

MUYOMA PAUL WANJALA (B.Sc., M.Sc., Ph.D.)

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Career Summary

I am a Scientist with expertise in student teaching and management, research work, course and curriculum development. Having handled both junior and management roles, I have perfected my skills in student leadership, operational efficiency, data management, monitoring and evaluation. I have worked in the academic sector for more than 8 years and in the industrial sector for 9 years, ensuring compliance with institutional processes and procedures across departments. As a registered Environmental Scientist of USA (National Registry of Environmental Professionals), my expertise has exposed me to both local and international backgrounds, where I have efficiently interacted to benefit both my academic and professional skills. I can comfortably handle various levels of leadership as shown from my roles.

Core Competencies

- Student Management & Supervision
- Teamwork & Coordination
- Process Auditing
- Data Collection & Analysis
- Experimentation
- Goods Inspection
- Training Skills & Safety (ISO Champion)
- Laboratory Operations
- Research Planning & Publication
- Soil Analysis
- Team Leadership
- University Teaching

Technical Proficiency

- MS Packages (Excel, Database, PowerPoint, Word)
- Quality systems (ISO)

Leadership Role

ISO Process auditor (Internal auditor) – Moi University, | Jan 2013 – Feb 2020

ISO Champion – Moi University, School of Biological and Physical Sciences | Jan 2013 – Sept 2018

Secretary Technical Team – Moi University, School of Science Aerospace Studies | Jan 2013 – Feb 2017

Work Experience

LECTURER | Zoology/Botany/Microbiology – Bomet University College, (A constituent College of Moi University) (5th February 2021– Present)

Key Responsibilities

- Facilitate research work; lecturing, handling curriculum preparation and its revision when need arises. Oversee the preparation of course outlines, student evaluation and examination.

GRADUATE TEACHING ASSISTANTSHIP – University of Port Harcourt, Nigeria (July 2017 – Jan 2020)

World Bank Centre of Excellence in Oil Field Chemicals Research [ACE-CEFOR] Scholarship

Key Responsibilities

- Lecturing, examining students (assignments, quizzes, CATs and final examination) and marking the CATs, assignments and examination; and submitting them to the department for moderation and proof-reading.

PART-TIME LECTURER | Zoology – Moi University, Kenya (Jan 2016 – 5th February 2021)

Key Responsibilities

- Facilitate research work; lecturing, handling curriculum preparation and its revision when need arises. Oversee the preparation of course outlines, student evaluation and examination.

LABORATORY TECHNICIAN – Moi University, Kenya (Nov 2012 – 5th February 2021)

Key Responsibilities

- Participate in research activities in the laboratory; organizing, conducting and supervising practical demonstrations for undergraduate and post graduate students.

PART-TIME LECTURER | Zoology – Kibabii University, Kenya (May 2017-July 2017)

Key Responsibilities

- Facilitate research work; lecturing, handling curriculum preparation and its revision when need arises. Oversee the preparation of course outlines, student evaluation and examination.

PART-TIME LECTURER | Zoology – Laikipia University, Kenya (09/01/2017)

Key Responsibilities

- Facilitate research work; lecturing, handling curriculum preparation and its revision when need arises. Oversee the preparation of course outlines, student evaluation and examination.

ASSISTANT SHIFT CHEMIST – Corn Products International Kenya (Jan 2003 – Sept 2012)

Key Responsibilities

- Acted as quality authority in a shift ensuring that products were compliant to quality standards.

TUTOR – Kenya Institute of Applied Sciences (Jan 2012 – Sept 2015)

Key Responsibilities

- Lectured on Pharmacology, Toxicology and Microbiology courses.

Work Accomplishments

- Participated in the successful implementation of ISO 9001-2015 as the Internal Auditor, Moi University.
- Ongoing implementation of ISO Standards (9001-2015) in the Department of Biological Sciences, Moi University.
- Member Curriculum Review and Development in School of Biological and Sciences, Moi University (Technical staff representative).
- Participated in the successful implementation of ISO Standards (9001-2008) in the Department of Biological Sciences, Moi University.
- Successfully handle the secretary role of Biosafety committee and technical staff in School of Biological and Physical Sciences, Moi University.
- Chair firefighting team and First Aid team in School of Biological and Physical Sciences, Moi University, where I facilitated acquisition of firefighting equipment.
- First aider at work; yet saved lives. Participated in intercompany competition and achieved the 2nd position overall.
- Participated in the successful implementation of ISO 9001-2000 at CPC under the Quality Assurance Manager and carried routine surveillance audits.

