

## VITA

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#### Education:

- Doctor of Philosophy, Science and Mathematics Education (Mathematics), Southern University and A& M College (SUBR), Baton Rouge, Louisiana (2001).
- Bachelor of Science in Mechanical Engineering, SUBR, Baton Rouge, Louisiana.

**Certification:** Louisiana Teaching Certificate in Mathematics and Physics.

#### Academic Experience, Full Time:

- Associate Professor, Department of Mathematics, University of West Georgia, Carrollton, Georgia, (2009 – Present).
- Assistant Professor, Department of Mathematics, University of West Georgia, Carrollton, Georgia, (2006 – 2009). Subject assignments are Advanced Perspective on Secondary Mathematics, Foundations of Numbers and Operations, Algebra for P-8 Teachers, Probability and Statistics for P-8 Teachers, Trigonometry and Calculus for P-8 Teachers. Trigonometry and Analytic Geometry
- Assistant Professor, Department of Computing and Mathematical Sciences, Texas A&M University – Corpus Christi, Texas, (2005 – 2006). Subject assignments included Fundamentals of Mathematics (Mathematics for Elementary School Teachers I, II, III), Basic Mathematics from an Advanced Viewpoint (capstone course for students pursuing grades 4 – 8 certification in mathematics).
- Assistant Professor, Department of Mathematics, The University of Texas – Pan American (UTPA), Edinburg, Texas, (2004 – 2005). Subject assignments included Basics of Mathematical Modeling, Basics of Discrete Mathematics, Fundamentals of Mathematics I and II, College Geometry, and College Algebra.
- Chair of the Mathematics Department and instructor, Southern University Laboratory School, Baton Rouge, Louisiana (2001 – 2004). Subjects taught included Calculus, Advanced Mathematics, Algebra, Geometry, and Physics.
- Teacher, East Baton Rouge Parish School System, Baton Rouge, Louisiana (1996 – 2001). Subjects taught included Calculus, Advanced Mathematics, Algebra, Geometry, Business Mathematics, Physics, and Chemistry.

#### Academic Experience, Part Time:

- Adjunct Faculty, Baton Rouge Community College, Baton Rouge, Louisiana (2001 – 2004). Subjects taught included Calculus I and II, Calculus for Non-Science Majors, Contemporary Mathematics, Plane Trigonometry, and College Algebra.

- Mathematics Instructor, The Southern University Upward Bound Trio Programs, SUBR, Baton Rouge, Louisiana (2002 – 2003), Upward Bound is a project to assist first generation college bound high school students from low income families who have the potential but require additional academic skills or motivation to undertake post-secondary education successfully.
- Mathematics and Physics Instructor, Timbuktu Academy, SUBR, Baton Rouge, Louisiana (1999-2001). The overall goal of Timbuktu Academy is to increase the participation and success rates of underrepresented minority students in mathematics and science.
- Mathematics Instructor, LSYOU Project, Louisiana State University, Baton Rouge, Louisiana (1997-1998). LSYOU is an intervention program for at-risk high school students.

#### **Professional Training:**

- Practicum sessions on Applied Mathematics Instruction, Pennington Research Center, Baton Rouge, Louisiana (7/2/98 - 8/7/98).
- Seminars on Mathematics Instruction, Pennington Research Center, Baton Rouge, Louisiana (7/12/97 - 8/8/97).
- Practicum sessions on Modeling Integrated Mathematical Experiences, SUBR, Baton Rouge, Louisiana (6/10/97 - 7/2/97).

#### **Award:**

Academic Scholarship Award in recognition of outstanding academic records (1999-2001) SUBR, Baton Rouge, Louisiana.

#### **Appointments:**

- Graduate Faculty, University of West Georgia(2007)
- Professional Education Faculty, University of West Georgia(2007)
- Graduate Faculty, Texas A&M University-Corpus Christi (2005)
- The University of Texas-Pan American Teacher Education Committee (2005)

#### **Technology-Based Student Support:**

Created, constructed, and published a web site designed to enhance the performance of students (<http://www.mathematics-science.org>). Key features of the web site include postings of lectures, homework, and assignments. The web site enables students to utilize technology and distance learning capabilities in order to keep abreast of class activities.

#### **Services and Teacher Support - Professional Development:**

- Editor, *Journal of Mathematical Sciences and Mathematics Education (MSME)*.
- Serving as a member of TEAC Committee (2008-Present).
- Serving as a member of FAC Committee UWG (2008 -Present).
- Serving as a member of the Senate ad hoc Rules Committee UWG (2008 -Present).

