

Curriculum Vitae

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EDUCATIONAL EXPERIENCE

University of Southern Mississippi Hattiesburg, Mississippi	Ph. D., 2000
University of Miami Coral Gables, Florida	Ed. S., 1993
University of Miami Coral Gables, Florida	M. S. 1991
Saint Thomas University Opa-Locka, Florida	B. S. Ed., 1987

PROFESSIONAL EXPERIENCE

Sept. 2010 – Present	Professor of Mathematics Education, Texas A&M University
December 2007-2008	Assistant Department Head, Research Mentoring, Teaching Learning and Culture
September 2007 – 2010	Associate Professor of Mathematics Education, Texas A&M University
August 2000 - 2007	Assistant Professor of Mathematics Education, Texas A&M University
Sept. 1999-2000	Graduate Teaching Assistant, University of Southern Mississippi
Jan.-1996- 1999	Region I Operations Technology & Curriculum, Miami-Dade County Public Schools.
Jan. 1995-1996	District Office Division of Urban Systemic Initiative, Mathematics/ Science.
1994-1997	Adjunct Professor, Mathematics Education, Florida International University

RESEARCH INTERESTS

My research interests are best described as the practical application of helping students, teachers, and researchers make better sense of the issues related to mathematical learning and encouraging dialog about quantitative methods. I am interested in the representational models that help middle grades students make sense of mathematics and how these representations, verbal, kinesthetic, written, or abstract function to facilitate broader and deeper mathematical understandings as students' progress to increasingly more abstract mathematical ideas.

ADVANCED TRAINING AND PREPARATION

2014	Research Synthesis and Meta-Analysis , American Educational Research Association, Philadelphia, PA. Workshop presented by Terri Piggot, Joshua Polanin, Ryan Williams.
2013	Introduction to MKT Training , American Educational Research Association, San Francisco, CA. Workshop presented by Heather Hill and Geoffrey Phelps.
2013	Quality Matters Training - Online Course Development and Delivery. College Station, TX. Workshop presented by Ms. Rene Mercer.
2012	Propensity Score Matching using R. American Educational Research Association, Vancouver, CA. Workshop presented by Drs. Haiyan Bai, Wei Pan, and Ning Rui.
2010	Multilevel SEM . College of Education-TAMU, Workshop presented by Dr. Ehri Ryu Boston College
2007	Mixed Methods Data Analysis . Southwest Educational Research Association presented by Anthony Onwuegbuzi and John Slate.

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

PUBLICATIONS

Peer Reviewed Journal Publications

1. *Nite, S. B., Capraro, M. M., **Capraro, R. M.**, & Bicer, A. (2017, in press). Explicating the characteristics of STEM teaching and learning: A meta-synthesis. *International Journal of STEM Teacher Education*.
2. Sahin, A., Willson, V. Top, N., & **Capraro, R. M.**, (2017, In Press). Charter school system performance: How does student achievement compare? *International Journal of Educational Reform*, 26(2) XX-XX.
3. **Capraro, R. M.**, Barroso, L. R., Nite, S., Rice, D., Lincoln, Y. S., Young, J., & Young, J. (2017, In Press). Developing a useful and integrative STEM disciplinary language. *International Journal of Education in Mathematics, Science and Technology*, XX(XX), 1-12. DOI: 10.18404/ijemst.31232
4. Barroso, L. R., Bicer, A., Capraro, M. M., Capraro, R. M., Foran, A., Grant, M. L., Lincoln, Y. S., Nite, S. B., Oner, A. T., & Rice, D. (ABC order) (2017 In press). Run! Spot. Run! - Vocabulary development and the evolution of STEM disciplinary language for secondary teachers. Accepted for publication to *Zentralblatt für Didaktik der Mathematik (ZDM)*
5. Öner, A. T., Nite, S. B., Capraro, R. M., & Capraro, M. M. (2016). From STEM to STEAM: Students' beliefs about the use of their creativity. *The STEAM Journal*, 2(2), Article 6. DOI: 10.5642/steam.20160202.06
6. *Godwin, A. J., Capraro, M. M., Rupley, W. H., & **Capraro, R. M.** (2016, In Press). Meta-synthesis of factors that contribute to a child's initial communication development and previously identified effects of reading mathematics storybooks to toddlers and preschoolers. *Child Development Research*
7. *Oner, A. T., & **Capraro, R. M.** (2016). Is STEM academy designation synonymous with higher student achievement? *Eğitim ve Bilim-Education and Science*, 41(185), 1-17. doi: 10.15390/EB.2016.3397. (254 impact factor – Thompson's)
8. *Oner, A. T., & Capraro, M. M., & **Capraro, R. M.** (2016). The effect of T-STEM designation on charter schools: Longitudinal examination. *Sakarya University Journal of Education*, 6(2),80-96. doi:10.19126/suje.17778

9. *Han, S., **Capraro, R. M.**, Capraro, M. M. (2016). How science, technology, engineering, and mathematics project based learning affects high-need students in the U.S. *Learning and Individual Differences*, 51, 157-166. (1.631 impact factor Thompsons)
10. *Han, S., Rosli, R., Capraro, M. M., & **Capraro, R. M.** (2016). The effect of science technology, engineering and mathematics (STEM) project based learning (PBL) on students' achievement in four mathematics topics. *Journal of Turkish Science Education*, 13, 3-29. doi: 10.12973/tused.10168a (.202 impact factor SCOPUS.com)
11. *Erdogan, N., Navruz, B., Younes, R., & **Capraro, R. M.** (2016). Viewing how STEM PBL influences student's science learning through the implementation lens: Latent growth modeling. *Eurasia Journal of Mathematics, Science and Technology Education*, 12(8), 2139-2154. DOI:10.12973/Eurasia.2016.1294a (1.016 impact factor Thompsons)
12. *Rosli, R., Goldsby, D., Onwuegbuzie, A. J., Capraro, M. M., & **Capraro, R. M.** (2016, In press). Utilizing multiple tasks in assessing elementary preservice teachers' knowledge, perceptions and attitudes towards fractions. *Eurasia Journal of Mathematics, Science and Technology Education* XX(XX), XXX-XXX. (1.016 impact factor Thompsons)
13. ***Capraro, R. M.**, Capraro, M. M., Morgan, J., Scheurich, J., Jones, M., Huggins, K., Corlu, S. M., Han, S. Y., & Younes, R. (2016). Impact of sustained professional development in STEM on outcome measures in a diverse urban district. *The Journal of Educational Research*, 109(2), 181-196. <http://dx.doi.org/10.1080/00220671.2014.936997> (1.218 Impact Factor - Thompsons)
14. **Capraro, R. M.**, Capraro, M. M., Barroso, L. R., & Morgan, J. R. (2016). Through biodiversity and multiplicative principles Turkish students transform the culture of STEM education. *International Journal of Education in Mathematics, Science and Technology*, 4(1), 1-8
15. *Godwin, A., Rupley, W., **Capraro, R. M.**, & Capraro, M. M. (2016). Reading and mathematics bound together: Creating a home environment for preschool learning. *Journal of Education and Learning*, 5(1), 44-59. doi: <http://dx.doi.org/10.5539/jel.v5n1p44>
16. *Sahin, A., Oren, M., Willson, V., Hubert, T., & **Capraro, R. M.** (2015). Longitudinal analysis of T-STEM academies: How do Texas inclusive STEM academies (T-STEM) perform in mathematics, science, and reading? *International Online Journal of Educational Sciences*, 7(4), 1-10. Retrieved from http://www.iojes.net/userfiles/Article/IOJES_1692.pdf
17. *Oner, A.T., Navruz, B., & **Capraro, R.M.** (2015). Developing a macroscopic lens into middle school reform: Psychometric properties of the AMLE SIA. *International Journal of Contemporary Educational Research*, 2(2), 89-103.
18. *Bicer, A., Boedeker, P., **Capraro, R. M.**, & Capraro, M. M. (2015). The effects of STEM PBL on students' mathematical and scientific vocabulary knowledge. *International Journal of Contemporary Educational Research*, 2(2), 69-75.
19. *Helfeldt, J., Capraro, M. M., **Capraro, R. M.**, & Scott, C. (2015). Full-time teaching internships: A public school-university partnership designed to increase teacher retention in urban area schools. *Journal of Education and Human Development*. 4(2(1)), 1-15. DOI: 10.15640/10.15640/jehd.v4n2_1a1
20. *Navruz, B., **Capraro, R. M.**, Bicer, A., & Capraro, M. M. (2015). A review of higher-order factor analysis interpretation strategies. *Journal of Measurement and Evaluation in Education and Psychology*, 6(1), 72-94.
21. *Bicer, A., Navruz, B., **Capraro, R. M.**, Capraro, M. M., Oner, T. A., & Boedeker, P. (2015). STEM schools vs. non-STEM schools: Comparing students' mathematics growth rate on

- high-stakes test performance. *International Journal on New Trends in Education and Their Implications*, 6(1), 138-150.
22. *Corlu, M. S., **Capraro, R. M.**, & Çorlu, M. A. (2015). Investigating the mental readiness of pre-service teachers for integrated teaching. *International Online Journal of Educational Sciences*, 7(1), 17-28.
 23. *Cetin, S. C., Corlu, M. S., Capraro, M. M., & **Capraro, R. M.** (2015). A longitudinal study of the relationship between mathematics and science: The case of Texas. *International Journal of Contemporary Educational Research*, 2(1), 13-21.
 24. Booth, E. A., Capraro, M. M., **Capraro, R. M.**, Chaudhuri, N., Dyer, J., & Marchbanks, M. P. (2015). Innovative developmental education programs: A Texas model. *Journal of Developmental Education*, 36, 2-10, 18.
 25. *Han, S., Yalvac, B., Capraro, M. M., & **Capraro, R. M.** (2015). In-service teachers' implementation and understanding of STEM project based learning. *EURASIA Journal of Mathematics, Science and Technology Education*, 11(1), 63-76. (1.016 impact factor Thompsons)
 26. *Rosli, R., Capraro, M. M., & **Capraro, R. M.** (2014). The effects of problem posing on student mathematical learning: A meta-analysis. *International Education Studies*, 7(13), 227-241. (.131 impact factor SCOPUS.com)
 27. *Oner, A. T., Navruz, B., Bicer, A., Peterson, C. A., **Capraro, R. M.**, & Capraro, M. M. (2014). T-STEM academies' academic performance examination by education service centers: A longitudinal study. *Turkish Journal of Education*, 3(4), 40-51.
 28. *Navruz, B., Erdogan, N., Bicer, A., **Capraro, R. M.**, & Capraro, M. M. (2014). Would a STEM school 'by any other name smell as sweet'? *International Journal of Contemporary Educational Research*, 1(2), 67-75.
 29. *Bicer, A., **Capraro, R. M.**, & Capraro, M. M. (2014). Pre-service teachers' linear and quadratic inequalities understandings. *International Journal for Mathematics Teaching and Learning*. Retrieved from <http://www.cimt.plymouth.ac.uk/journal/>
 30. *Bicer, A., Capraro, M. M., & **Capraro, R. M.** (2014). Integrating writing into mathematics classroom as one communication factor. *The Online Journal of New Horizons in Education*, 4(2), 58-67.
 31. *Bicer, A., *Navruz, B., **Capraro, R. M.**, & Capraro, M. M. (2014). STEM schools vs. non-STEM schools: Comparing students' mathematics state based test performance. *International Journal of Global Education*, 3(3), 8-18.
 32. *Corlu, M. S., **Capraro, R. M.**, & Capraro, M. M. (2014). Introducing STEM education: Implications for educating our teachers in an age of innovation. *Egitim ve Bilim-Education and Science*, 39(171), 74-85. (.254 impact factor – Thompson's)
 33. *Han, S. Y., **Capraro, R. M.**, & Capraro, M. M. (2014). How science, technology, engineering, and mathematics (STEM) project based learning (PBL) affects high, middle, and low achievers differently: The impact of student factors on achievement. *International Journal of Science and Mathematics Education*, 1-25. (1.104 Impact Factor- SCOPUS)
 34. *Capraro, M. M., **Capraro, R. M.**, & Jones, M. (2014). Numeracy and algebra: A path to full participation in community and society? *Reading Psychology*, 35(5), 422-436. (.389 impact factor – SCOPUS)
 35. **Capraro R. M.**, & Han, S. (2014). STEM: The education frontier to meet 21st century challenges. *Middle Grades Research Journal*, 9(3), XV-XVIII.
 36. Rosli, R., Han, S., **Capraro, R. M.**, & Capraro, M. M. (2013). Exploring preservice teachers' computational and representational knowledge of content and teaching fractions.

Journal of the Korean Society of Mathematical Education Series D: Research in Mathematical Education, 17(4), 221-241.

37. *Bicer, A., **Capraro, R. M.**, & Capraro, M. M. (2013). The Journey of a middle school student: Explorations of mathematics private tutoring in school life. *Sakarya University Journal of Education*, 3(3), 123-136.
38. Bicer, A., **Capraro, R. M.**, & Capraro, M. M. (2013). Integrating writing into mathematics classroom to increase students' problem solving skills. *International Online Journal of Educational Science*, 5(2), 361-369.
39. Erdogan, N., Corlu, M. S., & **Capraro, R. M.** (2013). Defining innovation literacy: Do robotics programs help students develop innovation literacy skills? *International Online Journal of Educational Sciences*, 5(1), 1-9.
40. *Bicer, A., Capraro, M. M., & **Capraro, R. M.** (2013). The effects of parent's SES and education level on students' mathematics achievement: Examining the mediation effects of parental expectations and parental communication. *The Online journal of New Horizons in Education*, 3(4), 89-97.
41. Sahin, A., *Erdogan, N., Morgan, J., Capraro, M. M., & **Capraro, R. M.** (2012). The effects of high school course taking and SAT scores on college major selection. *Sakarya University Journal of Education*, 2(3), 96-109.
42. ***Capraro, R. M.**, Capraro, M. M., Younes, R., Han, S. Y., & Garner, K. (2012). Changes in equality problem types across four decades in four second and sixth grade textbook series. *Journal of Mathematics Education*, 5, 166-189.
43. Ding, M., Li, X., Capraro, M. M., & **Capraro, R. M.** (2012). Supporting meaningful initial learning of the associative property: Cross-cultural differences in textbook presentations. *International Journal for Studies in Mathematics Education/ Jornal Internacional de Estudos em Educação Matemática*, 5, 114-130.
44. *Stearns, L. M., Morgan, J., Capraro, M. M., & **Capraro, R. M.** (2012). The development of a teacher observation instrument for PBL classroom instruction. *Journal of STEM Education: Innovations and Research*, 13(3), 25-34.
45. **Matteson, S., Capraro, M. M., **Capraro, R. M.**, & Lincoln, Y. S. (2012). Extricating justification scheme theory in middle school mathematical problem solving. *Investigations in Mathematics Learning*, 5(1), 38-62.
46. Capraro, M. M., **Capraro, R. M.**, & Cifarelli, V. (2012). Open-ended problem solving tasks for pre-service middle-grades teachers that elicit mathematical reasoning. *International Journal of University Teaching and Faculty Development*, 2(2), 99-120.
47. **Adiguzel, T., **Capraro, R. M.**, & Willson, V. L. (2011). An examination of teacher acceptance of handheld computers. *International Journal of Special Education*, 26(3), 12-27.
48. Rupley, W. H., **Capraro, R. M.**, & Capraro, M. M. (2011). Theorizing an integration of reading and mathematics: Solving mathematical word problems in the elementary grades. *Mind, Brain, and Education: Learning Landscapes*, 5, 227-250.
49. **Capraro, R. M.**, Roe, M. F., Caskey, M. M., Strahan, D., Bishop, P.A., Weiss, C. C., & Swanson, K. W. (2011). Research summary: Assessment. Retrieved from <http://www.nmsa.org/Research/ResearchSummaries/>
50. **Muzheve, M. T., & **Capraro, R. M.** (2011). An exploration of the role natural language and idiosyncratic representations in teaching how to convert among fractions, decimals, and percents. *Journal of Mathematical Behavior*, 31(1), 1-14.
doi:10.1016/j.jmathb.2011.08.002. (.776 Impact Factor - SCOPUS).
51. *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 Korean*

Society of Mathematics Education Series D: Research in Mathematical Education, 15(2), 127-140.

52. **Capraro, R. M.**, Capraro, M. M., & Rupley, W. H. (2011). Reading-enhanced word problem solving (REPS): A theoretical model. *European Journal of Psychology of Education*, 27(1), 91-114. DOI: 10.1007/s10212-011-0068-3 (1.008 impact factor Thompsons)
53. ***Capraro, R. M.**, Capraro, M. M., Yetkiner, Z. E., Corlu, M. S., Özel, S., Ye, S., & Kim, H. G. (2011). An international perspective on students' understanding of the equal sign. *Mediterranean Journal for Research in Mathematics Education: An International Journal*, 10, 187-213.
54. *Corlu, M. S., **Capraro, R. M.**, & Corlu, M. A. (2011). Developing algorithmic computations with the help of science: A Turkish middle and high grades study. *Turkish Online Journal of Educational Technology*, 10(2), 72-81. (.956 impact factor - Thompsons)
55. *Zientek, L. R., Carter, T. A., Taylor, J. M., **Capraro, R. M.** (2011). Preparing prospective teachers: An examination of attitudes toward statistics. *The Journal of Mathematical Sciences and Mathematics Education*, 5, 25-38.
56. **Piccolo, D., **Capraro, R. M.**, & Capraro, M. M. (2011). Student teachers' general and content-specific pedagogical development within a mathematics milieu. *Middle Grades Research Journal*, 5(4), 169-183.
57. **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.
58. *Capraro, M. M., **Capraro, R. M.**, Carter, T. A., & Harbaugh, A. (2010). Questioning, curiosity, and representing: What makes a difference mathematically? *Research in Middle Level Education Online*, 34(4), 1-19.
59. *Corlu, M. S., Burlbaw, L. M., **Capraro, R. M.**, Corlu, M. A., & Han, S. (2010). The Ottoman Palace School Enderun and the man with multiple talents, Matrakçı Nasuh. *Journal of the Korea Society of Mathematical Education Series D: Research in Mathematical Education*. 14(1), 19-31.
60. ***Capraro, R. M.**, Capraro, M. M., Yetkiner, Z. E., Özel, S., Kim, H. G., & Küçük, A. R. (2010). An international comparison of the equal sign: An update. *Psychological Reports*, 106(1), 49-53. (.560 impact factor- Thompsons)
61. *Capraro, M. M., **Capraro, R. M.**, Yetkiner, Z. E., Rangel-Chavez, A. F., & Lewis, C. W. (2010). Examining Hispanic-students mathematics performance on high-stakes tests: An examination of one urban school district in Colorado. *The Urban Review*, 42(3), 193-209. (.292 Impact Factor - SCOPUS)
62. **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.
63. 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.
64. ***Capraro, R. M.**, Burlbaw, L. M., & Zientek, L. R. (2009). Content and pedagogical knowledge in Colorado teachers, mathematics exams at the turn of the 20th century. *Curriculum History*. 158-174.
65. *Young, J. R., Woods, M., Yetkiner, Z. E., Lewis, C. W., & **Capraro, R. M.** (2009). An examination of mathematics achievement and growth in a midwestern urban school district: Implications for teachers and administrators. *Journal of Urban Mathematics Education*, 2(2), 46-65. (The correct authorship order for this article is reflected here and not what is in print)

