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Linda Reichwein Zientek

Professor
Sam Houston State University
Department of Mathematics and
Statistics Huntsville, Texas 77341
936-294-4874
lrzientek@shsu.edu

EDUCATIONAL EXPERIENCE

Texas A&M University	Ph. D., 2006
Curriculum and Instruction (Mathematics Education)	
College Station, Texas	
Sam Houston State University	M.S., 1997
Mathematics Huntsville, Texas	
Sam Houston State University	B.S., 1995
Mathematics with a Minor in Statistics	
Huntsville, Texas	
Blinn College	A.A.
Brenham, Texas	

Dissertation: *Do Teachers Differ by Certification Route? Novice Teachers' Sense of Self-Efficacy, Commitment to Teaching, and Preparedness to Teach.* **Department of Teaching, Learning, and Culture 2007 Dissertation of the Year from Texas A&M University**

PROFESSIONAL EXPERIENCE

Fall 2019 – Present	Full Professor
Fall 2007 – Aug 2019	Associate/Assistant Professor
Aug 1997 – 2007	Blinn College Mathematics Instructor
July 1997 – Aug 1997	Blinn College Learning Center

RESEARCH INTERESTS

My research interests include mathematics education, the preparation of mathematics teachers, community college and P16 initiatives, and quantitative research methods. I am interested in students' self-efficacy beliefs, the origins of these beliefs, and the impact these beliefs have on academic achievement.

Recent Honors

During its 45th Annual Meeting, February 23-25, 2022, it was announced that the Southwest Educational Research Award (SERA) had renamed in perpetuity its SERA Outstanding Paper Award the "**SERA Linda Reichwein Zientek Outstanding Paper Award.**" In announcing the surprise renaming honor, Bruce Thompson, SERA Executive Director *Emeritus* noted, "Professor

Zientek has been exemplary in her contributions to educational research, and to SERA as well. Professor Zientek has served as SERA Executive Director since 2014. She also has served as SERA Deputy Executive Director (2011-2014), President (2010-2011), and Newsletter Editor (2007-2008). Professor Zientek also received the SERA Extended Service Award in 2013."

PUBLICATIONS

Peer-Reviewed Journal Publications

** indicates publication from a students' dissertation
* indicates publication from a students' master's project
CiteScores above 1.0 and SJR above 0.5 are bolded

55. Skidmore, S. T., **Zientek, L. R.,** & Lane, F. C. (accepted). Profiles of undergraduate completers: Deconstructing the heterogeneity. *Journal of College Student Retention: Research, Theory & Practice.* Scopus [**CiteScore 4.00**; **SJR 0.939**]

54. *Collett, T., & **Zientek, L. R.**, (accepted). Investigating high school students' multiplication fact automaticity: A case study. *Texas Mathematics Teacher*

53. Lane, F. C., **Zientek, L. R.,** Sechelski, A., & Shupp, S. (2023). Effects of timely enrollment in college-level mathematics on degree completion. *Journal of College Student Retention: Research, Theory, & Practice. 25*(1), 208-228. https://doi.org/10.1177/1521025120973949 [Scopus **CiteScore 4.00**; **SJR 0.939**]

52. **Nabors, A., & **Zientek, L. R.** (2023). Faculty members perceptions' of their classroom practices in developmental mathematics. *Community College Enterprise, 29*(1), 29-57.

51. Skidmore, S. T., **Zientek, L. R.,** Hsu, H. Y., & Edmonson, S. (2023). Profiles of undergraduate completers: Acknowledging alternative paths. *The Journal of Continuing Higher Education, 70*(1), 24-39. https://doi.org/10.1080/07377363.2021.1966921 [Scopus **CiteScore: 1.7; SNIP .734; SJR 0.336**]

50. **Counterman, C., & **Zientek, L. R.** (2023). High school transcript placement in developmental mathematics courses: A case study at one college. *European Journal of Science and Mathematics Education 11*(1), 1-14. [CiteScore 0.80]

49. Nimon, K., **Zientek, L. R.**, & Fulmore, J. (2022). A hierarchical map and application to traverse and unify analyses subsumed by canonical correlation. *Multiviariate Behavioral Research, 5*(6), 1027-1046. https://doi.org/10.1080/00273171.2021.1943295 [**Impact Factor 3.085**; **SNIP 2.056; CiteScore 6.7; SJR 2.049**]

48. **Zientek, L. R.,** Lane, F. C., Sechelski, A., & Shupp, S. (2022). Effects of delaying college-level mathematics enrollment for remedial students. *Journal of College Student Retention: Research, Theory, & Practice, 24*(2), 474-498. https://doi.org/10.1177/1521025120923113 [Scopus **CiteScore 4.00**; **SJR 0.939**]

47. **Counterman, C., & **Zientek, L. R**. (2021). An investigation of differences in student success and persistence rates by course modality. *European Journal of Science and Mathematics Education, 9*(30), 110-124. https://doi.org/10.30935/scimath/10976 [CiteScore 0.80]

46. **Nabors, A., & **Zientek, L. R.** (2021). Developmental mathematics: Students' predicted outcome value of electronic communication. *Journal of College Academic Support Programs, 3*(2), 29-40.

45. **Poast, M., Skidmore, S. T., & **Zientek, L. R**. (2021). Multiplication facts in the continuum of skills. *Journal of College Reading and Learning, 51*(1), 58-77. https://doi.org/10.1080/10790195.2020.1737595

44. **Poast, M., **Zientek, L. R.,** & Skidmore, S. T. (2020). An investigation of multiplication fact automaticity and grades in Intermediate Algebra. *MathAMATYC Educator, 12*(1), 44-50.