- Serving as the chair of the Mathematics Education Committee at UWG (2006-Present).
- Serving as the Liaison to the College of Education at UWG
- Served as the chair of the Search Committee (Department of Mathematics) at UWG (2007 and 2009).
- Served as a member of Undergraduate Academic Programs Committee (2007-2009).
- Served as a member of mathematics ad hoc Assessment Committee (2008-2009).
- Served as a co-host for the Integer Conference-2007.
- Served as chair of the 14<sup>th</sup> Annual Conference of South Texas Mathematics Consortium (2005)
- Served as a member of mathematics education Committee at TAMU-CC, 2005-2006.
- Served as a member of 120 Hours Committee charged with revising the undergraduate course work at TAMU-CC, 2005-2006.
- Served as a judge for annual Undergraduate Research Symposium (2005), TAMU-CC.
- Served as a member of the School Mathematics Developmental Planning Committee charged with preparing a proposal to offer a new graduate program "Master of Science in Interdisciplinary Studies", Department of Mathematics, UTPA, 2004-2005.
- Served as a member of Mathematics Education and Math Education Textbook Committee, Department of Mathematics, UTPA, 2004-2005.
- Served as a member of Mathematics Scholarship Committee, Department of Mathematics, UTPA, 2004-2005.
- Served as a member of Mathematics Education Proposal Planning team charged with preparing, designing, and funding a project to explore the most effective strategies to empower mathematics educators and school administrators to make equitable decisions about the content, delivery, and character of school mathematics. This project is a partnership between the mathematics and education faculties of UTPA, middle and high school teachers, and school administrators of five major counties of South Texas, 2004-2005.
- Served as a judge for annual Hispanic Engineering, science, and Technology (HESTEC) Science Competitions at UTPA (2004).
- Served as a member of Faculty Professional Development Team, Teacher Preparation Programs, College of Education, SUBR, and (2003 – 2004).
- Served as a member of a 3-member advisement team (mathematics) for the College of Education, SUBR, (2002 – 2004).

- Served as a member of a team charged with modifying the curriculum for Algebra and advanced mathematics for the East Baton Rouge Parish School System (1997).
- Certified trainer for the Global Learning and Observations to Benefit the Environment (GLOBE) Program. GLOBE is a hands-on environmental science and education program designed to improve student performance in science and mathematics. In addition, this program facilitates the cooperation between students, educators, and scientists located throughout the world in taking environmental measurements and reporting data (2001).

**Presentation:**

- Presenter, Exploring the Figurate Numbers in a Technology Embedded P-8 Pre-service Teachers Environment. *Society for Information Technology & Teacher Education, SITE* (2009) World Conference, Las Vegas, Nevada (March 2009).
- Presenter, Graphing Skills and Art Curriculum: Applications and Connections in a Technology Learning Environment. Department of Mathematics, UWG (October 2008).
- Presenter, Excelling the Big Crunch: A Novel Strategy to Utilize the Tower of Hanoi Problem in a Computer-Based Exploratory Environment. *Society for Information Technology & Teacher Education, SITE* (2008) World Conference, Las Vegas, Nevada (March 2008).
- Presenter, Integrating the Mathematical skills of Coordinate Graphing and Graphing of Functions into Arts Curriculum. *Society for Information Technology & Teacher Education, SITE* (2008) World Conference, Las Vegas, Nevada (March 2008).
- Presenter, Integrating the Graphing of Mathematical Functions into Arts Curriculum, Learning Festival, College of Education, UWGA, Carrollton, Georgia (Jun 2007)
- Presenter, Exploring the Creation of Mathematical Fractals Utilizing Euclidian Construction in a Pre-Service Teacher Environment: A New Perspective to Integrate Contemporary Mathematics into School Curriculum. *Society for Information Technology & Teacher Education, SITE* (2007) World Conference, San Antonio, Texas (March 2007).
- Presenter, A Dynamic Geometry Enriched Approach to Solve First and Second Order Polynomial Equations in a Single Variable. *Society for Information Technology & Teacher Education, SITE* (2007) World Conference, San Antonio, Texas (March 2007).
- Presenter, The Students' Dynamic Misconceptions in College Algebra, 14<sup>th</sup> Annual Conference of South Texas Mathematics Consortium, TAMU-CC, Corpus Christi, Texas (February 2005).
- Presenter, Constructing a Technology-Based Reinforcement Support System to Enhance the Students Achievement in Algebra. World Conference on E-Learning in Corporate, Government, Healthcare, & Higher Education, Vancouver BC, Canada, (October 2005).