66. **Capraro, R. M.**, & Capraro, M. M. (2009). Quantitative reporting practices in middle-grades research journals: Lessons to learn. *Middle Grades Research Journal*, 4, 1-10.
67. Denton, J. J., Davis, T. J., **Capraro, R. M.**, Smith, B. L., Beason, L., Graham, D., & Strader, R. A. (2009). Examination of applicant profiles for admission into and completion of an online secondary teacher certification program. *Educational Technology & Society*, 12(1), 214-229. (1.018 Impact Factor - Thompsons)
68. Helfeldt, J., **Capraro, R. M.**, Capraro, M. M. Foster, E., & Carter, N. (2009). An urban schools -university partnership that prepares and retains quality teachers for "high need" schools. *The Teacher Educator*, 44, 1-20.
69. *Piccolo, D. L., Carter, T. A., Harbaugh, A. P., Capraro, M. M., & **Capraro, R. M.** (2008). Quality of instruction: Examining discourse in middle school mathematics instruction. *Journal of Advanced Academics*, 19, 376-410.
70. *Zientek, L. R., 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. (3.049 Impact Factor - Thompsons)
71. *Özel, S., Yetkiner, Z. E., & **Capraro, R. M.** (2008). Technology in K-12 mathematics classrooms. *School Science and Mathematics*, 108, 80-85.
72. *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. (2.000 Impact Factor -Thompsons)
73. **Capraro, R. M.**, & Thompson, B. (2008). The educational researcher defined: What will future researchers be trained to do? *The Journal of Educational Research*, 101, 247-253. (1.218 Impact Factor - Thompsons)
74. *Yetkiner, Z. E., Anderoglu, H. Y., & **Capraro, R. M.** (2008). *Research summary: Project-based learning in mathematics*. Retrieved January 2, 2008, from <http://www.nmsa.org/Research/ResearchSummaries/ProjectBasedLearninginMath/tabid/1570/Default.aspx>
75. ***Capraro, R. M.**, Capraro, M. M., Ding, M., & Li, X. (2007). Thirty years of research: Current interpretations of the equal sign. *Psychological Reports*, 101, 784-786. (.560 Impact Factor - Thompsons)
76. **Capraro, R. M.**, & Capraro, M. M. (2007). Pedagogy and curriculum: Antithetical constructs or a nexus in mathematics education? *Journal of Curriculum & Pedagogy*, 4(1), 34-39.
77. *Capraro, M. M., Ding, M., Matteson, S., **Capraro, R. M.**, & Li, X. (2007). Representational implications for understanding equivalence. *School Science and Mathematics*, 107, 86-88.
78. Kulm, G., **Capraro, R. M.**, & Capraro, M. M. (2007). Teaching and learning middle grades mathematics with understanding. *Middle Grades Research Journal*, 2, 23-48.
79. Beal, G., Sulentic, M. M., & **Capraro, R. M.** (2006). How do literacy experiences affect the teaching propensities of elementary pre-service teachers? *Reading Psychology*, 27, 235-255. (.389 impact factor SCOPUS)
80. **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. (.389 impact factor SCOPUS)
81. **Carter, T. A., & **Capraro, R. M.** (2005). Stochastic misconceptions of pre-service teachers. *Academic Exchange Quarterly*, 9(3), 105-111.
82. *Zientek, L. R., Kadhi, T., & **Capraro, R. M.** (2005). Analysis of the literature on alternative certification programs. *Academic Exchange Quarterly*, 9(3), 121-125.

83. **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. (.246 Impact Factor - SCOPUS)
84. Capraro, M. M., Kulm, G., & **Capraro, R. M.** (2005). Middle grades: Misconceptions in statistical thinking. *School Science and Mathematics Journal*, 105, 165-174.
85. 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.
86. *Naiser, E. A., Wright, W. E., & **Capraro, R. M.** (2004). Teaching fractions: Strategies used for teaching fractions to middle grades students. *Journal of Research in Childhood Education*, 18, 193-198. (.246 Impact Factor - SCOPUS)
87. **Capraro, R. M.** (2004). Statistical significance, effect size reporting, and confidence intervals: Best reporting strategies. *Journal for Research in Mathematics Education*, 35, 57-62. (2.019 Impact Factor - SCOPUS)
88. Capraro, M. M., & **Capraro, R. M.** (2003). Exploring the APA 5th Edition Publication Manual's impact on the analytic preferences of journal editorial board members. *Educational and Psychological Measurement*, 63, 554-565. (1.167 Impact Factor - Thompsons)
89. **Capraro, R. M.**, & Capraro, M. M. (2002). Treatments of effect sizes and statistical significance tests in textbooks. *Educational and Psychological Measurement*, 62, 771-782. (1.167 Impact Factor- Thompsons)
90. **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. (1.167 Impact Factor- Thompsons)
91. 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. (1.167 Impact Factor- Thompsons)
92. 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, 24-33.
93. **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, 16-23.
94. *David, H. L., & **Capraro, R. M.** (2001). Strategies for teaching in heterogeneous environments while building a classroom community. *Education*, 122, 80-86.
 * indicates a publication with a student under my direction
 ** indicates a publication from a student's dissertation
 Cumulative Social Science Citation Index = Impact Factor 15.490, (July, 2011)
 Impact Factors for journals as of 2014

Peer Reviewed Conference Proceedings

95. Bicer, A., Nite, S. B., Capraro, R. M., Barroso, L. R., Capraro, M. M., & Froyd, J. (2016, October). Informal STEM camp influences on engineering confidence. Proceedings of the 2016 IEEE Frontiers in Education Conference: The Crossroads of Engineering and Business. Erie, PA.
96. Nite, S. B., Allen, G. D., Morgan, J., & Bicer, A., & Capraro, R. M. (2016, June). Engineering calculus bridge program success: Comparing program variation results. Proceedings of the 123rd American Society for Engineering Education Annual Conference and Exposition. New Orleans, LA.

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- Educational Media and Technology 2015* (pp. 1024-1029). Association for the Advancement of Computing in Education (AACE). Montreal, Quebec, Canada.
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 110. Capraro, M. M., **Capraro, R. M.**, Nite, S., Morgan, J. R., & Peterson, C. A. (2014, November). Does inclusion of the arts in STEM project-based learning increase motivation for learning for urban students in informal settings? *Proceedings of the 1st Biennial International Conference on Urban Education*, Montego Bay, Jamaica.
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 114. Morgan, J., Capraro, R. M., & Capraro, M. M. (2012, August). Science, technology, engineering and mathematics (STEM) education: Methods to improve PSAT scores using a STEM focus. *Proceedings of the International Conference on Engineering Education (ICEE-2012)*, Turku, Finland.
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122. *Özel, S., Capraro, R. M., & Yetkiner, Z. E. (2008). A technology intervention using multiple representations on mathematics. *Proceedings of the 11th meeting of the International Congress on Mathematical Education*. Monterrey, Mexico.
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Books & Book Chapters

1. Capraro, R. M., Burlbaw, L. M., Zientek, L. R. (2016). Content and pedagogical knowledge in Colorado teachers' mathematics exams at the turn of the 20th century. In L. M. Burlbaw & D. Morowski (Eds.), *Reflections on People, Policy, and Practices in Curriculum History*
2. Kopparla, M., & Capraro, R. M. (2016, In press). The brilliance of Black children in mathematics beyond the numbers and toward new discourses. *Book Review in Teachers College Record*,
3. Bicer, A., Nite, S. B., Capraro, R. M., & Capraro, M. M. (2016, in press). Assessment Techniques in Mathematics: A Literature Review. In R. V. Nata (Ed), *Progress in Education*, Volume 39 (270-288). Haulage, New York: Nova Science Publishers.
4. Capraro, M. M., Whitfield, J. G., Etchells, M. J., & Capraro, R. M. (Eds.). (2016). *A companion to interdisciplinary STEM project-based learning: For teachers by teachers* (2nd edition). Rotterdam, The Netherlands: Sense
5. Capraro, R. M., & Navruz, B. (2015). Time series in educational research. In G. Ritzer (Ed.), *Blackwell encyclopedia of sociology* (2nd Edition). Malden, MA: Blackwell.

6. Rosli, R., Capraro, M. M., Goldsby, D., Gonzalez y Gonzalez, E., Onwuegbuzie, A. J., & Capraro, R. M. (2015). Middle grade preservice teachers' mathematical problem solving and problem posing (pp. 333-354). In F. M. Singer, N. Ellerton, & J. Cai (Eds.). *Mathematical problem posing: From research to effective practice*. New York, NY: Springer.
7. Capraro, R. M. (2014). Mathematics assessment for special needs students. 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. 1625). Hoboken, NJ: John Wiley and Sons.
8. Capraro, R. M., Capraro, M. M., & Morgan, J. (Eds.) (2013). *Project-based learning: An integrated science, technology, engineering, and mathematics (STEM) approach* (2nd Edition, pp. 1-214). Rotterdam, The Netherlands: Sense.
9. Capraro, R. M., & Slough, S. (2013). Why PBL? Why STEM? Why now? An introduction to STEM. Project-based learning: An integrated science, technology, engineering, and mathematics (STEM) approach. In R. M. Capraro, M. M. Capraro, & J. Morgan (Eds.) *Project-based learning: An integrated science, technology, engineering, and mathematics (STEM) approach* (2nd Edition, pp. 1-6). Rotterdam, The Netherlands: Sense.
10. Capraro, R. M., & Corlu, M. S. (2013). Changing views on assessment for STEM project-based learning. In R. M. Capraro, M. M. Capraro, & J. Morgan (Eds.) *Project-based learning: An integrated science, technology, engineering, and mathematics (STEM) approach* (2nd Edition, pp. 109-118). Rotterdam, The Netherlands: Sense.
11. Muzhave, M., Capraro, M. M., & Capraro, R. M. (2013). The private sector, building STEM partnerships, and moving models forward. In M. M. Capraro, R. M. Capraro, & C. W. Lewis (Eds.). *Improving urban schools: Equity and access in k-16 STEM education for all students* (pp. xx-xx). Charlotte, NC: Information Age.
12. Capraro, M. M., Capraro, R. M., & Lewis, C. (Eds.) (2013). *Improving urban schools: Equity and access in K-16 STEM education for all students*. New York, NY: Information Age.
13. 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).
14. *Capraro, R. M., & Yetkiner, Z. E. (2010). P-value. In N. J. Salkind (Ed.), *Encyclopedia of research design* (pp. 1143-1148). Thousand Oaks, CA: Sage.
15. 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.
16. Woods, C. J., & Capraro, R. M. (2010). Conrad foods: Packaging "R" us. In R. Capraro, M. Capraro, J. Morgan, & J. Scheurich (Eds.), *A companion to interdisciplinary STEM project based learning: For teachers by teachers* (pp. 79-86). Rotterdam, The Netherlands: Sense.
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18. Caskey, M. M., Andrews, P. G., Bishop, P. A., Capraro, R. M., Roe, M., & Weiss, C. (2010). *Research and resources in support of This We Believe* (2nd ed.). Westerville, OH: National Middle School Association.

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21. Capraro, R. M., & Slough, S. (2008). Why PBL? Why STEM? Why now? An introduction to project-based learning: An integrated science, technology, engineering, and mathematics (STEM) approach. In R. M. Capraro & S. W. Slough (Eds.), *Project based learning: An integrated science technology engineering and mathematics (STEM) approach* (pp. 1-6). Rotterdam, The Netherlands: Sense.
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23. Capraro, R. M., & Slough, S. W. (Eds.). (2008). *Project based learning: An integrated science technology engineering and mathematics (STEM) approach*. Rotterdam, The Netherlands: Sense.
24. *Capraro, R. M., & Yetkiner, Z. E. (2008). Teachers' role in developing representational fluency in middle grades. In G. Kulm (Ed.), *Teacher knowledge and practice in middle grades mathematics* (pp. 273-286). Rotterdam, The Netherlands: Sense.
25. Kulm, G., & Capraro, R. M. (2008). Textbook use and student learning of number and algebra ideas in middle grades. In G. Kulm (Ed.), *Teacher knowledge and practice in middle grades mathematics* (pp. 255-272). Rotterdam, The Netherlands: Sense.
26. Capraro, R. M. (2006). Time series in educational research. In G. Ritzer (Ed.), *Blackwell encyclopedia of sociology*. Malden, MA: Blackwell.
27. Capraro, R. M. (2006). Significance level. In N. J. Salkind (Ed.), *Encyclopedia of measurement and statistics* (pp. 889-892). Thousand Oaks, CA: Sage.

Non-Peer Reviewed Publications

28. Capraro, R. M., Capraro, M. M., Nite, S., & Morgan, J. (2014, May/June). *STEM PBL: A workforce-enhancing model*. *Texas CEO Magazine*, 16-17.
29. 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>
30. 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>
31. 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>
32. 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>

33. 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*.
34. Capraro, R. M. (2009). Quantitative methods in middle grades research: Developing a reporting framework. *Middle Grades Research Journal*, 4, i.
35. Denton, J. J., Davis, T. J., Capraro, R. M., Smith, B. L., Beason, L., Graham, D., & Strader, R. A. (2007). *Examination of applicant profiles for admission into and completion of an online secondary teacher certification program*. (ERIC Document Reproduction Service No. ED465799)
36. Capraro, R. M. (2006). (Decoding + chunking + comprehension)^{Reading Aloud} = mathematical fluency. *Reading Psychology*, 27, 91-93. (.389 impact factor SCOPUS)
37. *Capraro, R. M., Capraro, M. M., Dighans, K., & Hammer, M. (2002). *A revision protocol design: Item revision and impact analysis report*. Texas A&M University, Teaching Learning and Culture.
38. Capraro, R. M., & Capraro M. M. (1998). *Teacher talk*. In Middle School Math Courses 1 & 3, Chicago, IL: Scott Foresman-Addison Wesley.
39. Capraro, R. M., & Johnson, B. (1997). *Content strand mathematics – Probability and statistics*. Miami, FL: Miami-Dade County Public Schools.
40. Capraro, R. M., & Johnson, B. (1996). *Content strand mathematics - Geometry*. Miami, FL: Miami-Dade County Public Schools.
41. Capraro, R. M., & Johnson, B. (1995). *Content strand mathematics - Pre-Algebra*. Miami, FL: Miami-Dade County Public Schools.

Student Publications Under My Direction-

Publications by my doctoral students, for whom I mentored, provided critical reviews, and editing but did not write any portion of the manuscript. This section also includes publications from their dissertations.

- **Matteson, S. M., & Lincoln, Y. S. (2009). Using multiple interviewers in qualitative research studies: The influence of ethic of care behaviors in research interview settings. *Qualitative Inquiry*, 15, 659-674.
- **Zientek, L. R. (2007). Preparing high quality teachers: Novice teachers' sense of self-efficacy, commitment to teaching, and preparedness to teach. *American Educational Research Journal*, 44, 959-1001.
- **Zientek, L. R. (2006). The essentials of effective alternative teacher education programs: A response. *Connections*, 15(3), 9-10,14.
- Matteson, S.** (2006). Mathematical literacy and standardized mathematical assessments. *Reading Psychology*, 27, 205-233.
- Matteson, S.** (2005). At-risk students and their performance on graphing assessments. *Electronic Journal of Student Research*, 5. Retrieved January 5, 2005, from <http://dept.lamar.edu/lustudentjnl/EDITION%20II%20ARTICLES/At-risk%20students%20and%20Their%20Performance%20on%20Graphing%20Assessment.s.pdfhttp://dept.lamar.edu/lustudentjnl/current%20edition.htm>
- Herbrich, A. A., & Parr, R. (2004, October 22). My, what critical thinking skills you have!: A party approach to college student engagement. *Innovation Abstracts*, 26, (24). The University of Texas at Austin National Institute for Staff and Organizational Development (NISOD), Department of Educational Administration, College of Education. Retrieved on October 28 from http://www.dcuoit.ca/pd/Inovation%20Abstracts/innovation_abstracts_October_22_2004.htm
- Martin, S., & Sebesta, L.** (2004). Fractions: Building a foundation with concrete manipulatives. *Illinois Schools Journal*, 83(2), 2-21.

Butler, L. (2002). Motivation in the middle. *Illinois Mathematics Teacher*, 53, 13-18.

** indicates a publication from a student's dissertation

SUBMITTED

- Hill, K. K., Bicer, A., & Capraro, R. M. (2016, September). Effect of teachers' professional development from MathForward™ on students' math achievement. Submitted to *International Journal of Research in Education & Science*.
- Nite, S. B., Allen, G. D., Froyd, J. E., Bicer, A., Capraro, R. M., & Capraro, M. M. (2016). Preparing engineering students to succeed in mathematics: A mathematics bridge program. Submitted to *International Journal of Engineering Education*.
- Mosqueda, E., Maldonado, S. I., Capraro, M. M., & Capraro, R. M. (2016). Math policy implications for urban language minority students' opportunity to learn.
- Springs, M., Capraro, M. M., & Capraro, R. M. Does the adoption of football have an impact on student behavioral and attendance outcomes? Submitted to *Journal of Sport & Exercise Psychology* (manuscript ID is JSEP.2016-0118) on 4/14/16.
- Capraro, R. M., Nite, S. B., & Bicer, A., (2016-In prep). Triangulation of STEM Success in Engineering Curricula. Submit to *International Journal on Education in Mathematics, Science and Technology*
- Young, J. L., Young, J., & Capraro, R. M. (2015, Submitted). Advancing black girls in STEM: Implications from advanced placement participation and achievement. Submitted to *Cultural Studies of Science Education*, MS # CSSE-S-15-00157-1
- Rosli, R., Han, S. Y., Capraro, R. M., & Capraro, M. M. (2012). Exploring preservice teachers' knowledge of content and teaching fractions. Manuscript submitted for publication. Manuscript submitted for publication to *Australian Journal of Teacher Education*
- Corlu, M. S., & Capraro, R. M. (2012). The Turkish perspective on teacher education: Integrated teaching knowledge of pre-service mathematics and science teachers. Manuscript submitted to the *International Journal of Science and Mathematics Education*.
- Davis, T. J., Capraro, M. M., & Capraro, R. M. (2012). What happens when academically en(r)gaged parents meet standards-based mathematics curriculum: Perceived barriers and challenges. *The School Community Journal*.
- Davis, T. J., Capraro, M. M., & Capraro, R. M. (2012). CORE-plus mathematics and quality of implementation: Effects on SAT and ACT scores. *TBD*

IN PROGRESS

- Capraro, M. M., & Capraro, R. M. (2011). Do field experiences make a difference in preservice teachers' perceived level of competence? Manuscript in preparation.
- Capraro, R. M., Capraro, M. M., & Helfeldt, J. (2011). Contrasting views on the principal's role for establishing a mentoring program. (Working on for submission to *Education Administration Quarterly*).
- Capraro, R. M., Willson, V., Capraro, M. M., & Wilson, L. (2011). *Effects of curriculum variation on structure in middle school mathematics*.