Education

PhD in Environmental Microbiology (World Bank Centre of Excellence in Oil Field Chemicals Research [ACE-CEFOR] Scholarship)

– University of Port Harcourt, Nigeria | July 2017 – Jan 2020

Masters in Environmental Biology – Moi University, Kenya | 2013 – 2016

Bachelor of Science (Zoology/Botany) – Moi University, Kenya | 2009 – 2012

Higher National Diploma (Pharmacology/Toxicology/Microbiology/Physiology) – Eldoret National Polytechnic | 2007 – 2008

National Ordinary Diploma (Applied Biology) – Eldoret National Polytechnic | 2000 – 2003

Professional Training

- **GODAN Online Course in Data Management in Agriculture and Nutrition, Certificate of Achievement** – Collaboration of GODAN Action UK, Wageningen Environmental Research, AidData, CTA, FAO, GFAR, IDS, Land Portal & ODI | July 2018
- **Certified Environmental Scientist** – National Registry of Environmental Professionals USA, Reg No: A2159 | April – June 2018
- **Online Training in Feeding a Hungry Planet: Agriculture, Nutrition and Sustainability, Certificate of Distinction** – SDG Academy | April – June 2018
- **Internal Quality Auditing Transition Course** – Kenya Bureau of Standards, ISO 9001 2008, ISO 9001 2015 | Feb 2016
- **Basic Fire Fighting Skills** – Moi University | April 2013
- **Occupational First Aid Course** – Kenya Red Cross, REF NO: 4686 | Dec 2011
- **First Aid at Work** – St John Ambulance No: 093964 & 13910 | Jan 2010 & June 2005
- **Certificate in Computer Applications; Windows Operations, Ms Word, Ms Excel** | July – Sept 2002

Conferences Attended

- Research, Innovation for Sustainable Development and a Secure World – Kabarak University 5th Annual International Conference | July 2015
- Towards Achieving Environmental Sustainability in Africa – University of Port Harcourt 2nd International Conference on Environmental Management | Oct 2018
- International Conference on Environmental Management-National Registry of Environmental Professional (NREP), USA | 2nd – 4th October 2018
- International Conference on Environmental and Natural Science-IASTEM-Nairobi, Kenya | 10th – 11th June 2019
- International Conference on Phytochemistry, Textile & Renewable Energy for Sustainable Development, held at Sirikwa Hotel, Eldoret, Kenya, August 11th - 15th, 2020. Conference Theme: Advancing Science, Technology and

Innovation for Industrial Growth.

- 1st Bomet University College (A Constituent College of Moi University) International Conference which was held on 13th and 14th July 2021
- Bomet University College (BUC) (A Constituent College of Moi University) in collaboration with German Academic Exchange Service (DAAD) and Inter University Council for East Africa (IUCEA) three (3) days Dialogue Event, scheduled for 6th, 7th and 9th September 2021
- The RUFORUM's Pre-Summit Academia Dialogue for the Republic of South Sudan and Mali that were held on the 8th and 16th of July, 2021 respectively.
- The RUFORUM's 'Namibia Higher Education Day' on the 22nd of July 2021
- The RUFORUM's Pre-UN Food Systems Summit Dialogue for Selected African Heads of State Jul 1st, 2021.
- Advance 4Climate Action 2021 Dialogue (Aug 4, 2021). The event was organized by Makerere University Business School in partnership with UK COP26 Presidency, working with the International Science Council, and the Association of Commonwealth Universities.

