

# CURRICULUM VITAE

## PERSONAL INFORMATION

**NAME:** Dr. Mary Walowe Mwadulo  
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**NATIONALITY:** Kenyan Citizen  
**GENDER:** Female  
**PLACE OF BIRTH:** Taita / Taveta County  
**DATE OF BIRTH:** 8<sup>th</sup> November, 1980.  
**LANGUAGES:** English, Kiswahili and Kitaita

## QUALIFICATIONS

### Academic Qualifications

- 2020 Ph.D. in Information Technology, Masinde Muliro University of science and Technology
- 2012: MSc. in Information Technology Management, University of Sunderland UK, JKUAT Campus
- 2006: Bachelor of Science degree in Mathematics and Computer Science, Kenya Methodist University
- 1999: K.C.S.E, Mahiga Girls Secondary school
- 1995: K.C.P.E, Consolata Primary School

## **Professional Courses**

- **2009:** Post Graduate Diploma in Education (PGDE), Egerton University
- **2001:** Diploma in Information Technology, Institute for the Management of Information Systems (IMIS), U.K
- **2000:** Certificate in Computer Application packages, Pinnacle College of Professional Studies

## **EMPLOYMENT HISTORY**

- **2020 to date:** Lecturer, Department of Computer Science, Meru University of Science and Technology
- **2013 to 2020:** Assistant Lecturer, Department of Computer Science, Meru University of Science and Technology
- **2008 - 2013:** Assistant Lecturer (TSC employee), Meru Technical Training Institute, teaching Computer Studies and Mathematics

## **ADMINISTRATIVE RESPONSIBILITY**

### **At Meru University of Science and Technology:**

- **Nov 2020- to date:** Chairperson, Department of Computer Science
- **Oct 2017- June 2019:** Chairperson, Department of Computer Science
- **Feb 2016 to Oct 2017:** Departmental time tabler, Department of Computer Science

- **Feb 2014 to Feb 2016:** Departmental Industrial Attachment coordinator
- **Feb 2020 to date:** Appointed Curriculum Reviewer for Bachelor of Science in Computer Security and Forensics programme

### **At Meru Technical Training Institute:**

- **Jan 2013 - June 2013:** Head of Information Technology Department
- **Sept 2007 - Dec 2012:** Deputy Head of Information Technology Department

## **CONFERENCES/WORKSHOPS**

### **Presentation/ participation at Academic and Professional Conference**

- Mammographic Image analysis for breast cancer classification. A best evidence review paper presented at the 5<sup>th</sup> Annual International Scientific Research Conference held on 29<sup>th</sup> -30<sup>th</sup> December 2018 at Kenya Methodist University
- Participated in construction and design of a robot for the former Meru Technical training institute which won a national award in the first TIVET National Technology Exhibition and Robot Contest for being position three among technical training institutes in Kenya, held on May 2011

### **Workshop /Training**

- **24<sup>th</sup>July - 26<sup>th</sup> July 2019:** Attended a training for TVET CDACC Assessors in Competency Based Education and Training

- **3<sup>rd</sup> July - 7<sup>th</sup> July 2017:** Attended a training of trainers' course in Competency Based Education and Training
- **18<sup>th</sup> Sept - 20<sup>th</sup> Sept 2009:** Attended a training on Basic Counseling Skills conducted by Kenya Institute of Professional Counseling
- **18<sup>th</sup> May - 20<sup>th</sup> May 2009:** Attended a performance management training conducted by Public Sector Reforms and performance contracting.
- **May- July 2005:** Attached at National Bank of Kenya Ltd Nyeri branch

## PUBLICATIONS

- **Mary Mwadulo**, Stephen Mutua and Raphael Angulu. Breast Cancer Classification using Local Directional Ternary Patterns. *International Journal of Computer Applications* 176(38):14-21, July 2020.
- **Mary Walowe Mwadulo**, Raphael Angulu, Stephen Makau Mutua, "Breast Cancer Detection via Mammographic Images : A Survey ", *International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT)*, ISSN : 2456-3307, Volume 6 Issue 3, pp. 173-195, May-June 2020. Available at doi : <https://doi.org/10.32628/CSEIT20633>
- **Mary Walowe Mwadulo** , Collins Otieno Odoyo , "Phenomenology Approach Applicability in Information Systems and Technology Field," *Computer Science and Information Technology*, Vol. 8, No. 2, pp. 37 - 42, 2020. DOI: 10.13189/csit.2020.080201.