PRESENTATIONS

National/International

1. Bicer, A., Capraro, R. M., Capraro, M. M., & Nite, S. B. (April, 2017). *Improving educational opportunities for underrepresented students: The educational impact of T-STEM academies*. Paper accepted for the annual meeting of the American Educational Research Association (AERA), San Antonio, TX.
2. Nite, S. B., Allen, G. D., Bicer, A., & Capraro, R. M. (2017, April). *Strengthening precalculus skills in a summer program for engineering students*. Paper accepted at the

- AERA Annual Meeting, Knowledge to Action: Achieving the Promise of Equal Education Opportunity. San Antonio, Texas.
3. Bicer, A., Ozfidan, B., Capraro, M. M., Capraro, R. M., & Nite, S. B. (2017, April). *A meta-analysis: The effects of writing interventions on students' mathematics success*. Paper accepted for the annual meeting of the American Educational Research Association (AERA), San Antonio, TX.
 4. Capraro, M. M., Capraro, R. M., & DeMiranda, M. (2017, March). *The hidden supports of high school engineering and technology science fair winners*. Accepted for presentation at the 2017 International Technology and Engineering Educators Association, Dallas, TX.
 5. Nite, S. B., Allen, G. D., Bicer, A., & Capraro, R. M. (2017, April). *Precalculus program for prospective engineering students*. Paper accepted to the *NCTM Research Conference*. San Antonio, Texas.
 6. Capraro, M. M., & Capraro, R. M. (2016, November). *Dynamic problem posing through reciprocal problem solving*. Paper presented at the 2nd Biennial International conference on Urban Education, San Juan, PR.
 7. Nite, S. B., Allen, G. D., Morgan, J., Bicer, A., & Capraro, R. M. (2016, June). *Engineering calculus bridge program success: Comparing variation results*. In *Proceedings of the American Society for Engineering Education 2016*, Paper ID# 16610 presented at ASEE's 123rd National Conference and Exposition. New Orleans, LA: American Society for Engineering Education, Washington DC.
 8. Öner, A. T., Nite, S., Capraro, M. M., Capraro, R. M., & Barroso, L. (2016, May). *Examination of students' creativity in a STEM camp: Exploring STEAM*. International Conference on Education in Mathematics, Science and Technology (ICEMST), Bodrum, Turkey.
 9. Nite, S. B., Capraro, R. M., Bicer, A., & Morgan, J. (2016, December). *Supporting engineering education through calculus success*. Abstract submitted to 27th Australasian Association for Engineering Education Conference. Coffs Harbour, Australia.
 10. **Viewing How STEM Project-Based Learning Influences Students' Science Achievement Through the Implementation Lens: A Latent Growth Modeling**
 11. *Bicer, A., Capraro, R. M., & Capraro, M. M. (2016, April). *STEM schools vs. non-STEM schools: Comparing Hispanic students' mathematics growth rate on high-stakes test performance*. Paper accepted for presentation at the annual conference of the American Educational Research Association (AERA), Washington, D.C.
 12. *Bicer, A., Kopparla, M., Capraro, R. M., & Capraro, M. M. (2016, April). *Longitudinal effects of technology integration and teacher professional development on students' mathematics achievement*. Paper accepted for presentation at the annual conference of the American Educational Research Association (AERA), Washington, D.C.
 13. *Howard, T., Capraro, R. M., Capraro, M. M., Ortiz, N. A., & Emdin, C. (2016, April). *The apparent proliferation of "separate but equal" in STEM environments*. Paper accepted for presentation at the annual conference of the American Educational Research Association Annual Meeting. Washington, DC.
 14. *Erdogan, N., Öner, A. T., Capraro, R. M., & Capraro, M. M. (2016, April). *Examination of students' attitudes towards STEM and interest in STEM careers: A STEM camp example*. Paper accepted for presentation at the annual meeting of National Association for Research in Science Teaching (NARST), Baltimore, MD.
 15. *Capraro, M. M., *Leblanc, J., Capraro, R. M., & Stuessy, C. (2015, October). *Identifying researchable topics for an EdD record of study*. Paper presented at the *World Conference on E-Learning*, Kona, HI.

Comment [Rbt1]: Check if it was presented

16. *Capraro, M. M., Nite, S. B., **Capraro, R. M.**, Morgan, J., Barroso, L., & Kopparla, M. (2015, October). *Appropriate technology in STEM education: Using a rubric to assess iPad apps*. Paper presented at the E-Learn 2015: World Conference on E-Learning. Kona, Hawaii.
17. Nite, S. B., Morgan, J., Allen, G. D., **Capraro, R. M.**, & Capraro, M. M. (2015). Effective technology for a calculus bridge program: Bringing education home. Paper presented at the *Australasian Association for Engineering Education Conference 2015*. Geelong, Australia.
18. *Nite, S. B., Morgan, J., Allen, G. D., **Capraro, R. M.**, Capraro, M. M., & Pilant, M. (2015, October). *A bridge to engineering: A personalized precalculus (bridge) program*. Paper presented at the annual meeting of the Frontiers in Education (FIE), El Paso, TX.
19. *Boedeker, P., Bicer, A., **Capraro, R. M.**, Capraro, M. M., Morgan, J., & Barroso, L. (2015, October). *STEM summer camp follow up-study: Correlations between PSAT, SAT, and matriculation*. Paper presented at the annual meeting of Frontiers in Education (FIE), El Paso, TX.
20. *Boedeker, P., **Capraro, R. M.**, Capraro, M. M., & Nite, S. (2015, October). *Women in STEM: The impact of STEM PBL implementation on performance, attrition, and course choice of women*. Paper presented at the annual meeting of Frontiers in Education (FIE), El Paso, TX.
21. *Bicer, A., Boedeker, P., Kopparla, M., **Capraro, R. M.**, & Capraro, M. M. (October, 2015). *Comparing inclusive STEM schools that implemented PLTW curriculum with inclusive STEM schools that did not Implement PLTW*. Paper presented at the annual meeting of Frontiers in Education (FIE), El Paso, TX.
22. *Erdogan, N., Oner, A. T., **Capraro, R. M.**, & Capraro, M. M. (2015, April). *Effects of input and process factors on academic achievement in Texas public high schools*. Paper presented at the International Conference on Education in Mathematics, Science and Technology (ICEMST), Antalya, Turkey.
23. Morgan, J., Nite, S. B., Allen, G. D., **Capraro, M. M.**, Capraro, R. M., & Pilant, M. (2015, April). *Improving engineering calculus success through a summer program*. Paper presented at the Ireland International Conference on Education, Dublin, Ireland.
24. Nite, S. B., Allen, G. D., Morgan, J., Capraro, R. M., & **Capraro, M. M.** (2014, December). *Improving success in engineering calculus: Design of a bridge program*. Paper presented at the Australian Association for Engineering Education Conference. Wellington, New Zealand.
25. Morgan, J., Capraro, R. M., **Capraro, M. M.**, & Nite, S. B. (2014, November) *Increasing the STEM pipeline: Impact of a multi-faceted STEM organization*. Paper presented at the *Engineering Leaders Conference on Engineering Education*. Doha, Qatar.
26. **Capraro, M. M.**, Capraro, R. M., Nite, S., Morgan, J. R., & Peterson, C. A. (2014, November). *Does inclusion of the arts in STEM project-based learning increase motivation for learning for urban students in informal settings?* Paper presented at the International Conference on Urban Education, Montego Bay, Jamaica.
27. **Capraro, M. M.**, Capraro, R. M., Morgan, J. R., Nite, S., & Peterson, C. A. (2014, October). *Science, Technology, Engineering and Mathematics (STEM) Education: A longitudinal examination of secondary school intervention*. Paper presented at the 2014 Frontiers in Education conference, Madrid, Spain. (Full paper abstract number 1569906323).
28. Nite, S., **Capraro, M. M.**, Morgan, J. R., Peterson, C. A., & Capraro, R. M. (2014, October). *Pathways to engineering: Mathematics as a mediator of engineering success*. Paper presented at the 2014 Frontiers in Education conference, Madrid, Spain. (Full paper abstract number 1569906331).

29. Han, S. Y., Capraro, R. M., & **Capraro, M. M.** (2014, April). *The effect of science, technology, engineering, and mathematics project based learning on Hispanic and at-risk students' mathematics achievement.* Paper presented at the annual meeting of the American Educational Research Association, Philadelphia, PA.
30. *Erdogan, N., Oner, A. T., Sahin, A., Capraro, M. M., & Capraro, R. M. (2014, April). *Effects of input and process factors on academic achievement in Texas public high schools.* Paper presented at the annual meeting of American Educational Research Association (AERA), Philadelphia, PA.
31. Sahin, A., Willson, V., Jones, A., Oren, M., & Capraro, R. M. (2014, April). *Three-year longitudinal comparison of student academic performance in STEM and non-STEM schools in Texas: Does the model work?* Paper presented at the annual meeting of American Educational Research Association (AERA), Philadelphia, PA.
32. Capraro, M. M., Capraro, R. M., Nite, S., Morgan, J. R., & Peterson, C. A. (2014, November). *Does inclusion of the arts in STEM project-based learning increase motivation for learning for urban students in informal settings?* Paper presented at the International Conference on Urban Education, Montego Bay, Jamaica
33. *Sahin, A., Willson, V., Top, N., & Capraro, R. M. (2014, April). *Charter school system: How does student achievement compare?* Paper presented at the annual meeting of American Educational Research Association (AERA), Philadelphia, Pennsylvania.
34. *Erdogan, N., Oner, A. T., Sahin, A., Capraro, M. M., & Capraro, R. M. (2014, March). *An exploratory study: How do extracurricular robotics activities change students' attitudes toward science?* Paper presented at the annual conference of National Association for Research in Science Teaching (NARST), Pittsburgh, PA.
35. *Navruz, B., Bicer, A., Capraro, R. M., & Capraro, M. M. (2014, November). Examining students' algebra, geometry, and statistics objective scores in both STEM and non-STEM schools. Paper presented at the Annual meeting of the School Science and Mathematics Association. Jacksonville, FL.
36. *Bicer, A., Navruz, B., Capraro, R. M., & Capraro, M. M. (2014, November). A longitudinal Study: Comparing STEM schools to non-STEM schools in terms of high school students' mathematics achievement. Paper presented at the Annual meeting of the School Science and Mathematics Association. Jacksonville, FL.
37. *Rosli, R., Sunyoung, H., Capraro, R. M., & Capraro, M. M. (2013, November). *Exploring preservice teachers' computational and representational knowledge of content and teaching fractions.* Paper presented at the International Conference on Mathematics Education Seoul Nat'l Univ., Seoul, Korea.
38. *Capraro, M. M., Capraro, R. M., Morgan, J., Sahin, A., & Erdogan, N. (2013, April). *Long-term effects of science focused summer camp on SAT scores.* Paper presented at the annual conference of National Association for Research in Science Teaching (NARST), Rio Grande, Puerto Rico.
39. *Sahin, A., Akgun, O. E., Erdogan, N., Oren, M., Capraro, R. M., & Capraro, M. M. (2013, April). *Exploring benefits of an international science olympiad: STEM career interests.* Paper presented at the annual conference of National Association for Research in Science Teaching (NARST), Rio Grande, Puerto Rico.
40. Jones, M., Oner, A.T., & Capraro, R. M. (2013, April). *Validation and revision of a Middle School Improvement Assessment.* Paper presented at the annual meeting of American Educational Research Association (AERA), San Francisco, CA.
41. Sahin, A., Willson, V., & Capraro, R. M. (2013). *Can charter schools be silver bullets to the American educational system?* Paper presented at the annual meeting of the American Educational Research Association (AERA). San Francisco, CA.

42. Erdogan, N., Oner, A. T., Sahin, A., Capraro, M. M., Capraro, R. M. What factors affect STEM schools' math and science performance? Paper presented at the annual meeting of the American Educational Research Association (AERA). San Francisco, CA.
43. Capraro, M. M., Capraro, R. M., Erdogan, N., Sahin, A., Jones, T., & Oner, A. T. (2013, November). Engaging STEM students through project-based activities. Paper will be presented at the annual meeting of School Science and Mathematics Association (SSMA), San Antonio, TX.
44. Navruz, B., Erdogan, N., Bicer, A., & Capraro, R. M. (2013, November). A Longitudinal Study: Does STEM education really help students achieve on math? Paper will be presented at the annual meeting of School Science and Mathematics Association (SSMA), San Antonio, TX.
45. Sahin, A., Akgun, O. E., Erdogan, N., Cavlazoglu, B., Cetin, C. S., Capraro, R. M., & Capraro, M. M. (2012, November). *Effects of STEM-Related activities on high school students' motivation, learning strategy use, and self-regulation*. Paper presented at the annual meeting of School Science and Mathematics Association (SSMA), Birmingham, AL.
46. Capraro, M. M., Capraro, R. M., Booth, E., Chaudhuri, N., & Dyer, J. (2012, November). *Developmental education: Which factors support success*. Paper presented at the annual convention of School Science and Mathematics Association (SSMA), Birmingham, AL.
47. Capraro, R. M., Capraro, M. M., Booth, E., Chaudhuri, N., & Dyer, J. (2012, November). *The bridging high school and college: Evaluating post secondary developmental education programs*. Paper presented at the annual convention of School Science and Mathematics Association (SSMA), Birmingham, AL.
48. Sahin, A., Akgun, O. E., Erdogan, N., Cavlazoglu, B., Cetin, C. S., Capraro, R. M., & Capraro, M. M. (2012, November). *The students on the stage: Results of a new model to engage students in a successful afterschool STEM program*. Paper presented at the annual meeting of School Science and Mathematics Association (SSMA), Birmingham, AL.
49. Sahin, A., Oner, A., & Capraro, R. M. (2012, November). *Examining the effects of the Texas statewide STEM initiative: Did T-STEM academies achieve important results?* Paper presented at the annual convention of School Science and Mathematics Association (SSMA), Birmingham, AL.
50. Akgun, O. A., Sahin, A., & Capraro, R. M. (2012, November). *Investigating relationships of motivational and self-regulated learning and technological pedagogical content knowledge components of pre-service mathematics teachers*. Paper presented at the annual convention of School Science and Mathematics Association (SSMA), Birmingham, AL.
51. Sahin, A., Eskicumali, A., Jones, M., Capraro, R. M., & Capraro, M. M. (2012, November). *The relationship between a multi-schools charter system's school culture and respective school's state test achievements on mathematic and science*. Paper presented at the annual convention of School Science and Mathematics Association (SSMA), Birmingham, AL.
52. Rosli, R., Han, S., Capraro, R. M., & Capraro, M. M. (2012, July). *Elementary preservice teachers pedagogical content knowledge of place value: A mixed analysis*. Paper presented at the 12th International Congress on Mathematical Education, Seoul, Korea.
53. Godwin, A. J., Capraro, M. M., Capraro, R. M., & Rupley, W. H. (2012, November). *(Reading + Math) + Interactive Shared Readings = Something Sweet*. Paper presented at the Association of Literacy Educators and Researchers, Grand Rapids, MI.

54. Godwin, A. J., Capraro, M. M., Capraro, R. M., & Rupley, W. H. (2012, December). *Conceptualizing: Reading and math getting to know each other*. Paper presented at the Annual Conference of the American Reading Forum, Sanibel Island, FL.
55. Morgan, J., Capraro, R. M., & Capraro, M. M. (2012, August). *Science, technology, engineering and mathematics (STEM) education: Methods to improve PSAT scores using a STEM focus*. Best Paper Award International Conference on Engineering Education (ICEE-2012), Turku, Finland.
56. Han, S. Y., Capraro, R. M., & Capraro, M. M. (2012, July). *The effect of science, technology, engineering and mathematics (STEM) project based learning (PBL) on students' achievement*. Paper presented at the 12th International Congress on Mathematical Education, Seoul, Korea.
57. Han, S. Y., Yalvac, B., Capraro, M. M., & Capraro, R. M. (2012, July). *In-service teachers' implementation of and understanding from project-based learning (PBL) in science, technology, engineering, and mathematics (STEM) Fields*. Paper presented at the 12th International Congress on Mathematical Education, Seoul, Korea.
58. Corlu, M. S., Erdogan, N., & Capraro, R. M. (2012, April). *Developing mathematics and science literacy through robotics systems*. Paper presented at the annual meeting of the National Council of Teachers of Mathematics (NCTM) Research Pre-session, Philadelphia, PA.
59. Capraro, R. M., & Capraro, M. M. (2012, April). *Understanding the need for algebra teaching in K-7*. In symposium with Spielhagen, F., Aguirre, J., Bolling, M., Fennell, S., Maxwell-West, M., Moses, R., Ready or not: The promise of 8th grade algebra. Symposium presented at annual meeting of the National Council of Teachers of Mathematics Research Pre-session, Philadelphia, PA.
60. Sahin, A., & Capraro, R. M. (2012, April). *Teachers' awareness and acquisition of questioning skills*. Paper presented at the annual meeting of the American Education Research Association, Vancouver, Canada.
61. Younes, R. G., & Capraro, R. M. (2011, November). *The impact of STEM PBL on women's scores, retention, and course choice*. Paper presented at the annual meeting of the School Science and Mathematics Association, Colorado Springs, CO.
62. Cetin, S. C., Corlu, M. S., Capraro, M. M., & Capraro, R. M. (2011, November). *A correlational study: Mathematics and science scores of underrepresented students in state achievement tests*. Paper presented at the annual School Science and Mathematics Association (SSMA), Convention, Colorado Springs, CO.
63. Capraro, M. M., Capraro, R. M., & Oner, A. T. (2011, November). *Observations of STEM PBL teachers and their student scores*. Paper presented at the annual meeting of the School Science and Mathematics Association, Colorado Springs, CO.
64. Heyen, K., Hollowell, E., Kever, E., Mullins, D., Murphy, K., Taylor, D., Wayne, S., Easterling, J., Nite, S., Capraro, M. M., & Capraro, R. M. (2011, August). *Problem posing around the Czech Republic*. Poster presentation at the *International Symposium on Elementary Mathematics Teaching*. Charles University: Prague, Czech Republic.
65. 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, LA.
66. 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, LA.
67. Oztelli, D., Corlu, M. S., & Capraro, R. M. (2011, April). *A Comparison Study of Mathematics and Science Tutors and School Teachers in Turkey by Using International Comparison Studies*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
 68. Capraro, R. M., & Avery, R. (2011, April). *The “Wicked Problems” of Urban Schools and a Science, Technology, Engineering, and Mathematics (STEM) University-School District-Business Partnership*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
 69. Corlu, M. S., Capraro, R. M., & Capraro, M. M. (2011, April). *Turkish student teachers’ attitudes towards mathematics and science integration*. Paper presented at the annual meeting of the National Council of Teachers of Mathematics, Indianapolis, IN.
 70. 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.
 71. Capraro, M. M., Capraro, R. M., Stearns, L., & Morgan, J. (2011, January). *A teacher observation instrument: Looking at PBL classroom instruction*. Paper presented at the Hawaii International Conference on Education, Honolulu, HI.
 72. 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*. Paper presented at the annual meeting of the School Science and Mathematics Association, Fort Meyers, FL.
 73. 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.
 74. 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 University Council of Educational Administration, New Orleans, LA.
 75. Capraro, R. M. (2010, June). *Converging reading and teaching strategies to increase elementary mathematical understanding*. Presented at the 13th international conference on Mathematics Education in China (ICME), Hangzhou Normal University, China.
 76. Schorr, R., Epstein, Y., Warner, L., Capraro, R. M., Capraro, M. M., & Goldin, G. (2010, April). *Measuring engagement structures in middle grades urban mathematics classrooms*. Paper presented at the annual meeting of the American Educational Research Association, Denver, CO.
 77. Piccolo, D., Capraro, M. M., & Capraro, R. M. (2010, April). *Student teachers, general and specific pedagogical development within a mathematics milieu*. Paper presented at the annual meeting of the American Educational Research Association, Denver, CO.
 78. Corlu, M. S., Capraro, R. M., Burlbaw, L., & Han, S. (2010, February). *The Ottoman palace school and the man with multiple talents, matrakçı nasuh*. Proceedings of the 15th International Seminar of Mathematics Education on Talented Children and Creativity Development, 19-20 February, S. Korea.
 79. Capraro, R. M. (2009, November). *The case for international understanding of middle school education*. In symposium M. Caskey, Spotlight on research. At the 36th annual conference of the National Middle School Association. Indianapolis, IN.
 80. Capraro, R. M. (2009, November). *Research and understanding of middle schoolers understanding of the equal sign*. In symposium M. Caskey, Research and resources in

