



A Multilevel Regression Framework for Evaluating Secondary School Systems in Uganda: Methodological Insights into Adoption Rates

Magogo Nkowane^{1,2}, Kabwira Okello^{2,3}

¹ Department of Animal Science, Kampala International University (KIU)

² Kyambogo University, Kampala

³ Kampala International University (KIU)

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Correspondence: mnkowane@gmail.com

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Author notes

Magogo Nkowane is affiliated with Department of Animal Science, Kampala International University (KIU) and focuses on Agriculture research in Africa.

Kabwira Okello is affiliated with Kampala International University (KIU) and focuses on Agriculture research in Africa.

Abstract

This article explores a multilevel regression framework to evaluate secondary school systems in Uganda, focusing on adoption rates across different levels of the educational system. A multilevel regression analysis will be employed, incorporating both fixed effects and random effects to account for nested structures within the Ugandan educational system. The multilevel regression framework provides methodological insights into the adoption rates of secondary education systems in Uganda, offering nuanced understanding over traditional single-level models. Future research should extend this analysis to other sectors and incorporate additional variables for comprehensive system evaluation. The empirical specification follows $Y = \beta_{0+\beta}^{-} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *African geography, multilevel modelling, hierarchical linear models, regression analysis, socioeconomic factors, educational policy, stratified sampling*

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