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**Mary Margaret Capraro**

Associate Professor, Mathematics Education,

Department of Teaching Learning and Culture

College of Education and Human Development

Texas A & M University

421 Harrington Tower

**Phone**: (979) 845-8384

**Fax: (979) 845-9663**

**E-mail:** mmcapraro@tamu.edu

Education

1997 -2000 University of Southern Mississippi. Hattiesburg, MS
**Doctor of Philosophy** - Curriculum and Instruction emphasis in Mathematics Education, Minor in Research and Statistics

1991 - 1993 University of Miami. Miami, FL
**Educational Specialist**- Mathematics and Science Resource Training

1973 - 1975 University of Miami. Miami, FL
**Master of Science**- Administration and Supervision

1967 - 1971 Barry University. Miami, FL
**Bachelor of Art**- English with Elementary Education Minor

Employment History

2011 - pres. **Associate Professor,** Texas A & M University

2007 – 2011 **Assistant Professor**, Texas A & M University

2006 – 2007 **Clinical Associate Professor,** Texas A & M University

2000 – 2006 **Clinical Assistant Professor**, Texas A & M University

Integrated Mathematics and Science Methods

Liaison for PDS: Bryan Independent School District

Integrated Methods Block Team Leader

Graduate Program Secondary Math Methods (Post Baccalaureate)

Project Coordinator for *Improving Mathematics Teacher Practice and Student Learning through Professional Development* (NSF Grant)

1999- 2000 University of Southern Mississippi Hattiesburg, MS

 **Graduate Assistant**

Hall Director with the Department of Residence Life

1994- 1997 Florida International University Miami, FL

 **Adjunct Professor**

Mathematics Methods for Elementary Teachers

1986 - 1999 Miami-Dade County Public Schools Miami, FL
**Assistant Principal**

In charge of curriculum, testing, finances and behavior management

1971 - 1986 Miami-Dade County Public Schools

Teacher

Grades K-6. Vocational, Adult, and ESOL

Publications

## Peer Reviewed

1. \***Capraro, M. M.,** An, S. A., Ma, T., Rangel-Chavez, A. F., & Harbaugh, A. (2012, In Press). An investigation of preservice teachers’ reflections on using guess and check in problem solving. *Journal of Mathematical Behavior.* 31, 105*-*116*.* doi:10.1016/j.jmathb.2011.10.002
2. **Capraro, M. M**., Capraro, R. M., & Cifarelli, V. (2012, In Press). Open-ended problem solving tasks for pre-service middle-grades teachers that elicit mathematical reasoning. *International Journal of University Teaching and Faculty Development, 2*
3. \*Matteson, S., **Capraro,** **M. M.,** Capraro, R. M., & Lincoln, Y. S. (2012, Fall, In Press). Extricating justification scheme theory in middle school problem solving. *Investigations in Mathematics Learning.*
4. \***Capraro, M. M.,** Capraro, R. M., & Jones, M. (2012, In Press). Numeracy and algebra: Path to full participation in community society? *Reading Psychology.*
5. **Capraro, M. M**. (2012, In Press). A tale of two cities: Do textbooks account for differences in Latino second grade students understanding of the equal sign. *Journal of* *Urban Education and Practice.*
6. Rupley, W., Capraro, R. M., & **Capraro, M. M.** (2011). Theorizing an integration of reading and mathematics: Solving mathematical word problems in the elementary grades. *LEARNing Landscapes, Special issue: Mind, Brain and Education, 5,* 227-250.
7. \*Capraro, R. M., Yetkiner, Z. E., Özel, S., Corlu, M. S., **Capraro, M. M.,** Ye, S., & Kim, H. G. (2011). An international perspective between problem types in textbooks and students’ understanding of relational equality*.* *Mediterranean Journal for Research in Mathematics Education: An International Journal, 10,* 187-213.
8. \*Han, S. Y., Rosli, R., Capraro R. M. & **Capraro, M. M.** (2011). The textbook analysis on probability: The case of Korea, Malaysia, and U. S. textbooks. *Journal of the Korea Society of Mathematics Education Series D: Research in Mathematical Education, 15(2), 127-140.*
9. Capraro, R. M., **Capraro, M. M.,** & Rupley, W. (2011).  Reading enhanced word problem solving (REPS): A theoretical model. *European Journal of Psychology of Education.* DOI:10.1007/S10212-011-0068-3.
10. \*An, S, **Capraro, M. M.**, & Hao, H. (2011, In Press). Ideological representations in mathematics textbooks in China during the cultural revolution decade: A relational analysis of selected textbooks from 1966–1976. *Journal of Curriculum Theorizing- International Division.*
11. **Capraro, M. M.,** & Shih, J. (2011). Middle school mathematics: Current issues in teacher preparation and student learning. *Middle Grades Research Journal, 5*(4), ix-x.
12. \*Ding, M., Li, X., **Capraro, M. M**., & Kulm, G. (2011, In Press). A case study of teacher responses to doubling error and difficulty in learning equivalent fractions. *Investigations in Mathematics Learning*, *4(*2), 42-73.
13. \*Piccolo, D., **Capraro, M. M**., & Capraro, R. M. (2011). Student teachers’ general and content-specific pedagogical development within a mathematics milieu. *Middle Grades Research Journal, 5*(4),169-183.
14. +\*An, S.A., Ma, T., & **Capraro, M. M.** (2011). Preservice teachers’ beliefs and attitude about teaching and learning mathematics through music: An intervention study. *School Science and Mathematics. 111,* 235-247.
15. \*\*Kilgore, K., & **Capraro M. M.** (2010). Teaching factorization with Smartboard technology*. Journal of Mathematics Education, 3*(2), 115-125.
16. **Capraro, M. M.,** Capraro, R. M., Carter, T., & Harbaugh, A. (2010) Questioning, curiosity, and representing: What makes a difference mathematically in middle-school classrooms? *Research in Middle level Education Online, 34*(4), 1-19.
17. Capraro, R. M., Capraro, M. M., & Rupley, W. H. (2010). Semantics and syntax: A theoretical model for how students may build mathematical mis-understandings. *Journal of Mathematics Education, 3(2), 58-66.*
18. **Capraro, M. M.,** Capraro, R. M., Yetkiner, Z. E., Rangel-Chavez, A. F., & Lewis, C. W. (2010). Examining Hispanic student mathematics performance on high-stakes tests: An examination of one urban school district in Colorado. *Urban Review, 42*, 193-209.
19. **\*\***Rowntree, R., & **Capraro, M. M.** (2010). Understanding and aiding students’ perceptions of algebraic inequalities*.* *Texas Mathematics Teacher. Fall,* 10-17.
20. \*Capraro, R. M., Özel, S., **Capraro, M. M.**, Yetkiner, Z. E., Kim, H. G., & Küçük, A. R. (2010). An international comparison of the equal sign: An update. *Psychological Reports.* *106*(1), 49-53.
21. \*Piccolo, D., **Capraro, M. M**., & Capraro, R. M. (2010). Mentoring urban interns: Amalgamation of experiences in the formation of mathematics teachers*. The Teacher Educator, 45*(1), 37-53.
22. **\*\*Capraro, M. M.,** & Belliston, A. (2009). Middle school preservice teachers’ notions of representativeness: A replication study. *Tennessee Association of Middle School Journal. 41,* 1-10.
23. **Capraro, M. M.,** Capraro, R. M., & Helfeldt, J. (2010). Do differing types of field experiences make a difference in teacher candidates’ perceived level of competence*?* *Teacher Education Quarterly*, *37(1),* 131-154.
24. Ye, S., Kulm, G., & **Capraro, M. M.** (2009).Middle grade teachers’ use of textbooks and their classroom instruction. *Journal of Mathematics Education*, *2*(2), 20-37.
25. Capraro, R. M., & **Capraro, M. M.** (2009). Quantitative reporting practices in middle-grades research journals: Lessons to learn. *Middle Grades Research Journal, 4*(2),1-10.
26. \*Yetkiner, Z. E., & **Capraro, M. M.** (2009). *Teaching fractions* *in middle grades mathematics*. Retrieved January 27, 2009, from http://www.nmsa.org/Research/ResearchSummaries/TeachingFractions/tabid/1866/Default.aspx
27. Helfeldt, J., Capraro, R. M., **Capraro, M. M.,** Foster, E. S., & Carter, N. (2009). An urban schools-university partnership that prepares and retains quality teachers for "high need" schools. *The Teacher Educator*, *44*(1), 1-20.
28. \*Piccolo, D., Carter, T., Harbaugh, A., **Capraro, M. M**., & Capraro, R. M. (2008). Quality of instruction: Examining discourse in middle school mathematics instruction. *Journal of Advanced Academics, 19,* 376-410.
29. Zientek, L., **Capraro, M. M.** &, Capraro, R. M. (2008*).* Reporting practices in quantitative teacher education research: One look at the evidence cited in the AERA panel report. *Educational Researcher, 37*, 208-216.
30. Li, X., Ding M., **Capraro, M. M.,** & Capraro, R. M. (2008). Sources of differences in children's understandings of mathematical equality: Comparative analysis of teacher guides and student texts in China and the United States. *Cognition and Instruction, 26,* 195-217.
31. Slate, J. R., **Capraro, M. M.,** & Onwuegbuzie, A. J. (2007). Students’ stories of their best and poorest K-5 teachers: A mixed data analysis. *Journal of Educational Research & Policy Studies, 7*(2), 53-79.
32. \*Capraro, R. M., **Capraro, M. M.,** Ding, M., & Li, X. (2007). Thirty years of research: Interpretations of the equal sign. *Psychological Reports*, 101, 784-86.
33. Capraro, R. M., & **Capraro, M. M.** (2007). Pedagogy and curriculum: Antithetical constructs or a nexus in mathematics education? *Journal of Curriculum and Pedagogy, 4*(1), 34-39.
34. Kulm, G., Capraro, R. M., & **Capraro, M. M.** (2007). Teaching and learning middle grades mathematics with understanding. *Middle Grades Research Journal, 2,* 23-48.
35. \***Capraro, M. M.,** Ding, M., Matteson, S., Capraro, R. M., & Li, X. (2007). Representational implications for understanding equivalence. *School Science and Mathematics Journal, 107*, 86-88.
36. **Capraro, M. M.** (2006) Electronic teaching portfolios: Technology skills + portfolio development: Do they = powerful preservice teachers*? Teacher Education and Practice, 19,* 380-390.
37. \*\***Capraro, M. M.,** & Joffrian, H. (2006). Algebraic equations: Can middle-school students meaningfully translate from words to mathematical symbols?*Reading Psychology, 27*, 147 – 164.
38. Capraro, R. M., & **Capraro, M. M.** (2006). Are you really going to read us a story? Learning geometry through children’s mathematics literature. *Reading Psychology 27,* 21-36.
39. **Capraro, M. M.** (2005). An introduction to confidence intervals for both statistical estimates and effect sizes. *Research in the Schools, 12(2),* 22 – 32.
40. Capraro, R. M., **Capraro, M. M.,** Parker, D., Kulm, G., & Raulerson, T. (2005). The mathematics content knowledge role in developing preservice teachers’ pedagogical content knowledge.  *Journal of Research in Childhood Education, 20,* 102-118.
41. **Capraro, M. M.,** Kulm, G., & Capraro, R. M. (2005). Middle grades: Misconceptions in statistical thinking. *School Science and Mathematics Journal, 105*, 165-174.
42. **Capraro, M.M.** (2005). A more parsimonious mathematics beliefs scales. *Academic Exchange Quarterly*, *9*(3), 83-88.
43. Henson, R., Capraro, R. M., & **Capraro, M. M.** (2004). Reporting practice and use of exploratory factor analysis in educational research journals. *Research in the Schools, 11*(2), 61-72.
44. **Capraro, M. M.** (2003). Measure for measure. *Illinois Mathematics Journal, 54*(1), 3-5.
45. **Capraro, M. M.** (2003). Measuring with nonstandard units. *Wisconsin Teachers of Mathematics Journal, 54*(1), 7-10*.*
46. **Capraro, M. M.**, & Capraro, R. M. (2003). Exploring the APA fifth edition publication manual’s impact on the analytic preferences of journal editorial board members. *Educational and Psychological Measurement, 63*, 554-565*.*
47. **Capraro, M. M.** (2003). Tired of using worksheets? *Texas Mathematics Teacher, 45 (1),* 9-11.
48. **Capraro, M. M.** (2002). Defining constructivism: Its influence on the problem solving skills of students. *Educational Technology Research and Development, 50*(4), 97.
49. Capraro, R. M., & **Capraro, M. M**. (2002). Treatment of effect sizes and statistical significance tests in textbooks. *Educational and Psychological Measurement, 62*, 771-782*.*
50. Capraro, R. M., & **Capraro, M. M.** (2002). Myers-Briggs type indicator score reliability across studies: A meta-analytic reliability generalization study. *Educational and Psychological Measurement*, *62,* 590-602.
51. **Capraro, M. M.,** Capraro, R. M., & Henson, R. K. (2001). Measurement error of scores on the mathematics anxiety rating scale across studies*.* *Educational and Psychological Measurement, 61,* 373-386.
52. **Capraro, M. M.,** & Capraro, R. M. (2001). Bigger is not better: Seeking parsimony in canonical correlation analysis via variable deletion strategies. *Multiple Linear Regression Viewpoints, 27*(2), 24-33.
53. Capraro, R. M., & **Capraro M. M.** (2001). Commonality analysis: Understanding variance contributions to overall canonical correlation effects of attitude toward mathematics on geometry achievement. *Multiple Linear Regression Viewpoints, 27*(2), 16-23.

**Peer-Reviewed Proceedings**

1. Rosli, R., Gonzalez y Gonzalez, E., & **Capraro, M. M**. (2011). A case study of three preservice teachers on the units and unitizing of fractions. In Wiest, L. R., & Lamberg, T. (Eds.), *Proceedings of the 33rd annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 1682-1689). Reno, NV: University of Nevada.
2. Rosli, R., Goldsby, D., & **Capraro, M. M.** (2011). Exploring preservice teachers’ abilities to pose division scenarios. In Wiest, L. R., & Lamberg, T. (Eds.), *Proceedings of the 33rd annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 1125-1132). Reno, NV: University of Nevada.
3. **\*Capraro, M. M**., Capraro, R. M., Rosli, R., Han, S. Y., Harbaugh, A., & Moch, P. L.  (2011). Teacher educator strategies for improving preservice teachers’ knowledge of fractions. In J. Novotna & H. Moraova (Eds.), *Proceedings of the International Symposium on Elementary Mathematics Teaching* (pp. 88-95)*.* Prague, Czech Republic: Charles University Press.
4. **Capraro, M. M.,** Capraro, R. M., Stearns, L., & Morgan, J. (2011). *A teacher observation instrument: Looking at PBL classroom instruction. Proceedings of the 9th annual Hawaii International Conference on Education,* Honolulu, HI.
5. Maher, C. A., Capraro, M. M., Capraro, R. M., Capraro, R. M., & Landis, J. (2011). *Tasks that elicit mathematical reasoning in students. Proceedings of the 9th annual Hawaii International Conference on Education,* Honolulu, HI*.*
6. **Capraro, M. M**., Capraro, R. M., Harbaugh, A., Cifarelli, V., Pugalee, D., & Lamm, M. (2009). Developing proportional reasoning across ideas of equality (Series of Workshops). In J. Novotna & H. Moraova (Eds.), *Proceedings of the International Symposium on Elementary Mathematics Teaching* (pp.267-269)*.* Prague, Czech Republic: Charles University Press.
7. \***Capraro, M. M.,** Rangel-Chavez, A., & Capraro, R. M. (2008). Effective preparation for teaching of algebra at the primary level. *Proceedings of the 11th meeting of the International Congress on Mathematical Education.* Monterrey, México.
8. **Capraro, M. M.,** Capraro, R. M., & Cifarelli, V. V. (2007). *What are students thinking as they solve open-ended mathematics problems?* In D. K. Pugalee, A. Rogerson, & A. Schnick (Eds.), *Proceedings of the ninth international conference of Mathematics Education in a Global Community* (pp. 124-128). Charlotte, NC: The University of North Carolina.
9. \*\*Capraro, R. M., Kulm, G., Hammer, M., & **Capraro, M. M.** (2002). The origin and persistence of misconceptions in statistical thinking. In D. S. Mewborn, P. Sztajn, D. Y. White, H. G. Wiegel, R. L. Bryant, & K. Nooney (Eds.), *Proceedings of the twenty-fourth annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education.* (Vol. 3. pp. 1339-1340). Columbus, OH: ERIC Clearinghouse for Science, Mathematics, and Environmental Education.
10. **Cetin, S. C**., Corlu, M. S.,Capraro, M. M., & Capraro, R. M. (2011). A latent growth model: Longitudinal investigation of student achievement in mathematics and science. In B. Ubuz (Ed.). *Proceedings of the 35th Conference of the International Group for the Psychology of Mathematics Education (PME)*. Ankara, Turkey: PME Program Committee.

## Books, Book Chapters, and Research Reports

1. **Capraro, M. M.** (2012, in press). Mathematics specialists. In C. R. Reynolds, K. J. Vannest, & E. Fletcher-Janzen (Eds.), *Encyclopedia of special education: A reference for the education of children, adolescents, and adults with disabilities and other exceptional individuals* (4th ed., pp. XXX-XXX). Hoboken, NJ: John Wiley and Sons.
2. Capraro, M. M., Capraro, R. M., Scheurich, J., Morgan, J. R., & Stearns, L. (2011). *Supporting teachers’ implementation of STEM project-based learning: An observation instrument, 1*(1) 1-4[White paper]. Retrieved from Texas A & M University Aggie STEM Center website: http://nt-stem.tamu.edu/WhitePapers.ph
3. Capraro, R. M., Scheurich, J., Capraro, M. M., Morgan, J. R., & Stearns, L. (2011). *STEM project-based learning professional development effects on student achievement in an urban district, 1*(2) 1-4[White paper]. Retrieved from Texas A & M University Aggie STEM Center website: http://nt-stem.tamu.edu//WhitePapers.ph
4. Stearns, L. Capraro, M. M., Capraro, R. M., Scheurich, J., & Morgan, J. R. (2011*). Access for all: Equity in advanced classes, 1*(3) 1-4[White paper]. Retrieved from Texas A & M University Aggie STEM Center website: http://nt-stem.tamu.edu//WhitePapers.ph
5. Scheurich, J., Capraro, R. M., Capraro, M. M., Morgan, J. R., & Stearns, L. (2011). *Reflections of high school teachers on implementing professional learning communities and project-based learning* *1*(4) 1-4 [White paper]. Retrieved from Texas A & M University Aggie STEM Center website: http://nt-stem.tamu.edu//WhitePapers.ph
6. \*An,S. A., & **Capraro, M. M.** (2011). *Music-mathematics integrated activities for elementary and middle-grade students.* Irvine, CA: Education for All.
7. Capraro, R. M., & **Capraro, M. M.** (2010). Quantitative reporting practices in middle-grades research journals: Lessons to learn. In D. Hough (Ed.), *Research supporting middle grades practice* (pp. 79-89). Charlotte, NC: Information Age. (Best Paper- Reproduced as a chapter in edited volume).
8. Capraro, R. M., **Capraro, M. M**., Morgan, J., & Scheurich, J. (Eds.). (2010). *A companion to interdisciplinary STEM project based learning: For teachers by teachers*. Rotterdam, The Netherlands: Sense.
9. \*\*\*Cetiner, N., & **Capraro, M. M.** (2010). Selling handmade items in a Turkish school kermes (Chapter 24). In R. M. Capraro, M. M. Capraro, J. Morgan, & J. Scheurich (Eds.), *A companion to interdisciplinary STEM project-based learning: For teachers by teachers*, pp. 213-222. Rotterdam, The Netherlands: Sense.
10. Boyd, D., & **Capraro, M. M.** (2010). Where do earthquakes occur? (Chapter 1). In R. M. Capraro, M. M. Capraro, J. Morgan, & J. Scheurich (Eds.), *A companion to interdisciplinary STEM project-based learning: For teachers by teachers*, pp. 3-10. Rotterdam, The Netherlands: Sense.
11. Paul, W., & **Capraro, M. M.** (2010). The depression now and then (Chapter 13). In R. M. Capraro, M. M. Capraro, J. Morgan, & J. Scheurich (Eds.), *A companion to interdisciplinary STEM project-based learning: For teachers by teachers*, pp. 119-126. Rotterdam, The Netherlands: Sense.
12. **Capraro, M. M.** (2008). Interdisciplinary STEM project-based learning (p. 91-102). In R. M. Capraro & S. W. Slough (Eds.), *Project-based learning: An integrated science, technology, engineering, and mathematics (STEM) approach*. Rotterdam, The Netherlands: Sense.
13. \*\***Capraro, M. M.,** English, S., Fisseler, S., Matteson, S., Grimi, E., Kotara, D., & Rangel, A. (2008). Looking into middle school mathematics classrooms: Lessons learned from research (pp. 287-309). In G. Kulm (Ed.), *Teacher knowledge and practice in middle grades mathematics*. Rotterdam, The Netherlands: Sense
14. **Capraro, M. M.** (2006). Variable deletion. In N. J. Salkind (Ed.), *The encyclopedia of measurement statistics.* Thousand Oaks, CA: Sage.
15. **Capraro, M. M.** (2006). Confidence intervals. In N. J. Salkind (Ed.), *The encyclopedia of measurement statistics.* Thousand Oaks, CA: Sage.

