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## CURRICULUM VITAE FOR

# Dr. Lloyd Edgar S. Moyo

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## MATHEMATICAL INTERESTS

- The Theory of Schwartz Distributions (Generalized Functions) and its Applications to Partial Differential Equations.
- Differential Equations and its Applications.
- Function Spaces.
- Undergraduate and Graduate Research in Mathematics.

## EDUCATION

- Ph.D. in Mathematics, New Mexico State University, USA, May, 2006. My advisor was Dr. Josefina Alvarez. The title of my dissertation was *Codomains for the Cauchy-Riemann operator, Laplace operator and the product Laplace operator in the context of the  $S'$ -convolution*.
- M.S. in Mathematics, New Mexico State University, USA, May, 2004.
- Master of Science in Mathematics, University of Sussex, UK, January, 1996.
- Post-Graduate Diploma in Pure Mathematics, University of Sheffield, UK, August, 1994.
- Bachelor of Education (Science), University of Malawi, Malawi, January, 1992.

## TEACHING EXPERIENCE

- **January 1, 2007 - Present: Sul Ross State University, USA.**
  - Working as an Assistant Professor of Mathematics (tenure track).

– Taught, so far, the following courses: Elementary Statistics, University Algebra (College Algebra), Trigonometry, Calculus-I, Calculus-II, Calculus-III, Ordinary Differential Equations, Complex Variables, Geometry, and Special Topics in Nonlinear Ordinary Differential Equations and Introduction to Partial Differential Equations.

– Supervised the following undergraduate projects in Mathematics which the students presented in the departmental seminars:

Student	Project Title	Date Presented
J.A. Di Girolamo	<i>Deriving the area and circumference of a circle by using polygons</i>	04/23/2010
Virginia Gines	<i>Evaluation of Fresnel's Integrals</i>	11/13/2009
Jesus Olivas	<i>The Brachistochrone Problem</i>	11/13/2009
Jesus Hermosillo	<i>Double Fourier Series and its Application to the Dirichlet Problem</i>	05/01/2009
Jesus Hermosillo	<i>The Lorenz System and the Butterfly Effect</i>	05/02/2008

– Developed and taught the following Special Topics Courses:  
 · Nonlinear Ordinary Differential Equations (Spring 2008).  
 · Introduction to Partial Differential Equations (Spring 2009).

– Written the following pamphlets for my students:  
 · *College Algebra: Summary, Examples, and Exercises.*  
 · *A Workbook for College Geometry.*

• **August 22, 20006 - December 31, 2006: Sul Ross State University, USA.**

– Worked as a Visiting Assistant Professor of Mathematics.  
 – Taught Geometry, History of Mathematics and two sections of Elementary Statistics.  
 – Involved in curriculum development, committee work, weekly departmental seminars.

• **Fall 2000 - Spring 2006: New Mexico State University, USA.**

– Worked as a Graduate Teaching Assistant in Mathematics in the Mathematical Sciences Department.

– Taught Calculus I (once), Calculus II (6 times), Calculus III (6 times), and Calculus for Technical Students II (once).

– Contributed to the writing of the group Calculus projects.

– Contributed to the setting of the final Calculus departmental examinations.

– Worked in the Mathematics Success Center where I tutored and graded College Algebra and Trigonometry.

– Worked in the computer laboratory where I helped students with their online Mathematics homework assignments in the Fall 2005 and Spring 2006 semesters.

• **September 13, 1995 - August, 2000: University of Malawi, Malawi.**

– Worked as a Lecturer in Mathematics and department librarian.

– Taught College Algebra, Trigonometry, Calculus I, Calculus II, Ordinary Differential Equations, Complex Variables, Nonlinear Ordinary Differential Equations, Calculus of Variations, Chaos, Real Analysis, and Mathematical Methods in Environmental Science.

– Acted as head of department on a number of occasions.

– Worked as a part-time lecturer in Mathematics at Domasi College of Education, Malawi in 1999 where I was also involved in Mathematics curriculum development and writing mathematics teaching materials for the college.

– Co-authored *Mathematics Module 3: Introduction to Calculus*, a pamphlet that is currently used by students at Domasi College of Education in Malawi.

• **July 1, 1993 - September 12, 1995: University of Malawi, Malawi.**

– Worked as a Staff Associate in Mathematics in the Department of Mathematical Sciences from July 1, 1993 to October 4, 1993.

– Was on study-leave from University of Malawi to the United Kingdom from October 5, 1993 to September 12, 1995.

• **November, 1992 - June, 1993: Our Lady of Wisdom Secondary School, Malawi.**

– Worked as a Mathematics and Physical Science teacher and headed the Science Department.

• **September, 1991 - October, 1992: Blantyre Secondary School, Malawi.**

– Worked as a Mathematics and Physical Science teacher.

## PUBLICATIONS

• L.E.S. Moyo, Codomains for the Cauchy-Riemann and Laplace operators in  $\mathbb{R}^2$ , *Journal of Function Spaces and Applications*, Volume 6, Number 1 (2008), 71-87.

• J. Alvarez and L.E.S. Moyo, Optimal codomains for the Laplace operator and the product Laplace operator, *Journal of Function Spaces and Applications*, Volume 5, Number 3 (2007), 269-285.