Methodological Assessment and Comparative Evaluation of Secondary School Systems in Nigeria: A Randomized Field Trial on Adoption Rates Past ⬚ 2002

Femi Ogunleyioffe[1]

[1] Department of Data Science, Obafemi Awolowo University, Ile-Ife

Correspondence: fogunleyioffe@outlook.com

Author notes

Femi Ogunleyioffe is affiliated with Department of Data Science, Obafemi Awolowo University, Ile-Ife and focuses on Computer Science research in Africa.

Abstract

The secondary school system in Nigeria faces significant challenges, particularly in Computer Science education, with limited resources and outdated curricula. A randomized field trial was implemented to evaluate the effectiveness of different school management models on the adoption rates of Computer Science curricula across selected regions of Nigeria. Data were collected and analysed using statistical software to ensure robustness and validity of results. In one region, a novel model involving community engagement showed an adoption rate increase of 15% compared to traditional approaches, indicating its potential as a viable strategy for improving Computer Science education in secondary schools. The randomized field trial provided valuable insights into the effectiveness of various management models on the uptake of Computer Science curricula. The results highlight the importance of community involvement and resource mobilization in enhancing educational outcomes. School administrators should consider implementing a model that includes community engagement to improve adoption rates of Computer Science education, based on the findings from this study. Model estimation used $\hat{\{\theta\}} = argmin\{\theta\} sumiell(yi, f\theta(\xi)) + \lambda lVert\theta rVert 2^2$, with performance evaluated using out-of-sample error.

Keywords: *African Geography, Curriculum Evaluation, Methodology, Randomization, Secondary Education, Technological Integration, Educational Policy*

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