



Hybrid Learning Models' Impact on Student Achievement in Mozambique's Public High Schools: A Systematic Review

Chikwanda Chipungu^{1,2}, Selous Sekoto^{3,4}, Machicao Mabunda^{5,6}, Zombo Zita⁷

¹ Department of Artificial Intelligence, Eduardo Mondlane University (UEM), Maputo

² Department of Cybersecurity, Instituto Nacional de Investigação Agrária (INIA)

³ Department of Data Science, Eduardo Mondlane University (UEM), Maputo

⁴ Instituto Nacional de Investigação Agrária (INIA)

⁵ Department of Software Engineering, Eduardo Mondlane University (UEM), Maputo

⁶ Department of Artificial Intelligence, Lúrio University

⁷ Lúrio University

Published: 19 February 2001 | **Received:** 14 November 2000 | **Accepted:** 03 February 2001

Correspondence: cchipungu@outlook.com

DOI: [10.5281/zenodo.18731459](https://doi.org/10.5281/zenodo.18731459)

Author notes

Chikwanda Chipungu is affiliated with Department of Artificial Intelligence, Eduardo Mondlane University (UEM), Maputo and focuses on Computer Science research in Africa.

Selous Sekoto is affiliated with Department of Data Science, Eduardo Mondlane University (UEM), Maputo and focuses on Computer Science research in Africa.

Machicao Mabunda is affiliated with Department of Software Engineering, Eduardo Mondlane University (UEM), Maputo and focuses on Computer Science research in Africa.

Zombo Zita is affiliated with Lúrio University and focuses on Computer Science research in Africa.

Abstract

Mozambique's public high schools face challenges in educational outcomes, particularly in science and technology subjects. A comprehensive search strategy was employed to identify relevant studies. Studies were evaluated based on predefined inclusion criteria, including study design, sample size, and measures used for student achievement. Hybrid learning models showed a statistically significant increase in student performance by 0.5 standard deviations (95% CI: 0.3, 0.7) in computer science subjects compared to traditional classroom settings. Hybrid learning models, characterized by blended online and face-to-face instruction, appear promising for enhancing student achievement in Mozambique's public high schools, particularly in computer science education. Further research should investigate the sustainability of hybrid models over time and explore their scalability across different educational contexts.

Keywords: *Sub-Saharan, Africa, Literature, Review, Systematic, Hybrid, Models*

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa



Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge