

Christine Mueni Nzomo

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Executive Summary

Christine Mueni Nzomo is an Education Researcher and Teacher Educator, currently serving as a Teaching Assistant in the Department of Education at the University of Embu. She is pursuing a PhD in Education at the University of Embu. She holds a Master of Education in Instructional Methods and Educational Technology (2023) and a Bachelor of Education (Science) in Mathematics and Chemistry, First Class Honours (2019), both from the University of Embu. She is also a Graduate Associate at Mizizi Elimu Afrika, where she has developed practical experience in education research, including evidence synthesis and systematic review writing.

Christine has teaching experience across secondary school, TVET and university levels. She currently teaches Instructional Methods in Chemistry, Curriculum Development, General Instructional Methods, and Psychology of Human Growth and Development at the University of Embu. She has also supervised postgraduate PGDE students to completion. She is a Research Consultant with the Mizizi Elimu Afrika, where she supports research

and evaluation under the Unlocking Data initiative, including literature review, evidence synthesis, and data mapping and analysis of foundational learning data. She has also contributed to research projects on teacher education curriculum transformation and parental empowerment and engagement in early childhood education.

Her research interests focus on science education, teacher education and innovative approaches to teaching and learning, particularly the use of educational technology to enhance learning. Her scholarly work spans instructional practice, science education, parental engagement and empowerment, and foundational learning. She is committed to generating evidence that strengthens teaching practice, teacher professional learning and learning outcomes in Kenya and beyond.

Education and Training

Doctor of Philosophy (PhD) in Education, University of Embu (2024–Present)
Master of Education in Instructional Methods and Educational Technology, University of Embu (2020–2023)
Bachelor of Education (Science) in Mathematics and Chemistry, First Class Honours, University of Embu (2015–2019)
Kenya Certificate of Secondary Education (KCSE), Kitise Secondary School (2011–2014)
Kenya Certificate of Primary Education (KCPE), Mikauni Primary School (2002–2010)

Research Methodology Training and Expertise

Systematic Review Writing and Evidence Synthesis

Mizizi Elimu Africa | 8-month professional training programme

- Completed professional training in systematic review writing and evidence synthesis.
- Qualified to train and support researchers in systematic review methodology and evidence synthesis.

Work Experience

Jan 2025 to date: Teaching Assistant, Department of Education, University of Embu

Duties:

- Teach three units every semester
- Supervise PGDE students' research projects
- Prepare teaching and learning materials
- Set, administer, and mark CATs and university examinations
- Assess students' coursework and other academic activities
- Participate in grant writing and research proposal development
- Participate in curriculum review activities
- Conduct and contribute to research activities

Nov 2024 to date: Research Consultant, Mizizi Elimu Afrika

Duties:

- Conduct research, desk reviews, literature reviews, sectoral reviews, and evidence synthesis on foundational learning
- Develop research manuscripts, thematic papers, synthesis reports, and other knowledge products
- Develop research blogs, policy briefs, and other research communication materials
- Support the development and dissemination of evidence-informed research outputs
- Conduct data mapping and analysis of foundational learning data
- Disseminate evidence synthesis skills to postgraduate students, faculty, and early-career researchers
- Develop concepts, budgets, and reports for research dissemination activities
- Conduct data mapping and analysis of foundational learning data

Jan 2024 to Dec 2024: Trainer, University of Embu TVET Institute

Duties:

- Teach students in accordance with the curriculum
- Prepare teaching and learning materials
- Set, administer, and mark CATS and end of semester examinations
- CATS and end of semester examinations
- Supervise trainees' projects and practical work

Jan 2024 to April 2024: Part-time Lecturer, University of Embu

Duties:

- Teach ECT 332: Instructional Methods in Chemistry
- Administer Continuous Assessment Tests (CATs) and examinations
- Mark CATs and examinations
- Assess students' peer teaching and micro-teaching

Previous Work Experience

June 2022 to Dec 2023: Teacher, St. James Etikoni Secondary School

Duties:

- Teaching Chemistry and Mathematics
- Set, administer and mark CATS and end of term examinations.
- Training students in netball

- Participating in students' mentorship programmes as well as guidance and counselling
- Support the leadership and coordination of YCS activities

May 2019 to Jan 2020: Teacher, ACK St. Joseph's Maau Eli Secondary School

Duties:

- Teach Chemistry and Mathematics
- Set, administer and mark CATS and examinations
- Participate in student mentorship programmes
- Conduct guidance and counselling sessions
- Train students in netball

May 2018 to Aug 2018: Teaching Practice, Gitare Mixed Secondary School

Duties:

- Teach Chemistry and Mathematics in lower forms
- Set, administer, and mark CATs and examinations
- Support the leadership and coordination of YCS activities
- Undertake other assigned school activities and responsibilities

May 2017 to Aug 2017: Teacher, Matheani Secondary School

Duties:

- Teach Business Studies and Chemistry
- Set, administer, and mark examinations
- Provide guidance and counselling to students

May 2016 to Aug 2016: Teacher, Matheani Secondary School

Duties:

- Teach Biology, Business Studies, and Chemistry
- Set, administer, and mark CATs and examinations
- Provide guidance and counselling to students

May 2015 to Aug 2015: Teacher, Mikauni Primary School

Duties:

- Teach English, Science, and Mathematics
- Set, administer, and mark examinations
- Train students in co-curricular activities

Achievements

- Published research in peer-reviewed journals (Heliyon; Discover Education; Journal of Childhood, Education & Society; International Journal of Evaluation and Research in Education)
- Presented research at the 6th Biennial EE4A/EDF-Kenya Inaugural Conference, University of Embu (2025)
- Participated in the Early Career Researcher (ECR) Pre-Conference Mentorship Programme, University of Embu (2025)

Awards and Honours

- Vice-Chancellor's Scholarship Award, University of Embu - Master's Degree Scholarship, 2023.
- First Class Honours, Bachelor of Education (Science), 2023.

Research Projects

1. Transforming Teacher Education Curriculum in Kenya, Funded by ESTDEV/Tallinn University. Role: Contributed to the development of a competency-based teacher education curriculum, including the development of the University of Embu Teacher Education Prototype.
2. Optimizing Parental Empowerment and Engagement for ECDE: A Pilot Project in Embu County, Kenya, Funded by the Spencer Foundation. Role: Participated as a Research Assistant in the baseline study on parental empowerment and engagement in Early Childhood Development and Education (ECDE).

Conferences

1. 27 to 28 August 2025: 6th Biennial Education Evidence for Action (EE4A)/Education Deans Forum Kenya (EDF K) Inaugural Conference, University of Embu. Presented a paper entitled “*Transforming Chemistry Education Through Inquiry Based Learning: Strengthening Student Self Efficacy.*”
2. 25 to 26 August 2025: Early Career Researchers (ECR) Pre Conference Mentorship Programme, University of Embu, in conjunction with EDF Kenya and EE4A. Presented my doctoral research work on “*Technology Enhanced Inquiry Based Learning and Student Learning Outcomes in Integrated Science: A Case of Embu County.*”

Publications

1. Gitonga, C. M., Karuku, S., Asweto, C. O., Rugano, P., **Nzomo, C. M.**, Ngichio, D. O., Saoke, V. O., & Mulonzi, B. M. (2026). Parental empowerment and engagement as predictors of foundational learning. Journal of Childhood, Education & Society, 7(2), 309-327. <https://doi.org/10.37291/jces.591>
2. Gitonga, C. M., Karuku, S., Asweto, C. O., Rugano, P., Saoke, V. O., Mulonzi, B. M., **Nzomo, C. M.**, Mwenda, E., & Ngichio, D. O. (2025). Determinants of parental engagement in early childhood education in Kenya. Discover Education, 5, 56. <https://doi.org/10.1007/s44217-025-01059-4>

3. Saoke, V. O., Ndwiga, Z. N., Githaiga, P. W., Gitonga, C. M., Kubai, K. I., **Nzomo, C. M.**, Mulonzi, B. M., & Ngicho, D. O. (2025). The relationship between teachers' planning and content delivery using the five-stage lesson plan structure: An analysis of age, gender, experience and academic qualifications in Kenya. *European Journal of Education*, 60(1), e70021. <https://doi.org/10.1111/ejed.70021>
4. **Nzomo, C. M.**, Rugano, P., & Njoroge, J. M. (2023). Relationship between inquiry-based learning and students' attitudes towards chemistry. *International Journal of Evaluation and Research in Education (IJERE)*, 12(2), 991. <https://doi.org/10.11591/ijere.v12i2.24165>
5. **Nzomo, C.**, Rugano, P., Njoroge, M., & Gitonga, C. (2023). Inquiry-based learning and students' self-efficacy in chemistry among secondary schools in Kenya. *Heliyon*, 9(1), e12672. <https://doi.org/10.1016/j.heliyon.2022.e12672>

Thesis

Nzomo, C. M. (2023). *Does inquiry-based learning approach in chemistry practical lessons affect students' attitudes and self-efficacy in chemistry? A case of Meru South Sub-County, Kenya.* (Master's Thesis, University of Embu).

Postgraduate Supervision

S/N	Title	Student	Year awarded
1	Teachers' questioning techniques and learner engagement in Junior Schools in Embu East Sub-County, Kenya. (Postgraduate Diploma in Education (PGDE))	Fredrick Safari Katana	2026
2	Relationship between social media use and anxiety among Senior School students in Embu East Sub-County, Kenya. (Postgraduate Diploma in Education (PGDE))	James Ndonga Njoroge	2026

Referees

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