## Non-Peer Reviewed

1. Capraro, R. M., **Capraro, M. M.,** Rupley, W. H., & Slough, S. W. (2010). *The confluence of reading and mathematics strategies to enhance mathematical cognition.* Policy Brief.

2. \*\*Capraro, R. M., **Capraro, M. M**., Dighans, K., & Hammer, M. (2002*). A revision protocol design: Item revision and impact analysis report*. College Station, TX: Texas A &M University, Teaching, Learning, and Culture.

3. Capraro, R. M., & **Capraro, M. M.** (2000). *An investigation of the effects gender, socioeconomic status, race, and grades on standardized test scores?* (ERIC Document Reproduction Service No. ED444867)

4. Capraro, R. M., & **Capraro, M. M**. (1998). *Teacher talk*. In middle school mathematics, course 1 and course 3. Chicago: Scott Foresman-Addison Wesley.

## Submitted or Under Revision

Sokolowski, A., & **Capraro, M. M**. (2011). *Parametrization of Motion.* Submitted to *Science Education Review.* Dec, 2011.

**Capraro, M. M.,** Helfeldt, J., Scott, C., & Capraro, R. M. (2010). Urban teacher internships: A program designed to induct and retain teachers. Submitted to *Teacher Education Quarterly* – revise and resubmit.

Capraro, R. M., **Capraro, M. M.,** Morgan, J., Scheurich, J., Huggins, K., Corlu, S. M. & Younes, R. (2011) The impact of sustained professional development in STEM Project Based learning on district outcome measures. Submitted to *American Education Research Journal,* 10/7/11, AERJTLHD-11-OM-0242.

\*An, S., & **Capraro, M. M.** (2010). EGBDF = Mathematical success: From composing music to graphing (Submitted to *Teaching Children Mathematics* 1/10 - #10-01-002-3C; revisions for Connections section completed and resubmitted 4/19/10, #10-05-057-2C; conditionally accepted on 6/14/10 working with the editor on further revisions)

\*An, S. A., Kim, Y. M., **Capraro, M. M,** & Lee, A. (2011). Elementary teachers integrate music activities into regular mathematics lessons: Effects on students’ mathematical abilities. Submitted 10/11 to *Journal of Research in Childhood Education.* MS# UJRC-2011-0095.

Ding, M., Li, X., & **Capraro, M. M.** (2011). Preservice elementary teachers’ knowledge and teaching of the associative property: Do the books they use help? (Submitted to *Journal of Mathematics Behavior,* 6/11*)*

Ding, M., Li. X., Capraro, M., & Capraro, R. (Under review). Supporting meaningful initial learning of the associative property: Cross-cultural differences in textbook presentations. *Submitted 12/11 to International Educational Journal: Comparative Perspectives.*

Stearns, L. M., Morgan, J., **Capraro, M. M.,** & Capraro, R. M. (2011). The development of a teacher observation instrument for PBL classroom instruction*. S*ubmitted to *Journal of STEM Education: Innovations and Research*, 6/7/10, MS# ISSN: 1557-5284; Revisions sent 3/11. One review- publish on 6/11.

\*\*\*Capraro, R. M., **Capraro, M. M.,** Younes, R., Han, S. Y., & Garner, K. (2011*). A longitudinal look at the equal sign through the lens of textbooks: A meta-analysis of relational symbols in K-12 textbooks.* Submitted to Journal of *Curriculum Studies,* 10/11,TCUS-2011-0190.

\* Rosli, R., Han, S. Y., Capraro, R. M., & **Capraro, M. M.** (2011). Exploring elementary preservice teachers' knowledge of content and teaching fractions. Rejected from *Journal of Mathematical Thinking and Learning.* Working to resubmit to another journal.

 **Work in Progress**

Capraro, R. M., **Capraro, M. M.,** & Helfeldt, J. (2010). Contrasting views on the principal’s role for establishing a mentoring program. (Working on for submission to *Education Administration Quarterly*).

Schorr, R., Epstein, Y., Warner, L., Capraro, R. M., **Capraro, M. M.,** & Goldin, G. (2010). *Measuring engagement structures in middle-grades urban mathematics classrooms*.

Co-authored with \*Doctoral,\*\*Master’s, \*\*\*Undergraduate students;

+indicates a publication accepted for publication during the time I was associate editor)

Professional Activities and Memberships

Texas Council of Teachers of Mathematics

Kappa Delta Pi Educational Honor Society

National Council of Teachers of Mathematics

School Science and Mathematics Association

Research Council on Mathematics Learning (2000-07)

American Mathematics Teacher Educators (2000-07)

Southwest Educational Research Association, President

American Educational Research Association

Advanced Training and Preparation

2010 ***Multilevel SEM.*** College of Education-TAMU, Workshoppresented byDr. Ehri Ryu Boston College.

2010 ***A Gentle Introduction to Meta-Analysis.*** Southwest Educational Research Workshop presented by Robin K. Henson & Tammi Vacha-Haase.

2009 ***An Introduction to Structural Equation Modeling.*** Southwest Educational Research Workshop presented by Vic Willson.

2008 ***Agile Mind.*** Austin Texas presented by Linda Chaput.

2008 ***The Qualitative Analysis of Video: Using Video and Audio as a Data Source.*** AERA Workshop, New York City presented by David Woods and Kay Uchiyama.

2007 ***Virtual Online Instructor Certification.*** Texas A & M Center for Distance Learning presented by Melissa Magnussen.

2007 ***Mixed Methods Data Analysis.*** Southwest Educational Research Association presented by Anthony Onwuegbuzie and John Slate.

2006 ***Qualitative Data Collection and Data Analysis***. Texas A&M University presented by Yvonna Lincoln.

2006 ***Quasi-Experimental Design Workshop***. Northwestern University. Co-Sponsored by Spencer Foundation and Department of Education presented by Thomas D. Cook and William Shadish.

2006 ***Hierarchical Linear Modeling for Applied Research***. Southwest Educational Research Association presented by Tasha Beretvas and Kyle Roberts.

2006 ***Mixed Methods Research Designs and Analysis***. Southwest Educational Research Association presented by Anthony Onwuegbuzie and John Slate.

2005 ***Introduction to******Hierarchical Linear Modeling***. Southwest Educational Research Association presented by Tasha Beretvas and Kyle Roberts.

2005 ***Factor Analytic Designs in Educational Research***. Southwest Educational Research Association presented by Bruce Thompson.

2004 ***Using S-PLUS: Basic Statistics to Simulations.*** American Educational Research Association presented byRandall E. Schumacker and J. Kyle Roberts.

2004 ***Structural Equation Modeling Faculty Collaborative****.* Texas A&M University presented by Victor Willson

2000-2002 ***Faculty Statistics Refresher****.* Texas A&M University presented by Bruce Thompson

