

## Curriculum Vitae

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#### TEACHING

<u>Date</u>	<u>Title</u>	<u>Institution and Department</u>
2014-Present	Professor	University of West Georgia, Department of Computing and Mathematics
2009-2014	Associate Professor	University of West Georgia, Department of Mathematics
2006-2009	Assistant Professor	University of West Georgia, Department of Mathematics
2005-2006	Assistant Professor	Texas A&M University-Corpus Christi, Department of Mathematics and Computer Sciences
2004-2005	Assistant Professor	The University of Texas-Pan American, Department of Mathematics
2001-2004	Instructor	Southern University and A&M College, laboratory School, department of Mathematics

#### SERVICE TO INSTITUTION

##### Committee Membership:

##### University of West Georgia:

University Undergraduate Admission Appeals Committee, 2017-Present

University Disciplinary Appeals Committee, 2017-2019

University Council for Educator Preparation (UCEP) , 2012-2018

SEED B.S. Ed. Assessment, 2012-2014

University Relations Committee, 2014

Program Assessment Leader's (PALs) Committee, 2013

IRB committee, 2013

General Education Committee, 2011-2018

- Dean's Faculty Advisory Committee (FAC), 2008-2010
- Senate Ad Hoc Rules Committee, 2008-2010
- Undergraduate Academic Policies & Procedures Committee(UAPC), 2007-2009
- Teacher Education Advisory Committee (TEAC), 2007-2009

College of College of Arts, Culture, and Scientific Inquiry (CACSI):

- College Promotion and Tenure Committee 2023-2024

Department of Mathematics-UWG

- Promotion and Tenure committee, 2009-Present, Chair 2012, 2014 and 2022
- Director, Mathematics Education Curriculum, 2012-2020
- Strategic Planning Committee 2013-2020
- Advisory Committee , 2013-2018
- Mathematics Education Committee, Chair 2006-2020
- Rules' Committee 2018-2020
- Search committee for Instructor, 2017
- Search Committee for Tenure/Tenure track Assistant Professor, Chair 2007-2013
- Search Committee for Limited Term Assistant Professor, Chair, 2011
- Scholarship Committee, 2010-Present, Chair 2010 - 2014
- Facilities Committee, Chair, 2012-2014
- Graduate Committee, 2009-2013
- Technology Committee, Chair 2010
- Liaison to the College of Education at UWG, 2006-2920
- MATH 1001 Assessment Committee, 2013
- Master of Education Comprehensive Exam Committees (2007)
- Educational Specialist Committee (2007)

Other Institutions:

- Mathematics education Committee at TAMU-CC, member, 2005-2006
- 120 Hours Committee charged with revising the undergraduate course work at TAMU-CC, member, 2005-2006.
- 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, member, 2004-2005
- Mathematics Education and Math Education Textbook Committee, Department of Mathematics, UTPA, member, 2004-2005
- Mathematics Scholarship Committee, Department of Mathematics, UTPA, member, 2004-2005
- Mathematics Education Proposal Planning Team, UTPA, member, 2004-2005
- Faculty Professional Development Team, Teacher Preparation Programs, College of Education, SUBR, member, (2003 – 2004)
- 3-member advisement team (mathematics) for the College of Education, SUBR, member, (2002 – 2004)

Counseling Experience:

University of West Georgia:

- Mathematics representative on the Admitted Student Day, March 11, 2023.

- Advising undergraduate students 2007-2018
- Advising Sophomore and Non-traditional students for fall 2007-2018
- Mathematics Department Visitation Day Representative Spring 2007 - 2018, UWG

Participation in Educational Activities:

University of West Georgia:

- Judge in the West GA Regional Science and Engineering Fair, 2023 and 2024
- Judge in the 2<sup>nd</sup> Annual University College Writing and Research Conference April 26, 2023.
- Co-host for the Integer Conference 2007, 2009, 2011, 2013, and 2016, UWG
- Test administrator and a team competition proctored for Math Day 2008-Present, UWG.

Academic Achievement:

<u>Degree</u>	<u>School</u>	<u>Year</u>
B.S. Mechanical Engineering	Southern University and A&M College	1981
Ph.D. Mathematics Education	Southern University and A&M College	2001

PROFESSIONAL GROWTH

Publication (Selected):

1. Revisiting “The Gamow’s Problem” in a Dynamic Geometry Teacher Education Environment. This paper has been published by EdMedia-Innovate Learning 2019, June 2019
2. Utilizing The Certainty of Response Index in a Multiple Choice instrument to Unveil Students’ Misconceptions in a Pre-service Teacher Education Geometry Course. This paper has been published by EdMedia-Innovate Learning 2019, June 2019
3. Course Content Project : An Alternative Instrument to Assess Students' Learning and Retention in a Teacher Education Statistics Course, Journal of Mathematical Sciences and Mathematics Education, February 2017
4. Evaluating the Appropriateness of Utilizing CABRI Geometry II Software in a Pre-service Teacher Education Geometry Course, This paper was published by the Society for Information Technology & Teacher Education, SITE. (March 2015).
5. Utilizing Euler’s Approach in Solving Konigsberg Bridge Problem to Identify Similar Traversable Networks in a Dynamic Geometry Teacher Education Environment: An Instructional Activity. This paper has been published by the journal of Mathematical Sciences and Mathematics Education (MSME), (September 2012).
6. Exploring Archimedes’ Practical Approach to Calculating  $\pi$  in a Technology Based Teacher Education Program. This paper has been published by Global Learn (March 2011).

7. In quest of Golden Ratio through Fibonacci Sequence in a Dynamic Geometry Teacher Education Program Environment. This paper has been published by ED-MEDIA (March 2010).
8. Exploring the figurate numbers in a Technology Embedded P-8 Pre-Service Teacher Environment. This paper has been published by the Society for Information Technology & Teacher Education, SITE (March 2009).
9. The Limitations of Direct Sentence Translation in Algebraic Modeling of Word Problems. This paper has been published by the journal of Mathematical Sciences and Mathematics Education (MSME), (September 2008).
10. 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).
11. 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).
12. The Gagne-van Hiele's Connection: A Comparative Analysis of two Theoretical Learning Frame works. This paper has been published by the journal of Mathematical Sciences and Mathematics Education (MSME), (February 2008).
13. 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).
14. 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).
15. 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)
16. 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).
17. 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).
18. 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).

19. 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).
20. 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).

**Grant Writing Activities (Selected):**

1. University of West Georgia Institutional STEM Excellence, UWise, Authors: F. Khan, M. Swamy, N. Penceo, S. Basu-Dutt, A. Gaqere, V. Geisler, F. Khan, R. Harrison, J. Hasbun, A. Desilva, S. Syke, M. Yazdani, and G. Marshall. This grant initially \$344,000,00 and has been funded continuously for 3 years. 2013
2. Utilizing Problems Enhance Middle Grades Teachers, Knowledge of CCGPS for Mathematics Content and Practices, Authors: M. Yazdani, Jill Drake, A Teacher Quality Grant proposal. 2012
3. Online and On-campus Tutoring to Reinforce Students' Mathematical Skills and Concepts (this was a Technology Fee proposal and was funded \$24000.00). 2011
4. Advancing through the van Hiele's Levels of Understanding Geometry in a Pre-Service Teacher Education Technology Learning Environment, Author: M. Yazdani (this proposal was funded by the Learning Resource committee of the University of West Georgia to be implemented in academic year of 2008-2009)
5. USG-STEM Initiative Proposal, Authors: S. Basu-Dutt ,G. Marshall, B. Powell, J. Drake, N. Penceo , R. Duplechain, J. Bartley, R. Dodge, F. Luo, J. Black and M. Yazdani
6. A Technology Learning Environment for Motivation, Progression, and Retention of Pre-Service and In-Service P-8 School Teachers, Author: M. Yazdani

**Presentations (Selected):**

1. Speaker for MathCount 2024, Sponsored by West Georgia Chapter of Professional Engineers, College of Education, February 9<sup>th</sup> 2024.
2. Speaker for MathCount 2023, Sponsored by West Georgia Chapter of Professional Engineers, College of Education, February 3<sup>rd</sup> 2023.
3. Revisiting "The Gamow's Problem" in a Dynamic Geometry Teacher Education Environment. EdMedia-Innovate Learning 2019, Amsterdam Netherland, June 2019
4. Utilizing The Certainty of Response Index in a Multiple Choice instrument to Unveil Students' Misconceptions in a Pre-service Teacher Education Geometry Course. EdMedia-Innovate Learning 2019, Amsterdam Netherland, June 2019
5. It is not imaginary any more: an activity to visualize imaginary numbers, Seminars in Teaching and Learning of Mathematics, College of Education, UWG November 23<sup>rd</sup> 2019.

