

Mario Eraso, Ph.D.

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Work Experience

- Texas A&M University-Commerce**, Commerce, TX Present
College of Education and Human Services
- **Assistant Professor**, Fall 2010, Graduate Course: ELED 530- Mathematics Curriculum for Grades One Through Eight - Student Evaluation Average = 3.33
 - **Assistant Professor**, Fall 2010, Undergraduate Course: MLED 435- Integrating Instruction in Science, Math and Technology- Student Evaluation Average = 2.47
 - **Assistant Professor**, Fall 2010, Undergraduate Course: SED 401- Curriculum, Teaching Strategies and Classroom Assessment in Pluralistic Field-Based Environments- Student Evaluation Average = 2.00.
- Florida International University**, Miami, FL 2010
College of Education
- **Adjunct Professor**, Spring 2010, Undergraduate Course: Content and Methods of Teaching Elementary Mathematics
 - **Adjunct Professor**, Summer 2010, Graduate Course: Culturally Responsive Mathematics
- E. M. Kauffman Foundation**, Kansas City, MO 2008-2009
STEM Education
- Grant coordinator for **U.S. FIRST Robotics, Project Lead the Way**, and **13 School District Grants**, multi-million dollar grants over up to 5 years
 - **Developer** of educational strategies for **Latino communities** in Kansas City metropolitan area
 - Program officer for **all STEM programs** in Kansas City, with shared responsibilities for these programs nationally
 - Reviewer of math education manuscripts for **School Science and Mathematics Journal**
 - **Consultant** for Project Lead the Way engineering course redesign
- Florida International University**, Miami, FL 2000-2007
Center for Urban Education and Innovation
- **Adjunct Professor**, Fall 2005, Teaching Mathematics with Technology
 - **Collected and analyzed** data (2006 Algebra Project NSF Grant)
 - Facilitated workshop (Algebra Project and undergraduate **pre-service teachers**, Spring 2007)
 - **Coordinated** Algebra Project's 2006 Summer Institute
 - Facilitated workshops for **adult math literacy** workers
 - Analyzed data for FLAP, an **Arts Infusion** program

Researcher of Issues in Mathematics Education

- Conducted SPSS analysis for **mathematical modeling** project
- Integrated content of math and science using **Hestenes' Model**
- Created **GSP** files for **professional development** of teachers

Teacher for PAC School Program for **at-risk urban** students

- Taught twelfth, tenth, and seventh-grade math with **computers**
- **Constructed** full-scale scooter ramp and penta-hut, two educational tools.

CHM Consulting Engineers, Inc., Miami, FL 1998-2000

Structural Engineer

- Analyzed and designed **high-rise** buildings
- Designed **post-tensioned** slabs
- Combined **concrete, steel and timber** designs

North American Precast Company, San Antonio, TX 1995-1998

Structural Engineer

- Designed 6-inch **insulated and prestressed** composite panels
- **Developed** B-wall element for 35-foot spans
- Improved **standards** for 12-foot wide double tees

ATLSS Research Center, Bethlehem, PA 1994-1995

Research Assistant

- Interacted with **Bechtel, Dupont** and **Shimitzu** to study **innovations** and the automation of construction

Education

Florida International University, Miami, FL 2003-2007
Ph.D. Curriculum and Instruction

Florida International University, Miami, FL 2000-2003
M.S. in Math Education

Lehigh University, Bethlehem, PA 1995
B.S. and M.S. in Civil Engineering

Work Skills

Computers: **SPSS**, Geometer's Sketchpad, Autocad, Microsoft / Apple software
Languages: Fluent in **English and Spanish** and fair knowledge of **French**

Affiliations at Different Periods

Math is More
Hispanics in Philanthropy
National Science Teachers Association
American Society for Engineering Education
National Council of Teachers of Mathematics

Extra Curricular Activities

Mathematics, Science and Technology Student Association

President	2006
Vice-President	2005

Soccer Clubs

Active player	Present
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Awards

Nomination to the K. Patricia Cross Future Leaders Award

2006

The award recognizes graduate students who are committed to developing academic and civic responsibility in themselves and others, and who show exemplary promise as future leaders of higher education.

Chancellor's List

2005

The Chancellor's List provides recognition for the positive academic achievements of qualified graduate students.

Latin American and Caribbean Scholarship at FIU

2002-2006

Tuition Waiver for doctoral degree at FIU

2003-2006

Tuition Waiver for master's degree at FIU

2000-2003

Tuition Waiver for master's degree at Lehigh University

1994-1995

Publications

Eraso, M. (August, 2008). Fractions, Discovery and Invention: A Historical Encyclopedia of Science, Technology, and Society, a four-volume, illustrated reference presently being produced by M. E. Sharpe Publishing.

Eraso, M. (Summer 2006). Center eminent scholar at "raising the floor" math conference, Urban Focus, 4(2), Center for Urban Education and Innovation at Florida International University.

Eraso, M. (Fall 2005). Two voices from the training, Urban Focus, 3(3), Center for Urban Education and Innovation at Florida International University.

Park, D.Y., O'Brien, G., Eraso, M., and McClintock, E. (Fall 2002). A Scooter Inquiry: An Integrated Science, Mathematics, and Technology Activity, Science Activities: Classroom Projects and Curriculum Ideas, 39(3), 27-32.

Slaughter, E. S. and Eraso, M. (May, 1997). Simulation of Structural Steel Erection to Assess Innovations, Transactions on Engineering Management, 44(2), 196-207.

Eraso, M. and Slaughter, E. S. (November, 1994). Preliminary Simulation Models of the Fabrication and Erection of Steel Structures, ATLSS Report No. 94-16, an NSF-Sponsored Engineering Research Center at Lehigh University.

Presentations

Houston, TX	Presentation at Center for Research, Evaluation and Advancement of Teacher Education Conference: <i>One Child's Learning Experience with The Algebra Project's Curricular Process</i>	November	2010
Saint Louis, MO	Presentation at Cambio de Colores Conference: <i>The Experience of the Kansas City Latino Communities Epsilen Group</i>	May	2009
Minneapolis, MN	Presentation at Teaching for Intelligence: Believe to Achieve Conference: <i>Meeting with Math Literacy Workers</i>	November	2006
Fort Worth, TX	Presentation at the School Science and Mathematics Conference: <i>Improving Visualization: The Connections of Visual and Analytic Thinking</i>	November	2005
Jacksonville, FL	Presentation at The 16 th International Conference on College Teaching and Learning: <i>Connecting Algebra and Geometry to Improve Students' Visualization Skills</i>	April	2005
Miami, FL	Presentation at Florida Council of Teachers of Mathematics 52 nd Annual State Conference: <i>The Penta-Hut: A Mathematics Refuge</i>	October	2004
St. Petersburg, FL	Presentation at Florida Higher Education Consortium 10 th Statewide Conference: <i>Scouting with Technology in the Classroom</i>	November	2001