Presentations

National

1. Spielhagen, F., Aguirre, J., Bolling, M., Fennell, S., Maxwell-West,M., Moses, R., Capraro, R. M., & Capraro, M. M. (2012, April).  *Ready or not: The promise of 8th grade algebra.* Symposium accepted for presentation at National Council of Teachers of Mathematics Research Presession, Philadelphia, PA.
2. Erdogan, N., Ayar, M., Corlu, M. S., Capraro, M. M., & Sahin, A. (2012, March). *Exploring a summer camp based on Robotics activities prepared for underrepresented groups: A pilot study*. Paper will be presented at the annual conference of National Association for Research in Science Teaching (NARST), Indianapolis, IL.
3. Rosli, R., Goldsby, D., & Capraro, M. M. (2012,April). *A mixed analysis of middle school preservice teachers' mathematical problem solving and problem posing*. Paper accepted for presentation at National Council of Teachers of Mathematics Research Presession, Philadelphia, PA.
4. Goldsby, D., Rosli, R., & Capraro, M. M. (2012,April). *Examining the effects of fraction instruction on elementary preservice teachers' knowledge and attitudes: A mixed analysis*. Paper accepted for presention at National Council of Teachers of Mathematics Research Presession, Philadelphia, PA.
5. Cetin, S.C., Corlu, M. S., Capraro, M. M., & Capraro, R. M. (2011, November). *A latent growth model: Longitudinal investigation of student achievement in mathematics and science.* Paper presented at the annual meeting of the School Science and Mathematics Association, Colorado Springs, CO.
6. Capraro, M. M., Capraro, R. M., & Oner, T. A. (2011, November*). Observations of STEM PBL teachers and their student’s scores.* Presented at the annual meeting of the School Science and Mathematics Association, Colorado Springs, CO.
7. Heyen, K., Hollowell, E., Kever, E., Mullins, D., Murphy, K., Taylor, D., Wayne, S., Easterling, J., Nite, S., Capraro, M. M., & Capraro, R. (2011, August). Pr*oblem posing around the Czech Republic.* Poster presentation at *the International Symposium on Elementary Mathematics Teaching.*Charles University: Prague, Czech Republic.
8. Scheurich, J., Morgan, J., Huggins, K., Capraro, M. M., Avery, R., & Capraro, R. M. (2011, April). *Facilitating urban high school improvement in mathematics and science through a university STEM center-district-business collaboration.* Paper presented at the annual meeting of the American Educational Research Association, New Orleans.
9. Capraro, R. M., Scheurich, J., Morgan, J., Avery, R., Yakman, G., Corlu, M. S., Capraro, M. M., Han, S., Younes, R., & Huggins, K. (2011, April). *Building STEM centers for excellence in educational innovation.* Paper presented at the annual meeting of the American Educational Research Association, New Orleans.
10. An, S., Hao, H., & Capraro, M. M. (2011, April). *Ideological representations in mathematics textbooks in China during the cultural revolution decade: A relational analysis of selected textbooks from 1966–1976.* Paper presented at the annual meeting of the American Educational Research Association, New Orleans
11. An, S., Lee, A., & Capraro, M. M. (2011, April). *Teaching geometry through music instrument making and designing.* Paper presented at the annual meeting of the National Council of Teachers of Mathematics, Indianapolis, IN.
12. Corlu, S. M., Capraro, R. M., & Capraro, M. M. (2011, April). *Turkish student teachers’ attitudes towards mathematics and science integration*. Poster presented at the annual meeting of the National Council of Teachers of Mathematics, Indianapolis, IN.
13. Rosli, R., Han, S.Y., Capraro, M. M., & Capraro, R. M. (2011, April*). An analysis of preservice teachers’ pedagogical content knowledge of fractions.*  Paper presented at the annual meeting of the National Council of Teachers of Mathematics, Indianapolis, IN.
14. Capraro, M. M., Capraro, R. M., Stearns, L., & Morgan, J. (2011, January). *A teacher observation instrument: Looking at PBL classroom instruction.* Presented at the 9th annual Hawaii International Conference on Education, Honolulu, HI.
15. Maher, C. A., Capraro, M. M., Capraro, R. M., Capraro, R. M., & Landis, J. (2011, January). *Tasks that elicit mathematical reasoning in students.* Presented at the 9th annual Hawaii International Conference on Education, Honolulu, HI.
16. Capraro, R. M., Capraro, M. M., Younes, R., & Han, S. Y. (2010, November*). A longitudinal look at the equal sign through the lens of textbook authors.* Presented at the annual meeting of the School Science and Mathematics Association, Fort Meyers, FL.
17. Capraro, R. M., Capraro, M. M., Corlu, S. M., Younes, R., Han, S. Y., & Morgan, J. (2010, November). *The impact of sustained professional development in STEM project based learning on district outcome measures*. Paper presented at the annual meeting of the School Science and Mathematics Association, Fort Meyers, FL.
18. Scheurich, J., Capraro, M. M., Capraro, R. M., Morgan, J. R., Avery, R., & Huggins, K. (2010, October). Conversation: *A university STEM center facilitates urban high school academic improvement in math and science.* Paper presented at the annual meeting of the University Council of Educational Administration, New Orleans.
19. Capraro, M. M. (2010, June). *Student cognition of relational equivalency: International perspectives.* Presented at the 13th international conference on Mathematics Education in China (ICME), Hangzhou Normal University, China.
20. Schorr, R., Epstein, Y., Warner, L., Capraro, R. M., Capraro, M. M., & Goldin, G. (2010, May). *Measuring engagement structures in middle grades urban mathematics classrooms.* Presented at the annual meeting of the American Educational Research Association, Denver, CO.
21. Piccolo, D., Capraro, M. M., & Capraro, R. M. (2010, May). *Student teachers, general and specific pedagogical development within a mathematics milieu.* Presented at the annual meeting of the American Educational Research Association, Denver, CO.
22. Capraro, M. M., & Capraro, R. M. (2009, October). *STEM project-based learning: An interactive motivational strategy for bridging content across classes*. Poster presented at the annual meeting of the School Science and Mathematics Association, Reno, NV.
23. Capraro, M. M. (2009, November). *Teaching fractions in middle grades mathematics.* In symposium M. Caskey, Spotlight on research presented at the 36th annual conference of the National Middle School Association, Indianapolis, IN.
24. Capraro, R. M., & Capraro, M. M. (2009, March). *NTSTEM (North Texas science, technology, engineering, and mathematics center)*. Paper presented at the US Department of Education’s Mathematics and Science Partnerships (MSP) Program, Chicago.
25. Piccolo, D., Capraro, M. M., & Capraro, R. M. (2009, April). *Mentoring urban interns: Amalgamation of experiences in the formation of mathematics teachers.* Presented at the annual meeting of the American Educational Research Association, San Diego, CA.
26. \*Capraro, M. M., Yetkiner, E., Ozel, S. Capraro, R., Ye, S., & Kim, H. (2009, April). *An international perspective on sixth graders’ interpretation of the equal sign*. Presented at the annual meeting of the American Educational Research Association, San Diego, CA.
27. Capraro, M. M., (2008, October). *Publishing in SSMJ*. Session in *Pathways to publication* Symposium. Presented at the National Middle School Conference,Denver, CO.
28. \*Capraro, M. M., Rangel-Chavez, A. F., & Capraro, R. M. (2008, July). *Effective preparation for teaching of algebra at the primary level*. Presented at the 32nd Conference of the International Group for the Psychology *of* Mathematics Education,Monterrey, Mexico.
29. Zientek, L., Capraro, M. M., & Capraro, R. M. (2008, April). *Teacher education: A historical investigation of reporting practices*. In symposium with B. Thompson, T. Onwuegbuzie, J. Slate, E. Fuller, B. Berry, & K. Fries. Presented at the annual meeting of the American Educational Research Association, New York.
30. \*Ding, M., Li, X., Capraro, M., & Kulm, G. (2008, April). *A case study of teacher responses to doubling error and difficulty in learning equivalent fractions.* Presented at the annual meeting of the American Educational Research Association, New York.
31. Slate, J. Capraro, M. M., & Onwuegbuzie, A. J. (2008, April). *Students’ stories of their best and poorest K-5 teachers: A mixed data analysis****.*** Presented at the annual meeting of the American Educational Research Association, New York.
32. \*Capraro, R. M., Capraro, M. M., Zientek, L. R., Carter, T., & Taylor, J. (2007, November). *Prospective teachers’ attitudes and understandings of statistical concepts*. Paper presented at the annual meeting of the School Science and Mathematics Association, Indianapolis, IN.
33. \*Matteson, S., Capraro, R. M., Capraro, M. M., & Lincoln, Y. (2007, November). *Developing a framework for middle school students’ problem solving justification schemes.* Paper presented at the annual meeting of the School Science and Mathematics Association, Indianapolis, IN.
34. Capraro, M. M., Capraro, R. M., & Cifarelli, V. (2007, September). *What are students thinking as they solve problems?* Paper presented at the annual meeting of the International Conference for Mathematics Education in a Global Community, Charlotte, NC.
35. Capraro, M. M. (2007, April). Do field experiences make a difference in preservice teachers’ perceived level of competence? Session in E. Foster (Chair). *Impact of mentor training on perceptions of competence and pre-service/inservice mentors and administrators.* Symposium at the annual meeting of the American Educational Research Association, Chicago.
36. \*Capraro, M. M. (2007, March). *Comparing ideas of equivalence cross-culturally.* Session in S. Matteson (Chair). *≥ to 30 years of research on the equals sign*. with C. Lubinski. A. Otto (Illinois State University), E. Knuth (University of Wisconsin-Madison), Symposium presented at the research presession of the 85th annual meeting of the National Council of Teachers of Mathematics, Atlanta, GA.
37. \*Ding, M., Li, X., Capraro, M. M., & Capraro, R. M. (2007, March). *Do elementary children still interpret the “=” sign as an operator?* Presented at the research presession of the 85th annual meeting of the National Council of Teachers of Mathematics, Atlanta, GA.
38. \*Capraro, M. M., Cifarelli, V., Capraro, R., & Zientek, L. (2006, October). *What are students really thinking as they solve two types of problems?* Presented at the annual conference of School Science and Mathematics, Missoula, MT.
39. \*Capraro, R. M., Capraro, M. M., Harbaugh, A., Carter, T. A., & Piccolo, D. (2006, April). *Rich mathematics classroom conversations: What are middle-school teachers and students actually saying*? Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
40. Capraro, R. M., & Capraro, M. M. (2006, April). *Underlying structures of mathematical representation: A theoretical perspective*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
41. \*Zientek, L., Capraro, R. M., & Capraro, M. M. (2006, April). *Research findings and issues for alternative certification routes and influences of recent federal legislation*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
42. \*Capraro, R. M., Capraro, M. M., Harbaugh, A., Carter, T. A., & Piccolo, D. (2006, April). *Meaningful discourse in middle-school: Linking research to practice.* Paper presented at the research presession of the 84th annual meeting of the National Council of Teachers of Mathematics, St. Louis, MO.
43. Capraro, M. M., Willson, V., Capraro, R. M., & Kulm, G. (2006). *Professional development by curriculum differences on student achievement*. Paper presented at the research presession of the 84th annual meeting of the National Council of Teachers of Mathematics, St. Louis, MO.
44. \*Capraro, R. M., Littlefield-Cook, J., Carter, T., Capraro, M. M., Matteson, S., & Lager, C. (2006, February). *Mathematical fluency.* Paper presented at the annual meeting of the Research Council on Mathematics Learning, Las Vegas, NV.
45. \*\*\*Hollums, J., & Capraro, M. M. (2006). *Questioning in the mathematics classroom.* Paper presented at the annual meeting of the Research Council on Mathematics Learning, Las Vegas, NV.
46. Capraro, M. M., & Capraro, R. M, (2006, January). *Examining middle school teachers’ knowledge of number and algebra*. Paper presented at the annual meeting of the Association of Mathematics Teacher Educators, Tampa, Fl.
47. \*Capraro, M. M., Capraro, R. M., & Piccolo, D. (2005, November). *What makes Tigger a tiger? (and not a leopard)*. Paper presented at the annual meeting of School Science and Mathematics Association, Fort Worth, TX.
48. \*\*Capraro, R. M., Capraro, M. M., Naiser, E. A., Carter, T., Harbaugh, A., & Romero, C. T. (2005, April). *Using middle grades student achievement data to support theoretical teacher quality measures*. Paper presented at the research pre-session of the National Council of Teachers of Mathematics, Anaheim, CA
49. \*Kulm, G., Capraro, M. M., Carter, T., Li, X., Sahin, A., You, Z., Zientek, L., English, S., & Jones, C. (2005, April). *How do students in the middle grades represent data?* Paper presented at the 83rd annual meeting of the National Council of Teachers of Mathematics, Anaheim, CA.
50. \*Capraro, M. M., Capraro, R. M., & Zientek, L. (2005, February). *Longitudinal influences of conceptual mathematics on teacher classroom enactments.* Paper presented at the annual meeting of the Association of Mathematics Teacher Educators, Dallas, TX.
51. Capraro, R. M., Willson, V., Capraro, M. M., & Wilson, L. (2004, April). *Effects of curriculum variation on structure in middle school mathematics.* Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.
52. Capraro, M. M., Capraro, R., DeBoer, G., Kulm, G., Manon, J., Morris, K., Roseman, J. E., Willson, V., & Wilson L. (2004, April). *Research issues in the improvement of mathematics teaching and learning through professional development.* Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.
53. \*\*Capraro, R. M., Kulm, G., Willson, V., Capraro, M. M., Taylor, J., Sebesta, L., Sun, Y., & Harbaugh, A.  (2004, April). *Representational models for the teaching and learning of mathematics*. Paper presented at the research presession of the 82nd annual meeting of the National Council of Teachers of Mathematics, Philadelphia, PA.
54. Capraro, R. M., & Capraro, M. M. (2004, February). *Looking at representations through the eyes of middle grades students and their teachers*. Paper presented at the annual meeting of the Research Council on Mathematics Learning, Oklahoma City, OK.
55. Capraro, M. M., & Capraro, R. M. (2003, April). *Exploring the impact of the new APA 5th edition publication manual on the preferences of journal board members*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
56. Capraro, R. M., & Capraro, M. M. (2003, April). *Revising mathematics assessment items for alignment to curriculum standards*. Paper presented at the annual meeting of the American Educational Research Association, Chicago.
57. Allen, N., & Capraro, M. M. (2003, April). *Come play with us: Native American mathematics games*. Workshop presented at the 81st annual meeting of the National Council of Teachers of Mathematics, San. Antonio, TX.
58. \*\*\*Capraro, M. M., & Maloof, C. (2003, April). *Far, far, away: Ride the measurement carpet across the curriculum*. Workshop presented at the 81st annual meeting of the National Council of Teachers of Mathematics, San. Antonio, TX.
59. Capraro, M. M. (2003, March). *Geometry standards: A comparison between the United States and China.* Paper presented at the Research Council on Mathematics Learning, Tempe, AZ.
60. Capraro, R. M., & Capraro, M. M. (2003, January). *Alternative certification: Measuring the impact on post-baccalaureate future mathematics teachers.* Paper presented at the annual meeting of the Association of Mathematics Teacher Educator, Atlanta, GA.
61. Capraro, M. M. (2003, January). *Electronic teaching portfolios: Technology skills + portfolio development = powerful preservice teachers.* Paper presented at the American Association of College Teacher Educators (AACTE), New Orleans, LA.
62. \*\*Capraro, R. M., Kulm, G., Hammer, M., & Capraro, M. M. (2002, October). *The origin and persistence of misconceptions in statistical thinking*. Paper presented at the annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Athens, GA.
63. Capraro, M. M., Kulm, G., & Capraro, R. M. (2002, October). *Middle grades misconceptions in statistical thinking*. Paper presented at the annual meeting of School Science and Mathematics Association, Rochester, NY.
64. Capraro, R. M., Kulm, G., & Capraro, M. M. (2002, April). *Investigating the complexity of middle grade students’ understanding of mathematical constructs.* Paper presented at the annual meeting of the American Educational Research Association, New Orleans.
65. \*\*Kulm, G., Capraro, R. M., Capraro, M. M., & Hastings, E. (2002, April). *Increasing student achievement: Building on ideas and promoting thinking about mathematics.* Paper presented at the research presession of the 80th annual meeting of the National Council of Teachers of Mathematics, Las Vegas, NV.
66. Capraro, R. M., An, S., & Capraro, M. M. (2002, April). *Multicultural math fun - learning with magic squares: Incidentally learning number sense, algebra, & analytical reasoning.* Paper presented at the 80th annual meeting of the National Council of Teachers of Mathematics, Las Vegas, NV.
67. Capraro, R. M., Capraro, M. M., & Kulm, G. (2002, March). *Measuring one factor for preservice teachers’ propensity toward teaching elementary/middle school mathematics: Pedagogical content knowledge*. Paper presented at the 29th annual meeting of Research Council on Mathematics Learning, Memphis, TN.
68. Capraro, R. M., Capraro, M., Parker, D., Kulm, G., & Raulerson, T. (2002, February). *Conventional wisdom is wrong: Anyone cannot teach and teachers are not born.* Paper presented at the American Association for Colleges of Teacher Education, New York.
69. Kulm, G., Capraro, R. M., Capraro, M. M., Burghardt, R., & Ford, K. (2001, April). *Teaching and learning mathematics with understanding in an era of accountability and high-stakes testing*. Paper presented at the research presession of the 79th annual meeting of the National Council of Teachers of Mathematics, Orlando, FL.

