



Devotha Nyambo

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<https://scholar.google.com/citations?user=aUtg31IAAAAJ&hl=en> |
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PROFESSIONAL SUMMARY

Well-versed systems analyst and lecturer consistently working on data-driven models and platforms. She has previously worked on dairy farming systems for cluster-based modelling of requirements for more milk. Among other current activities, she is actively working on data-driven solutions for advancements of health systems, farming and education. As an AWARD fellow [African Women in Agricultural Research and Development] Devotha has engaged in research that benefits East Africans for over seven years with a track record of winning grants and scholarships such as; from the Government of Tanzania through Tanzania Commission for Science and Technology, African Development Bank through Nelson Mandela - AIST, AWARD, Deep Learning Indaba, Women in Machine Learning, Queen Elizabeth Scholarship - Advanced scholars program and Grace Hopper Celebrations for Women in Computing.

SKILLS

- Classroom Lecturing
- Real - world modeling
- Online content delivery
- Information systems analysis
- Quantitative research and Data analytics by using R, SAS, Python
- Paperless data collection

WORK HISTORY

LECTURER, INFORMATION AND COMM. SCIENCES *04/2020 to CURRENT* Nelson Mandela - AIST | Arusha, Arusha

- Evaluate and revise lesson plans and course content to facilitate and moderate classroom discussions and student centered learning for masters and PhD classes.
- Create clear, engaging lessons to draw interest and develop students' ability to work with various data types in database systems and knowledge discovery.
- Collaborate with Professors and senior Lecturers to create dynamic, ongoing curriculum development and instruction improvement program.
- Collaborate with Professors and Senior Lecturers in development of grant proposals, execution of research projects and supervision of graduate research.

ASSISTANT LECTURER *01/2016 to 03/2020* Nelson Mandela - AIST | Arusha, Tanzania

- PhD research on the use of agent-based models in real world dairy farming systems
- Reviewed teaching activities and identified and implemented strategies to improve student learning outcomes.
- Participated in faculty meetings and contributed to curriculum review.

- Provided constructive and timely feedback to masters students to advise on areas of concern and suggest improvements in their research projects.
- Coordinated the PEARL project activities in East Africa as the project's administrative assistant.
- Collaborated with Professors and Lecturers in curriculum review

TUTORIAL ASSISTANT, COMPUTER SCIENCE

10/2011 to 12/2015

Ruaha University College | Iringa, Tanzania

- Collaborated with lecturers to create tutoring sessions appropriate for given learning outcomes in undergraduate degree courses.
- Delivered tutorials and supported undergraduate students in their final year projects.

EDUCATION

Ph.D. | Information and Com. Science and Engineer

08/2020

Nelson Mandela - AIST, Arusha, Tanzania

- Thesis title: Use of Agent - based models in Characterizing Farm Types and Evolvement in Smallholder Dairy Systems.
- Supervisors: Dr. Fidalis D.N. Mujibi, Dr. Zaipuna O. Yonah, Dr. Edith T. Luhanga.

Master of Science | Information and Com. Science and Engineering

12/2014

Nelson Mandela - AIST, Arusha, Tanzania

- Dissertation: A Holistic Security Framework for the Convergence of Web and Mobile Applications: A case study of Livestock data Center System.
- Supervisors: Dr. Zaipuna O. Yonah, Dr. Charles Tarimo.
- Graduated with 4.46 GPA

Bachelor of Science | Computer Science

11/2011

Ruaha University College, Iringa, Tanzania

- Project title: Ruaha University Accommodation System
- Supervisor: Dr. S. Kitinya
- Graduated with 4.42 GPA

PUBLICATIONS

Nyambo, D. G., Luhanga, E. T., Yonah, Z. O., & Mujibi, F. D. (2019). Application of Multiple Unsupervised Models to Validate Clusters Robustness in Characterizing Smallholder Dairy Farmers. *The Scientific World Journal*, 2019.

Nyambo, D. G., Luhanga, E. T., & Yonah, Z. O. (2019a). A Review of Characterization Approaches for Smallholder Farmers : Towards Predictive Farm Typologies. *The Scientific World Journal*, 2019, 9.

Nyambo, D. G., Luhanga, E. T., & Yonah, Z. O. (2019b). Characteristics of smallholder dairy farms by association rules mining based on apriori algorithm. *International Journal of Society Systems Science*, 11(2), 99–118.

DG Nyambo, ET Luhanga, ZO Yonah, FDN Mujibi, T Clemen (2020). Leveraging peer-to-peer farmer learning to facilitate better strategies in smallholder dairy husbandry, *Adaptive Behavior*, 1059712320971369.