- Presenter, The Exclusion of the Students' Dynamic Misconceptions in College Algebra: a Paradigm of Diagnosis and Treatment, 14<sup>th</sup> Annual South Texas Mathematics Consortium, Corpus Christi, TX, (February 2005).
- Speaker, The Efficacy of Spaced Reinforcement in Teaching and Learning Mathematics, Texas A&M University, Corpus Christi, TX, (May 2005).
- Co-Presenter, Correlation between Students' Level of Understanding Geometry According to the van Hiele's Model and Students' Achievement in Plane Geometry, with Drs. Olga Ramirez and John Bernard, 13<sup>th</sup> Annual South Texas Mathematics Consortium, Harlingen, TX, (February 2005).
- Co-presenter, A CABRI Geometry II Learning Environment and the teaching of Euclidean Construction, with Drs. Olga Ramirez and John Bernard, RGVCTM, Edinburg, TX, (November. 2004).
- Speaker, Spaced Reinforcement: an Effective Strategy for Teaching and Learning Geometry, UTPA, (February 2004).
- Presenter, The Applications of Quadratic Functions in Architectural Design, Woodbury University, Burbank, CA, (December 2003).
- Presenter, Modeling With Systems of Linear Equations in Solving Word Problems, Louisiana State University, Alexandria, LA, (February 2003).
- Speaker, Geometry Education, Department of Science / Mathematics Education, SUBR, (September 2002).
- Speaker, Topics in Linear Algebra, LeRoy R. Posey Seminar, Department of Mathematics, SUBR (November.1999).

#### **Research and Publications:**

- Exploring the Figurate Numbers in a Technology Embedded P-8 Pre-service Teachers Environment. This paper has been published by the *Society for Information Technology & Teacher Education, SITE* (March 2009).
- Excelling the Big Crunch: A Novel Strategy to Utilize the Tower of Hanoi Problem in a Computer-Based Exploratory Environment. This paper has been published by the *Society for Information Technology & Teacher Education, SITE* (March 2008).
- Integrating the Mathematical skills of Coordinate Graphing and Graphing of Functions into Arts Curriculum. This paper has been published by the *Society for Information Technology & Teacher Education, SITE* (March 2008).
- A Brief Historical Antecedent to the Evolution of Geometry Education. This paper has been published by the journal of *Mathematical Sciences and Mathematics Education (MSME)*, (September 2007).
- Exploring the Creation of Mathematical Fractals Utilizing Euclidian Construction in a Pre-Service Teacher Environment: A New Perspective to Integrate Contemporary Mathematics into School Curriculum. This paper has been Published by the *Society for Information Technology & Teacher Education, SITE* (March 2007).

- A Dynamic Geometry Enriched Approach to Solve First and Second Order Polynomial Equations in a Single Variable. This paper has been published by the *Society for Information Technology & Teacher Education, SITE* (March 2007).
- Correlation between Students' Level of Understanding Geometry according to the van Hiele's Model and Students' Achievement in Plane Geometry. This paper has been published by the journal of *Mathematical Sciences and Mathematics Education (MSME)*, (February 2007).
- The Exclusion of the Students' Dynamic Misconceptions in College Algebra: a Paradigm of Diagnosis and Treatment, this paper has been published by the journal of *Mathematical Sciences and Mathematics Education (MSME)*, (September 2006).
- Spaced Reinforcement: An Effective Approach to Enhance the Achievement in Plane Geometry, co-authored with Dr. Ernest Zebrowski. This paper has been published by the journal of *Mathematical Sciences and Mathematics Education (MSME)*, (February 2006).
- Constructing a Technology-Based Reinforcement Support System to Enhance the Students Achievement in Algebra. This paper has been published by the *Association for the Advancement of Computing in Education, AACE*, (October 2005).
- A CABRI Geometry II Learning Environment and the Teaching of Euclidean Constructions to Hispanic Pre-service Teachers, co-authored with Dr. Olga Ramirez and Dr. John Bernard. This paper has been published by the *Society for Information Technology & Teacher Education, SITE* (March 2005).