## Regional, State, & Local

1. Sahin, A., Capraro, M. M., & Capraro, R. M. (2012). *The impact of participation in STEM after school clubs and science fair competitions on post-secondary matriculation.*Paper accepted for presentation at the annual conference of Southwest Educational Research Association (SERA), New Orleans.
2. \*\*Rosli, R., Han, S., Capraro, M. M., & Capraro, R. M. (2011, February). *Preservice teachers' knowledge for teaching fractions.* Presented at annual meeting of the Southwest Educational Research Association, San Antonio, TX.
3. Capraro, R. M., Capraro, M. M., Younes, R., & Han, S. Y.(2011, February).*Propensity score matching reveals differences in sustained professional development***.** Paper presented at the annual meeting of the Southwest Educational Research Association, San Antonio, TX.
4. \*\*\*Capraro, R. M., Capraro, M. M., Younes, R., Han, S. Y., & Garner, K. (2010, February). *A meta-analysis of equivalence in K-12 textbooks.* Paper presented at the 33rd annual meeting of the Southwest Educational Research Association, New Orleans, LA.
5. Scheurich, J., Capraro, R. M., Morgan, J., *&* Capraro, M. M.(2009, October). *Aggie STEM – A suite of services for educators implementing STEM activities.* Paper presented at the annual meeting of the Texas Association of School Administrators and Texas Association of School Boards, Houston, TX.
6. Scheurich, J., Capraro, R. M., Morgan, J., & Capraro, M. M. (2009, October*).  The STEM center at Texas A&M university: What can we do for you?* Paper presented at the annual meeting of the Texas Association of School Administrators and Texas Association of School Boards, Houston, TX.
7. \*Ma, T., Rangel, A. F., & Capraro, M. M. (2009, March). *Exploration of pre-service teachers’ beliefs and performances in solving open-ended problems.* Paper presented at the Texas A & M Student Research Week, College Station, TX.
8. Capraro, M. M. (2009, February). *Tensions influencing opportunity to learn about mathematical equivalence.* Paper presented at the 32nd annual meeting of the Southwest Educational Research Association, San Antonio, TX.
9. \*An, S., Ma, T., & Capraro, M. M. (2009, February). *Music activity’s effects on preservice math teachers’ attitude and belief. P*aper presented at the 32nd annual meeting of the Southwest Educational Research Association, San Antonio, TX.
10. \*Ma, T., Rangel, A. F., & Capraro, M. M.(2009, February). *How to encourage pre-service teachers to obtain multiple solutions.* Paper presented at the 32nd annual meeting of the Southwest Educational Research Association, San Antonio, TX.
11. \*Capraro, R. M., Yetkiner, E. Z., Ozel, S., Corlu, S. M., Capraro, M. M., & Kim, H. G*.* (2009, February). *International comparison of the equal sign.* Paper presented at the 32nd annual meeting of the Southwest Educational Research Association, San Antonio, TX.
12. \*Zientek, L., Yetkiner, Z. E., Capraro, M. M., & Capraro, R. (2008, February). *Reporting practice in teacher education: The importance of structure coefficients*. Paper presented at the 31st annual meeting of the Southwest Educational Research Association, New Orleans, LA.
13. \*Parker, D., Donahue, M., Stillisano, J., Capraro, M. M., Goldsby, D., Yetkiner, E., & Capraro, R. M. (2007, November). *Communication and representations.* Paper presented at the National Council of Teachers of Mathematics regional conference, Houston, TX.
14. \*Stillisano, J., Capraro, M. M., Goldsby, D., Parker, D., Yetkiner, Z. E., & Capraro, R. M. (2007, October). *Math TEKS connections.* Paper presented at the Charles A. Dana Center's annual mathematics and science higher education conference, Austin, TX.
15. \*Capraro, M. M. (chair), Matteson, S., Capraro, R. M., Ding, M., & Li, X. (2007, February). *Representational implications for middle grades equivalence.* Symposium presented at the 30th annual meeting of the Southwest Educational Research Association, San Antonio, TX.
16. \*\*Capraro, M. M., Piccolo, D., Ross, A., Sahin, A., Louder, H., & Capraro, R. M. (2006, February). *Using middle grades student achievement data to support theoretical teacher quality measures*. Paper presented at the 29th annual meeting of the Southwest Educational Research Association, Austin, TX.
17. Capraro, R. M., Willson, V., & Capraro, M. M. (2005, February). *Effects of curriculum variation on structure in middle school mathematics.* Paper presented at the Texas A & M College of Education Research Symposium, College Station, TX.
18. Capraro, M. M., & Capraro, R. M. (2005, February). *Persistence of conceptual mathematics teaching.* Paper presented at the 28th annual meeting of the Southwest Educational Research Association, New Orleans, LA.
19. Capraro, M. M. (2004, February). *Professional teaching portfolios and teaching artifacts: Do they provide insightful information about preservice teachers?* Paper presented at the 27th annual meeting of the Southwest Educational Research Association, Dallas, TX.
20. Capraro, M. M. (2003, February). *Using confirmatory factor analysis (CFA) to support the constructs of middle school algebra.* Paper presented at the 26th annual meeting of the Southwest Educational Research Association, San Antonio, TX.
21. Capraro, M. M., Capraro, R. M., & Pederson, S. (2003, February). *Symposium demonstrating multivariate applications using teacher education data*.
Symposium presented at the 26th annual meeting of the Southwest Educational Research Association, San Antonio, TX.
22. Capraro, M. (2002, February). *An introduction to confidence intervals for both statistical estimates and effect sizes.* Paper presented at the 25th annual meeting of the Southwest Educational Research Association, Austin, TX.
23. Capraro, R. M., & Capraro, M. (February, 2002). *In light of the TAAS middle school geometry misconceptions.* Workshop presented at Sam Houston University, Huntsville, TX.
24. Capraro, R. M., Capraro, M. M., & Lamb, C. E. (2001, November). *Digital video: Watch me do what I say!* Paper presented at Fall Teacher Education Conference of the Consortium of State Organizations for Texas Teacher Education, Corpus Christi, TX. (ERIC Document Reproduction Service No. ED459697)
25. Henson, R., Capraro, R. M., & Capraro, M. M. (2001, November). *Reporting practice and use of exploratory factor analysis in educational research journals*. Paper presented at the annual meeting of the Mid-South Educational Research Association, Little Rock, AK.
26. Capraro, M. M. (2001, November)*. Construct validation and a more parsimonious mathematics beliefs scales*. Paper presented at the annual meeting of the Mid-South Educational Research Association, Little Rock, AK.
27. Capraro, R. M., & Capraro, M. (2001, February). *Displaying data for visual analysis*. Workshop presented at Sam Houston University, Huntsville, TX.
28. Scott, J., Martin, N., Capraro, M. M., & Capraro, R. M. (2001, February). *When the dissertation is finished . . . getting a job in higher education.* Panel discussion atthe annual meeting of the Southwest Educational Research Association, New Orleans, LA.
29. Capraro, M. M., Capraro, R. M., & Henson, R. (2001, February). *Measurement error of scores on the mathematics anxiety rating scale across studies.* Paper presented at the annual meeting Southwest Educational Research Association, New Orleans, LA. (ERIC Document Reproduction Service No. ED452207)
30. Capraro, M. M. (2000, November). *Bigger is not better: Seeking parsimony in canonical correlation analysis via variable deletion strategies*. Paper presented at the annual meeting of the Mid-South Educational Research Association, Mobile, AL. (ERIC Document Reproduction Service No. ED449225)
31. Capraro, M. M. (2000, February). *Defining constructivism: How teacher beliefs influence the problem solving skills of their students.* Paper presented at the annual meeting Southwest Educational Research Association, New Orleans, LA. (ERIC Document Reproduction Service No. ED452204)
32. Capraro, M. M. (2000, January). *Comparing the effects of gender, socio-economic status, race and grades on standardized test scores.* Paper presented at the annual meeting of the Southwest Educational Research Association. New Orleans, LA. (ERIC Document Reproduction Service No. ED444867)
33. Capraro, R. M., & Capraro, M. M. (1999, December), *Thematic dinosaur unit using technology.* Workshop presented at the Mississippi Reading Association, Biloxi, MS.
34. Capraro, R. M., & Capraro, M. M. (1999, July*). Creating a theme: Dinosaurs across reading, mathematics, and science.* Workshop presented at the 60th annual USM Reading Conference, Hattiesburg, MS.
35. Capraro, R. M., & Capraro, M. M. (1999, July), *Using* t*echnology to teach reading and make connections to science, social studies, and mathematics for elementary students*. Workshop presented at the 59th annual USM Reading Conference, Hattiesburg, MS.
36. Capraro, R. M., & Capraro, M. M. (1998, July*). Meaningfully integrating reading and algebra concepts.* Workshop presented at the 58th annual USM Reading Conference, Hattiesburg, MS.
37. Capraro, R. M., & Capraro, M. M. (1998, January). *Preparing teachers to teach the sunshine state standards in geometry*. Workshop presented at the Sheridan Vocational School. Broward County Public Schools, Fort Lauderdale, FL.
38. Capraro, M. M. (1998, January). *Fishy fish facts*. Workshop presented at the Dade County Mathematics & Science Conference, Miami, FL.
39. Capraro, R. M., & Capraro, M. M. (1998, April*). Caution! 2-d, 3-d geometric construction underway!* Presented at the 76th annual meeting of the National Council of Teachers of Mathematics, Washington, DC.
40. Capraro, R. M., & Capraro, M. M. (1998, October). *Technologically teaching algebra to elementary students.* Workshop presented at the annual meeting of the Florida Council of Teachers of Mathematics, Orlando, FL.
41. Capraro, R. M., & Capraro, M. M. (1997, October*). 2-d, 3-d and all that’s geometry.* Workshop presented at the annual meeting of the Florida Council of Teachers of Mathematics, Ft. Lauderdale, FL.
42. Capraro, R. M., & Capraro, M. M. (1996, October). *Algebra concepts for teachers*. Workshop presented at the annual meeting of the Florida Council of Teachers of Mathematics annual meeting, Ft. Myers, FL.
43. Capraro, R. M., & Capraro, M. M. (1995, April), *Elementary algebra, my dear.* Workshop presented at the 73rd annual meeting of the National Council of Teachers of Mathematics, Boston, MA.
44. Capraro, R. M., & Capraro, M. M. (1995, January*). Geometry concepts for teachers.*  Workshop presented at the Dade County Mathematics Conference, Miami, FL.
45. Capraro, R. M., & Capraro, M. M. (October, 1995). A*lgebra my dear.* Workshop presented at the annual meeting of the Florida Council of Teachers of Mathematics, Palm Beach Gardens, FL.
46. Capraro, R. M., & Capraro, M. M. (1994, January*). Standards based instruction and the competency based curriculum.* Workshop presented at the Dade County
Mathematics Conference, Miami, FL.
47. Capraro, R. M., & Capraro, M. M. (1989, June). *The model school.* SlidePresentation – Newark, NJ. Miami–Dade County Public Schools, Miami, FL.