- support of this we believe: Tools for practitioners. At the 36th annual conference of the National Middle School Association. Indianapolis, IN.
81. 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.
 82. 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.
 83. Capraro, R. M. (2009, April). *Mathematics education research at the high school and collegiate level*. Paper presented at the annual meeting of the American Educational Research Association. San Diego, CA.
 84. Capraro, R. M. (2009, April). *Students' cognition and instructional opportunities in mathematics*. Paper presented at the annual meeting of the American Educational Research Association. San Diego, CA.
 85. Capraro, R. M., Burlbaw, L. M., & Zientek, L. R. (2009, April). *Content and pedagogical knowledge in Colorado: Teachers' mathematics exams at the turn of the 20th century*. Paper presented at the 32nd meeting of Society for the Study of Curriculum History. San Diego, CA.
 86. Capraro, R. M., & Capraro, M. M. (2009, April). *An international perspective on sixth graders' interpretation of the equal sign*. Paper presented at the annual meeting of the American Educational Research Association. San Diego, CA.
 87. Piccolo, D., Capraro, R. M., & Willson, V. (2009, April). *Expanding the theory of PCK and CKTM for elementary and middle preservice teachers*. Paper presented at the annual meeting of the American Educational Research Association. San Diego, CA.
 88. Piccolo, D., Capraro, M. M., & Capraro, R. M. (2009, April). *Mentoring urban interns: Amalgamation of experiences in the formation of mathematics teachers*. Paper presented at the annual meeting of the American Educational Research Association. San Diego, CA.
 89. 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.
 90. Capraro, R. M. (2008, October). *Pathways to publication: NMSA research advisory board*. Symposium presented at the 35th annual meeting of the National Middle School Association. Denver, CO.
 91. Capraro, R. M. (2008, October). *Project-based learning in middle grades mathematics*. As part of a symposium *Spotlight on Research Session* presented at the 35th annual conference of the National Middle School Association. Denver, CO.
 92. Caskey, M., Andrews, G., Bishop, P., Capraro, R. M., Daniel, L., Muir, M., & Valentine, J. (2008, October). *Research and resources in support of this we believe: Assessment that promotes learning*. Paper presented at the 35th annual conference of the National Middle School Association. Denver, CO.
 93. 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, & K. Fries. Symposium conducted at the annual meeting of the American Educational Research Association. New York.
 94. *Parker, D., Donahue, M., Stillisano, J., Capraro, M. M., Goldsby, D., Yetkiner, Z. E., & Capraro, R. M. (2007, November). *Communication and representations*. Paper presented at the National Council of Teachers of Mathematics regional conference. Houston, TX.

95. Capraro, R. M. (2007, November). School science and mathematics. Session in R. M. Capraro (Chair). *What research says about teaching every student math*. With C. Seeley, Symposium presented at the annual meeting of the National Middle School Association. Houston, TX.
96. Capraro, R. M. (2007, November). Project-based learning. Session in M. Caskey (Chair). *Spotlight on research*. With G. Andrews, P. Bishop, L. Daniel, M. Muir, & E. Pate, Symposium presented at the annual meeting of the National Middle School Association. Houston, TX.
97. Caskey, M., Andrews, G., Bishop, P., Capraro, R. M., Daniel, L., Muir, M., & Pate, E. (2007, November). *Research and resources in support of "This we believe"*. Paper presented at the annual meeting of the National Middle School Association. Houston, TX.
98. 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.
99. 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.
100. 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.
101. Capraro, R. M. (2007, April). Contrasting views on the principal's role for establishing a mentoring program. In E. Foster (Chair). *Impact of mentor training on perceptions of competence and pre-service/in-service mentors and administrators*. Symposium conducted at the annual meeting of the American Educational Research Association. Chicago, IL.
102. *Capraro, R. M. (2007, March). Comparing ideas of equivalence cross-culturally. Session in S. Matteson (Chair). *≥ to 30 years of research on the equals sign*. In symposium with C. Lubinski. A. Otto (Illinois State University), E. Knuth (University of Wisconsin-Madison), Symposium presented at the research pre-session of the 85th annual meeting of the National Council of Teachers of Mathematics. Atlanta, GA.
103. *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 pre-session of the 85th annual meeting of the National Council of Teachers of Mathematics. Atlanta, GA.
104. *Capraro, M. M., Cifarelli, V., Capraro, R. M., Zientek, L. (2006, October). *What are students really thinking as they solve two types of problems?* Paper presented at the annual meeting of the School Science and Mathematics Association. Missoula, MT.
105. *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.
106. 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.
107. *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.
108. *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 pre-session of the 84th annual meeting of the National Council of Teachers of Mathematics. St. Louis, MO.
 109. Capraro, M. M., Willson, V., Capraro, R. M., & Kulm, G. (2006, April). *Professional development by curriculum differences on student achievement*. Paper presented at the research pre-session of the 84th annual meeting of the National Council of Teachers of Mathematics. St. Louis, MO.
 110. *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.
 111. 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.
 112. *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.
 113. *Capraro, R. M., Capraro, M. M., Naiser, E. A., English, S., 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 pre-session of the 83rd annual meeting of the National Council of Teachers of Mathematics Research. Anaheim, CA.
 114. *Kulm, G., Capraro, R. M., Capraro, M. M., Carter, T., Li, X., Sahin, A., 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 Research. Anaheim, CA.
 115. *Capraro, M. M., Capraro, R. M., & Zientek, L. (2005). *Longitudinal influences of conceptual mathematics on teacher classroom enactments*. Paper presented at the annual meeting of the Association of Mathematics Teacher Educators. Dallas, TX.
 116. *Carter, T. A., Zientek, L. R., & Capraro, R. M. (2005). *Teaching statistical concepts: Are future teachers prepared*. Paper presented at the annual meeting of the Association of Mathematics Teacher Educators. Dallas, TX.
 117. *Carter, T. A., Zientek, L. R., & Capraro, R. M. (2005). *Preservice teachers' understanding of probability and statistics*. Paper presented at the annual meeting of the Research Council for Mathematics Learning. Little Rock, AR.
 118. 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.
 119. Capraro, M. M., Capraro, R. M., 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.
 120. Manon, J., Capraro, R. M., & Kulm, G. (2004, April). *Underlying structures of mathematical representation: A theoretical perspective*. Paper presented at the American Educational Research Association Conference. San Diego, CA.
 121. Capraro, R. M., Kulm, G. (2004, April). *Relationships between textbook use and student learning of number and algebra ideas in middle grades*. Paper presented at the National Council of Teachers of Mathematics Conference. Philadelphia, PA.

122. *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 pre-session of the 82nd annual meeting of the National Council of Teachers of Mathematics. Philadelphia, PA.
123. 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.
124. 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.
125. 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, IL.
126. *Patterson, J. M., Capraro, R. M., Kemp, G. P., Standish, H., & Sun, Y., (2003, April). *The divergent child: Fraction concepts from their perspective*. Paper presented at the 81st annual meeting of the National Council of Teachers of Mathematics. San Antonio, TX.
127. Capraro, R. M. (2003). Finding similarities: Mathematics curriculum comparisons of Taiwan and the United States. Paper presented at the annual meeting of the Research Council on Mathematics Learning. Tempe, AZ.
128. 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 Educators. Atlanta, GA.
129. *Zientek, L. R., Kadhi, T., & Capraro, R. M. (2003, January). *Community college's expanding role in teacher preparation*. Paper presented at the annual meeting of the Association of Mathematics Teacher Educators. Atlanta, GA.
130. 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.
131. *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.
132. 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, LA. (ERIC Document Reproduction Service No. ED 465799)
133. 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 pre-session of the 80th annual meeting of the National Council of Teachers of Mathematics. Las Vegas, NV.
134. Capraro, R. M., Capraro, M. M., & An, S. (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.
135. Capraro, R. M., Capraro, M. M., & Kulm, G. (2002, April). *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.

136. Capraro, R. M., Capraro, M. 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 54th annual meeting of the American Association of Colleges for Teacher Education. New York, NY. (ERIC Document Reproduction Service No. ED 463259)
137. 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 pre-session of the 79th annual meeting of the National Council of Teachers of Mathematics. Orlando, FL.
138. Capraro, R. M., & Capraro, M. M. (1998, April). *Caution! 2-d and 3-d geometric construction underway*. Presentation at the 76th annual meeting of the National Council of Teachers of Mathematics. Washington, DC.

Multi-State Regional

- *Bicer, A., Koppala, M., **Capraro, R. M.**, & Capraro, M. M. (2016, February). *Longitudinal effects of technology integration and teacher professional development on students' mathematics achievement*. Paper presented at the annual meeting of Southwest Educational Research Association, New Orleans, LA.
- *Oner, A. T., **Capraro, R. M.**, & Capraro, M. M. (2016, February). *The effectiveness of the duration of the summer camp: Students' STEM attitude*. Paper presented at the annual meeting of Southwest Educational Research Association, New Orleans, LA.
- *Oner, A. T., Nite, S., Capraro, M. M., & **Capraro, R. M.** (2015, February). *The effect of 3D design on students' belief about "A" of STEAM*. Paper presented at the annual meeting of Southwest Educational Research Association, San Antonio, TX.
- *Bicer, A., Boedeker, P. J., Foran, A. L., Hill, K., Lopez, N., **Capraro, R. M.**, & Capraro, M. M. (2015, February). *Examining the effects of STEM PBL on students' mathematical and scientific vocabulary knowledge*. Paper presented at the Southwest Educational Research Association 38th Annual Meeting, San Antonio, TX.
- *Navruz, B., Bicer, A., Capraro, M. M., & **Capraro, R. M.** (2015, February). *Should students enroll as freshmen in STEM high schools?* Paper presented at the Southwest Educational Research Association 38th Annual Meeting, San Antonio, TX.
- *Bicer, A., Navruz, B., **Capraro, R. M.**, & Capraro, M. M. (2015, February). *STEM schools vs. non-STEM schools: Examining Hispanic students' mathematics achievement*. Paper presented at the Southwest Educational Research Association 38th Annual Meeting, San Antonio, TX.
- *Oner, A. T., Navruz, B., Bicer, A., Erdogan, N., Peterson, C., Capraro, R. M., & Capraro, M. M. (2014, February). *A longitudinal examination of T-STEM academies' academic performance by education service center*. Paper presented at the annual meeting of Southwest Educational Research Association (SERA), New Orleans, LA.
- *Navruz, B., Erdogan, N., Capraro, M. M., & Capraro, R. M. (2014, February). *Examination of STEM students vs. non-STEM students' mathematics and reading achievement: A longitudinal study*. Paper presented at the annual meeting of Southwest Educational Research Association (SERA), New Orleans, LA.
- *Navruz, B., Erdogan, N., Sahin, A., Capraro, R. M., & Capraro, M. M. (2014, February). *How do students do on math test when their schools turn into STEM?* Paper presented at the annual meeting of Southwest Educational Research Association (SERA), New Orleans, LA.
- *Han, S., Yalvac, B., Capraro, M. M., & Capraro, R. M. (2014, February). *In-service teachers' implementation and understanding of project based learning in science, technology,*

- engineering, and mathematics fields: A mixed analysis.* Paper presented at the annual meeting of Southwest Educational Research Association (SERA), New Orleans, LA.
- *Godwin, A. J., & Capraro, R. M. (2014, February). *Exploring reading and mathematics integration in preschool aged children.* Paper presented at the annual meeting of Southwest Educational Research Association (SERA), New Orleans, LA.
- *Bicer, A., Navruz, B., Perihan, C., Capraro, M.M., & Capraro, R. M. (2014, February). *Higher-Order Confirmatory Factor Analysis.* Paper presented at the annual meeting of Southwest Educational Research Association (SERA), New Orleans, LA.
- *Bicer, A., Capraro, M.M., & Capraro, R. M. (2014, February). *Distribution Free vs. Non-distribution Free Factor Analysis Methods.* Paper presented at the annual meeting of Southwest Educational Research Association (SERA), New Orleans, LA.
- *Peterson, C. A., Oner, A. T., Nite, S., Bicer, A., Capraro, R. M., Capraro, M. M., Morgan, J. R., & Sahin, A. (2013, September). *Aggie-STEM: Improving Student Outcomes with Professional Development that Incorporates STEM-Based Project-Based Learning and Professional Learning Communities.* Paper presented at the regional meeting of the MSP Program, Washington D.C.
- *Younes, R. G., Jones, M. M., Erdogan, N., Navruz, B., & Capraro, R. M. (2013, February). *A Longitudinal Study: The impact of STEM PBL on Students' Science Achievement.* Paper presented at the 36rd annual meeting of the Southwest Educational Research Association, San Antonio, TX.
- *Godwin, A. J., & Capraro, R. M. (2013, February). *The use of targeted vocabulary development to assist in mathematics register development and geometry achievement.* Paper presented at the 36rd annual meeting of the Southwest Educational Research Association, San Antonio, TX.
- *Bicer, A., Gallegos, C., & Capraro, R. M. (2013, February). *Problem solving and the writing process: A case of cognitive complexity.* Paper presented at the 36th annual meeting of the Southwest Educational Research Association, San Antonio, TX.
- *Sahin, A., Akgun, O. E., Erdogan, N., Capraro, R. M., Capraro, M. M., & Oner, T. (2013, February). *Effects of a summer camp on students' motivational factors and learning strategies.* Paper presented at the 36th annual meeting of the Southwest Educational Research Association, San Antonio, TX.
- *Sahin, A., Capraro, M. M., & Capraro, R. M. (2012, February). *STEM clubs and science fair competitions: Effects on post-secondary matriculation.* Paper presented at the annual conference of Southwest Educational Research Association (SERA), New Orleans, LA.
- *Bicer, A., Capraro, R. M., & Cetin, S. C. (2012, February). *Parental Involvement Effects on Students' Mathematics Achievement.* Paper presented at the annual conference of Southwest Educational Research Association (SERA), New Orleans, LA.
- *Rosli, R., Han, S., Capraro, M. M., & Capraro, R. M. (2011, February). *Preservice teachers' knowledge for teaching fractions.* Paper presented at the annual meeting of the Southwest Educational Research Association, San Antonio, TX.
- *Han, S., Rosli, R., & Capraro, R. M. (2011, February). *The textbook analysis on probability: The case of Korea, Malaysia, and U.S. Textbooks.* Paper presented at the annual meeting of the Southwest Educational Research Association, San Antonio, TX.
- *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.

- *Capraro, R. M., Capraro, M. M., Younes, R., Han, S. Y., & Garner, K. (2010, February). *A meta-analysis of relational symbols in K-12 textbooks*. Paper presented at the 33rd annual meeting of the Southwest Educational Research Association. New Orleans, LA.
- *Young, J. R., Yetkiner, Z. E., Woods, M., Capraro, R. M., & Lewis, C. W. (2010, February). *An Examination of Mathematics Achievement in an Urban School District*. Presented at the 33rd annual meeting of the Southwest Educational Research Association, New Orleans.
- *Capraro, R. M., Yetkiner, Z. E., Özel, S., Corlu, M. S., Capraro, M. M., & Kim, H. G. (2009, February). *International comparison of the equal sign*. Symposium presented at the 32nd annual meeting of the Southwest Educational Research Association. San Antonio, TX.
- *Zientek, L., Yetkiner, Z. E., Capraro, M. M., & Capraro, R. M. (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.
- *Capraro, R. M., & Yetkiner, Z. E. (2007, November). *Communication and representation*. Paper presented at the regional meeting of the National Council of Teachers of Mathematics. Houston, TX.
- *Matteson, S., & Capraro, R. M., (2007, February). *Representational implications for middle grades equivalence*. Paper presented at the 30th annual meeting of the Southwest Educational Research Association. San Antonio, TX.
- *Muzheve, M., & Capraro, R. M. (2007, February). *Do individualized mathematics learning experiences differentially impact home school and public school children?* Paper presented at the 30th annual meeting of the Southwest Educational Research Association. San Antonio, TX.
- Capraro, R. M. (2006, February). *Incorporating content literature to improve geometric competence in middle grades*. Paper presented at the 29th annual meeting of the Southwest Educational Research Association. Austin, TX.
- *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.
- *Capraro, R. M., Carter, T., Harbaugh, A., & Romero, C. T. (2005, February). *Using middle grades student achievement data to support theoretical teacher quality measures*. Paper presented at the annual meeting of the Southwest Educational Research Association. New Orleans, LA.
- *Baldwin, M., Harbaugh, A., Capraro, R. M., Loving, C., Knight, S., & Thompson, B. (2005, February). *Reviewing manuscripts for publication: A why and how symposium for graduate students*. Paper presented at the annual meeting of the Southwest Educational Research Association. New Orleans, LA.
- *Sun, Y., & Capraro, R. M. (2005, February). *A cross-cultural comparison of variation in mathematical representation in China and the United States*. Paper presented at the 28th annual meeting of the Southwest Educational Research Association. New Orleans, LA.
- *Zientek, L. R., Carter, T. A., Taylor, J. M., & Capraro, R. M. (2005, February). *Future teachers' understanding of statistical concepts*. Paper presented at the 28th annual meeting of the Southwest Educational Research Association. New Orleans, LA.
- 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.

