



KIRIMI MURIIRA

Data Analyst • Researcher • Educator

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EDUCATION

Masters of Education — Learning, Design & Technology (by Research)
INTI International University
Malaysia | May 2024 – Apr 2026
Thesis: Bibliometric & Learning Analytics

BEd (Science) — Mathematics & Chemistry
Catholic University of Eastern Africa
Nairobi, Kenya | 2019 – 2023

TECHNICAL SKILLS

- ▶ **Advanced MS Excel:** PivotTables, complex formulas, data cleaning, tabular reporting
- ▶ **R:** statistical analysis, data manipulation & visualisation
- ▶ **SPSS:** statistical analysis & hypothesis testing
- ▶ **VOSviewer / Biblioshiny:** bibliometric mapping, clustering & visualisation

CORE COMPETENCIES

- ◆ Data collection, cleaning & validation
- ◆ Trend, pattern & correlation analysis
- ◆ Statistical analysis & interpretation

VALENTINE KIRIMI MURIIRA

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PROFESSIONAL SUMMARY

A quantitatively strong analyst and accomplished researcher with a Mathematics foundation and a Master of Education (by Research). Active data-intensive publication record spanning eight peer-reviewed studies and eleven forthcoming works — applying bibliometric mapping, learning analytics, data-mining, humanities/cultural analysis, and SDG-aligned interdisciplinary research to identify trends, patterns and emerging themes across large bodies of data. Skilled in Advanced Microsoft Excel, R, SPSS and VOSviewer/Biblioshiny, with strengths in statistical analysis, scholarly writing, data visualisation, accurate reporting and cross-functional communication. Educator with direct experience delivering research methodology and project writing curricula. Seeking to apply analytical and humanities expertise to roles demanding cultural analysis, scholarly rigour, and interdisciplinary impact.

PROFESSIONAL EXPERIENCE

Research Methods & Project Writing Educator

LaSalle Technical Training Institute — Karen, Nairobi, Kenya Jun 2026 – Present

- Deliver Research Methodology, Academic Writing and Project Writing instruction — guiding learners through literature review, critical analysis, scholarly argumentation, and structured research output.
- Coach students in designing, structuring and producing academic projects aligned with interdisciplinary, humanities-oriented, and social-science frameworks.
- Foster critical thinking, cultural and contextual awareness as analytical tools within applied research contexts; supervise individual research projects and provide formative and summative feedback.
- Develop curriculum resources, assessment rubrics, and structured learning materials aligned with industry and academic standards.

Mathematics Teacher (IGCSE – Cambridge Curriculum)

Al-Ahagaaf International Schools — Mukalla Aug 2024 – Sep 2025

- Analysed student assessment data to identify performance trends and gaps, using findings to target interventions and improve measurable outcomes.
- Built and maintained accurate performance records, progress reports and summaries for management and parents.
- Delivered quantitative (mathematics) instruction and developed structured learning materials and resources.
- Collaborated with colleagues and stakeholders to align on objectives and communicate results clearly.

Mathematics & Chemistry Teacher

Faith Sultan Mohamed School — Borama, Somaliland Aug 2023 – May 2024

- Tracked and analysed performance across multiple class groups, maintaining detailed records and reporting trends to supervisors.
- Applied a data-informed, individualised approach to drive improved results; produced supporting analytical materials.
- Delivered instruction in quantitative and applied-science subjects across multiple year groups.

Mathematics & Chemistry Teacher

Highridge Girls Secondary School — Nairobi, Kenya Apr 2022 – Aug 2022

- Assessed and recorded student performance, summarising and reporting results for review.

- ◆ Data visualisation, reporting & dashboards
- ◆ Translating data into actionable insights
- ◆ Data accuracy, integrity & compliance
- ◆ Scholarly writing & cultural analysis
- ◆ Bibliometric & learning analytics
- ◆ Cross-functional collaboration
- ◆ Technical reporting & documentation
- ◆ Interdisciplinary research methods
- ◆ Research writing & project methodology

LANGUAGES

English — Fluent
Kiswahili — Fluent

RECOGNITION & SERVICE

- ★ Paper Presenter — IEEE EarthSense International Conference 2025
- ★ Silver Award (co-researcher) — International Digital Education Conference 2025
- ★ Peer Reviewer, Science & Technology — NexSymp 2025
- ★ Presenter — 2nd International Conference on Sustainable Education (ICSE 2025)
- ★ Co-author — 3rd International Article Writing Competition 2025

Workshops:

- Proposal Defense & Viva Voce (2025)
- Thematic Analysis (2024)
- Mixed & Multi-Method Research (2024)
- ASEAN Social Business Conference (2024)

- Delivered structured instruction in mathematics and chemistry.