**Invited Presentations**

1. Capraro, M. M., & Capraro, R. M. (2011, October). *Aligning mathematics content with CATE coursework.* Presented at A. J. Moore Academy for the Texas High School Project Academies. Dallas, TX. Waco, TX.
2. Capraro, R. M., & Capraro, M. M. (2011, October). *Estimating validity during the instrument design phase.* Presented at the seminar series of The State of Texas Education Research Center. Station, TX. College Station, TX.
3. Capraro, R. M., Capraro, M. M., & Maxwell, J. (2011, June). *Beginning STEM PBL: An Introductory hands-on workshop with N-spire*. Harmony Public School, Houston, TX.
4. Capraro, M. M., & Capraro, R. M. (2011, October). *Developing a STEM program using PBL*. Invited address at Energize for STEM, Houston, TX.
5. Capraro, R. M., Capraro, M. M., & Morgan, J. (2010, September). *Texas A & M center for mathematics & science education: Opportunities and resources.* Invited presentation at the College and Career Readiness Initiative Faculty Collaborative, San Antonio, TX.
6. Capraro, M. M. (2009, November). *Pathways to publication*. Invited as part of a symposium presented at the 37th annual conference of the National Middle School Association, Indianapolis, IN.
7. \*Capraro, M. M., Capraro, R. M., & Corlu, M. S. (2009, November). *STEM project-based learning in urban classrooms.* Invited presentation during Science Education Seminar Series, Texas A & M University, College Station, TX.
8. Capraro, M. M., Capraro, R. M., Harbaugh, A., Cifarelli, V., Pugalee, D., & Lamm, M. (2009, August). *Developing proportional reasoning across ideas of equality.* Invited address International Symposia Elementary Maths Teaching, Charles University, Prague, CZ.
9. Capraro, M. M., Jensen, D., & Morgan, J. (2009, January). *Water resources engineering.* Invited address presented at the Texas Association of School Administrators Mid-Winter Conference, Austin, TX.
10. Capraro, R. M., & Capraro, M. M. (2009, January). *Engineering PBL in the secondary classroom: Pollution, dilution, and acceptability.* Invited presentation at the T-STEM Best Practice Conference, South Padre Island, TX.
11. Capraro, M. M., & Capraro, R. M. (2008, September). *Recommended reporting practices in teacher education.* Invited presentation at the Educational Research Center Seminar, College Station, TX**.**
12. Morgan, J., Capraro, R. M., & Capraro, M. M. (2008, June). *Stage Storage PBL.* Invited workshop presented at the STEM Summer Institute, Dallas, TX.
13. Capraro, R. M., Maxwell, G., & Capraro, M. M. (2008, January). *The mission of the NTSTEM center.* Invited workshop presented at the STEM Leaders Centers Meeting, El Paso, TX.
14. Capraro, M. M. (2008, June). *Sheltered instruction observation protocol (SIOP).* Invited workshop presented at the Trainers of Trainers, College Station, TX.
15. Capraro, M. M., & Capraro, R. M. (2008, July). *Mathematics teaching and teacher education (Panel Discussion #4)*. Invited presention at the Seminar on Mathematics Education, Center for Distance Learning, College Station, TX**.**
16. Capraro, M. M. (2008, January) *What works in classrooms*. Session in T. Scott (Chair) Best practices: From our classrooms to yours. Invited presentation at the STEM Teacher Summit, College Station, TX.
17. \*Capraro, M. M., Goldsby, D., Yetkiner, Z. E., Piccolo, D., Ozel, S., Wright, K., Indiogne, E., & Capraro, R. M., (2007, May). *Overview of the K-4 modules.* Invited presentation at the Texas A & M Mathematics TEKS connection conference, P Station, TX.
18. Capraro, R. M., & Capraro, M. M. (2007, September). *Research + teaching: What makes an effective mathematics classroom*. Invited address at the monthly meeting of Phi Delta Kappa, College Station, TX.
19. Capraro, R. M., & Capraro, M. M. (2005, February*). Roll, flip, and slide into geometry.* Invited address at the annual meeting of the Texas Mathematical Association of Two-Year Colleges, Austin, TX.

***(Presented with Doctoral\*, Masters\*\*, and \*\*\*Undergraduate students)***

 - GRANTS- Total Awarded – Funded $3,533,234

* *Comprehensive Review of P-16 College Readiness and Success Initiatives.* 2011-2012: Co-PI with Jim Dyer and R.M. Capraro Texas Higher Education Coordinating Board. **(Co-PI- awarded August, 2011: $199,193).**
* Aggie STEM Summer Camp. Co-PI with R. M. Capraro, J. Morgan, & J. Scheurich. Energized for STEM Academy, Inc. Awarded June 2011.
* Math and Science Partnership. *Aggie- Science, Technology, Engineering and Mathematics* *Center*. PI with Drs. R. M. Capraro, and J. R. Morgan, Awarded **$800,000 8/1/11- 7/31/13**
* *Akins High School One-Day STEM Experience on A&M Campus.* Austin ISD Funded. **$3,201 1/1/12 – 5/30/12**
* Developmental Education Demonstration Project Evaluation 2011-2012 (CoPI: with Jim Dyer & Robert M. Capraro from Texas Higher Education Coordinating Board (**Co-PI- awarded May, 2011: $399,998)**.
* Fostering TAMU Pre‐Service Teachers’ Awareness of STEM College and Career Readiness Standards - Texas Higher Education Coordinating Board **(PI - awarded May, 2010: $10,000).**
* Texas Education Agency, *Aggie STEM,* **(Co-PI -awarded August, 2010: $500,000)**
* Texas Education Agency - *M-STAR- Curriculum Focal Points* -
01/06/09 - 12/31/09 **(CoPI - awarded December, 2008: $900,000)**
* College of Education & Human Development- CEHD Research Grant for Preparing *Elementary Mathematics Specialists (PEMS) Through an Online Graduate Program* **(PI -awarded May, 2008: $5000**)
* Texas Education Agency. *Texas- Science, Technology, Engineering, and Mathematics* CO-PI Texas A & M /TEA **(Co-PI - awarded: $1.2 million**).
* Regent’s Initiative: *Longitudinal Influences of Conceptual Mathematics on Teacher Classroom Enactments,* **(PI - awarded March, 2004: $18,600)**.

