



Quasi-Experimental Design in Assessing Smallholder Farm Systems within Rural Rwanda: A Theoretical Framework

Kabuye Nkunda¹

¹ African Leadership University (ALU), Kigali

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Correspondence: knkunda@aol.com

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Author notes

Kabuye Nkunda is affiliated with African Leadership University (ALU), Kigali and focuses on Environmental Science research in Africa.

Abstract

This article focuses on the methodological evaluation of smallholder farm systems within rural Rwanda, specifically addressing the implementation and effectiveness of a quasi-experimental design approach. A theoretical framework will be constructed based on existing literature and the specific context of Rwanda's rural agriculture sector. Theoretical models will incorporate statistical techniques such as regression analysis to quantify relationships between various factors influencing farm performance. This theoretical framework provides a robust approach for future empirical research on smallholder farming systems in Rwanda and beyond. It highlights the importance of methodological rigor in agricultural studies to enhance understanding and policy impact. Future research should validate this theoretical model through pilot studies, with particular attention given to data collection methods that ensure high precision and reliability. The empirical specification follows $Y = \beta_{0+\beta} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Rwanda, Smallholder Farms, Quasi-Experimental Design, Methodology, Agricultural Economics, Empirical Research, Geographic Information Systems*

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