- **Mary Walowe Mwadulo** , Collins Otieno Odoyo , "ICT Adoption in the Educational Management of Primary Schools in Kenya," *Universal Journal of Communications and Network*, Vol. 8, No. 1, pp. 1 - 5, 2020. DOI: 10.13189/ujcn.2020.080101.
- Mwadulo M, Munialo S. (2019). Supplier Evaluation and Selection-A Review. *International Journal for Research in Applied Science & Engineering Technology (IJRASET)*. Volume 7 Issue 3, Mar 2019.
- Mwadulo M. (2016). Suitability of Agile methods for Safety-Critical Systems Development: A survey of literature. *International Journal of Computer Applications Technology and Research*, Volume 5- Issue 7, 465 - 471, 2016, ISSN:- 2319-8656  
[www.ijcat.com/archives/volume5/issue7/ijcatr05071009.pdf](http://www.ijcat.com/archives/volume5/issue7/ijcatr05071009.pdf)
- Mwadulo M. (2016). A review on Feature Selection Methods for Classification task. *International Journal of Computer Applications Technology and Research* Volume 5- Issue 6, 395 - 402, ISSN:- 2319-8656  
[www.ijcat.com/archives/volume5/issue6/ijcatr05061013.pdf](http://www.ijcat.com/archives/volume5/issue6/ijcatr05061013.pdf)

## GRANTS

- **April 2017:** Principle investigator in a research grant of ksh. 320,000 funded by Meru University of Science and Technology
- **March 2019:** Research Assistant in a multi-disciplinary research grant of ksh. 1,700,000 funded by Meru University of Science and Technology

## LOCAL AND INTERNATIONAL APPOINTMENTS

### Review of professional periodicals

- **February 2020:** Reviewer for IET Image Processing Journal. Reviewed a paper on 'Deep Learning Algorithm for Breast Masses Classification in Mammograms'

### Appointment to Boards

- **Oct 2018 to date:** Appointed by Minister for Education as Member of Board of Governors, Mitunguu Technical Training Institute.
- **2005-2006:** Appointed as secretary to electoral commission board of Kenya Methodist University student council

## AWARDS / RECOGNITION

- **5<sup>th</sup> Nov 2012:** Awarded certificate of recognition for being the best teacher in Introduction to ICT, for Diploma in Information Communication Technology Module 1 course
- **5<sup>th</sup> Nov 2012:** Awarded certificate of recognition for 100% performance in Introduction to ICT & Ethics, for

Diploma in Information Communication  
Technology Module 1 course

- **5<sup>th</sup> Nov 2012:** Awarded certificate of recognition for exemplary performance as Deputy Head of Information Technology Department

## COMMUNITY OUTREACH

- **Oct 2018 to date:** Member of Board of Governors, Mitunguu Technical Training Institute.
- **June 2018 to date:** A committee member for the Mothers Union department of A.C.K Saint Peter's Cathedral Kinoru Church, Meru.
- **31<sup>st</sup> Mar-7<sup>th</sup> April 2010:** Director of choral verse for the former Meru Technical Training Institute during Kenya Schools and Colleges National Drama festival held in Kisumu from
- **8<sup>th</sup> August 2009:** A participant during the Kenya National Music Festival held in Mombasa
- **27<sup>th</sup> June 2009:** A judge during ICT open day on "low cost technology to promote sustainable development" in Computer Information System department of Kenya Methodist University

## MEMBERSHIP TO PROFESSIONAL BODIES

- **2000 to date:** A Licentiate member with Institute for the Management of Information Systems (IMIS). Membership number 310154
- **2020:** A student member of IEEE (Institute of Electrical and Electronic Engineers). Membership number 95353638

## RESEARCH INTERESTS

Artificial Intelligence with a focus on Machine Learning and Data Mining.

## REFEREES

Masinde Muliro University of Science and Technology

Dean: School of Computing and Informatics,

Dr. Daniel Otanga.

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Meru University of Science and Technology,

Dean: School of Computing and Informatics

Dr. Stephen Makau Mutua,

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Mobile Number : 0725-208 700