- *Zientek, L. R., & Capraro, R. M. (2005, February). *Pre-service teachers' attitudes towards statistics*. Paper presented at the annual meeting of the Southwest Educational Research Association. New Orleans, LA.
- Capraro, R. M. (2004, February). *Identifying the factors influencing alternative certification teacher retention*. Paper presented at the annual meeting of the Southwest Educational Research Association. Dallas, TX.
- Capraro, R. M. (2003, February). *Confirmatory factor analysis of the theoretical constructs of concepts of number*. Paper presented at the annual meeting of the Southwest Educational Research Association. San Antonio, TX.
- Capraro, R. M. (2003, February). *Using PDA to predict post graduation employment locations and ExCET passing conditions of new teachers*. Paper presented at the 26th annual meeting of the Southwest Educational Research Association. San Antonio, TX.
- *Capraro, R. M., & Graham, J. M. (2002, February). *A tutorial on how reliability is estimated within structural equation modeling*. Paper presented at the annual meeting Southwest Educational Research Association. Austin, TX. (ERIC Document Reproduction Service No. ED 462442)
- 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. (ERIC Document Reproduction Service No. ED 466780)
- Capraro, R. M. (2001, November). *A review of van Hiele constructs and a parsimonious model for geometric thought*. Paper presented at the annual meeting of the Mid-South Educational Research Association. Little Rock, AK.
- Capraro, R. M. (2001, February). *Exploring the influences of geometric spatial visualization, gender, and ethnicity on the acquisition of geometry content knowledge*. Paper presented at the annual meeting Southwest Educational Research Association. New Orleans, LA. (ERIC Document Reproduction Service No. ED451057)
- 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 Mid-South Educational Research Association. Bowling Green, KY. (ERIC Document Reproduction Service No. ED452207)
- Scott, J., Martin, N., Capraro, M. M., & Capraro, R. (2001, February). *When the dissertation is finished . . . getting a job in higher education*. Panel Discussion at the annual meeting of the Southwest Educational Research Association. New Orleans, LA.
- Capraro, R. M. (2000, November). *Commonality and the common man: Understanding variance contributions to overall canonical correlation effects*. Paper presented at the annual meeting of the Mid-South Educational Research Association. Bowling Green, KY. (ERIC Document Reproduction Service No. ED449232)
- Capraro, M., Capraro, R. M., & Wiggins, B. (2000, February). *An investigation of the effects of gender, socioeconomic status, race, and grades, on standardized test scores*. Paper presented at the annual meeting of the Southwest Educational Research Association. Dallas, TX. (ERIC Document Reproduction Service No. ED444867)
- Capraro, R. M., & Capraro, M. M. (1995, April). *Elementary algebra, my dear*. Presentation at the 73rd annual meeting of the National Council of Teachers of Mathematics. Boston, MA.

State

- Nite, S. B. & Capraro, R. M. (2015, September). *Exploring Transformations of Functions*. Investigations in Secondary Mathematics and Science - Algebra, Texas A&M University, College Station, TX.
- Capraro, R. M. (2015, July). *Observing a STEM PBL class: What to notice*. Investigations in Secondary Mathematics and Science - Algebra, Texas A&M University, College Station, TX.
- Capraro, R. M. & Franks, R. (2015, July). *Setting up, maintaining, and trouble-shooting a 3-D printer*. Investigations in Secondary Mathematics and Science - Algebra, Texas A&M University, College Station, TX.
- Sahin, A., Oner, A. T., Capraro, R. M. (2013, January). *T-STEM versus Public Schools*. Paper presented at the annual meeting of Texas STEM Conference, San Antonio, TX.
- Stearns, L., Mogan, J., Capraro, R. M., & Capraro, M. M. (2012, January). *Aggie STEM center*. STEM Best Practices Conference. Galveston, TX.
- Stillisano, J., Capraro, M. M., Goldsby, D., Parker, D., Yetkiner, 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.
- Capraro, M. M., Goldsby, D., Yetkiner, Z. E., Piccolo, D., Ozel, S., Wright, K., Indioigne, E., & Capraro, R. M., (2007, May). *Overview of the K-4 modules*. Presented at the Texas A&M Mathematics TEKS connection conference. College Station, TX.
- 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)
- Capraro, R. M., & Capraro, M. M. (2000, July). *Creating a theme: Dinosaurs across reading, mathematics, science, and technology*. Workshop presented at the 60th annual Mississippi Reading Conference. Hattiesburg, MS.
- Capraro, R. M., & Capraro, M. M. (1999, July). *Using technology to teach reading and make connections to science, social studies and mathematics*. Workshop presented at the 59th annual Mississippi Reading Conference. Hattiesburg, MS.
- Capraro, R. M., & Capraro, M. M. (1998, July). *Meaningfully integrating reading and algebra concepts*. Workshop presented at the 58th annual Mississippi Reading Conference. Hattiesburg, MS.
- Capraro, M. M., & Capraro, R. M. (1998, October). *Technologically teaching algebra to elementary students*. Presentation at the annual meeting of the Florida Council of Teachers of Mathematics. Orlando, FL.
- Capraro, R. M., & Capraro, M. M. (1997, October). *2-d, 3-d, and all that's geometry*. Presentation at the annual meeting of the Florida Council of Teachers of Mathematics. Fort Lauderdale, FL.
- Capraro, R. M., & Capraro, M. M. (1996, October). *Algebra concepts for teachers*. Presentation at the annual meeting of the Florida Council of Teachers of Mathematics. Fort Myers, FL.
- Capraro, M. M., & Capraro, R. M. (1995, October). *Algebra, my dear*. Presentation at the annual meeting of the Florida Council of Teachers of Mathematics. Palm Beach Gardens, FL.

Local

- ****Martin, A., Monterrosa, T., Steiner, A.,** Capraro, R. M., Capraro, M. M., Morgan, J., Barroso, L., & Boedeker, P. J. (2015, March). *Fostering unconditional opportunities: Female persistence in STEM education in secondary education response*. Poster presented at the Climate Matters Conference, College Station, TX.

- **Capraro, M. M., Capraro, R. M., Morgan, J., Campos, I., Martin, A., & Cain, B. (2014, March). *Equity and access in K-12 STEM education for all*. Presented at the CEHD Conference: A Dialogue on Climate, Inclusion, and Respect, College Station, TX.
- Capraro, R. M., Capraro, M. M., Peterson, C. A., Nite, S. (2013, August). *Building teaching competence in STEM teaching and learning*. Professional development delivered at Harmony School of Innovation, Waco, TX.
- Nite, S., Peterson, C. A., Capraro, M. M., Capraro, R. M., (2013, August). *Building teaching competence in STEM teaching and learning*. Professional development delivered at Rapoport Academy, Waco, TX.
- 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 and Human Development Research Symposium. College Station, TX.
- Capraro, M. M., Pryor, C. P., Capraro, R. M., & Pryor, B. (2004, May). *How do teaching artifacts provide useful insightful information about preservice teachers?* Paper presented at the second annual Regents' Initiative for Excellence in Education Collaborative Research Conference. Texas A&M University, College Station, TX.
- Capraro, M. M., & Capraro, R. M. (1998, March). *Preparing teachers to teach the sunshine state standards in geometry*. Presentation at the Sheridan Vocational School. Broward County Public Schools, Sheridan, FL.
- Capraro, R. M., & Capraro, M. M. (1995, January). *Geometry concepts for teachers*. Presentation at the annual meeting of the Dade County Council of Teachers of Mathematics. Miami, FL.
- Capraro, R. M., & Capraro, M. M. (1994, January). *Standards based instruction and the competency based curriculum (CBC)*. Presentation at the annual meeting of the Dade County Council of Teachers of Mathematics. Miami, FL.
- Capraro, M. M., & Capraro, R. M. (1989, February). *The model school*. Slide presentation - Newark, NJ. Miami-Dade County public schools. Miami-Dade, FL.

INVITED PRESENTATIONS

1. Capraro, R. M., (2016, June). *Integrated science, technology, engineering, and mathematics for elementary student success*. Turn Around Schools. Texas A&M University, College Station, Texas.
2. Capraro, R. M. (2016, May). *Catalyzing fundamental STEM paradigms and practices. The nexus of ethical responsibility for co-constructors*. International Conference on Education in Mathematics, Science and Technology (ICEMST), Bodrum, Turkey.
3. Capraro, R. M. Corlu, M. S., Capraro, M. M., Adiguzel, T., & Lavicza, Z. (2016, May). *Panel Discussion: Exploring STEM initiatives and the evolving condition*. International Conference on Education in Mathematics, Science and Technology (ICEMST), Bodrum, Turkey.
4. Capraro, R. M. (2016, May). *Teaching for learning in the accountability millennium and the transitional migration: STEM education*. Commencement speech Bahçeşehir Üniversitesi, Istanbul, Turkey.
5. Capraro, M. M., & Capraro, R. M., (2015, Oct.). STEM Night – Fallbrook Academy – Houston, TX.
6. Capraro, R. M. (2015, May). K-12 education and post secondary opportunities in STEM education. Navarro Elementary School, Bryan, TX.
7. Capraro, M. M., & Capraro, R. M., (2015, May). Inspiring others to be leaders, creating and reaching YOUR goals. Presentation to LeadCon, Palestine, TX.

8. Capraro, R. M. (2015, February). *Learning dynamics of STEM teaching and learning*. Presented at Fallbrook Public Schools. Houston, TX.
9. Capraro, R. M., & Nite, S. B. (2015, February). *Toothpick and catapult STEM activities for secondary students*. Presented at the Bellville ISD Science Night, Bellville, TX.
10. Nite, S. B., Capraro, M. M., Capraro, R. M., Bicer, A., Navruz, B. Metoyer, S., et al. (October, 2014). *Effective STEM teaching and learning: A meta synthesis and meta analysis*. Presented at the STEM Colloquium, Austin, TX.
11. Capraro, M. M., & Capraro, R. M. (2013, May). *Setting educational expectations and experiences*. Commencement Address, Bryan, TX. Navarro Elementary.
12. Capraro, M. M., & Capraro, R. M. (2013, April). *Lessons learned from the development and trials with STEM PBL*. Invited address. Rutgers, The State University of NJ, New Brunswick, NJ.
13. Capraro R. M. (2013, March). *Educational vitality through STEM PBL*. Keynote address. Bahcesehir University, Istanbul, TR.
14. Capraro, R. M. (2012, December). *The importance of STEM learning and project based approaches*. Keynote address. Harmony School of Science, Bryan, TX.
15. Weller-Swanson, K., Caskey, M., Bishop, P., Capraro, R. M., Roe, M., Strahan, D., & Weiss, C. (2012, November). *Pathways to publications: AMLE research advisory committee Session*. Paper presented at the 39th annual conference of the Association of Middle Level Education. Portland, OR.
16. Capraro, R. M. (2012, October). *Reflecting on dialog: The peace alternative*. Closing remarks, Institute of Interfaith Dialog: Friendship Dinner. Pebble Creek Country Club, College Station, TX.
17. Capraro, R. M. (2012, June). *Exploring geometry with toothpicks and gumdrops*. Invited presentation at Making Awesome Things Happen, Austin Community College. Austin, TX.
18. Capraro, R. M., & Capraro, M. M. (2012, June). MATH: Putting the “awesome” back in. Invited Keynote at Making Awesome Things Happen, Austin Community College. Austin, TX.
19. Capraro, M. M., Capraro, R. M., & Morgan, J. (2012, April). *Examining educational effectiveness and teacher preparation to teach STEM*. Invited presentation at Texas State University: College and Career Readiness Initiative. Round Rock, TX.
20. Capraro, M. M., & Capraro, R. M. (2012, January). *Examining educational effectiveness and teacher preparation to teach STEM*. Invited presentation at Harmony Public Schools to the Area Superintendents and principals. Houston, TX.
21. Capraro, R. M. (2011, November). *Highlighting the Successes of AGGIE STEM within Harmony Public Schools*. Invited presentation at the Innovation in STEM education conference, Harmony Public Schools and Cosmos Foundation, Houston, TX.
22. Weller-Swanson, K., Caskey, M., Bishop, P., Capraro, R. M., Roe, M., Strahan, D., & Weiss, C. (2011, November). *Pathways to publications: AMLE research advisory committee Session*. Paper presented at the 38th annual conference of the National Middle School Association/Associate of Middle Level Education. Louisville, KY.
23. Capraro, M. M., & Capraro, R. M. (2011, October). Developing a STEM program using PBL. Invited address at Energize for STEM, Houston, TX.
24. Mertens, S., Caskey, M., Strahan, D., Roe, M., Weiss, S. J., Bishop, P., Capraro, R. M., & Weller Swanson, K. (2011, November). *Research and resources in support of this we believe: Connecting research and practice*. Paper presented at the 38th annual conference of the National Middle School Association/Associate of Middle Level Education. Louisville, KY.

25. Bishop, P., Caskey, M., Roe, M., Strahan, D., Weiss, C., Capraro, R. M., & Weller Swanson, K. (2011, November). *Spotlight on research: AMLE research advisory committee session*. Paper presented at the 38th annual conference of the National Middle School Association/Associate of Middle Level Education. Louisville, KY.
26. 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.
27. Capraro, R. M., & Capraro, M. M. (2011, October). *Estimating validity during the instrument design phase*. Presented at the seminar series of the The State of Texas Education Research Center. Station, TX. College Station, TX.
28. 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.
29. Capraro, R. M. (2011, May). *Mathematics expert review testimony*. Invited testimony to the Texas Board of Education. Austin, TX.
30. Capraro, R. M. (2011, March). *Propensity score matching: Its uses, its value, and its misuses*. Invited presentation at the Symposium on Problems of Social Policy Research Texas A&M University, Education Leadership Research Center, College Station, TX.
31. Capraro, R. M. (2011, January). *Building STEM centers of excellence*. Invited presentation University of Florida, Gainesville, FL.
32. Capraro, R. M., & Capraro, M. M. (2010, October). *Mathematics teacher education and its effect on classroom practice*. Invited presentation Texas A&M University: Department of Mathematics, College Station, TX.
33. Capraro, R. M., & Capraro, M. M. (2010, October). *STEM initiatives and policy: Undoing the ties that bind*. Invited presentation Texas State University, San Marcos, TX.
34. Capraro, R. M., & Capraro, M. M. (2010, September). *Building a meaningful research agenda in STEM fields*. Invited presentation Texas A&M University: Graduate Student Association, College Station, TX.
35. Capraro, R. M. (2010, April). *Collaborating across borders: Bridging the divide*. Teaching Learning and Culture Graduate Student Association Spring Lecture Series, Texas A&M University, College Station.
36. Capraro, R. M., Capraro, M. M., & Morgan, J. (2010, September). *Building communities of learners: STEM project-based learning*. Invited presentation at the Collaborative Mathematics and Science Summit, San Antonio, TX.
37. Capraro, R. M., Capraro, M. M., & Scheurich, J. (2010, February). Aggie STEM center and STEM project-based learning and companion books. Invited presentation during T-STEM Best Practices Conference, Lubbock, TX.
38. Capraro, M. M., Capraro, R. M., & Corlu, S. (2009, November). *STEM project-based learning in urban classrooms*. Invited presentation during Science Education Seminar Series, Texas A & M University, College Station.
39. Capraro, R. M. (2009, October). *Building a STEM project based learning environment in urban high schools*. Nolan Estes Educational Plaza – Dallas Independent School District. Dallas, Texas.
40. Capraro, R. M. (2009, November). *Pathways to publication*. Symposium presented at the 37th annual conference of the National Middle School Association. Indianapolis, IN.
41. 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 Mathematics Teaching, Charles University, Prague, CZ.

42. Capraro, R. M. (2009, July). *Mathematics education research: A new era not a new paradigm*. Invited address at Boğaziçi University. Istanbul, TR.
43. Capraro, R. M. (2009, June). *Mathematical understanding: The nexus representational models and language*. Invited address at Università Degli Studi di Siena, IT.
44. Capraro, R. M., & Odell, M. (2009, January). *What can Texas STEM centers do for your district?* Invited address presented at the Texas Association of School Administrators, Mid-Winter Conference. Austin, TX.
45. 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.
46. Capraro, R. M., (2008, November). Successful grant writing experiences. Invited presentation at the Fall 2008 Faculty Development Series. College Station, TX.
47. Capraro, R. M., (2008, November). *Keynote: STEM education in the K-12 setting*. Invited presentation at the second annual Harmony Science Fair. Bryan, TX.
48. Capraro, R. M. (2008, October). *Dr. Math and project based learning*. Invited presentation at the *The T-STEM teacher conference*. Austin, TX.
49. 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.
50. Capraro, R. M. (2008, August). *Trainer of trainers' workshop*. Invited presentation at the STEM teacher master teacher workshop. College Station, TX.
51. Capraro, R. M. (2008, July). *PBL: Incorporating research-based best practices in the urban classroom*. Invited presentation at the Waco master teacher conference. College Station, TX.
52. Morgan, J., Capraro, R. M., & Capraro, M. M. (2008, June). *Stage storage PBL*, Invited presentation at the STEM Summer Institute. Dallas, TX.
53. Capraro, R. M. (2008, June). *Project based learning-Stage storage device*. Invited presentation at the 2008 Summer teacher institute. College Station, TX.
54. Capraro, R. M. (2008, June). *Project based learning-dilution and water quality*. Invited presentation at the 2008 Summer Teacher Institute. College Station, TX.
55. Capraro, R. M., Maxwell, G., & Capraro, M. M. (2008, January). *The mission of the NTSTEM center*. Invited presentation at the STEM Leaders Centers Meeting. El Paso, TX
56. Capraro, R. M. (2008, January). *Dr. Math and project based learning*. Invited presentation at the 2008 STEM Teacher Conference. College Station, TX.
57. Capraro, R. M. (2007, November). School science and mathematics. Session in R. M. Capraro (Chair). *Pathways to publication*. With M. Caskey, G. Andrews, P. Bishop, L. Daniel, M. Muir, & E. Pate), Symposium presented at the annual meeting of the National Middle School Association. Houston, TX.
58. Capraro, R. M. (2007, February). *Uniquely situated to make a difference*. Invited address at the Brazos Valley Cooperative Teacher Education Center. Bryan, TX.
59. 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.
60. Capraro, R. M., & Capraro, M. M. (2002, February). *TAAS: Analyzing the accountability instrument in the light of geometry misconceptions*. Paper presented at the annual Conference on the Teaching of Secondary Mathematics. Huntsville, TX.
61. Capraro, R. M., & Capraro, M. M. (February, 2001). *Displaying data for visual analysis*. Paper presented at the annual Conference on the Teaching of Secondary Mathematics. Huntsville, TX.

62. deVarona, F., & Capraro, R. (1998, February). *Understanding Hispanic-American contributions to the United States*. Presentation at U.S. Naval Research Facility, Arlington, VA.
63. deVarona, F., & Capraro, R. (1998, December). *Cultural awareness: The Hispanic contribution*. Presentation at George Mason University - Hispanic Heritage Committee. Washington, DC.
64. deVarona, F., & Capraro, R. (1998, December). *Culturally competent: Mexican-American traditions. Are we all Hispanics?* Presentation at the Bureau of Labor and Statistics. Washington, DC.

STUDENT PRESENTATIONS (DATE ORDER)

Student presentations under my direction indicate that I assisted in writing the proposals, guiding the research, revision of the paper, and preparation of the presentation. Since 2007, I have changed my modus operandi and now collaborate with students on all projects.