6. "The most beautiful formula in mathematics": a motivational conversation in a teacher preparation environment, Seminars in Teaching and Learning of Mathematics, College of Education, UWG November 13<sup>th</sup> 2018.
7. Speaker for MathCount 2018, *Technical Professions and Mathematics*, Sponsored by West Georgia Chapter of Professional Engineers, College of Education, February 9<sup>th</sup> 2018.
8. A brief History of  $\pi$ , Seminars in Teaching and Learning of Mathematics, College of Education, UWG March 29<sup>th</sup> 2018.
9. Utilizing Elementary Algebraic & Trigonometric Functions to Create Simple Animations in a Pre-Service Teacher Education Technology Environment, Seminars in Teaching and Learning of Mathematics, College of Education, UWG November 28<sup>th</sup> 2017.
10. Painting and Mathematics: Leonardo da Vinci, Michelangelo,...., & Salvador Dali Seminars in Teaching and Learning of Mathematics, College of Education, UWG April 4<sup>th</sup> 2017.
11. Speaker for MathCount 2017, *Significance of Mathematics in Engineering and Design*, Sponsored by West Georgia Chapter of Professional Engineers, College of Education, UWG, February 12<sup>th</sup> 2016.
12. Utilizing the Graphing of Elementary Trigonometric Functions In the Creation of Visual Arts, Boyd Building, Seminars in Teaching and Learning of Mathematics, Department of Mathematics, and UWG March 2015.
13. Speaker for MathCount 2015, Mathematics and Social Sciences, Sponsored by West Georgia Chapter of Professional Engineers, College of Education, UWG, February 2015.
14. Rabbits, Hercules, Danny, Jay, and Jennifer: the Worries of a Distracted Mathematician, Teaching and Learning of Mathematics Conference, Department of mathematics, UWG, Carrollton, Georgia April, 2012.
15. The Significance of Mathematicians' Role In Scientific Progress of Society, MathCount 2012, Sponsored by West Georgia Chapter of Professional Engineers, College of Education, UWG, February 2012.
16. Mathematics and Scientific Reasoning, MathCount 2011, Sponsored by West Georgia Chapter of Professional Engineers, College of Education, UWG, February 2011.
17. Exploring Archimedes' Practical Approach to Calculating  $\pi$  in a Technology Based Teacher Education Program. This paper has been published by Global Learn (March 2011).
18. In quest of Golden Ratio through Fibonacci Sequence in a Dynamic Geometry Teacher Education Program Environment. ED-MEDIA, Toronto Canada (March 2010).
19. Mathematics and Arts, a Connection, MathCount 2010, Sponsored by West Georgia Chapter of Professional Engineers, College of Education, UWG, February 2010.
20. Graphing Skills and Art Curriculum: Applications and Connections in a Technology Learning Environment the Regional STEM Institute conference - *Engaging the STEM Student In and Out of the Classroom* UWG (February, 2010)
21. Reinforcement of Mathematical Skills Utilizing Creative Art Work Activities in a Technology Learning Environment, Teaching and Learning of Mathematics Conference, Department of mathematics, UWG, Carrollton, Georgia February, 2010.

22. Exploring the figurate numbers in a Technology Embedded P-8 Pre-Service Teacher Environment. Society for Information Technology & Teacher Education, SITE, Charleston, South Carolina (March 2009).
23. The Limitations of Direct Sentence Translation in Algebraic Modeling of Word Problems. This paper has been published by the journal of Mathematical Sciences and Mathematics Education (MSME), (September 2008).
24. 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 (2007) World Conference, Las Vegas, Nevada (March 2008).
25. Integrating the Mathematical skills of Coordinate Graphing and Graphing of Functions into Arts Curriculum. Society for Information Technology & Teacher Education, SITE (2007) World Conference, Las Vegas, Nevada (March 2008).
26. Integrating the Graphing of Mathematical Functions into Arts Curriculum, Learning Festival, College of Education, UWGA, Carrollton, Georgia (Jun 2007)
27. 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).
28. 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).
29. The Students' Dynamic Misconceptions in College Algebra, 14th Annual Conference of South Texas Mathematics Consortium, TAMU-CC, Corpus Christi, Texas (February 2005).
30. 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).
31. The Exclusion of the Students' Dynamic Misconceptions in College Algebra: a Paradigm of Diagnosis and Treatment, 14th Annual South Texas Mathematics Consortium, Corpus Christi, TX, (February 2005).
32. The Efficacy of Spaced Reinforcement in Teaching and Learning Mathematics, Texas A&M University, Corpus Christi, TX, (May 2005).
33. 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, 13th Annual South Texas Mathematics Consortium, Harlingen, TX, (February 2005).
34. A CABRI Geometry II Learning Environment and the teaching of Euclidean Construction, with Drs. Olga Ramirez and John Bernard, RGVCTM, Edinburg, TX, (November. 2004).

35. Spaced Reinforcement: An Effective Strategy for Teaching and Learning Geometry, UTPA, (February 2004).
36. The Applications of Quadratic Functions in Architectural Design, Woodbury University, Burbank, CA, (December 2003).
37. Modeling With Systems of Linear Equations in Solving Word Problems, Louisiana State University, Alexandria, LA, (February 2003).
38. Geometry Education, Department of Science / Mathematics Education, SUBR, (September 2002).
39. Topics in Linear Algebra, LeRoy R. Posey Seminar, Department of Mathematics, SUBR (November.1999).

**Editorship:**

Chief Editor, Journal of Mathematical Sciences and Mathematics Education, MSME, 2006-Present

**Professional Services**

- Reviewer for the Teacher Quality Grants Proposals (Georgia). I reviewed two teacher quality grants, November 2018
- Reviewer for the SITE, Society for Information Technology and Teacher Education, January 2018. I reviewed 3 articles for SITE.
- Moderator of Teaching and Learning of Mathematics Seminar, Mathematics Department, UWG