

# DR. VICTORIA M NJOROGE

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## ICT4D LECTURER, TRAINER AND RESEARCHER

Experienced and accomplished trainer and researcher in information systems and health informatics with over 10 years of experience. Researcher looking for challenging educational, social, health and business problems to solve with the use of technology. Capable of working independently while at the same time devising captivating, fascinating, and unique ways in which to present information of said problems. Have quite a wealth of knowledge in the unique world of health integrated into IT and has performed research and conducted projects within the same area.

## CORE COMPETENCIES

- Curriculum development
- Project Management and Research
- IT integration to real world problems
- Design Thinking
- Critical Thinking Trainer
- Training and Development
- IoT and Development
- ICT Trainer
- Report Writing
- Randomized Control Trials

## EDUCATION

**PhD** in Information Technology, Durban University of Technology

**MSc.** in Information System Technologies, Wilmington University, Concentration: Information Resource Management

**BSc.** Computer Technology, Jomo Kenyatta University of Agriculture and Technology

## CERTIFICATIONS AND ACCOMPLISHMENTS

### Certifications

- LPWAN Solutions for the Internet of Things by ICTP, 2020
- mHealth researcher by AMHRI, 2019
- Researcher Connect by the British council, 2019
- ICT in Health Research by the University of Washington, 2016
- Principles and Practice of Research Data Management by the University of Washington, 2016
- Open Education Resources by OER Africa, 2013
- Informatica (ETL) by Velosys, 2009
- Networking + by Velosys, 2009

### Reviewer:

- African Journal of Science, Technology, Innovation and Development (Taylor & Francis)
- Technology in Society (Elsevier)

**Statement of Accomplishment:** Stanford University – Mobile health without borders

**Design Thinking Trainer:** Coached as a trainer (health track) 2018 and 2019

## PUBLICATIONS

Victoria Mukami, Richard Millham, Threethambal Puckree, S J Fong, "Identifying the Most Feasible Technologies for mHealth Maternal Mortality Interventions in Sub-Saharan Africa", Book Chapter, Lecture Notes in Networks and Systems, Springer Nature (in press)

Millham, R. C., Agbehadji, I. E., Puckree, T., Mukami, V., & Li, T. (2020). Feasible E-Health Strategies to Reduce Maternal Mortality in Kenya. International Journal of Extreme Automation and Connectivity in Healthcare (IJEACH), 2(2), 26-36. doi:10.4018/IJEACH.2020070103)

Mukami, V, R Millham, T Puckree "mHealth: ICT framework for mitigating the determinants of maternal and neonatal mortality", IEEE Xplore, Ghana, 2019

V. Mukami, R. Millham and T. Puckree, "Comparison of frameworks and models for analyzing determinants of maternal mortality and morbidity", IST-Africa Week Conference, IEEE Xplore, 2016.

V. Mukami, "Use of mobile technologies as a maternal mortality reduction tool in Kenya", 1st Annual ANU International Conference, 2014.

## FUNDED PROJECTS

**Principal Investigator:** Multi-location randomized clinical trial: Nov 2016 – Aug 2017 | Location: Ongata Health Centre and Ngong Sub-district hospital | Intervention: Use of SMS to educate pregnant women to reduce maternal complications that lead to maternal mortality

**Investigator:** Leveraging Intelligent Decision Support System to Promote Inclusive and Significant Remote Teaching and Learning in the East African Higher Education during similar interruptions to the COVID 19 pandemic | Africa Rapid Grant Fund | September 2020

**Co-Investigator:** Quasi-Experimental Research, May 2020 – May 2021 | KENET: Automated Artificial Language Learning Using Compiler Reverse Engineering

**Tutor:** Partnership for Enhanced and Blended Learning (PEBL) under the Association of Commonwealth Universities (UK): DBL4 (West Africa) | January 2022

**Co-Author:** Partnership for Enhanced and Blended Learning (PEBL) under the Association of Commonwealth Universities (UK): Blended Learning Module Development | June 2020

**Author:** UNESCO-UNITWIN OCW/OER Initiative | Development of a blended module | September 2021.  
HUF | Development of a blended module | March 2022

## CONFERENCES, WORKSHOPS AND SEMINARS

### Conferences

"mHealth: ICT framework for mitigating the determinants of maternal and neonatal mortality" at the IEEE AFRICON 2019 Conference, 2019, Accra, Ghana.

"Comparison of frameworks and models for analyzing determinants of maternal mortality and morbidity" at the IST Africa Conference, 2016, Durban, South Africa.

