# Panel Data Estimation of Secondary School Efficiency in Rwanda: A Methodological Evaluation

**Kizito Kayihanga**[1]

[1] Department of Crop Sciences, African Leadership University (ALU), Kigali

## Abstract

This study focuses on evaluating the efficiency of secondary schools in Rwanda's education system through panel data estimation. A fixed effects model will be employed to estimate school performance across different districts over time, accounting for unobserved heterogeneity. Robust standard errors will be used to ensure reliable inferences from the analysis. The preliminary findings indicate that teacher training programmes have a significant positive effect on student performance, with an estimated average return of $0.45$ *per unit increase* $\in$ *training hours*. *This study provides valuable insights into how educational interventions c*

$Y = \vec{\beta}_{0+\beta} \, p \, X + varepsilon \$ , \wedge inference\ is\ reported\ with\ uncertainty-aware\ statistical\ criteria.$

**Keywords:** *Rwandan, Panel Data, Fixed Effects, Efficiency Gains, Econometrics, Education System, Methodology*

# 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