

Curriculum Vitae

Robert M. Capraro

rcapraro@tamu.edu

ORCID # 0000-0001-8868-4432

ResearcherID: B-5974-2014

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 Mathematics Education, Texas A&M University
December 2007-2008	Assistant Department Head, Research Mentoring. Teaching Learning and Culture
September 2007 – 2010	Associate Professor Mathematics Education. Texas A&M University
August 2006- Present	Co-Director Aggie STEM, Texas A&M University
August 2000 – 2007	Assistant Professor Mathematics Education. Texas A&M University
Sept. 1999-2000	Graduate Teaching Assistant. University of Southern Mississippi
1994-1997	Adjunct Professor, 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	<i>Research Synthesis and Meta-Analysis</i> , American Educational Research Association, Philadelphia, PA. Workshop presented by Terri Piggot, Joshua Polanin, Ryan Williams.
2013	<i>Introduction to MKT Training</i> , 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	<i>Multilevel SEM</i> . College of Education-TAMU, Workshop presented by Dr. Ehri Ryu Boston College
2007	<i>Mixed Methods Data Analysis</i> . 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. Bicer, A., Capraro, R. M., & Capraro, M. M. (2017). Integrated STEM assessment model. *International Journal of Education in Mathematics, Science and Technology*, 13(7), 3959-39685. DOI: 10.12973/eurasia.2017.00766a
2. *Rosli, R., Goldsby, D., Onwuegbuzie, A. J., Capraro, M. M., & **Capraro, R. M.** (2017, 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)*
3. Bicer, A., & Capraro, R. M., (2017). Longitudinal effects of technology integration and teacher professional development on students' mathematics achievement. *Eurasia Journal of Mathematics, Science and Technology Education 13(3)*, 815-833. (1.016 impact factor Thompsons) DOI: 10.12973/eurasia.2017.00645a
4. *Nite, S. B., Capraro, M. M., Bicer, A., & **Capraro, R. M.** (2017). Explicating the characteristics of STEM teaching and learning: A meta-synthesis. *Journal of STEM Teacher Education*, 52(1), 31-53.
5. 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.
6. **Capraro, R. M.**, Barroso, L. R., Nite, S., Rice, D., Lincoln, Y. S., Young, J., & Young, J. (2017). Developing a useful and integrative STEM disciplinary language. *International Journal of Education in Mathematics, Science and Technology*, 6(1), 1-11. DOI: 10.18404/ijemst.31232
7. *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). 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 – The International Journal on Mathematics Education)*, 48(2), 187-201. 10.1007/s11858-016-0826-4 (.926 impact factor SCOPUS.com)
8. *Godwin, A. J., Capraro, M. M., Rupley, W. H., & **Capraro, R. M.** (2017). Metasynthesis of Factors Contributing to Children's Communication Development: Influence on Reading

- and Mathematics. *Child Development Research*, 2017, 1-10.
<https://doi.org/10.1155/2017/4506098>
9. Hill, K. K., Bicer, A., & Capraro, R. M. (2017). Effect of teachers' professional development from MathForward™ on students' math achievement. *International Journal of Research in Education and Science*, 3(1), 67-74.
 10. Kopparla, M., & Capraro, R. M. (2016). *The brilliance of Black children in mathematics beyond the numbers and toward new discourses*. *Teachers College Record*, <http://www.tcrecord.org/Content.asp?ContentId=20051>
 11. 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
 12. *Öner, A. T., & **Capraro, R. M.** (2016). Is STEM academy designation synonymous with higher student achievement? *Egitim ve Bilim-Education and Science*, 41(185), 1-17. doi: 10.15390/EB.2016.3397. (.254 impact factor – Thompson's)
 13. *Öner, 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
 14. *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)
 15. *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)
 16. *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)
 17. ***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)
 18. **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.
 19. *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>
 20. *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
 21. *Öner, 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.