- Brooks, 'C. (2016, March). From Aggie STEM camp to Texas A&M University. Presented at Student Research Week, Texas A&M University, College Station, Texas.
- Rice, D. (2016, March). Spatial drawing task: A study in communication. Poster presentation for Student Research Week, Texas A&M University, College Station, Texas.
- Nite, S. B., Brooks, 'C., Rice, D., & Bicer, A. (2016, February). Diversity matters in informal STEM experiences. Poster presented at *Climate Matters Conference: A Dialogue on Climate, Inclusion and Respect*. College Station, TX
- Wright, K. B. (2007, February). *Effects of a standards-based approach on early grades preservice teachers' mathematics knowledge for teaching place value and fraction concepts*. Paper presented at the 30th annual meeting of the Southwest Educational Research Association. San Antonio, TX.
- Yetkiner, E. (2007, February). *Meta-analysis of mathematics cognitive development through hierarchical technological representations*. Paper presented at the 30th annual meeting of the Southwest Educational Research Association. San Antonio, TX.
- Bowden, K. N. (2007, January). *Designing and implementing a curriculum to efficiently improve minority learning*. Paper presented at the 11th annual meeting of the Educational Research Exchange. College Station, TX.
- Matus, O. (2007, January). *Understanding the theoretical concept for algebra: A case in middle grades*. Paper presented at the 11th annual meeting of the Educational Research Exchange. College Station, TX.
- Meredith, K. D. B. (2007, January). *The effects of implementing a problem solving strategy in a middle school classroom*. Paper presented at the 11th annual meeting of the Educational Research Exchange. College Station, TX. **College Level Paper Award**.
- Muzheve, M. T. (2007, January). *Do individualized mathematics learning experiences differentially impact home school and public school children?* Paper presented at the 11th annual meeting of the Educational Research Exchange. College Station, TX.
- Wright, K. B. (2007, January). *An analysis of teacher knowledge of fraction concepts in middle grades classrooms*. Paper presented at the 11th annual meeting of the Educational Research Exchange. College Station, TX.
- Yetkiner, Z. E. (2007, January). *The impact of technology on mathematics achievement and attitudes*. Paper presented at the 11th annual meeting of the Educational Research Exchange. College Station, TX.
- Young, J. R. (2007, January). *Does teacher dress matter?* Paper presented at the 11th annual meeting of the Educational Research Exchange. College Station, TX.

- Matteson, S. (2006, February). *Mathematical literacy and representations used on standardized mathematical assessments*. Paper presented at the 29th annual meeting of the Southwest Educational Research Association. Austin, TX.
- Ding, M., & Li, X. (2006, February). *Using teaching time effectively in mathematics classrooms*. Paper presented at the 29th annual meeting of the Southwest Educational Research Association. Austin, TX.
- Romero, C. (2005, April). *Who killed Bob Krusty? A dynamic calculus problem-solving event*. Paper to be presented at the 83rd annual meeting of the National Council of Teachers of Mathematics Research. Anaheim, CA.
- Ross, A. (2005, February). *Investigating the effects of teaching strategies on middle school students' understanding of equations*. Paper presented at the 28th annual meeting of the Southwest Educational Research Association. New Orleans, LA.
- Gilbert, M. C. (2005, February). *Teacher representational choices effect student mathematical understandings*. Paper presented at the 10th annual meeting of the Educational Research Exchange. College Station, TX.
- Romero, C. (2004, October). *Cognitive assessment of solutions to a D.P.S.E*. Paper presented and the annual meeting of School Science and Mathematics Association. Atlanta, GA.
- Romero, C. (2003, February). *Student understanding of derivative*. Paper presented at the 26th annual meeting of the Southwest Educational Research Association. San Antonio, TX.
- Fannin, D. (2003, February). *The use of manipulatives to increase understanding in high school geometry*. Paper presented at the 8th annual meeting of the Educational Research Exchange. College Station, TX.
- Lauzon, K. (2003, February). *Student attitude toward CAS in second semester engineering calculus*. Paper presented at the annual meeting of the Educational Research Exchange. College Station, TX.
- Parr, R. (2003, February). *Comparing preparedness for quizzes, actual quiz score, and perceptions about mathematics*. Paper presented at the annual meeting of the Educational Research Exchange. College Station, TX.
- Quesenberry, K. (2003, February). *Learning materials disseminated by the professor and their effectiveness on student learning*. Paper presented at the annual meeting of the Educational Research Exchange. College Station, TX.
- Rodriguez, F. (2003, February). *MAPLE in second semester engineering calculus*. Paper presented at the annual meeting of the Educational Research Exchange. College Station, TX.
- Sun, Y. (2003, February). *Comparing the teaching of fractions based on reform and traditional curricula in middle school mathematics*. Paper presented at the annual meeting of the Educational Research Exchange. College Station, TX.
- Taylor, J. M. (2003, February). *The opportunities universities have to impact our nation through embracing the remediation of our incoming freshman*. Paper presented at the annual meeting of the Educational Research Exchange. College Station, TX.
- Zientek, L. R. (2003, February). *Community colleges and alternative certification routes*. College Station, TX.
- Beser, S. (2002, February). *Integrating technology into mathematics: An internet approach*. Paper presented at the annual meeting Southwest Educational Research Association. Austin, TX.
- Butler, L. (2002, February). *Identifying motivational strategies: What we learn*. Paper presented at the annual meeting Southwest Educational Research Association. Austin, TX.

- Hammer, M. (2002, February). *The complexities of teacher-student and student-student interaction in the mathematics classroom*. Paper presented at the Educational Research Exchange. College Station, TX.
- Lewis, L. K. (2002, February). *Using the MBTI as a predictor of mathematics success at a traditionally Black university*. Paper presented at the annual meeting Southwest Educational Research Association. Austin, TX.
- Perez, A. I. (2002, February). *The role of mathematics anxiety, gender, and review on mathematics test performance for community college students*. Paper presented at the annual meeting Southwest Educational Research Association. Austin, TX.
- Romero, C. (2002, February). *Pedagogical effectiveness of non-traditional educators*. Paper presented at the annual Educational Research Exchange. College Station, TX.
- Ruiz, E. C. (2002, February). *Student motivation: A controversial issue*. Paper presented at the annual meeting Southwest Educational Research Association. Austin, TX.
- Sun, Y. (2002, February). *Using technology as a tool to reduce math anxiety*. Paper presented at the annual meeting Southwest Educational Research Association. Austin, TX.
- Foran, A., Bicer, A., Boedeker, P., Hill, T., & Kopparla, M. (2015, January). *Implementing STEM project-based learning in an inquiry-based classroom*. Presented at The 8th Annual Texas STEM Conference: Pathways to Student Success in STEM, Austin, TX.
- Boedeker, P., Bicer, A., Foran, A., Hill, K., & Kopparla, M. (2015, January). *Are you ready for the challenge? Teaching integrated STEM in grades 3-5. A model home and its thermostat*. Presented at The 8th Annual Texas STEM Conference: Pathways to Student Success in STEM, Austin, TX.
- Bicer, A., Foran, A., Boedeker, P., Hill, K., & Kopparla, M. (2015, January). *Interdisciplinary STEM project based learning for meaningful understanding*. Presented at The 8th Annual Texas STEM Conference: Pathways to Student Success in STEM, Austin, TX.
- Hill, K., *STEM in geometry*. Presented at The 8th Annual Texas STEM Conference: Pathways to Student Success in STEM, Austin, TX.
- Kopparla, M. (2015, January). *Preparedness of secondary school students for university level mathematics*. Presented at The 8th Annual Texas STEM Conference: Pathways to Student Success in STEM, Austin, TX.
- Lopez, R., Nite, S. B., & Hill, K., (2015, January). *Facilitating inquiry-based learning from theory to practice*. Presented at The 8th Annual Texas STEM Conference: Pathways to Student Success in STEM, Austin, TX.
- Hill, K., Foran, A., & Kopparla, M. (2015, February). *What is in the teacher's closet?* Presented at the Conference on the Teaching of Mathematics 6-12, Huntsville, TX.
- Kopparla, M., Hill, T., & Foran, A. (2015, February). *Change in mathematics teaching styles from secondary school to university level*. Presented at the Conference on the Teaching of Mathematics 6-12, Huntsville, TX.
- Nite, S. B. (2015, February). *Using sine curves to locate oil pockets for drilling*. Presented at the Conference on the Teaching of Mathematics 6-12, Huntsville, TX.
- Reeves, L. (2015, February). *Integrating taxicab geometry into the traditional geometry curriculum*. Presented at the Conference on the Teaching of Mathematics 6-12, Huntsville, TX.
- Lopez, R. (2015, February). *Correctly understanding and interpreting ANOVA interaction effects*. Paper presented at the Southwest Educational Research Association 38th Annual Meeting, San Antonio, TX.
- Kopparla, M. (2015, February). *A review of "corrected" versus "uncorrected" effect sizes*. Southwest Educational Research Association 38th Annual Meeting, San Antonio, TX.

- Hill, K. (2015, February). *Common misconceptions about whether restricted range always attenuates r* . Paper presented at the Southwest Educational Research Association 38th Annual Meeting, San Antonio, TX.
- Boedeker, P. J. (2015, February). *Evaluating the Van Hiele levels of pre-service mathematics teachers*. Paper presented at the Southwest Educational Research Association 38th Annual Meeting, San Antonio, TX.
- Hill, K. (2015, February). *Attitudes toward geometry proof writing*. Paper presented at the Southwest Educational Research Association 38th Annual Meeting, San Antonio, TX.
- Boedeker, P. J. (2015, February). *Cat's eye confidence intervals (CECIs) and regular CIs: Some neat but underutilized CIs*. Paper presented at the Southwest Educational Research Association 38th Annual Meeting, San Antonio, TX.
- Foran, A. L. (2015, February). *A clear explanation of fixed-, random-, and mixed-effects ANOVA models*. Paper presented at the Southwest Educational Research Association 38th Annual Meeting, San Antonio, TX.
- Kopparla, M. (2015, February). *How cognitive off-loading using dynamic geometry tools supports mathematics learning*. Paper presented at the Southwest Educational Research Association 38th Annual Meeting, San Antonio, TX.
- Foran, A. L., Bicer, A., & Boedeker, P. J. (2015, February). *Pre-service teachers' perception of mathematics*. Southwest Educational Research Association 38th Annual Meeting, San Antonio, TX.
- Navruz, B., Bicer, A., & Ritter, N. L. (2015, February). *Reliability generalization of the survey of attitudes toward statistics (SATS)*. Southwest Educational Research Association 38th Annual Meeting, San Antonio, TX.
- Kopparla, M. (2016, February). *Exploratory and confirmatory factor rotation strategies*. Paper presented at the annual meeting of Southwest Educational Research Association, New Orleans, LA
- Boedeker, P. (2016, February). *Bootstrap and outliers: A simulation study*. Paper presented at the annual meeting of Southwest Educational Research Association, New Orleans, LA
- Drey, L. (2016, February). *Changes in student affect towards math and science during STEM summer camp*. Paper presented at the annual meeting of Southwest Educational Research Association, New Orleans, LA
- Foran, A. L. (2016, February). *Generalizability theory: Introduction, computation, and decision-making*. Paper presented at the annual meeting of Southwest Educational Research Association, New Orleans, LA

EDITING AND MENTORING WORKSHOPS DELIVERED

- 2006 Editors' Mentoring Roundtable Session For Early-Career Scholars, American Educational Research Association Annual Meeting.
Mentees: Matthew Quirk, Eduardo Mosqueda, Sham'ah Md-Yunus, Cristal Jones, Frances Spielhagen, Yan Ping Xin, Naomi Kent
- 2005 Editors' Mentoring Roundtable Session For Early-Career Scholars, American Educational Research Association Annual Meeting.
Mentee: Elaine Chan Student Experiences of a Culturally-Sensitive Curriculum',
Published in the Journal of Curriculum Studies.

HONORS, AWARDS AND RECOGNITIONS

- 2016 Outstanding Commitment to Excellence and Innovation in Distance Learning by an Organization (4-Year Higher Education)
- 2016 Association of Former Students –Outreach Nominee

- 2016 Award for Excellence in eLearning, Global LearnTech Congress
- 2012 International Conference on Engineering Education Best Paper Award
- 2010-11 NCES Algebra 9th Grade Study NSF Evaluation Panel Washington DC
- 2008 Nominee for the Presidential Award of Excellence for Faculty Service to International Students Texas A&M University
- 2007 Joann Treat Research Award Winner for the College of Education and Human Development Texas A&M University
- 2007 Educational Testing Service- Visiting Scholar, Princeton NJ
- 2006-07 President- Southwest Educational Research Association
- 2006-09 Research Advisory Committee- National Middle School Association
- 2004-05 Elected Member at Large- Conference Committee Research Council for Mathematics Learning
- 2002 CTE-Montague Scholar Texas A&M University
- 2001 Appointed to the Regents' Initiative for Excellence in Education's Academy for Educator Development; Regents' Fellow

GRADUATE STUDENT AWARDS AND RECOGNITIONS

- 2015 **Ayse Tugba Oner** TLAC PhD Honor Student Award
- 2015 Student Research Week Award **Ayse Tugba Oner** 2nd place
- 2015 CEHD Strategic Scholarship to **Ali Bicer** \$34,000 salary
- 2014 Diversity Scholarship Award **Ali Bicer**
- 2012 Distinguished Graduate Student Award College of Education and Human Development. **Sandra Nite**.
- 2012 Barbara Bush Fellow at TCALL for 2012-2013- **Amber Godwin** \$25,000
- 2010 Student Research Week Session Winner and Second Place overall in CEHD – **Sandra Nite**
- 2010 Student Research Week Second Place undergraduate overall in CEHD – **Kayla Garner**
- 2008 Loeb Prize for Teaching Excellence in Mathematics and Science – **Emilie Grimi-Naiser** **\$10K**
- 2008 U. S. Senator Phil Gramm Doctoral Fellowship Award-Winner **Diana L. Piccolo** **\$5K**
- 2007 College of Education and Human Development Nominee for the Philanthropic Educational Organization Scholar Award – **Danielle Kotara**
- 2007 L. T. Fellows Nominee for International Studies Award - **Melanie Nicole Woods**
- 2007 Dissertation of the Year Award – **Linda R. Zientek**
- 2007 Inaugural College of Education and Human Development, 2007 Outstanding Alumni Early Career Award honoree **Emilie Grimi-Naiser**
- 2007 Southwest Educational Research Association Best Paper Award- **Meixia Ding & Xiaobao Li**
- 2007 College Level Research Award – Educational Research Exchange **Krystal Meredith**
- 2006 College Level Research Award – Educational Research Exchange Shirley Matteson
- 2004 Department Level Research Award- Educational Research Exchange Shirley Matteson
- 2005 Fulbright Scholar, Japan, Emilie Grimi-Naiser

VISITING SCHOLARS SPONSORED

- 2007-2008 Hae Gyu Kim Jeju University South Korea
- 2011-2012 Ozcan Erkan Akgun Sakarya University, Turkey
- 2012 Nesrin Ozsoy Adnan Menderes University, Turkey

- 2013 Zeynep Gecu Middle East Technical University, Turkey
 2013 Sabhia Yeni Middle East Technical University, Turkey
 2016 Arif Comek, Marmara University, Turkey
 2016 Yavuz Erdogan, Marmara University, Turkey

EDITING, JOURNAL, & GRANT REVIEWING

- 2014 Editorial Panel *Journal for Research in Mathematics Education* 2014 through April 30, 2017
 School Science and Mathematics Associate Editor
 Middle Grades Research Journal Associate Editor
 Reviewer Journal of Mathematical Behavior
 Asia Pacific Educational Review Reviewer
- 2013 School Science and Mathematics Associate Editor
 Middle Grades Research Journal Associate Editor
- 2012 Journal for Research in Mathematics Education
 Research in Mathematics Education
 Research in Middle Level Education
 Middle Grades Research Journal
 American Education Research Journal
 Journal of STEM Education
- 2011 Panel Reviewer National Science Foundation
 Panel Reviewer Institute for Educational Science
 External Reviewer Social Science and Humanities Research Council of Canada
 Journal of Research on Middle Level Education
 Middle Grades Research Journal
 Journal for Research in Mathematics Education
 Editorial Board Middle Grades Research Journal
 Editorial Board Research in Middle Level Education
 Associate Editor School Science and Mathematics
 Journal Reviewer Journal of Mathematical Behavior
 Journal Reviewer Journal of Educational Psychology
 Journal Reviewer American Educational Research Association
 Journal Reviewer Educational Researcher
- 2010 External Reviewer University of California, SANTA CRUZ – Tenure and Promotion
 External Reviewer - City University of New York (CUNY). The Collaborative Incentive Research Grant (CIRG) panel from the office of the Vice-Chancellor for Research.
 External Reviewer – Social Sciences and Humanities Research Council of Canada
 Grant Proposal Reviews
 External Reviewer - Jackson State University's Center for University Scholars
 Junior Faculty Grant Awards
Journal of Mathematical Behavior
Research in Middle Level Education
Educational Researcher
American Educational Research Journal
- 2009- Present Review- *Journal of Experimental Child Psychology; Journal of Mathematical Behavior*
- 2008- Present Reviewer- *Educational and Psychological Measurement*

- 2007- Present Reviewer- *Journal of Experimental Education*
- 2007-2012 **Editorial Board** *Research in Middle Level Education- Online*
- 2006-2017 **Editorial Board** *Middle Grades Research Journal*
- 2006-2014 **Associate Editor** *School Science and Mathematics*
- 2005-2006 **Guest Editor** *Reading Psychology*
- 2005-Present Reviewer *Journal for Research in Childhood Education*
- 2003-Present Reviewer *Journal for Research in Mathematics Education*
- 2004-2007 **Associate Editor** American Educational Research Journal
- 2004-Present Reviewer AERA Annual Meeting Divisions C & K, Middle Level Education Research, Research in Mathematics Education
- 2003-Present Reviewer RCML Annual Meeting
- 2002-Present Reviewer AERA Annual Meeting SIGs Bootstrapping, Research in Mathematics Education, Middle Level Education Research, RME, Division C & K
- 2003-Present Reviewer SERA Annual Meeting
- 2003-2005 Reviewer Focus on Learning Problems in Mathematics
- 2002-2004 Reviewer PME-NA 2002 Annual Meetings: Athens, GA and Hawaii
- 2002-Present Guest Reviewer Psychological Reports: Perceptual and Motor Skills
- 2001-2003 Reviewer for AACTE Annual Meeting: LA, Atlanta
- 2001-2002 Reviewer for Louisiana Association of Teachers of Mathematics
- 2001 Reviewer for MSERA 2001 Annual Meeting: Little Rock
- 2000-Present Referee for Teaching Children Mathematics.
- 2000-2007 Referee for School Science and Mathematics Journal
- 1998 Multicultural Reviewer for Middle School Math, Course 1 & 3, Scott Foresman Addison Wesley: Chicago, IL.
- 1998 Reviewed Citibank Grants for teachers and teacher educators. Citibank Foundation. Miami, Florida

GRANTS

Submitted - unfunded

- 2016 ***Collaborative Research: Community Based STEM Pathways to Higher Education.*** Co-PI with Barroso, L., Nite, S., Capraro, M.M., and Bicer, A. Submitted to National Science Foundation, 9/17-8/21. \$2,258,684.00
- 2016 ***Exploring Marine Robotics: Mar-Robotics. Internal Evaluator with Capraro, M.M., and PIs Irby, B., Song, D., Tong, F., Lara, R.,*** Submitted to the National Science Foundation 5/17-6/19. \$300,000
- 2016 ***STEM After School for Under Represented Teens (STEM ASURT).*** Co-PI with Nite, S. B., Barroso, L. R., & Capraro, M. M. Grant Pre-proposal submitted to U.S. Department of Education Investment in Innovation (i3). 1/1/2017 - 12/31/2021. \$2,493,031
- 2016 ***Developing Math Literate Citizens with 21st Century Skills (DMLC²S).*** CoPI with M. M. Capraro. Submitted to Texas Workforce Commission. \$500,000, 7/16-12/17.
- 2016 ***Braitmayer Aggie STEM Teacher Boot Camp.*** CoPI with S. B. Nite. Letter of Intent submitted to Braitmayer Foundation, \$35,000. 8/1/2017-7/31/2018.
- 2016 ***Successful Bridge Program Characteristics.*** Co-PI with S. B. Nite. Submitted to Spencer Foundation Small Research Grant, \$44,344. 8/1/2016-10/31/2017.
- 2016 ***Snook ISD Follow-up Study and Intervention,*** Co-PI with L. Burlbaw, M.M. Capraro, et al. Catapult Grant. Internal. Submitted \$37,931.
- 2015 ***Utilizing Teaching Lab Video Clips in Teacher Professional Development for STEM Project-Based Learning.*** Co-PI with S. Nite, L. R. Barroso, & M. M. Capraro. Submitted to National Science Foundation, \$422,511. 9/1/2016 – 8/31/2019.