Publications

- **Growth performance of *Oreochromis variabilis* larvae: A case Study of Effect of Live and Formulated Diets on Growth and Survival rates** | International Journal of Fisheries and Aquaculture. Vol. 9(2), pp. 14-23, February 2017 <https://DOI:10.5897/IJFA2016.0553> Article Number: DE35A7F63124. ISSN 2006-9839
- **Underground Water in Kenya: Abstraction, Pollution and Societal Demand; A case study of wells in three peri-urban areas of Eldoret Town is used to illustrate this scenario.** Journal of Biology and Nature 7(3): 137-153, 2017. ISSN: 2395-5376 (P), ISSN: 2395-5384 (O), (NLM ID: 101679666). International Knowledge Press www.ikpress.org
- **Evaluation of sustainable use of underground water in peri-urban centers' of Eldoret Municipality in Kenya.** Journal of Global Ecology and Environment. ISSN No.: 2454-2644, Vol.: 6, Issue.: 2. International Knowledge Press www.ikpress.org
- **Dwindling Wetland Ecosystems: A Survey of Impacts of Anthropogenic Activity on Marura Wetland, Kenya.** Journal of Agriculture and Ecology Research International. 14(4): 1-19, 2018; Article No.:JAERI.35588. ISSN: 2394-1073 <https://DOI:10.9734/JAERI/2018/35588>
- **Physicochemical Analysis and Evaluation of Levels of *Escherichia coli* in Sewage Treatment Plant, Moi University, Kenya.** Journal of Biology and Nature. 8(4): 127-134, 2017. ISSN: 2395-5376 (P), ISSN: 2395-5384 (O), (NLM ID: 101679666)
- **Macroinvertebrates as Bioindicators of Point Source Pollution of Sambul River, Kenya.** 2017/JOGEE/5306. <http://www.ikpress.org/articles-press/43>. In press
- **A Review of the Role of Anthropogenic Effects on Microorganisms in Soil.** Journal of Agriculture and Ecology Research International. 16(4): 1-16, 2018; Article no. JAERI.44994 ISSN: 2394-1073. <https://DOI:10.9734/JAERI/2018/44994>
- **Oil-Gas and Environmental Nexus: Impact of Human Actions on selected Soil Physicochemical Parameters in Port Harcourt and its environment, Nigeria.** DOI: <https://dx.doi.org/10.4314/jasem.v22i11.30> J. Appl. Sci. Environ. Manage. Vol. 22 (11) 1859–1866 November 2018. Full-text Available Online at <https://www.ajol.info/index.php/jasem> <http://www.bioline.org.br/ja>
- **Assessment of Soil Metals Status in parts of Rivers State, Nigeria.** J. Appl. Sci. Environ. Manage. Vol. 23 (3) 545-550 March 2019, DOI: <https://dx.doi.org/10.4314/jasem.v23i3.26>
- **Impacts of Anthropological Activities on Soils of Some Parts of Rivers State, Nigeria.** International Research Journal of Pure & Applied Chemistry. 18(4): 1-17, 2019; Article no. IRJPAC.47040. ISSN: 2231-3443, NLM ID: 101647669. <https://DOI:10.9734/IRJPAC/2019/v18i430096>
- **Evaluation of the effects of Cadmium in soil on the LC50 of soil bacteria and fungi for environmental monitoring.**
- **Assessment of Ni toxicity to fungi and bacteria in oil tainted soils in Greater Port Harcourt Area, Nigeria.** Presented in The International Conference on Phytochemistry, Textile and Renewable Energy in Sustainable Development.
- **Impact of nitrogen fertilizer use on soil ecosystem integrity in the Greater Port Harcourt Area, Nigeria.**
- **Characterization of culturable microbial community in oil contaminated soils in Greater Port Harcourt Area, Nigeria**

- **Characterization of Chemically Activated Carbons Produced from Coconut and Palm Kernel Shells Using SEM and FTIR Analyses**
- **Seasonal population trends of microbial communities in oil tainted soils in Greater Port Harcourt Area, Nigeria**

Publications in press

- **Assessment and characterization of benzene, toluene, ethylbenzene and xylene (BTEX) in soils of selected areas of Port Harcourt, Nigeria.** Track number; INDIC-D-19-00121R, Elsevier

Taught Courses

- Pharmacology
- Toxicology
- Microbiology
- Basic Zoology 1
- Basic Zoology 11
- Agricultural Entomology
- Basic Zoology for agriculture
- General Genetics
- Ornithology and Mammalogy
- Fundamentals of Aquatic Ecology
- Environmental Microbiology
- General Ecology II
- Microbial Ecology
- Healthcare Skills
- Environmental Impact Management
- Environment and Sustainability
- Basic Concepts in Geography

Referees

- **Dr. Jacqueline Makatiani | Senior Lecturer, Biological Sciences**
Moi University | Tel: +254-704920581 | Email: jkmakatiani@gmail.com
- **Dr. Rose Ramkat | HOD, Biological Sciences**
Moi University | Tel: +254-726647985 | Email: chirirose@yahoo.com
- **Dr. Dorcas Lusweti | Senior Lecturer, Biological Sciences**
Moi University | Tel: +254-722953621 | Email: dlusweti@yahoo.co.uk
- **Prof Lucky O. Odokuma | Chairman Departmental Graduate Studies Department of Microbiology**
University of Port Harcourt | Tel: +2349054443551 | E: luckyodokuma@yahoo.co.in ,
Lucky.Odokuma@uniport.edu.ng
- **Prof. Ibisime Etela | Dean School of Agriculture | Member, Africa Centre of Excellence in Oil Field Chemicals Research (CEFOR)**
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