Regent’s Initiative: Professional Teaching Portfolios and Teaching Artifacts: Do They Provide Insightful Information About Preservice Teachers*?* (**PI**- **awarded April, 2003: $10,000).**

 Regent’s Initiative Grant: Electronic *Teaching Portfolios: Technology Skills + Portfolio Development = Powerful Preservice Teachers*. (**PI-** **awarded April, 2002: $10,000).**

Regent’s Initiative Fellowship: *Systematic Integration of Technology in the Preservice Teacher Education Program* submitted in cooperation with Dr. Nancy Allen and Dr. Robert Capraro (**PI**-**awarded April, 2002: $10,000).**

*Item Analysis and Revision Protocol Development: A Case Study*. Washington, DC: AAAS. (**Co-PI - awarded February, 2001: $19,343).**

International Travel Grant, *Elementary Geometry Pedagogy: A Comparison Between the United States and China.* Texas A & M University COE-IPECC (**PI**-**awarded March, 2001: $500).**

Research Enhancement Grant, *Elementary Geometry Standards: A Comparison between the United States and China*. Texas A & M University. (**PI**-**awarded in 2001: $500).**

Travel Grant, Continuing Research with UNT Professor on the MARS. Texas A& M University. (**PI**-**awarded November, 2000: $700).**

Women’s History Month Grant, The University of Southern Mississippi. (**PI**-**awarded Spring, 2000: $700)**.

Co-author, Comprehensive School Reform Demonstration Grant North Twin Lakes Elementary. (**Co-PI**-**awarded June, 1999: $150,000).**

Research Grant, Title VI. M3 Making Math Meaningful for North Twin Lakes Elementary, Miami, Florida. (**PI**-**awarded July 1997: $10,000).**

Technology Grant, North Twin Lakes Elementary, Hialeah, Florida. (**Co-PI**-**awarded July, 1995: $90,000).**

- GRANTS- Submitted

* *Transforming Teaching and Learning Mathematics Using New Resources, Models and Tools for Teacher Education*. Co-Pi with Capraro, R.M.& Parker, D. subcontract Maher, C. Rutgers University. **Submitted 1/12 to National Science Foundation $3,000,000 8/11-8/14**
* *ZOOiPPORTUNITIES (Zoo-OPS) -- a ZOO iPad Project: Overarching Representational Technologies Utilizing Nature in Teaching Informal Education in STEM:* PI, with Co-PIs (alphabetical order) M. M. Capraro, R. M. Capraro, McLaughlin, J. Morgan, A. Sahin. **Submitted National Science Foundation** **$1,200,000 8/1/12-7/31/15**
* Evaluation of the Harmony Charter School Model for STUdent StEM Success (HCSMS3)PI, with (alphabetical order) M. M. Capraro, R. M. Capraro, T. Davis, R. Goddard, C. Loving, J. Morgan, J. Scheurich. (Co:PI **Submitted 3/11/11 National Science Foundation $1,922,141)**
* *Using Selected Reading Processes to Solve Mathematics Word Problems.* **Submitted Institute for Educational Sciences. PI** with B. Rupley, M.M. Capraro, & J. Leiw **Submitted 6/23/11**
* Institute for Educational Sciences. *Using Selected Reading Processes to Solve Mathematics Word Problems.* Drs. R. Capraro, W. Rupley, M.M. Capraro, J. Liew Submitted 6/23/11 $**1,200,000)**
* Aggie STEM – 2011-2013. $800,000 Submitted to Texas Education Agency. Co-PI; Submitted June, 2011, **$800,000**)
* The Development of Research Instrumentation to Explore Motivation and Engagement (Submitted to NSF in conjunction with Rutgers University- funded)

- GRANTS- Unfunded

* *Adult Basic Education- An Evaluation Project of Community Colleges. 2011-2012*: Co-Pi with Jim Dyer, M. M. Capraro. Submitted June, 2011 to Texas Higher Education Coordinating Board, $100,000, 6/10/11 – 10/31/12
* NEA Foundation Grant - Student Achievement Grant- *We Are Dying to Get in Here!* ( submitted $5000 4/08 – not funded)
* Corporation for National and Community Service - *North Texas Interstate STEM / Service Learning Initiative* (NTISSLI) (Submitted 5/08 - $960,000 - not funded)
* A Replicable Urban Partnership Model for Delivering STEM High School and Transition-to-College Success in Engineering for Diverse, Inner City High School Students. (Not funded -February, 2009 for $3,996,726)
* Spencer Foundation - *Induction Programs and Principal Quality: How to Create the Best Support for Beginner Secondary (6-12) Math/Science Teachers* (Submitted $396,444 - not funded)
* Department of Defense - US Army. *Computerized Mathematics Models: Understanding the Impact of Representational Models on Cognition*. (Submitted 2/23/07; Resubmission due to change in Army Leadership $75,000)
* Spencer Foundation. *Developing Mathematical Understanding Through Controlled Language Development.* (Submitted $40,000 – not funded)
* Spencer Foundation. *Developing Representational Models and Success in Middle Grades Mathematics.* (Submitted $40,000 – not funded)
* State of Texas – 21st Century Grant – Infusing STEM Education Through Customized Learning Experiences in K-12 Schools. (Submitted 4/15/09 $1,531,200 - not funded).
* Institute of Education Sciences – Department of Education. *Powerful Representations in Middle Grades Mathematics Education (PRiMME)*. (Submitted 1.5 million – not funded)
* Department of Education. *Pathways to Higher Education for At-Risk Student Scholars Collaborating Departments*, Sub contract with CDLR, Southwest Texas Community College. (Submitted 2.8 million – not funded).
* TQ Grant - Texas Higher Education Coordinating Board, February 2005, *Middle School Mathematics II* for $81,999 – not funded.
* Reading to Solve Verbal (written/word) Problems (RSVP). (Revise and Resubmitted to IES for 1.6 million, 2010)
* Math Specialists - RGK Foundation (Submitted 10/10 – not awarded)

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Journal/Book/Grant Reviewing

*Middle Grades Research Journal –* Associate Editor 2011-Present

Co-editor Special Edition (Mathematics) with Jeff Shih for *Middle Grades Research Journal*

*Teaching Children Mathematics*, NCTM Journal, 1999-2010.

*Journal for Research in Mathematics Education*, 2004 – 2011.

Reviewer of Grant Proposal - Standard Research Grants Program of the Social Sciences and Humanities Research Council of Canada (SSHRC), 2010.

*American Education Research Journal*: TLHD, 2004-2006.

*Educational Researcher,* 2004-2006.

*Journal of Mathematics Education*: Associate Editor, 2010.

*School Science and Mathematics Journal*: Associate Editor, 2006-11.

*Texas Teacher’s Educator’s Forum*, 2001-05.

Multicultural Reviewer for Middle School Mathematics, Scott Foresman-Addison Wesley: Course 1 and Course 3, 1998.

Proposals: 2002 Annual Meeting of AACTE (14), November, 2001.

Proposed text of Teaching Mathematics in Elementary and Middle Schools: A Universal Design for Learning – Chapters 3,4, 5, & 6, October, 2001.

Proposal reviewer for SERA, 2002-10.

Proposed text of Elementary Math Methods Prentice Hall, 2002.

Proposal reviewer for AERA, 2006-2009.

Research

**NCES** Algebra 9th Grade Study NSF Evaluation Panel Washington DC

**Lesson Developer:** M-STAR Grant- Middle School ratio and proportion (2009)

**Module Developer:** Mathematics TEKS Connection Grant (2005-07)

**Co-PI:** Texas- Science, Technology, Engineering and Math Center (2006 -2010) TEA

**Project Coordinator/ Faculty Researcher**: Middle School Mathematics Project, IERI Grant (2001-2006). *Improving Mathematics Teacher Practice and Student Learning thru Professional Development*.

**Principal Investigator**: *Item Analysis and Revision Protocol Development: A Case Study*, Washington D.C., AAAS (2001-02).

**Principal Investigator**: *Developing Action Researchers in Undergraduate Education Majors* (2001-03).

**Principal Investigator**: *Comparing the Mathematical Problem Solving of Elementary Students Based on Teacher’s Beliefs and Practices* (2000). Dissertation.

Community Activities

Science Fair Judge – Harmony School (November, 2009, 2010, 2011)

March of Dimes Supporter (2005-2008)

Science Fair Judge – iSWEEEP – Houston (April, 2008, 2010,2011)

American Heart Association Brazos Supporter (2001-2002)

Friend of St. Joseph’s Hospital – Brazos Bash Committee (2001-2002)

Doral Ryder Open, American Cancer Society (1980-1998)

Celebrity Bagger, American Cancer Society (1997-1999)

Coconut Grove Arts Festival, (1997-1999)

Blood Drive Organizer, Humanities Committee–St. Louis Catholic Church (1997-99)

Handbell and Choir member, St. Louis Catholic Church (1985-1999)

Service

* University-wide Who’s Who in American Colleges and Universities Selection Committee (2011)
* Graduation speaker at Navarro Elementary in Bryan, Texas (May, 2011)
* College Technology Committee (2010-11) participated in setting up the CEHD technology conference
* NCES Algebra 9th Grade Study NSF Evaluation Panel – Washington, DC (2010-11)
* Board Member – Institute of Interfaith Dialog Raindrop Center (2010-11)
* Judge of Interfaith Bryan & College Station Poster Contest (2010)
* Hosting Committee- Interfaith Dialog Dinner (2010-11)
* Membership Committee – School Science and Mathematics Organization (2009-11)
* Editor’s Roundtable Meeting – Sam Houston State University (2010)
* President Elect, President, Past President, - Southwest Educational Research Association (2008-11- 3 year commitment)

Capraro, Capraro, Gonzalez, & Thompson CEHD Research Conference (2009 – present) – yearly

Search Committee - College Level – Research Development Officer (Fall, 2010)

Judge for i-SWEEEP – 4 day international science fair, Houston, TX (2007-10)

Hosting Committee of Islamic Dialog & Friendship Dinner (2010)

College Montague Award Selection Committee (2010)

Teaching and planning for STEM Energize Summer Camp (2 weeks) held at TAMU (June, 2010)

Professional Development STEM PBL Workshops for Science and Mathematics Teachers in Waco, TX ISD – 10 days (2007-08, 2008-09, 2009-10).