22. *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.
23. *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
24. *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.
25. *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.
26. *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.
27. *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.
28. 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.
29. *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)
30. *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)
31. *Öner, 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.
32. *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.
33. *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/>
34. *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.
35. *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.
36. *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)

37. *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)
38. *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)
39. **Capraro R. M.**, & Han, S. (2014). STEM: The education frontier to meet 21st century challenges. *Middle Grades Research Journal*, 9(3), XV-XVIII.
40. 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.
41. *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.
42. 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.
43. 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.
44. *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.
45. 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.
46. ***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.
47. 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.
48. *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.
49. **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.
50. 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.
51. **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.

52. 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.
53. **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/>
54. **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).
55. *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.
56. **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)
57. ***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.
58. *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)
59. *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.
60. **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.
61. **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.
62. *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.
63. *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.
64. ***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)
65. *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)

66. **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.
67. 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.
68. ***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.
69. *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)
70. **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.
71. 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)
72. 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.
73. *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.
74. *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)
75. *Özel, S., Yetkiner, Z. E., & **Capraro, R. M.** (2008). Technology in K-12 mathematics classrooms. *School Science and Mathematics*, 108, 80-85.
76. *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)
77. **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)
78. *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>
79. ***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)
80. **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.

81. *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.
82. Kulm, G., **Capraro, R. M.**, & Capraro, M. M. (2007). Teaching and learning middle grades mathematics with understanding. *Middle Grades Research Journal, 2*, 23-48.
83. 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)
84. **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)
85. **Carter, T. A., & **Capraro, R. M.** (2005). Stochastic misconceptions of pre-service teachers. *Academic Exchange Quarterly, 9*(3), 105-111.
86. *Zientek, L. R., Kadhi, T., & **Capraro, R. M.** (2005). Analysis of the literature on alternative certification programs. *Academic Exchange Quarterly, 9*(3), 121-125.
87. **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)
88. Capraro, M. M., Kulm, G., & **Capraro, R. M.** (2005). Middle grades: Misconceptions in statistical thinking. *School Science and Mathematics Journal, 105*, 165-174.
89. 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.
90. *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)
91. **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)
92. 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)
93. **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)
94. **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)
95. 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)
96. 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.
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99. Nite, S. B., Capraro, R. M., Bicer, A., & Morgan, J. (2017, October). Studying mathematics in high school and college: Summer bridge program student beliefs. Paper abstract submitted to the *IEEE Frontiers in Education Conference: The Crossroads of Engineering and Business*. Indianapolis, IN.
100. Nite, S. B., Allen, G. D., Capraro, R. M., Bicer, A., & Morgan, J. (2016, December). Supporting engineering education through calculus success. In S. T. Smith, Y. Y. Lim, A. Bahadori, N. Lake, R. V. Padilla, A. Rose, & K. Doust. *Proceedings of the 27th Annual Conference of the Australasian Association for Engineering Education*. Australasian Association for Engineering Education Conference: The Changing Role of the Engineering Educator for Developing the future Engineer. Coffs Harbour, Australia: Southern Cross University, Lismore, NSW 2480, Australia.
101. 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 46th Annual Frontiers in Education Conference (FIE)*. Erie, PA.
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103. **Capraro, R. M.**, Barroso, L. R., Capraro, M. M., Nite, S. B., & Brooks, C. (2016). Impact for female students of an integrated STEM PBL summer curriculum on content knowledge mastery and post-secondary matriculation. *Proceedings of the 46th Annual Frontiers in Education Conference (FIE)*. Erie, PA.
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 116. 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.

117. 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. *Proceedings of the 2014 Frontiers in Education conference*, Madrid, Spain. (Full paper abstract number 1569906323).
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Books & Book Chapters

1. Capraro, R. M., Burlbaw, L. M., Zientek, L. R. (In Press). 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. Bicer, A., Nite, S. B., Capraro, R., M., & Capraro, M., M. (2016). *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.
3. 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.
4. Capraro, R. M., & Navruz, B. (2015). Time series in educational research. In G. Ritzer (Ed.), *Blackwell encyclopedia of sociology* (2nd Edition). Malden, MA: Blackwell.
5. 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.
6. 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.
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8. 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.
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10. 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.

