category KNQF Level Trainer (TIVETA Licence Number: **TVETA/T211002**)

### L. KEY PROFESSIONAL GROUPS

- Member of the Climate Action Network-International (CAN)- <https://climatenetwork.org/overview/>
- Member of the Future Earth Early Career Professional Group: <https://futureearth.org/networks/early-careers/>
- Associate Member of Africa Water Association (AWA): <https://www.afwa-hq.org/index.php/en/>
- Member of the Commonwealth Alumni and Professional Networks: <https://www.linkedin.com/in/commonwealth-scholarships-alumni-association-of-kenya-csaak-3a29a035/?originalSubdomain=ke>
- Life member of Aberystwyth University Alumni Networks

### REFERENCES

<b>PROF. DANIEL OLAGO</b> <i>Institute for Climate Change and Adaptation (ICCA)</i> University of Nairobi, Kenya P.O.Box 30197, GPO, Nairobi, Kenya Tel: (+254-20) 491 0000 <b>E-mail: <a href="mailto:sodulo@uonbi.ac.ke">sodulo@uonbi.ac.ke</a></b>	<b>PROF. WYCLIFFE OBOKA</b> <i>Director, Institute of Cooperative Development (ICD)</i> Co-operative University of Kenya P.O. Box 24814-00502, NAIROBI <b>Tel : +254727739806,</b> <b>E-mail: <a href="mailto:woboka@cuk.ac.ke">woboka@cuk.ac.ke</a></b>	<b>STEPHEN MUTIMBA</b> <i>Managing Director</i> <i>Climate and Energy Advisory</i> Telephone: +254 20 3882131 or +254 722 721680 Email: <a href="mailto:stephen.mutimba@climateadvisory.com">stephen.mutimba@climateadvisory.com</a>
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### CERTIFICATION

I, Dr. Calvince Ouko Othoo, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience.

Date: 05/05/2023

Signature