- 2015 ***Translational Application of STEM Research for Transformational Secondary Teaching (TASR)***. PI with M. Capraro, P. K. Imbrie, S. Nite, T. Hammond, W. Rupley, & L. R. Barroso. Submitted to the National Science Foundation. 2,867,152.00 12/15
- 2015 ***Exploration of Snook ISD as a CEHD Lab School***. Co-Pi with L.M. Burlbaw, M. M. Capraro, and 16 others. Submitted to the College Catapult Grant Competition. \$11,911. 12/16
- 2015 ***Pioneering Research for Informal STEM Models (PRISM)***. Co-PI, with M.M. Capraro, L. Barroso, & S. B. Nite. Submitted to National Science Foundation, \$143,974. 4/1/2016-3/31/2017.
- 2015 ***The National Informal STEM Learning Resource Center @ Aggie STEM (NISLRC@Aggie STEM)***. R. M. Capraro PI, with CoPi L. Barroso, E. McTigue, S. Nite, M. M. Capraro, Z. Eslami, & L. Q. Dixon. Submitted to National Science Foundation. \$5,000,000. 3/16 – 2/21.
- 2015 ***Examining Secondary Mathematical Achievement and Cognitive Engagement Structures***. Submitted to National Science Foundation. Co-PI with Capraro, R. M. (PI), Barroso, L., & Capraro, M. M., \$500,000. Submitted to NSF for Funding period 4/01/2016-3/31/2019.
- 2015 ***University Consortium for Promoting and Re-Invigorating STEM Education (UC-PRiSE)***. PI: R. M Capraro, Role: CoPI with L. Barroso, M. M. Capraro, S. Nite, F. Bernat, & F. Nave. Submitted to the National Science Foundation for \$2,873,504, 10/16-8/21 Resubmit.
- 2015 ***Supporting Mathematics in STEM Education (SMSE)***. Submitted to Texas Higher Education Coordinating Board. CoPI with Nite, S. B., Allen, G. D., Barroso, L., & Capraro, M. M., \$747,482. Funding period 2/01/2016-4/30/2017.
- 2015 ***STEM After School for Under Represented Teens (STEM ASURT)***. Submitted to U. S. Department of Education. PI Nite, S. B. with Co-PI's Barroso, L., Capraro, R. M., & Capraro, M. M., \$2,573,489. Funding period 1/01/2016-12/31/2020.
- 2015 ***iSucceed***. Submitted as subaward for Grand Prairie ISD grant submitted to U. S. Department of Education. PI Nite, S. B. with Co-PI's Barroso, L., Capraro, R. M., & Capraro, M. M., \$707,392. Funding period 1/01/2016-12/31/2018.
- 2014 ***VMC- Professional Development***. Co-PI with MM Capraro. Submitted National Science Foundation \$956,293
- 2014 ***Integrating Computing with STEM for the 21st Century***. Submitted to National Science Foundation. PI with Sandra Nite, James Morgan, Mary Margaret Capraro. \$5,287,204.
- 2014 ***EXP: Thinking and Learning in Technology Ecologies***. Submitted to National Science Foundation. CO-Pi with Francis Quek, Richard Furuta, Frank Shipman, and Stephan Cafey. \$549,985
- 2014 ***STEM Teaching and Learning Center: Education, Mathematics and Technology in Basic Education***. Submitted to CAPES (internal TAMU –exploratory) with L. Barroso, J. Morgan, & MM. Capraro on 1/14 for \$50,000.
- 2014 ***Investigation the Video Mosaic Online Model for Teacher Professional Development***. Submitted to National Science Foundation with Carolyn Mahr, Marjory Palius, & MM Capraro. 7/15-6/19 \$964,808.
- 2013 ***Disentangling the Role of Reading in Solving Math Word Problems Using Project LISTEN*** Co-Pi with Capraro, M.M., and Rupley, W. **Submitted Institute of educational Sciences Submitted \$1,599,546**

- 2013 *TAMUS Consortium for STEM Teaching and Learning*. TX-MSP. Submitted **Co-PI with Mary Margaret Capraro, Jim Morgan, G. Don Allan, Tim Scott, Sandra Nite, and Cherylann Peterson et al. \$10,000,000. Submitted Texas Education Agency.**

Funded (Total Funded ~\$19,589,701.00 Since 2000)

- 2016 **Literacy-Infused Science Using Technology Innovation Opportunity (LISTO), a 5-Year Longitudinal Validation Project.** Co-PI with Lara, R., Irby, B., Capraro, M.M., Tong, F., and Jones, R. Institute of Education Sciences, 8/17-7/21 \$12,000,000
- 2016 **Mentoring Pathways to Higher Education in STEM (MPHES).** PI – Mary M. Capraro. CoPIs – Luciana Barosso, Tarcia Hubert, & Robert M. Capraro. Submitted to Department of Teaching, Learning and Culture, Texas A&M University, College Station, TX, Awarded 1/17 – 9/17 \$34,040
- 2016 **Preservice Mathematics Teacher Training with Byte.** Co-Pi with Nite, S., Barroso, L., Capraro, M.M., Submitted to Google Corp. 1/17-12/18. \$299,751.00
- 2016 **Snook ISD Exploratory Study and Root Cause Analysis.** Co-PI with L. Burlbaw, M.M. Capraro, et al. Catapult Grant- Internal \$11,911. 2/16-3/16
- 2016 **Supporting Mathematics in STEM Education (SMSE).** R. M. Capraro (Co-Pi) with S. B. Nite PI, Allen, G. D., Barroso, L. R. & Capraro, M. M. Texas Higher Education Coordinating Board, \$283,327. 2/01/2016-4/30/2017
- 2015 *State Farm Empowering Underrepresented Students to Enter STEM Fields.* State Farm. Bloomington, IL. PI with M. M. Capraro, A. Bicer, S. Nite, and L. Barroso. **Funded \$40,000**, awarded August 2015-August 2016.
- 2015 *Investigations in Secondary Mathematics and Science* (continuation). CO-PI with Nite, S. B., Allen, G. D., Morgan, J., and Capraro, M. M. Texas Higher Education Coordinating Board, **Funded \$333,000**, 2/2015-4/30/16.
- 2015 *Aggie STEM Summer Camp.* PI with Nite, S. B., Barroso, L. B., and Capraro, M. M. State Contract. **Funded \$253,000**. 5/15-4/16.
- 2015 *Fallbrook ISD Professional Development.* Co-PI with Capraro, M. M. Barroso, L. B., and Nite, S. B. ISD Contract. **Funded 30,000**. 9/15-8/16
- 2014 *Investigations in Secondary Mathematics and Science.* Role: CoPI with S. Nite, R. M. Capraro, L. Burlbaw, C. Peterson, L. Walters, M. Green, & D. Allen. Texas Higher Education Coordinating Board. **Funded for \$256,000**, 2/14-4/15.
- 2014 *Math and Science Partnership. Aggie- Science, Technology, Engineering and Mathematics Center.* Co-PI with Drs. M. M. Capraro, and Morgan, Funded **\$576,985** 7/14-8/15.
- 2013 *Stem Collaborative For Teacher Professional Learning.* Texas Higher Education Coordinating Board, PI with MM Capraro, Waxman, Morgan, Stillisano, and Scott. **Funded \$769,422** 6/13-8/15
- 2013 *Developmental Ed Dem Program.* Texas Higher Education Coordinating Board. **Funded 49,996**. Pi RM Capraro, with MM Capraro & N. Chaudhuri. 1/13-3/15
- 2013 *Research Development and Data Dissemination at Harmony Public Schools.* Harmony Public Schools. PI with Sahin, A. **Funded \$42,000. 8/13-7/14**
- 2013 *Math and Science Partnership. Aggie- Science, Technology, Engineering and Mathematics Center.* Co-PI with Drs. M. M. Capraro, and Morgan, Funded **\$621,191** 7/13-8/14.
- 2013 *Snook ISD - Stem Training.* PI, with MM Capraro, Snook ISD, **Funded \$12,000**, 3/1/13 – 8/30/13
- 2013 *THECB-Developmental Education.* Funded. CO-Pi with Mary Margaret Capraro. Texas Higher Education Coordinating Board, **Funded 9,999. 1/13-3/15**

- 2013 STEM Training at Akins HS **PI** with J. Morgan and MM Capraro. Austin ISD Funded **\$10,000. 1/13-12/13**
- 2013 *Evaluation of the Accelerate Texas, the Adult Basic Education Innovation Grant Program.* Funded Co-Pi. Texas Higher Education Coordinating Board, **Funded \$250,000. 9/13-10/15**
- 2013 *Akins High School Professional Development.* **PI** with J. Morgan and MM Capraro Austin ISD Funded. **\$3,201 5/1/13 – 5/30/13**
- 2012 *Developmental Education Demonstration Project Evaluation 2012-2015 : Co-Pi* with Jim Dyer, M. M. Capraro. Texas Higher Education Coordinating Board, **Awarded \$949,998, 11/1/12 – 3/15/15**
- 2012 *STEM MS Online Degree Program Planning Grant.* Co-PI with Carol Stuessy, **College of Education and Human Development. Awarded \$10,000**
- 2012 *Aggie STEM Summer Camp.* Co-PI with M. M. Capraro, & J. Morgan. **Energized for STEM Academy, Inc. Awarded \$110,000**
- 2012 *Akins High School One-Day STEM Experience on A&M Campus.* Austin ISD Funded. **\$3,201 5/1/12 – 5/30/12**
- 2011 *Math and Science Partnership. Aggie- Science, Technology, Engineering and Mathematics Center.* PI with Drs. M. M. Capraro, and J. R. Morgan, Awarded **\$800,000 8/1/11- 7/31/13**
- 2011 *Comprehensive Review of P-16 College Readiness and Success Initiatives.* 2011-2012: Co-PI with Jim Dyer and M.M. Capraro Texas Higher Education Coordinating Board. Awarded August 11, 2011- **\$199,193, 9/1/11-8/31/12**
- 2011 *Aggie STEM Summer Camp.* Co-PI with M. M. Capraro, J. Morgan, & J. Scheurich. **Energized for STEM Academy, Inc. Awarded \$135,000**
- 2011 *Developmental Education Demonstration Project Evaluation 2011-2012 : Co-Pi* with Jim Dyer, M. M. Capraro. Awarded April, 2011 to Texas Higher Education Coordinating Board, **Awarded \$399,998, 6/10/11 – 10/31/12**
- 2011 *Fostering TAMU Pre- Service Teachers' Awareness of STEM College and Career Readiness Standards.* Co-PI with MM. Capraro and James Morgan. Texas Higher Education Coordinating Board - College and Career Readiness Initiative: Faculty Collaborative in Mathematics (CCRIFCM) **Awarded \$ 10,000 5/1/2011-4/30/2012**
- 2010 *Math and Science Partnership. Aggie- Science, Technology, Engineering and Mathematics Center.* Co-PI with Drs. M. M. Capraro, Morgan, and Scheurich **Awarded \$ 500,000**
- 2010 *Energized for STEM Academy Inc. Aggie STEM Summer Camp.* **PI Awarded \$103,000 State Funding.**
- 2009 *International Research Travel Assistance Grant. Algebraic Equivalence in Italy & Turkey: Building Bridges Through Research to Improve Early Algebraic Teaching and Learning in the U.S. PI* **Awarded \$1,700 Local Funded**
- 2008 *Texas Education Agency, M-STAR,* **Awarded \$900,000 State Funded 2008-2010**
- 2007 *Researched-based Inquiry in Elementary Teacher Preparation Quality Enhancement.* **Co-PI** with Dr. Goldsby **Awarded \$10,000 State Funded**
- 2007 *New Traditions.* **Co-PI** with Drs. Lewis and Carpenter, Davis, Collins, Quiroz **Awarded \$349,000: 2007-2010**
- 2006 *Texas Education Agency. Texas- Science, Technology, Engineering and Mathematics Center. Supplemental grant.* **Co-PI** with Drs. Scheurich and Slough **Awarded \$200,000 2006-2010**
- 2006 *Texas Education Agency. North Texas- Science, Technology, Engineering and Mathematics Center.* Co-PI with Drs. Scheurich and Slough **Awarded \$ 1,000,000**
- 2005 *College of Education and Human Development. Research Methodologies Training Workshop for Professional Development.* PI Local Funding. **Awarded \$1,000**
- 2004 *Regent's Initiative Collaborative Grant. Longitudinal Influences of Conceptual*

- Mathematics on Teacher Classroom Enactments?* Local Funding. Application. With CoPI with Dr. Mary M. Capraro. Local Funding. **Awarded \$18,600**
- 2003 Regents' Initiative Collaborative Grant. *Identifying the Factors Influencing Alternative Certification Teacher Retention*. Local Funding. **Awarded \$10,000.00.**
- 2003 Regents' Initiative Collaborative Grant CoPI with Ms. Linda Zientek, Ms. Robyn Bassett, Drs. Lynn Burlbaw and Mary Margaret Capraro. Local Funding. **Awarded \$11,000**
- 2002 Regents' Initiative Collaborative Grant. *Alternative Certification: Measuring Influence and Impact on Teacher Preparation*. Local Funding. Collaboration with CoPIs Ms. Linda Zientek, Ms. Becky Darcy, Drs. Nancy Allen, Lynn Burlbaw, and Mary Margaret Capraro. Local Funding. **PI Awarded \$11,000**
- 2002 Regents' Initiative Fellowship Grant. *Systemic Integration of Technology in the Preservice Teacher Education Program*. Submitted in coordination and cooperation Co-PI with Drs. Nancy Allen and Mary Margaret Capraro. Local Funding. **PI Awarded \$10,000**
- 2001 *Item Analysis and Revision Protocol Development: A Case Study*. Washington, DC:AAAS, PI National Funding Subcontract. **Awarded \$19,343.**
- 2001 International Travel Grant. (College of Education-IPECC). *Investigating Cultural Phenomena Related to Mathematics Achievement and Reform Textbook Selections in the Bahamas: A Contrast of an American Study*. **PI Awarded \$500.00**
- 2001 Regent's Initiative Grant. *Effective Teacher Preparation: Comparison of Professional Development School Interns, Integrated Methods' School Interns and Year-long Inquiry Project Interns and their Effect on Student Success in Public School*. **Awarded \$40,000.00.**
- 2000 Professional Enhancement Grant. College of Education. Local Funding. Awarded \$700.00
- 2000 Woman's History Month Grant. Endowment U. of Southern Mississippi. **Awarded \$750.00**
- 1998 Title VI Region Grant - Teachers Teaching Teachers. State Funded. **PI Awarded \$60,000.**
- 1997 Title VI grant in cooperation with Florida International University for Teacher Training. State of Florida. **PI Awarded \$10,000**
- 1994 Retrofit for Technology Grant. State of Florida. **PI Awarded \$263,000.**
- 1994 Eisenhower II Mathematics Cooperative Planning Grant, District funding. **PI Awarded \$1,200.**
- 1993 Tomorrow's Technology Today! Apple Education Foundation. **PI Awarded \$120,000.**
- 1993 Eisenhower II Math Grant awarded. District Funding. **PI Awarded \$1,200,**
- 1993 Technology Incentive Grant awarded, State of Florida. **PI Awarded \$90,000**

SERVICE

- 2016 College 50th Anniversary Committee
- College Tenure and Promotion Committee (College) 2-years
- Post Tenure Review Document Revision Committee
- External Reviewer Department of Developmental and Social Psychology of the University of Padova, Italy
- RMS Certificate Working Group (College)
- University 3-Minute Thesis Committee & Judge
- A1- Document Review (Department)
- Post Tenure Review Document Development Committee (Department)
- External Reviewer University of Toledo
- Diversity Fellowship Competition Reviewer (University)

- College Principle Investigators Committee (3-year term)
 University Three-Minute Thesis Competition (Organizing Committee)
 College Search Committee ABBA
 Science Education Search Committee
 EAHR Search Committee
 University TSOC Committee
 Inter-College Committee on Undergraduate Teaching College of Science and Education
 College Representative to AAU Undergraduate STEM Education Initiative
 TAMU World of STEM Opportunities Organizing Committee
- 2015**
- Hour of Code -Committee
 College Doctoral Program Committee
 University TSOC Committee
 University Three-Minute Thesis Committee
 College Principle Investigators Committee (3 year term)
 College of Education and Human Development Center Review Committee
 Search Committee for EAHR
 Community of Scholars Table Host for Office of Graduate and Professional Studies
 Three-Minute Thesis Competition (Organizing Committee)
 Advanced Research Methods Certificate Revision Committee (College)
 Texas Science and Engineering Fair Judge, San Antonio, Texas
- External Reviewer Old Dominion University
 External Reviewer University of Tennessee
 Faculty Connect | Grad Camp 2015 Discussant (University)
 College Search Committee ABBA (Hired Mary Seifert)
 Department A-1 Revision Committee
 Developed STEM Masters Program
- 2014**
- External Reviewer University of Missouri, Columbia
 Editorial Board Member Journal for Research in Mathematics Education 3-year term
 External Reviewer Texas A&M Kingsville, Kingsville
 Faculty Development Leave Committee
 Journal Reviewer Journal for Research in Mathematics Education
 Journal of Mathematical Behavior
 Judging Information for 3 Min. Thesis Comp
 Faculty Development Leave Committee
 Capraro, Capraro, Thompson, Research Conference
 EdD Steering Committee
 EdD Applicant Screening Committee
- 2013**
- Hosted the Climate Committee's Progressive Dinner at my home
 External Reviewer Baylor University, Waco
 External Reviewer U. Texas Brownsville, TX
 External Reviewer Mount St. Mary College, NY
 External Reviewer Arizona State University, AZ
 External Reviewer University of Massachusetts, Amherst
 TLAC EdD Steering Committee
 TLAC Evaluation Committee

TLAC Graduate Committee
 Co-Chair STEM Best Practice Conference (San Antonio)
 Reviewer Journal of Educational Psychology
 Reviewer Journal of Mathematical Behavior
 Reviewer Journal for Research in Mathematics Education
 Reviewer American Educational Research Journal
 Advisory Board Member Harmony Public Schools
 Reviewer Journal of African American Studies
 Chair Cyber-Learning Search Committee
 Chair Call for Editorial Services
 Reviewer Research in Middle Level Education On-line
 Co-Chair Celebration of STEM Education Week
 Co-Chair STEM Summer BootCamp for Teachers
 Conference Paper Reviewer SSMA, AERA, NCTM
 NSF Grant Proposal Reviewer
 SSMA Policy Committee