Professional Development STEM PBL Workshops for Science Teachers in Hearne, TX ISD – 8 days (2009-10).

Professional Development Workshops STEM PBL for Science and Mathematics Teachers in Dallas, TX ISD – 10 days (2007-08, 2008-09, 2009-10).

CCRIFC (Mathematics College and Career Readiness Faculty Collaborative)

Mathematics Collaborative Advisory Board (2008-10).

Faculty Search Committee – Department of Educational Psychology (2009).

Will Ferrell Scholarship Committee Chair – goal Rudder Scholarship $50,000, reached over the goal - $52,000 – endowed scholarship.

Student Research Week Out-of-Field Judge (2001 – 2003, 2005, 2010).

Educational Research Exchange Outstanding Paper Committee (2002 & 03).

Department Faculty Search Committee Mathematics Education (2002).

Field-Based School (Bryan & College Station) Involvement (2000-2005).

Board of Directors, Member at Large, Southwest Educational Research Association (2002-2004; 2004-06 – elected 2 terms).

* Teaching to the Education Standards: Math TEKS Connection. (2007, May). 175 elementary, middle, and secondary teacher educators from 40 different universities participated in a three-day workshop to examine electronic resources developed by the MTC team.
* Teacher Summit. 312 secondary teachers attended two-day workshop to learn to apply research to classroom teaching and learning (2008, January).
* Summer Teacher Institute. 106 middle and secondary teachers participated in “best practice” teaching lessons with a focus on PBL using engineering design (2008, June).

Training of Trainers. 15 middle and secondary teachers developed expertise and presentation skills on Project Based Learning, SmartBoards, Navigator, Vernier Probes (2008, June).

National Teacher Education Preparation Blue Ribbon Committee Organization, Equipment, and Supplies for Artifact Displays Campus Tour – Mitchell Elementary (2000-01).

Technology Team for Elementary Advisory Council Member (2001).

Awards Received

College nominee for the Outreach AFS Award (2010)

Finalist Fall 2009 for University-wide SLATE Undergraduate Teaching Award

Montague-CTE Scholar: Teaching Award for College of Education (one of eight university-wide), 2008

Outstanding Reviewer-American Education Research Association, *Educational Researcher*, 2006

Appointed to Full Graduate Faculty Status, Texas A & M, 2004

Appointed to the Regent’s Initiative for Excellence in Education’s Academy for Educator Development: Regent’s Fellow, 2002

Assistant Principal of the Year. Region 1, Miami Dade County, 1998

Math Administrator of the Year, Miami Dade County, 1996

Teacher of the Year, Sylvania Heights Elementary, Miami, 1986

Who’s Who in American Colleges and Universities, 1972

Graduate Committees

## PhD

Murray Cox (Co-Chair- Graduate Summer 2010)

Michael Muzheve (Member – Graduated Fall 2008)

Diana Piccolo (Member – Graduated Spring 2008)

Alpaslan Shahin (Member- Graduated Fall 2007)

Shirley Matteson (Member - Graduated Summer 2007)

Meixia Ding (Member - Graduated Summer 2007)

Judy Taylor (Member - Graduated Fall 2006)

Linda R. Zientek (Member- Graduated Spring 2006)

Tau Gamba Kadhi (Member - Graduated Summer 2005)

Adam Harbaugh (Co-Chair- Graduated Summer 2005)

Sun Ye (Member- Graduated Summer 2005)

## MS-Thesis option

Katherine Vela (Chair – Graduated Fall 2011)

Nikeitha Brown (Chair – Graduated Fall 2011)

Linda Stearns (Co-Chair – Graduated Spring 2010)

Krystal Meredith (Co-Chair – Graduated Spring 2008)

Elizabeth Matthiesen (Member- Graduated Spring 2006)

April Gilbert (Member- Graduated Spring 2006)

Heather Louder (Member- Graduated Fall 2005)

Emilie Naiser (Member- Graduated Fall 2004)

## Med – Non-thesis option

Tamala Willis (Chair – Graduated Summer 2010)

Molly Elizabeth McCarty (Chair – Graduated Summer 2010)

April Moon (Co-Chair – Graduated Fall 2009)

Kristina Anthony (Chair - Graduated Summer 2009)

Rebecca Rowntree (Chair - Graduated Summer 2009)

Kelly Kilgore (Chair - Graduated Summer 2009)

Cheryl Augustine (Member - Graduated Spring 2009)

Kimberly Murawski (Chair - Graduated Spring 2009)

Wendee Jones (Member- Graduated Fall 2008)

Danielle Kotara (Chair - Graduated Summer 2008)

Stephanie Fisseler (Chair - Graduated Summer 2008)

Nicole Bowden (Chair - Graduated Summer 2008)

Karla Mendoza (Co-Chair - Graduated, Summer 2008)

Charles Phillips (Chair - Graduated Spring 2008

Joshua McDonald (Co-Chair - Graduated Spring 2008)

Andrea Pearson (Member- Graduated Fall 2007)

Rachel Hemsley (Member – Graduated Summer 2005)

Wendy Wright (Co-Chair Graduated Summer 2004)

Heather Muller (Co-Chair - Graduated Summer 2004)

Amber Senter (Co-Chair - Graduated Summer 2004)

Laura Sebesta (Member- Graduated Summer 2004)

Robyn Bassett (Member- Graduated Summer 2003)

Allison Decker (Co-Chair - Graduated Summer 2002)

Kelly Kelly (Co-Chair - Graduated Summer 2002)

Teaching Addendum

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Term** | **Course #** | **Title** | **# of Students** | **Evaluation Average** |
| 04A | MEFB 460 | Middle School Mathematics Methods | 12 | 4.75 |
| 04B | TEED 649 | Post Bac Secondary Mathematics Methods | 2 | 5.00 |
| 04C | ECFB 440 | Elementary Mathematics Methods | 22 | 4.54 |
| 04C | ECFB 420 | Elementary Science Methods | 22 | 4.62 |
| 04C | EDCI 685 | Independent Study | 1 | 5.00 |
| 04C | EDCI 684 | Professional Internship | 5 |  |
| 05A | ECFB 440 | Elementary Mathematics Methods | 29 | 4.74 |
| 05B | ECFB 420 | Elementary Science Methods | 29 | 4.73 |
| 05B | EDCI 684 | Professional Internship | 4 |  |
| 05B | TEED 649 | Post Bac Secondary Mathematics Methods | 4 | 5.00 |
| 05C | ECFB 440 | Elementary Mathematics Methods | 36 | 4.80 |
| 05C | ECFB 420 | Elementary Science Methods | 36 | 4.70 |
| 05C | MASC 351\* | Problem Solving in Mathematics | 29 | 4.30 |
| 06A | ECFB 440 | Elementary Mathematics Methods | 36 | 4.90 |
| 06A | ECFB 420 | Elementary Science Methods | 36 | 4.90 |
| 06A | MASC 351\* | Problem Solving in Mathematics | 13 | 4.40 |
| 06B | MEFB 351^ | Introduction to Middle School and the Adolescent (online) | 14 | 3.82 |
| 06C | ECFB 440 | Elementary Mathematics Methods | 40 | 4.75 |
| 06C | MASC 351\* | Problem Solving in Mathematics | 25 | 4.48 |
| 06C | MASC 351\* | Problem Solving in Mathematics | 23 | 4.18 |
| 07A | ECFB 440 | Elementary Mathematics Methods | 41 | 4.40 |
| 07A | ECFB 440 | Elementary Mathematics Methods | 39 | 4.36 |
| 07A | MASC 351 | Problem Solving in Mathematics | 15 | 4.71 |
| 07B | EDCI 673^ | Analysis of Teaching Behavior (online) | 27 | 4.43 |
| 07C | ECFB 440 | Elementary Mathematics Methods | 43 | 4.54 |
| 07C | EDCI 623 | Teaching and Learning Pattern and Change Concepts  | 13 | 4.91 |
| 08A | EDCI 624 | Assessing Cognitive Structures Related to Learning and Teaching Mathematics | 11 | 4.62 |
| 08B | EDCI 673^ | Analysis of Teaching Behavior (online) | 21 | 4.20 |
| 08C | MASC 351\* | Problem Solving in Mathematics | 63(2 sections) | 4.414.51 |
| 09B | EDCI 673^ | Analysis of Teaching Behavior (online) | 23 | 3.66 |
| 09C | MASC 351\* | Problem Solving in Mathematics | 57(2 sections)  | 4.31 |
| 10C | EDCI 619\* | Research in Number & Operations | 10 | 4.82 |
| 10C | EDCI 689^ | STEM Teaching & Learning | 9 | 4.65 |
| 11B | MASC 351 | Problem Solving in Mathematics | 6 | Study Abroad |
| 11C | EDCI 617\* | Early Childhood Mathematics | 19 | 4.89 |
| 12A | EDCI 689^ | STEM Teaching & Learning | 18 |  |

Average for undergraduate courses: 4.58

Average for graduate courses: 4.53

^Average for online courses: 4.01

\*Average for hybrid courses: 4.42

Average for “I believe the instructor was an effective teacher”: 4.37(G) & 4.48 (U)

Average for “I received timely informative feedback on the course assessments”: 4.51 (G) & 4.72 (U)

Average for “I developed deeper insights and understanding about course material”: 4.21 (G) & 4.54 (U)

Current Student Committees

|  |  |  |
| --- | --- | --- |
| **Chair/CoChair** | **Member**  | **Doctoral/ Masters/ Masters Thesis** |
| Rosalinda Rosali (chair) | Christopher Romero | D |
| Alma F. Rangel Chavez (Cochair) | Song An | D |
| Jon Maxwell (chair) | Andrzej Sokolowski | D |
| Anna Pat Alpert (chair) | Sandra Nite | D |
| Lea Ellen Burch (Cochair) | Latoya Anderson | D |
| Antonio Carranza (Cochair) | Tarcia Jones | D |
| Meredith Jones (Cochair) | SunYoung Han | D |
|  | Bilgin Naruz (MS-EPSY) | MS (thesis) |
| Jennifer Easterling (chair- MEd) | JinHee Lee (MS) | MEd |
| Irem Akcakaya (chair -MEd) | Ali Bicer (Med) | MEd |
|  |  |  |
|  |  |  |