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14. 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.
15. 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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17. 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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22. Capraro, R. M., & Slough, S. W. (Eds.). (2008). *Project based learning: An integrated science technology engineering and mathematics (STEM) approach*. Rotterdam, The Netherlands: Sense.
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25. Capraro, R. M. (2006). Time series in educational research. In G. Ritzer (Ed.), *Blackwell encyclopedia of sociology*. Malden, MA: Blackwell.

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PRESENTATIONS

National/International

1. Bevan, D., Vela, K., Caldwell, C., Capraro, M.M., Capraro, R. M. (2018, April). *The effects of an all girls summer STEM camp*. Paper submitted for presentation at the annual meeting of the National Council Teachers of Mathematics Research Conference, Washington, D.C.
2. Capraro, M. M., Capraro, R. M., Barroso, L., Bicer, A., Bevan, D., Vela, K. N., Rice, D. (2018). Exploring language usage amid an Interdisciplinary engineering activity. Paper submitted for presentation at the annual meeting of the American Educational Research Association, New York, NY.
3. Capraro, R. M., Suarez, M. I., Barroso, L., Capraro, M. M., Bevan, D., Vela, K. N., & Caldwell, C. (2018). Building a community of support for transgender and gender-fluid youth's STEM success. Paper Submitted for presentation at the annual meeting of the American Educational Research Association, New York, NY.
4. Capraro, M. M., Capraro, R. M., Bicer, A., Madson, M. (2018). Cognitive dissonance of science and mathematics terms and their impact on an integrated task. Paper Submitted for presentation at the annual meeting of the American Educational Research Association, New York, NY.
5. Bicer, A., Capraro, R. M., Capraro, M. M., & Lee, Y. (2018). College students reflect back on their inclusive STEM high school. Paper Submitted for presentation at the annual meeting of the American Educational Research Association, New York, NY.
6. Viruru, R., Capraro, M. M., Hill-Jackson, V., Matthews, S., Neshyba, M., Capraro, R. M. (2017, June). *Developmental pathways to the record of study*. Paper accepted for presentation at the Carnegie Project on the Educational Doctorate, Pittsburg, PA.
7. 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 presented at the annual meeting of the American Educational Research Association, San Antonio, TX.
8. Nite, S. B., Allen, G. D., Bicer, A., & Capraro, R. M. (2017, April). *Strengthening precalculus skills in a summer program for engineering students*. Paper presented at the annual meeting of the American Educational Research Association conference. San Antonio, Texas.
9. 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 presented at annual meeting of the American Educational Research Association (AERA), San Antonio, TX.
10. Capraro, R. M., Capraro, M. M., Erdogan, N., Corlu, S., Adiguzel, T., & Oner, A. T. (2017, April). *Developing scientific language through Interactive STEM*. Paper presented at the annual meeting of National Association for Research in Science Teaching (NARST), San Antonio, TX.
11. Capraro, M. M., Capraro, R. M., Bicer, A., Erdogan, N. & Oner, A. T. (2017, April). *Teacher of an integrated STEM language*. Paper presented at the annual meeting of National Association for Research in Science Teaching (NARST), San Antonio, TX.