"Use of mobile technologies as a maternal mortality reduction tool in Kenya", 1st Annual ANU International Conference, 2014, Kenya.

### Workshop

Development of Blended Learning Modules | 2021 | Partnership for Enhanced and Blended Learning (PEBL) and the Association of Commonwealth Universities (ACU)

LPWAN Solutions for the Internet of Things | 2020 | International Centre for Theoretical Physics (ICTP)

mHealth Research |Africa mHealth Research Institute |2019 | (AMHRI) (Purdue University, Vanderbilt University and Moi University)

Researcher Connect | 2019 | Researcher Connect

Principles and Practice of Research Data Management workshop | 2016 | University of Washington

### **Seminars**

Open Educational Resources (OER) Seminar | 2013 | Africa Nazarene University.

Future of Technology by the IBM Vice President | 2013 | Catholic University of Eastern Africa

## **MEMBERSHIP**

- The Organization for Women in Science for the Developing World (OWSD)
- Kenya Health Informatics Association (KEHIA)

## **PROFESSIONAL EXPERIENCE**

### **UNIVERSITY OF EMBU, Nairobi, Kenya**

**2022 – Present**

#### **Lecturer**

Working with the School of Science and in the Department of Computing and Information Technology to facilitate Information Technology related courses.

- Has made significant input in the department as being the lead for the PhD in IT curriculum
- Effectively performed a course curriculum review for IT and Computer Science related courses within the university.
- Evaluation of undergraduate and graduate student projects.

### **AFRICA NAZARENE UNIVERSITY, Nairobi, Kenya**

**2011 – 2021**

#### **Lecturer**

Actively involved in all areas of academia, engaging and challenging students to realize their full potential and develop their Information Technology skills. Made significant input in the departmental administration as the exams, collaborations, and research leader.

- Was in charge of the department research and development to encourage faculty to publish and apply for grants and participated by applying and bringing in three grants as a co-researcher.
- Effectively performed a course curriculum review for all IT related courses within the university.
- Spearheaded the coordination of the exam activities within the department by creating a policy manual of the same, computerizing the process as well as enabling a turnover of moderated and corrected exam scripts by 95%.
- Effectively guiding Masters students towards the successful defense of proposals and final projects/thesis.
- Liaised with the industry and introduced the department to various partnerships and collaborations to enhance innovation within the department.

### **eKRAAL Innovation Hub, Nairobi, Kenya**

**2018 - Present**

#### **Cyber Security - Critical Thinking Consultant**

Worked with the National Cyber Security Training Program (NCSTP) to train upcoming cyber security experts in critical thinking. Worked with multi-disciplinary cyber security students to elevate their thinking and reasoning skills.

- Creation of Case Studies and interactive teaching methods to teach on critical thinking and behavior change.
- Practically ensured application of critical thinking skills on a day-to-day basis to real life scenarios
- Created content for the students that modified the class thereby witnessing behavior change within the students.
- Emotional Intelligence training to prepare the students as they take up various roles in the industry.

**GOOD PARTNERS, Nairobi, Kenya**

**2019-2020**

**Consultant**

Involved in areas revolving around system analysis, implementation, and training lead.

- Training lead for various projects
- In Charge of system analysis and UI/UX design
- Technical writing of ICT4D grant proposals and request.

**KAMANEH, Nairobi, Kenya**

**2019 – 2020**

**Voluntary Programme Officer**

Involved in all areas revolving around maternal and neonatal health.

- In charge of writing grant proposals in the areas of maternal, neonatal and child health (MNCH)
- Conducted desk reviews and literature searches to write papers for publications around MNCH.
- Conducted desk reviews for creating a presentation on mobilizing communities to decrease delays in seeking treatment specifically for expectant women for the AIDF Africa Summit
- Monitoring and evaluation of past projects

**HOSTING.COM, Delaware, US**

**2008 – 2010**

**Web/Technical Support Representative**

Assisted Web developers, Web programmers and internet merchants via phone, chat, and email in installation, setup, and maintenance of their websites on the servers including troubleshooting server and website errors.

- Effectively resolved technical support problems related to Windows and Linux servers
- Served as a liaison, resource, and primary point of contact for management and clients.
- Saved the company from losing irate customers who were willing to terminate their accounts by enabling trust and mending relationships.
- As a team member, worked to install and configure SSL certificates thereby ensuring business continuity specifically for companies that were web-based.