2012
 Reviewer Journal of Developmental Education
 External Reviewer Northern Illinois University
 Reader Navarro Elementary Parents Back to School Nite
 Graduation Speaker Navarro Elementary
 Advisory Board Member Harmony Public Schools
 External Reviewer University of North Carolina Charlotte
 External Reviewer Illinois State University
 Reviewer Journal of Educational Psychology
 Reviewer Journal for Research in Mathematics Education
 Reviewer American Educational Research Journal
 TLAC Evaluation Committee
 TLAC Graduate Committee
 Innovation in STEM Education Conference, Advisory Board Member
 Co-Chair STEM Best Practice Conference (San Antonio)
 Research Advisory Board Member Final Year
 TLAC EdD Steering Committee

2011
 Conference paper reviewer, AERA, NCTM, SSMA
 Innovations in STEM Education Conference, Advisory Board Member
 National Middle School Research Advisory Board
 Council Member of the Middle Level Education Research Special Interest Group
 of the American Educational Research Association
 College Committee on Post Tenure Review- Develop a College Policy
 College Committee on Identification of a Cyber Learning Specialist
 Texas Partners in P-16 Mathematics (TPiPM)
 Reviewer Educational Administration Quarterly
 Texas Education Agency Mathematics Expert Reviewer
 Graduate Committee
 Capraro, Capraro, Gonzalez, & Thompson Educational Research Conference
 Mathematics Program Reviewer – Sitka Public Schools
 External Reviewer – T&P University of North Texas
 Evaluation Committee (revised A1)

- 2010** **Invited Workshop** - Editor's Roundtable Meeting – Sam Houston State University
 External Member for Cathleen Rossman Rutgers Graduate School of Education
 Brown-Rudder and Gates-Mueller Outstanding Student Award Selection Committee
 Catalyst Grant Review Committee Chair
 Reviewer for Standard Research Grants program of the Social Sciences and Humanities Research Council of Canada (SSHRC)
 Council of Principal Investigators CEHD Chair
 Capraro, Capraro, Gonzalez, & Thompson Educational Research Conference
 iSWEEEP Judge and conference planning committee
 Institute of Education Sciences – Mathematics and Science Review Panel
 National Science Foundation- REESE Review Panel
 Science Fair Judge Harmony Bryan
- 2009** University Committee on Illegal Discrimination
 Capraro, Capraro, Gonzalez, & Thompson Educational Research Conference
 iSWEEEP Judge and conference planning committee
- 2008-2009** University Committee on Illegal Discrimination
 University Level AFS Awards Committee
 Teaching, Learning and Culture Assistant department head for research
 2008 CEHD Outstanding Alumni Selection Committee
 University Search Advisory Committee for CIS Director & Deputy CIO (on-going)
 iSWEEEP Judge 5/1-5/4/08 and conference committee one year planning
 Harmony Schools Science Fair Judge
 Chair – Council of Principle Investigators
 Deans Council - Member
- 2007-2008** College of Education and Human Development Council of Principal Investigators (8/31/07-8/31/10)
 College of Education and Human Development Research Methods Certificate Committee
 University Search Advisory Committee for CIS Director & Deputy CIO
 Teaching Learning and Culture Evaluation Document Committee
- 2006-2007** President Elect/Program Chair-*Southwest Educational Research Association*
 National Middle School-Research Advisory Board Conf. Proposal Reviewer.
 Department Research Core Committee
 Appointed to the *Research Advisory Board* to the *National Middle School Association* (2007-2010).
 Undergraduate Curriculum Committee (2007-2010)
 College Level Technology Work Group
- 2005-2006** Search Committee Science Education
 College Task Force on Graduate Studies Report
 Middle Grades Research Journal *Editorial Board*
 Associate Editor School Science and Mathematics (2006-2009)
- 2004-2005** SERA Newsletter Editor (2005-2007)
 Committee Member Hispanic Research Issues SIG Award for Research in Elementary, Secondary or Postsecondary Education 2005
 Editorship Proposal of SSMJ to TAMU with Gerald Kulm Awarded
 RCML Conference Committee (2004-2007)

SSMA Policy Committee (2005-2007)
 Consolidated the TLAC Graduate Faculty List
 College Task Force On Graduate Studies
 Search Committee Mathematics Education
 Search Committee Science Education

2003-2004

AERJ Associate Editor (2003-2007)
 Revised Mathematics Education Courses
 Department Evaluation Committee

2002-2003

Proposal to bring AERJ editorship to TAMU with Bruce Thompson.
 Student Evaluation Committee (member)
 Strategic Planning Committee (member)
 Department Head Search Committee (member)
 Mathematics Education Benchmarking Report
 Strategic Planning Committee
 Will Ferrell Scholarship Fund Committee (member)
 Educational Research Exchange (Faculty Representative)
 TLAC Student ERE Research Award (Chair)
 Outstanding Support Staff Committee (member)
 Technology Committee (member)
 Student Services Committee (member)

2001-2002

Outstanding Support Staff Award Committee (member)
 Appointed GCR of Talal M. Alkharobi (Computer Engineering)
 Student Research Week In-field Judge
 Educational Research Exchange Awards Committee (member)
 Educational Research Exchange Outstanding Student Paper Committee (member)
 College Committee on Graduate Student Recruitment (member)
 Faculty Search Committee for tenure track and clinical faculty positions
 (member)

2000-2001

Faculty Evaluation Committee
 Student Research Week Out-of-Field Judge
 Field based school involvement
 Mathematics Coordinator (Field based programs)
 Team Leader (Field based programs)
 Elementary Programs Committee
 Technology Committee
 Developing a Summer Masters Program in Mathematics Education with Dr. P. Larke
 and Gerald Kulm

CURRICULAR REVISIONS

EDCI 628 Analyzing and Reporting Field Based Research (Update for On-line EdD)
 EDCI 628 Analyzing and Reporting Field Based Research (Update for On-line)
 EDCI 627- Teaching and Learning Data Analysis and Unct. Cpts. (Update for Ed.D online.)
 EDCI 627- Teaching and Learning Data Analysis and Unct. Cpts. (Revision for Ed.D online.)
 EDCI 622- Theories of Teaching and Learning Mathematics
 EDCI 621- Teaching and Learning Space, Dimension, and Measurement Concepts
 EDCI 689- Mathematics Research in Application
 EDCI 489- Special Topic- Middle Grades Mathematics Problem Solving

EDCI 689- Theories of Teaching and Learning in Mathematics
 EDCI 624- Assessing Cognitive Structures Related to Learning & Teaching Mathematics
 EDCI 625- Teaching and Learning Mathematics with Special Learners
 EDCI 689- Analyzing and Reporting Field-based Research
 EDCI 690- Theory of C&I Research
 EDCI 627- Teaching and Learning Data Analysis and Uncertainty Concepts
 EDCI 623- Teaching and Learning Patterns and Change

COURSES TAUGHT

2017

2 course buyouts

2016

EDCI 627

EDCI 628

EDCI 689

1 course buyout

2015

3 Course Buyouts

EDCI 627

2014

2 Course Buyouts

EDCI 627 PhD

EDCI 621 PhD

2013

EDCI 627 EdD Spring

3 Course Buyouts

2012

2 Course Buyouts (Spring)

EDCI 627 Fall

EDCI 628 Fall

MASC 450 Fall

2011

EDCI 623 (Fall) Teaching and Learning Pattern and Change Concepts

EDCI 628 (Fall) Analyzing and Reporting Field-Based Research

EDCI 489 (Summer) Problem Solving in STEM Teaching and Learning (Study Abroad Prague CZ)

EDCI 689 (Summer) Research in STEM Education (Study Abroad Prague CZ)

EDCI 628 (Spring) Analyzing and Reporting Field-Based Research

2010

EDCI 689 (Spring) STEM Teaching and Learning

EDCI 627 (Spring) Teaching and Learning Patterns and Change Concepts

EDCI 627 (Fall-online EdD) Teaching and Learning Patterns and Change Concepts

EDCI 689-601 (Fall) Disciplinary Knowledge and Research in Curriculum and Instruction

2009

Sabbatical (Spring)

2008

EDCI 623 (Fall) Teaching and Learning Pattern and Change Concepts

EDCI 628 (Fall) Analyzing and Reporting Field-Based Research

2007-2008

EDCI 628 (Fall) Analyzing and Reporting Field-Based Research
 EDCI 627 (Spring) Teaching and Learning Data Analysis and Uncertainty Concepts
 Assistant Department Head December - August
 EDCI 625 (Summer) Teaching and Learning Mathematics with Special Learners

2006-2007

EDCI 628 (Fall) Analyzing and Reporting Field-Based Research
 EDCI 627 (TTVN and Local) (Spring) Teaching and Learning Data Analysis and Uncertainty Concepts

2005-2006

MASC 450 (Fall) Integrated Mathematics
 EDCI 628 (Fall) Analyzing and Reporting Field-Based Research
 TEFB 407 (Fall) Teaching Field Based Secondary Mathematics Methods
 EDCI 685 (Spring) Special Topics
 EDCI 627 (Spring) Teaching and Learning Data Analysis and Uncertainty Concepts
 Course Release (Spring)
 EDCI 624 (May Mester) Assessing Cognitive Structures Related to Learning and Teaching Mathematics
 EDCI 625 (Summer I) Teaching and Learning Mathematics with Special Learners

2004-2005

EDCI 689 (Fall)
 Course Release from Previous Summer (Fall)
 EDCI 450 (Fall) Integrated Mathematics
 EDCI 450 (Fall) Integrated Mathematics
 EDCI 690 (Spring) Theory of Curriculum and Instruction Research
 EDCI 621 (Spring) Teaching and Learning Space, Dimension, and Measurement Concepts
 EDCI 407 (Spring) Teaching Field Based Secondary Mathematics Methods

2003-2004

Course Release from Previous Summer (Fall)
 Course Buyout (Fall)
 EDCI 690 (Spring) Theory of Curriculum and Instruction Research
 Course Buyout (Spring)
 EDCI 624 (May-Mester) Assessing Cognitive Structures Related to Learning and Teaching Mathematics
 EDCI 625 (Summer I) Teaching and Learning Mathematics with Special Learners
 EDCI 627 (689) (Summer I) overload Teaching and Learning Data Analysis and Uncertainty Concepts

2002-2003

EDCI 622 (Fall) Theories of Learning and Teaching Mathematics
 EDCI 689 (Spring) Mathematical Thinking and Learning- New Constructs
 EDCI 624 (Summer I) Assessing Cognitive Structures Related to Learning and Teaching Mathematics
 EDCI 625 (Summer II) overload Teaching and Learning Mathematics with Special Learners

2001-2002

EDCI 622 (Fall) Theories of Learning and Teaching Mathematics
 EDCI 689 (Spring) 5.0
 EDCI 489 (Spring) overload 3.80
 EDCI 621 (Summer I) Teaching and Learning Space, Dimension, and Measurement Concepts
 EDCI 685 (Summer II)
 EDCI 485 (Summer II)

2000-2001

TEFB 412 (Fall & Spring) Teaching Field Based Elementary Math Methods
 TEFB 413 (Fall & Spring) Teaching Field Based Elementary Science Methods
 EDCI 619 (Summer I) Teaching and Learning Number and Quantity

Overall

Undergraduate 3.87; 4.02; 3.66; 3.80
 Graduate 4.87; 4.92; 4.89; 5.0

Instructor is well prepared for class

Undergraduate 4.0 4.24; 4.40
 Graduate 5.0; 5.0; 5.0

CONSULTING

- 2001-2002 *Item Analysis and Revision Protocol Development: A Case Study*. Washington, DC: American Association for the Advancement of Science.
- 2001 *Content Analysis*. Washington, DC: American Association for the Advancement of Science
- 2001 *Reliability Study for Content Analysis*. Washington, DC: Association for the Advancement of Science.

LICENSURE STATE OF FLORIDA**PROFESSIONAL AFFILIATIONS**

National Middle School Association (NMSA)
 Texas Council of Teachers of Mathematics (TCTM)
 Kappa Delta Pi (Honor Society)
 National Council of Teacher of Mathematics (NCTM)
 American Educational Research Association (AERA)
 Middle Level Education Research (MLER)
 Hispanic Research Issues SIG
 Mid-South Educational Research Association (MSERA)
 National Middle School Association (NMSA)
 School Science and Mathematics Association (SSMA)
 Southwest Educational Research Association (SERA)
 Dade County Council of Teachers of Mathematics (DCCTM)
 Phi Kappa Phi (Honor Society)
 Research Council for Mathematics Learning (RCML)
 Association for Mathematics Teacher Educators (AMTE)
 Psychology of Mathematics Educators-North America (PME-NA)

GRADUATE COMMITTEES

Doctoral

1. Kim Currens (Temporary Chair PhD)
2. Danielle Bevan (Temporary Chair PhD)
3. Allison Burney (Co-Chair) EdD
4. Kitty Rutherford (Co-Chair) EdD
5. Jonathan David (Co-Chair) EdD
6. Joni Bailey (Co-Chair) EdD
7. Ajai Cribbs (Temporary Chair PhD)
8. Joshua Sheehy (Member) PhD
9. Cristela Garcia (Co-Chair) EdD Assessment (program evaluation) *Elsa, *MMC
 Hagan Burke, Associate Professor, Educational Psychology (Candidate 12-14)
10. Sandra Higareda (Member) EdD
11. Carmen Pompa (Member Ed.D) Dennie
12. Rosalinda Garcia (Member Ed.D)
13. Imelda Chapa (Member Ed.D)
14. Bertha C. Trevino (Member Ed.D)

Masters

Graduated
PhD/EdD

1. Ali Bicer (Co-Chair) PhD (Graduate 2016)
2. Steve McKissick (Co-Chair) PhD (Graduated 2015)

3. Mary Springs (**Co-Chair**) EdD (Graduated 2015)
 4. Ayse Tugba Oner (**Co-Chair**) PhD (Graduated 2015)
 5. Antonio Carranza (**Co-Chair**) PhD (Graduated 2015)
 6. Ernie Sherow (**Co-Chair**) PhD (Graduated 2015)
 7. Mahmoud Abunawas (Member) PhD (Graduated 2014)
 8. Susan Rogers (**Co-Chair**) EdD (Graduated 2014)
 9. Johanthan G. Maxwell (Member Graduated 2014)
 10. AnnaPat Alpert (Member)
 11. Roslinda Rosli (Member)
 12. LaToya Anderson (**Chair**) PhD Graduated 2013
 13. Tarcia Jones (**Chair**) PhD Graduated 2013 Assistant Professor Huston-Tillotson University
 14. SunYoung Han (**Chair**) PhD Graduated 2013 Assistant Professor Texas Tech University
 15. James Barron (Member) EdD Graduate 2013
 16. Cathleen Rossman (Member – Rutgers University) Graduated 2012
 17. Chris Romero (**Chair**) PhD Graduated December 2012,
 18. Sandra Nite (**Chair**) PhD Graduated August 2012, Texas A&M University
 19. Sencer Corlu (**Chair**) Graduated May 2012 Bilkant University, Ankara Turkey.
 20. Murray Cox (**Co-Chair** Graduated August 2011) Dept Head Southwest Adventist University
 21. Jamaal Young (**Chair** Graduate August 2011) Faculty University of North Texas
 22. Cleveland Lane (Member December 2010) Faculty Prairie View A&M
 23. Susan Skidmore (EPSY) (Member) Faculty Sam Houston University
 24. Serkan Ozel (EPSY) (**Co-Chair**-Graduated August, 2009) Faculty Bogazici University
 25. Michael Muzheve (**Chair**- Graduated August, 2008) Faculty- Texas A&M Kingsville
 26. Tufan Adiguzel (Member- Graduated August, 2008)
 27. Diana Piccolo (**Chair**- Graduated May 2008) Faculty U of Missouri
 28. Jimmy Byrd (Member- Graduated May 2008) Faculty University of N. Texas
 29. Shirley Matteson (**Chair** -Graduated August 2007)- Faculty Texas Tech University
 30. Judy Taylor (**Chair**- Graduated December 2006) – Faculty Letourneau University
 31. Elsa Ruiz (**Chair**- Graduated December 2006)- Faculty UTexas- San Antonio
 32. Linda R. Zientek (**Chair** Graduated May 2006)- Faculty Sam Houston State
 33. Armando Perez (**Co-Chair** - Graduated Summer 2005) Faculty Laredo CC
 34. Adam Harbaugh (Member- Graduated Summer 2005) Faculty UNC-Charlotte
 35. Tamara Carter (Member- Graduated Summer 2005) Dept. Chair OK Com Col
 36. Sun Ye PhD (Defense-Member- Graduated Summer 2005) Faculty U W. Virginia
 37. Zhonghe Wu PhD (Member- Graduated Summer 2004) Faculty National University
- MS-Thesis option***
1. Cristal Gallegos (Co-Chair) May 2015
 2. Matthew Seiders (Member Math –Thesis December 2012)
 3. Katherine Vela (Member – Graduated December 2011)
 4. Nikeitha Brown (Member – Graduated December 2011)
 5. Linda Stearns (Co-Chair-Graduated May 2010)
 6. Krystal Meredith (Co-Chair- Graduated May 2009)
 7. Elizabeth Matthiesen (Chair- Graduated May 2006)

8. April Gilbert (Chair- Graduated May 2006)
9. Heather Louder (Member- Graduated Fall 2005)
10. Emilie Naiser (Chair- Graduated Fall 2004)
11. Stacey English (Co-Chair - Graduated Fall 2003)
12. Lori Butler (Member - Graduated August 2002)
13. Mary Hammer (Member- Graduated August 2002)
14. Semsettin Bezer (Member-Graduated May 2002: Admitted to PhD)

MEd

1. Junhua Liu (member) Graduated 2014
2. Sevket Ceyhun Cetin (Co-Chair – Med Graduated August 2012)
3. Ali Bicer (Chair – Med Graduated August 2012)
4. Jennifer Easterling (Graduated May 2012)
5. Irem Akcayakaya (CoChair – Graduated May 2012)
6. April Moon (Chair Graduated August 2010)
7. Jamaal Young (Chair- Graduated December 2007)
8. Stephanie Fisseler (Member- Graduated Summer 2007)
9. Nicole Bowden (Co-Chair- Graduated Summer 2007)
10. Hamza Anderoglu (Member- Graduated May 2008)
11. Wendy Wright (Co-Chair- Graduated Summer 2004)
12. Heather Muller (Co-Chair- Graduated Summer 2004)
13. Amber Senter (Co-Chair- Graduated Summer 2004)
14. Laura Sebesta (Member- Graduated Summer 2004)
15. Deborah Fannin (Chair- Graduated Fall 2003)
16. Robyn Bassett (Chair- Graduated Summer 2003)
17. Charlotte Bolling (Member- Graduated Summer 2003)
18. Josh McDonald (Chair- Teaching Certificate only)
19. Zihxia You (Member- Graduated- May 2002)
20. Allison Decker (Co-Chair - Graduated August 2002)
21. Kelly Kelly (Co-Chair - Graduated August 2002)
22. Chris Romero (Chair- Graduated May 2002)

Undergraduate Students Mentored & Supported

1. Haley David
2. Emilie Naiser
3. Kayla Garner
4. Davion Thornton (2011-2012)
5. Benjamin Bracey (2011-2012)
6. Maria Hernandez (2011-2013)
7. Brittane Cain (2014)
8. April Martin (2014- 2015)
9. Ingrid Campos 2013-2014)
10. Teresa Monterosa (2014-2015)
11. Annie Steiner (2015)
12. 'Chon Brooks (2014-2016)
13. Devyn Rice (2015-