12. Wood, M. B., Spencer, J., Weber, K., & Capraro, R. M. (2017, April). *Publishing JRME-Worthy Studies that Honor Equity*. Paper presented at the annual meeting of the national Council of Teachers of Mathematics Research Conference, San Antonio, TX.
13. Capraro, M. M., Capraro, R. M., & DeMiranda, M. (2017, March). *The hidden supports of high school engineering and technology science fair winners*. Paper presented at the International Technology and Engineering Educators Association, Dallas, TX.
14. Nite, S. B., Allen, G. D., Bicer, A., & Capraro, R. M. (2017, April). *Precalculus program for prospective engineering students*. Paper presented at the Annual meeting of the National Council of Teachers of Mathematics Research Conference. San Antonio, TX.
15. Bicer, A., Nite, S. B., Reeves, L., Capraro, R. M., & Morgan, J. R. (2017, April). *Mathematics teacher collaboration with online technology integration*. Paper presented at the Annual meeting of the National Council of Teachers of Mathematics Research Conference. San Antonio, TX.
16. Nite, S. B., Allen, G. D., Bicer, A., & Capraro, R. M. (2017, April). *Precalculus program for prospective engineering students*. Paper presented at the Annual meeting of the National Council of Teachers of Mathematics Research Conference. San Antonio, Texas.
17. Capraro, M. M., & Capraro, R. M. (2016, November). *Dynamic problem posing through reciprocal problem solving*. Paper presented the at the 2nd Biennial International conference on Urban Education, San Juan, PR.
18. 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*, Paper Presented at ASEE's 123rd National Conference and Exposition. New Orleans, LA: American Society for Engineering Education, Washington DC.
19. 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*. Paper presented at the International Conference on Education in Mathematics, Science and Technology (ICEMST), Bodrum, Turkey.
20. Nite, S. B., **Capraro, R. M.**, Bicer, A., & Morgan, J. (2016, December). Supporting engineering education through calculus success. Paper presented at the 27th Australasian Association for Engineering Education Conference. Coffs Harbour, Australia.
21. Erdogan, N., Navruz, B., Younes, R., & Capraro, R. M. (2016). Viewing how STEM project-based learning influences students' science achievement through the implementation lens: A latent growth Model. Paper presented at the annual meeting of National Association for Research in Science Teaching (NARST), Baltimore, MD.
22. *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 presented at the annual conference of the American Educational Research Association (AERA), Washington, D.C.
23. *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 presented at the annual conference of the American Educational Research Association (AERA), Washington, D.C.
24. *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 presented at the annual conference of the American Educational Research Association Annual Meeting. Washington, DC.
25. *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 presented at the annual meeting of National Association for Research in Science Teaching (NARST), Baltimore, MD.
26. *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.
 27. *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.
 28. 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.
 29. *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.
 30. *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.
 31. *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.
 32. *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.
 33. *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.
 34. 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.
 35. 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.
 36. 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.
 37. **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.
 38. **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).

Multi-State Regional

- *Bicer, A., Kopparla, 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., Boedecker, 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.

Local

Capraro, R. M. (2017). *STEMulating Instructional and assessment strategies: Co-constructing solutions in K-12 settings*. Presentation at the Texas A&M Undergraduate Research Expo, College Station, TX.

Capraro, M. M., Kopparla, M., Vela, K., **Rice, D., Bevan, D., Bicer, A., Capraro, R. M., **Caldwell, C.**, Kwon, J., Lee, R., & Martin, R. (2017, April). *Problem posing & solving*. Brown bag presentation at Texas A&M University, College Station, TX.

****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.

PRESENTATIONS

1. Wood, M., Spencer, J., Weber, K. & Capraro, R. M. (2017, April). Publishing JRME-worthy studies that honor equity. Paper presented at the Annual meeting of the *National Council of Teachers of Mathematics Research Conference*. San Antonio, TX.
2. Capraro, R. M., & Capraro, M. M. (2016, December). The nexus of ethics and STM. Invited address STEM Ethics Summit, Doha, Qatar.
3. 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.
4. 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.
5. 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.
6. Capraro, R. M. (2016, May). *Teaching for learning in the accountability millennium and the transitional migration: STEM education*. Commencement speech Bahçeşehir Üniversitesi, Istanbul, Turkey.
7. Capraro, M. M., & Capraro, R. M., (2015, Oct.). STEM Night – Fallbrook Academy – Houston, TX.
8. Capraro, R. M. (2015, May). K-12 education and post secondary opportunities in STEM education. Navarro Elementary School, Bryan, TX.
9. Capraro, M. M., & Capraro, R. M., (2015, May). Inspiring others to be leaders, creating and reaching YOUR goals. Presentation to LeadCon, Palestine, TX.
10. Capraro, R. M. (2015, February). *Learning dynamics of STEM teaching and learning*. Presented at Fallbrook Public Schools. Houston, TX.
11. 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.

