Eric Nyambiriga Araka

Personal Profile

Personal Details

Name: Eric Nyambiriga Araka

Title/Qualification: PhD, Ongoing

Department: Computing & Information Technology

Designation: Tutorial Fellow

Email: araka.eric@ku.ac.ke

Contact Address: 10680 Nairobi, 00400

Area of Specialization:

- Artificial Intelligence
- Machine Learning
- Distributed Computing Technologies

Research Interests:

- Artificial Intelligence in Education
- Machine Learning
- Educational Data Mining & Learning Analytics
- Data Science & Analytics
- Technology Enhanced Learning

Google Scholar:
https://scholar.google.com/citations?user=ag-Bb08AAAAJ&hl=en
ORCID ID: https://orcid.org/0000-0001-9242-7471

Academic Qualifications

❖ **2019 to Present: KENYATTA UNIVERSITY**

Doctor of Philosophy (PhD) in Computer Science

Thesis Title: *An Educational Data Mining Model for Promoting Self-Regulated Learning on Learning Management Systems*

❖ **2013 – 2015: UNIVERSITY OF NAIROBI**

Master of Science in Distributed Computing Technology

Thesis title: *An SOA Framework for Web-based E-learning Systems – A case of Adult Learners*

❖ **2008 – 2012: KENYATTA UNIVERSITY**

Bachelor of Science in Computer Science (First Class Honors)

❖ **2003 – 2006: MOI MINARIET SECONDARY SCHOOL**

Kenya Certificate of Secondary Education (KCSE) Grade A- (79 Points)

❖ **2003 – 2006: RIAMICHOKI PRIMARY SCHOOL**

Kenya Certificate of Primary Education (KCPE) Marks 341 out of 500

Professional Certifications

- ❖ **May 20-24, 2019:** The IBM Academic Certificate for **Artificial Intelligence Analyst** 2019 Mastery Award
- ❖ **March 11-15, 2019:** The IBM Academic Certificate for **Big Data Engineer v2** Mastery Award for Educators (2018)
- ❖ **May – June 2011:** Kenyatta University - **Mobile Application Development** (Certificate by Google Kenya)

Employment History

- ❖ **2021 April – To date**   Tutorial Fellow, Kenyatta University
- ❖ **2016 October – 2021 March**   Tutorial Fellow, Technical University of Kenya
- ❖ **2012 May – 2016 September**   ICT Manager, Express Communications Ltd
- ❖ **2013 May – 2016 August**   Associate Faculty, Mount Kenya University
- ❖ **2013 June – 2013 December**   Research Assistant, COMESA
- ❖ **2007 April - 2008 January**   Equity (Wings to Fly Program)

Achievements/Research Awards

- ❖ Awarded Postgraduate Research Allowance under the **National Research Fund (NRF) 2016/2017 Multidisciplinary Grant** whose Principal Investigator is Dr. Elizaphan Muuro Maina (Kenyatta University) under the multidisciplinary-multi-institutional category involving Kenyatta University, University of Nairobi and The Cooperative University of Kenya
- ❖ Awarded a German Academic Exchange Service (DAAD) scholarship to pursue Masters at the University of Nairobi, Kenya (2013-2015)

Publications

Referred Journals

1. **Araka, E**., Maina, E., Gitonga, R., Oboko, R., Kihoro, J. (2021). University Students' Perception on the Usefulness of Learning Management System Features in Promoting Self-Regulated Learning in Online Learning. *International Journal of Education and Development using ICT.* Vol. 17, No. 1. http://ijedict.dec.uwi.edu/viewarticle.php?id=2850

2. **Araka, E.**, Maina, E., Gitonga, R., Oboko, R. (2020). Research trends in measurement and intervention tools for self-regulated learning for e-learning environments—systematic review (2008–2018). *Research and Practice in Technology Enhanced Learning.* 15**,** 6. https://doi.org/10.1186/s41039-020-00129-5

3. **Araka, E.,** & Muchemi, L. (2017). An SOA Framework for Web-based E-learning Systems-A case of Adult Learners. International Journal of Computer Applications Technology and Research (Vol. 6 Issue 8). DOI: 10.7753/IJCATR0608.1003

Books and Books Chapters

1. **Araka, E.**, Oboko, R., Maina, E., Gitonga, R. (2021)*. A Conceptual Educational Data Mining Model for Supporting Self-Regulated Learning in Online Learning Environments. *Handbook of Research on Equity in Computer Science in P-16 Education.* pp 278-292. IGI Global. https://doi.org/10.4018/978-1-7998-4739-7.ch016

Conference/Workshops/Seminar Papers

Conference Papers

1. **Araka, E**., Maina, E., Gitonga, R., Oboko, R. (2019). A Conceptual Model for Measuring and Supporting Self-Regulated Learning using Educational Data Mining on Learning Management Systems. 2019 IST-Africa Week Conference, Nairobi, Kenya, 2019. IEEE, pp. 1-11. https://ieeexplore.ieee.org/document/8764852

Workshops Papers

None

Seminar Papers

None

Student Co-authored Publications

None

Other Publications

None

Funded Projects

- ❖ **National Research Fund (NRF) 2016/2017 Multidisciplinary Grant.** Principal Investigator Dr. Elizaphan Muuro Maina (Kenyatta University) under the multidisciplinary-multi-institutional category involving Kenyatta University, University of Nairobi and The Cooperative University of Kenya.
  - o **Project Name**: Enhancing e-learning using Artificial Intelligence Techniques; **Subproject**: Enhancing e-learning using Educational Data Mining techniques
- ❖ German Academic Exchange Service (DAAD) scholarship to pursue Masters at the University of Nairobi, Kenya (2013-2015)

Conferenced/Workshops/Seminars Attended

Conferences Attended

1. **Araka, E**., Maina, E., Gitonga, R., Oboko, R. (2019). A Conceptual Model for Measuring and Supporting Self-Regulated Learning using Educational Data Mining on Learning Management Systems. 2019 IST-Africa Week Conference, Nairobi, Kenya, 2019. IEEE, pp. 1-11. https://ieeexplore.ieee.org/document/8764852

Workshops Attended

❖ DAAD in partnership with Information Training & Outreach Centre for Africa (ITOCA) Electronic Resources Training Workshop for DAAD Scholars, **August 2014**

Seminars Attended

❖ Kenyatta University's Growing Leadership Training on *"Transformational Leadership"*

Supervision of Postgraduate Students

Masters

None

Ph. D

None

Professional/ Consultancy (Editor/ Peer review in journals, Networks/ Collaborations, External Examiner, Patents)

❖ Peer Reviewer in The International Review of Research in Open and Distributed Learning Journal, 2020
❖ Peer Reviewer in Journal of Language and Education, 2020

Community Service and Other Engagements

❖ Church Elder, Kenyatta University Seventh-Day Adventist Church

Affiliation of Professional Bodies

❖ DAAD Scholars Association

National and International awards and Recognitions

None

Administrative Positions Held

Recognized university administrative positions

None

Other administrative positions Held

None