VR Attendant & Co-Technician

Stedmak Gardens — Karen, Nairobi, Kenya

Jan 2021 - April 2022

- Provided technical and IT support — configuring, troubleshooting and maintaining equipment and systems to keep operations running.
- Delivered customer service, managed time and resources, and trained and supported team members.

RESEARCH & PUBLICATIONS

Published Peer-Reviewed Works (8 works, 2025–2026)

- [1] Muriira, V., Nallissamy, V., Mwalw'a, S., & Kamundi, H. (2025). Technology-Enhanced Education for Neurodiverse Learners: A Bibliometric Approach to Reducing Educational Inequalities. *Educational Process: International Journal*, 18, e2025428. doi.org/10.22521/edupij.2025.18.428
- [2] Muriira, V., & Nallissamy, V. (2025). Generative AI and Educational Assessment: A Bibliometric Mapping of Current Trends, Challenges, and Future Directions in the Era of Personalization. In *Innovative Educational Assessment with Generative AI* (pp. 51–72). Springer Nature Switzerland. doi.org/10.1007/978-3-032-05306-0_3
- [3] Muriira, V., Vasudevan, A., Vasumathi, A., & Kamundi, H. (2025). Digital Frontiers in the Battle Against Violence and Forced Migration: A Bibliometric Analysis of Emerging Technologies and Data-Driven Solutions. doi.org/10.21203/rs.3.rs-8161995/v1
- [4] Muriira, V. K., Nallissamy, V., & Kamundi, H. M. (2025). Trends and Emerging Research Impact of AI in Climate Change Monitoring using Geospatial Data. In 2025 IEEE International Conference on Next-Gen Technologies (EarthSense), pp. 1–5. IEEE. doi.org/10.1109/EarthSense66084.2025.11297307
- [5] Li, D., Xue, G., Miao, S., Qiao, X., & Muriira, V. K. (2026). Artificial Intelligence and Sustainable Entrepreneurship Nexus: A Review. *Entrepreneurship and Sustainability Issues*, 13(3), 159–176. doi.org/10.9770/n3433346968
- [6] Muriira, V. K., Nallissamy, V., Saiz-Alvarez, J. M., & Mwalw'a, S. (2026). Exploring AI's Role in Educational Data Mining: A Bibliometric Review of Applications in Learning Analytics. *International Journal on Robotics, Automation and Sciences*, 8(1), 20–31. doi.org/10.33093/ijoras.2026.8.1.3
- [7] Muriira, V. K., Nallissamy, V., Saiz-Alvarez, J. M., & Barabwd, H. (2026). The Impact of AI on Educational Content Creation: A Bibliometric Review of Trends, Influential Research, and Emerging Themes. *International Journal on Robotics, Automation and Sciences*, 8(1), 32–43. doi.org/10.33093/ijoras.2026.8.1.4
- [8] Kirimi Muriira, V., Vasudevan, A., Sarfaraz Ali, K., Prasad K S, N., Ngaribakunzi Specsiose, N., & P., G. (2026). AI-Augmented Mobile and Data-Driven Decision Making in Business: Mapping Global Research Trends. *International Journal of Interactive Mobile Technologies (IJIM)*, 20(07), 123–137. doi.org/10.3991/ijim.v20i07.61107

Forthcoming & Under Review (11 works in pipeline)

In Final Stage of Publication — 6 works (accepted / in press)

- ◆ 4 Book Chapters (Springer Nature) — spanning AI-driven humanities research, cultural and contextual analysis, interdisciplinary pedagogy, and SDG-aligned education frameworks.
- ◆ 2 Journal Articles in Scopus-indexed, peer-reviewed journals — focusing on interdisciplinary humanities, sustainable communities, and cultural analysis.

Under Review — 5 papers (submitted to Scopus-indexed journals)

Research themes — all anchored to UN Sustainable Development Goals (SDGs):

- Humanities & Cultural Analysis — cultural contexts, social frameworks, historical perspectives
- Entrepreneurship & Innovation for Sustainable Development (SDG 8, SDG 9)
- Sustainable Communities & Cities (SDG 11) — data-driven urban policy analysis
- Social Equity, Inclusion & Quality Education (SDG 4, SDG 10)
- Interdisciplinary research bridging sciences, arts, and social domains

REFEREES

Dr. Venoth Nallissamy

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