



GITHINJI IRENE MUENI
CONTACT INFORMATION:

Kenyatta University
Chemistry Department
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Career Objectives and Research Interests

Tutorial fellow/Researcher at Kenyatta University with interests on material exploration for solutions applicable in water remediation. My areas of research interests include development of adsorbents for treatment of heavy metals contaminated water. Hydrothermal synthesis, molecular sieves, mycotoxin analysis and growth inhibition.

Academic and Professional Qualification

Ph.D., Applied Analytical Chemistry (on-going) at Kenyatta University
Quantification of ochratoxin A in poultry feeds in Kenya. Use of essential oils as a potential protectant against selected mycotoxins in poultry feeds. Supervisors: Prof. Ahmed Hassanali and Dr Margaret Mwihaki Ng'ang'a

M.Sc., Chemistry, 2013-2015, at Kenyatta University Thesis Topic: Synthesis of Alumino-Phosphates from Bones for use in Water Remediation. Supervisors: Dr. Harun M.Mbuvi and Dr Margaret Mwihaki Ng'ang'a

B.Ed Science (First class Honors), December 2011

Trainings and seminars

Leadership training for young women scientists and engineers. Organized by African women in Science and Engineering – October 2016

Student training for entrepreneurial promotion (STEP) - at Kenyatta University KUCC August 2016

Teaching Methodology training organised by the Centre of teaching Excellence & evaluation - AT Kenyatta University - May 2014.

Transformational leadership skills training at Kenyatta University BSSC - December 2011

Junior Achievement Economics training - at Buru Buru Girls' Secondary School - 2003

Research Experience

Optimization of parameters on the adsorption of fluorides and heavy metals

Synthesis of molecular sieves using hydrothermal process.

Adsorption of fluorides, lead and cadmium using laboratory synthesized alumina-phosphates

Quantification of levels of ochratoxins in poultry feeds in Kenya

Current Employment Experience

Tutorial fellow Chemistry Department, Kenyatta University Teaching undergraduate level courses: analytical Chemistry & Inorganic chemistry. Assisting undergraduate and M. Sc students in their laboratory project setup.

Recording minutes in departmental meetings

First Year Students' Academic Advisor. At Chemistry Department, Kenyatta University
Mentor; Kenyatta University Mentorship Programme since 2016

Previous Employment Experience

Teaching Assistant May 2013 - May 2015 Chemistry Department, Kenyatta University. Handling tutorial sessions for SCH 102-Organic Chemistry 1. Marking examinations, practicals and exam supervision.

Assisting undergraduate students in laboratory project setup

Graduate Teacher ; January 2012 to April 2013 my duties and responsibilities as Chemistry and Mathematics teacher included coordination of Chemistry practicals and teaching laboratory skills, teaching Chemistry and Mathematics lessons in the 8.4.4. education system.

Skills & Competences

Methods of characterization: Ion selective electrode (ISE), Fourier Transform Infrared Spectroscopy (FTIR), UV-Vs Spectroscopy, Atomic absorption spectroscopy

CISCO networking skills: PC hardware and software maintenance, network fundamentals, Routing and switching, connecting networks

Operating Systems: Windows

Tools: Microsoft Word, Excel, Powerpoint

Awards & Honours

Kenyatta University Vice Chancellor's M.Sc scholarship Award for exemplary students, 2013

Kenyatta University Staff Advancement Scholarship Award, 2016

Certificate of completion of the 2009 10 KM Mater Heart Run

Membership of Professional Bodies

Member - African Women in Science and Engineering

Member - International Network of Women Engineers and Scientists

Member – Kenyatta University Alumni

REFEREES

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