Quantile Analysis of the Mathematics Achievement - Attitude Relationship by Gender

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Abstract

In this paper, we report some findings of a study on attitude and mathematics achievement at the senior secondary school level in Botswana. We adopted a new methodology in the analysis of the relationship between attitude, gender bias and achievement in mathematics with gender as a dummy variable. The method, quantile regression (QReg), was used because it unveils the relationship at the quantile (percentile) levels and does not require the parametric assumptions used in the Ordinary Least Square Regression (OLS). The findings showed that positive attitude significantly influenced the mathematics achievement of students in the OLS model but was not significant at the 95th percentile in the QReg. These findings implied that at the uppermost tail of mathematics achievements, there were some other variables that better explained mathematics achievements. Furthermore, using this method, gender bias and female factors did not influence achievements significantly. Finally, we hope that this study would open up a new research frontier by encouraging researchers to study the mathematics achievement-attitude relationship at the quantiles rather than generalizing the relationship across all levels of students' ability.

Keywords: Mathematics attitudes, achievement, gender, quantile regression.

Background of the Study

The relationship between attitudes and mathematics performance has been of interest to researchers for many years (Aiken, 1970; Chionh & Fraser, 2009; Yara, 2009a,b; Forgasz & Rivera, 2012). Mathematics subject is failed by many learners around the world and mathematics educators have been of the view that poor attitudes towards the subject could be contributing to low achievement. A number of studies have indicated significant relationships between mathematics achievement and attitudes (Aiken, 1970; Masquad, 1992; Ma, 1997; Sherman & Christian 1999; Sriraman, 2007; Yara, 2009a,b; Forgasz 2012). The findings of these studies have raised interest for further research and deeper understanding of the relationship between achievement, attitudes and other related parameters. However, the use of classical statistical techniques in the analysis of the achievement-attitude relationship, like the Ordinary Least Square (OLS) regression have, focused mainly on the conditional

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Zimbabwe Journal of Educational Research ,2000 **Resources in Education** .1998 **Proceedings Of The 14th** International Congress On Mathematical Education (In 2 Volumes) Jianpan Wang, 2024-06-07 The International Congress on Mathematical Education ICME is the largest international conference on mathematics education in the world This quadrennial event is organized under the auspices of the International Commission on Mathematical Instruction ICMI This book the Proceedings of ICME 14 presents the latest trends in mathematics education research and mathematics teaching practices at all levels Each chapter covers an extensive range of topics in mathematics education Volume I consists of 4 Plenary Lectures 3 Plenary Panels 5 Lectures of Awardees 4 Survey Teams 62 Topic Study Groups 13 Discussion Groups 20 Workshops a Thematic Afternoon and an Early Career Researcher Day Plenary Lectures recognize substantial and continuing contributions to the growth of the field of Mathematics Education Plenary Panels address three major challenges currently facing mathematics educators across the globe The Survey Teams have a particular emphasis on identifying and characterizing important new knowledge recent developments new perspectives and emergent issues The Topic Study Groups provides a coverage of important topics in mathematics education Volume II consists of 50 invited lectures which present the work and reflections of both established and emerging researchers from around the world These lectures cover a wide spectrum of topics themes and issues that reflect the latest challenges and development in the field of mathematics Journal for Research in Mathematics Education ,1990 education African Studies Abstracts ,2002 Some Developments in Research in Science and Mathematics in Sub-Saharan Africa Lorna Holtman, 2008 Much attention in late developing countries is given to providing access to studies which allow school leavers to enter science and technology related careers These programmes are driven by the belief that graduates will then substantially contribute to the developmental needs of their countries But is providing access to institutions enough Students in developing countries often come from school environments lacking in resources human physical and financial This book in a number of chapters reviews research related to the crucial dimension of epistemological access to the disciplines of import which students need as much as institutional access in order to improve their chances of success A significant feature of this collection s research studies is that their empirical bases are highly localised covering areas such as research methods access curriculum instruction and assessment and the relevance of science and mathematics education in Zimbabwe Uganda Swaziland South Africa Namibia Malawi Ghana and Lesotho This volume provides invaluable insights and will be of relevance to researchers policy makers and lecturers interested in these research outcomes in Sub Saharan Africa It is the outcome of a doctoral research capacity development project the Graduate Studies in Science Mathematics and Technology Education GRASSMATE

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