

# LWANDE OMONDI CHARLES

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## EDUCATION

Ph.D. Information Systems, University of Nairobi, 2023

**THESIS:** DEVELOPMENT AND EVALUATION OF A LEARNER BEHAVIOR MODEL FOR A LEARNING MANAGEMENT SYSTEM

Msc. Information Systems, University of Nairobi, 2008

**PROJECT:** DEVELOPMENT OF AGROMETEREOLOGICAL KNOWLEDGE MANAGEMENT SYSTEM FOR SMALL-SCALE FARMERS.

Bsc. Information Science, Moi University, 2002

**PROJECT:** DEVELOPMENT OF PENSION PROCESSING SYSTEM.

## WORK EXPERIENCE - UNIVERSITY OF NAIROBI, ICT CENTRE

### PROJECT LEADER ( MANAGEMENT INFORMATION SYSTEMS)

#### Administration.

Supervise eLearning staff, prepare work plans, monthly progress reports and leave schedules, assign and follow up eLearning tasks, prepare eLearning training and sensitization schedules for lectures and students, work with ICT officers in the campuses to facilitate implementations and support of Learning Management Systems.

#### Technical Support.

Installation, upgrade, and fine-tuning of software modules on the eLearning platforms, design and development of new modules to allow integration with existing Management Information Systems and enable data sharing, check system backups, customization of eLearning portal to meet user needs, overseeing online helpdesk support for users

#### Advisory.

Working with projects in the departments as an advisor on eLearning projects.

## TEACHING EXPERIENCE

- University of Nairobi – Part-time lecturer
  - ❖ 2016 -2020 Msc. Bioinformatics – taught artificial intelligence and expert systems
  - ❖ 2015 – 2018 M.A. Project Planning and Management – taught Management Information Systems
  - ❖ 2015 – 2019 Masters of Education in Administration and Planning – taught Education Management Information Systems, participated in curriculum review for M.Ed. Administration and Planning
  - ❖ 2015 -2018 Bachelor of Arts in Project Planning and Management – taught management Information Systems
- 2008 – 2014 Kenya Methodist University – part-time lecturer
  - ❖ Bachelor of Business information Technology – Taught computer programming, Database management systems, Knowledge based systems
- 2008 – 2012 KCA University – part-time lecturer
  - ❖ Taught Business process reengineering

## **COMMUNITY SERVICE**

Secretary, Chiromo Campus Club

Patron, Kenya Science Catholic Community

## **MEMBERSHIP**

Moi University Alumni Association

Alumni Association of Boro Mixed Secondary School

Alumni Association of Aduwa Primary School

## **PUBLICATIONS**

### **Journal Articles**

Lwande, C., Muchemi, L. and Oboko, R. (2021) ‘Identifying Learning Styles and Cognitive Traits in a Learning Management System’, *Heliyon*. Elsevier, 7(May 2019), p. e07701. DOI: 10.1016/j.heliyon.2021.e07701.

Lwande, C., Oboko, R. & Muchemi, L. Learner Behavior prediction in a Learning Management system. *Education and Information Technologies* (2020). <https://doi.org/10.1007/s10639-020-10370-6>

### **Book Chapters.**

Lwande, C., Muchemi, L. and Oboko, R. (2019a) ‘Behavior Modeling in a Learning Management System’, in Kwanya, T. et al. (eds) *Digital Technologies for Information and Knowledge Management*. 2ND edn. Nairobi: The Technical University of Kenya, pp. 191–198.

Lwande, O. and Muchemi, L. (2008) ‘Agro-meteorological Knowledge Management System for Small Scale Farmers’, in Aisbett, J. et al. (eds) *Special Topics in Computing and ICT Research: Strengthening the Role of ICT in Development*. Kampala: Fountain Publishers, pp. 243–255. Available at: <http://cit.mak.ac.ug/iccir/downloads/ICCIR08.pdf>.

## **REFEREES**

Dr. Lawrence Muchemi, Department of Computing and Informatics, University of Nairobi  
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Prof. Robert Oboko, Department of Computing and Informatics, University of Nairobi  
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Prof. John Obiero, Department of Biochemistry University of Nairobi  
Email: [george@uonbi.ac.ke](mailto:george@uonbi.ac.ke)

Prof. Samson Gunga, Department of Education Foundations, University of Nairobi  
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