GRANTS

Funded (Total Funded ~\$31,589,701.00 Since 2000)

- 2017 **Aerospace Engineering: Designing and Building Machines That Fly**. National Competitive Award. *American Society for Engineering Education*.
- 2017 **Experiencing STEM Through the Eyes of Women STEM Professionals**. Co-Pi with Capraro, M.M., Barroso, L., Nite, S. B., & Bicer, A. Submitted to High Tech High Heels, 5/17-8/17, \$21,000 **Funded for \$14,000**
- 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 **Snook ISD Follow-up Study and Intervention**, Co-PI with L. Burlbaw, M.M. Capraro, et al. Catapult Grant. Internal. Submitted \$37,931.
- 2016 **Mentoring Pathways to Higher Education in STEM (MPHES)**. PI – Mary M. Capraro, CoPIs – Luciana Barosso, Tarcia Hubert, & Robert M. Capraro. Awarded Department of Teaching, Learning and Culture, Texas A&M University, College Station, TX, Awarded 1/17 – 9/17 \$34,040.
- 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, Awarded \$283,327. 2/01/2016-4/30/2017.
- 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 **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**

SERVICE

- 2017 National or International Service to the Profession**
 Reviewer Eurasia Journal of Mathematics, Science, and Technology Education
 Reviewer Journal for Research in Mathematics Education

University

- Mi Casa es Su Casa Graduate Student Host
 International Student Association Faculty Host
 Organizer STEM 4 Innovation Conference
 Community of Scholars Host
 Texas A&M-CONACYT Special Research Grant Program Reviewer
 Center for the Integration of Research, Teaching and Learning Faculty Working Group
 Member of the Academic Civil Rights Investigation Committee (ACRIC)

College

- College 50th Anniversary Committee
 College Tenure and Promotion Committee (College) 2-years
 RMS Certificate Working Group
 College Principle Investigators Committee (3-year term)
 College Committee Promoting the Welfare of Faculty of Color

Department

- Search Committee Assistant Director On-line Learning
 STEM On-line Certificate Faculty Supervisor
 Search Committee Aggie STEM Coordinator
 Master of Science Degree Faculty Coordinator

Community

- ChiliFest Volunteer
 Caring Canines St. Joseph Hospital
 Lector St. Tresa's Catholic Church

2016

- National or International Service to the Profession**
 Journal for Research in Mathematics Education Editorial Board
 Reviewer Texas Education Agency

Reviewer National Science Foundation
 Reviewer Institute of Education Sciences
 Reviewer Frontiers in Education
 Reviewer National Council Teachers of Mathematics
 External Reviewer University of Toledo
 Reviewer American Educational Research Association

University

Mi Casa es Su Casa Graduate Student Host
 International Student Association Faculty Host
 External Reviewer Department of Developmental and Social Psychology of the University of Padova, Italy
 University 3-Minute Thesis Judge
 Diversity Fellowship Competition Reviewer
 University TSOC Committee
 Inter-College Committee on Undergraduate Teaching College of Science and University Three-Minute Thesis Competition (Organizing Committee)
 TAMU World of STEM Opportunities Organizing Committee STEM for Innovation
 Hour of Code -Committee

College

College 50th Anniversary Committee
 College Wide Doctoral Advising Load Committee
 College Catapult Grant Reviewer
 College Tenure and Promotion Committee (College) 2-years
 RMS Certificate Working Group
 College Principle Investigators Committee (3-year term)
 College Search Committee ABBA
 College Representative to AAU Undergraduate STEM Education Initiative
 EAHR Search Committee

Department

A1- Document Review Committee
 Post Tenure Review Document Development Committee
 Science Education Search Committee

Community

Root Cause Analysis Snook ISD
 Provide Online Professional Development for Continuing Education Credit for Teachers Across Texas through Aggie STEM
 Judge for the Texas State Science and Engineering Fair
 F1 in Schools World Championships Judge, Austin Texas

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