43. Jones, D. L., **Zientek, L. R.,** Sharon, V., & Swarthout, M. (2020). Solving equations with fractions: An analysis of prospective teachers' solution pathways and errors. *School Science and Mathematics, 120*(4), 232-243. [Scopus CiteScore 0.40; SJR 0.135; SNIP 0.480]

42. **Zientek, L. R.,** Dorsey, J., Stano, N., & Lane, F. C. (2019). An investigation of self-efficacy of students enrolled in a mathematics pathway course. *Journal of Applied Research in Higher Education, 11,* 636-652. doi:10.1108/JARHE-10-2018-0207 [**Scopus CiteScore 1.60; SJR 0.288;** SNIP 0.637]

41. Fong, C. J., & **Zientek, L. R**. (2019). Instructional practices in developmental mathematics: A multilevel analysis of community college student perceptions. *Journal of College Reading and Learning, 49*, 35-52. doi:10.1080/10790195.2018.1514283 [**Winner of the 2019 Cynthia L. Peterson *JCRL* Outstanding Article Award] [**2020 **CiteScore 1.1; SNIP 0.827**; SJR 0.380]

40. **Zientek, L. R.**, Fong, C. J., & Phelps, J. (2019). Sources of mathematics self-efficacy of community college students enrolled in developmental mathematics. *Journal of Further and Higher Education, 43,* 183-200. doi:10.1080/0309877X.2017.1357071 [SNIP 1.551; **SJR 0.726; CiteScore 2.60**]

39. Holland, D. F., Kraha, A., **Zientek, L. R.**, Nimon, K., Fulmore, J. A., Johnson, U. Y., Ponce, H. F., Aguilar, M. G., & Henson, R. K. (2018). Reliability generalization of the Motivated Strategies for Learning Questionnaire. *SAGE Open.* doi:10.1177/2158244018802334 [2020 **CiteScore 1.60**; SNIP 0.990; SJR 0.357]

38. **Zientek, L. R.**, Albert, J., Manage, A. Li, X., & Sechelski, A. (2018). A state-mandated policy: Enrollment at one university. *Journal of Developmental Education, 41*(3), 10-17. [Cabell's Listed Acceptance Rate at 6-7%]

37. Moreno, N., Newell, A., **Zientek, L.,** Nimon, K., & Vogt, G. (2018). Linking science education and HIV using viral biology, epidemiology and science practices. *Health Education Journal, 77*(8), 884-898. [SJR 0.389; **CiteScore 2.00**]

36. *Albert, J., **Zientek, L. R.**, & Manage, A. (2018). Attendance: A case-study in developmental mathematics classrooms. *Journal of College Reading and Learning, 43*(3), 175-188. [2020 **CiteScore 1.1;** SNIP 0.827; SJR 0.380]

35. **Zientek, L. R.**, Werner, J. M., Campuzano, M., & Nimon, K. (2018). The use of Google Scholar for research and research dissemination. *New Horizons in Adult Education and Human Resource Development, 30,* 39-46.

34. **Haecker, B., Lane, F., & **Zientek, L. R.** (2017). Evidence-based decision-making: Influences on central-office administrators' decision-making practices. *Journal of School Leadership, 27*, 860-883.

33**. Zientek, L. R.**, Nimon, K., & Brown, B. (2016). Analyzing data from a pretest-posttest control group design: The importance of statistical assumptions. *European Journal of Training and Development, 40,* 638 – 659. https://doi.org/10.1177/1521025120973949 [2020 JCI 0.43; SJR 0.437; SNIP 1.285; **CiteScore 2.7**]

32. Nimon, K., **Zientek, L. R.,** & Kraha, A. (2016). All-possible-subsets for MANOVA and factorial MANOVAs: Less than a weekend project. *International Journal of Adult Vocational Education and Technology, 7*(2), 88-112. [JCI 0.27; SJR 0.458]

31. Nimon, K., **Zientek, L. R.**, & Thompson, B. (2015). Bias in squared regression structure coefficients. *Frontiers in Quantitative Psychology and Measurement.* doi:10.3389/fpsyg.2015.00949 [2020 Impact Factor 2.990; **CiteScore 3.50**]

30. **Zientek, L. R.,** Skidmore, S. T., Saxon, D. P., & Edmonson, S. (2015). Technology Priorities and Preferences of Developmental Mathematics Instructors. *Community College Enterprise, 21*, 27-46.

29. Newell, A., **Zientek, L. R.,** Tharp, B., Vogt, G., & Moreno, N. (2015). Students' attitudes towards science as predictors of gains on student content knowledge: Benefits of an after-school program. *School Science and Mathematics Journal, 115,* 216–225. [2021 Scopus CiteScore 0.40; SJR 0.135; SNIP 0.480]

28. Fong, C. J., **Zientek, L. R.,** & Phelps, J. M. (2015). Between and within ethnic differences in strategic learning: A study of developmental mathematics students. *Social Psychology of Education: An International Journal, 18*, 55-74. doi:10.1007/s11218-014-9275-5 [**SJR 0.788**]

27. Skidmore, S. T., **Zientek, L. R.,** Saxon, D. P., & Edmonson, S. (2014). The impact of generational status on instructors reported technology usage. *Contemporary Educational Technology, 5,* 179-197.

26. **Zientek, L. R.,** Schneider, C., & Onwuegbuzie, A. J. (2014). Instructors' perceptions about student success and placement in developmental mathematics courses. *The Community College Enterprise, 20*(1), 67-84.

25. Skidmore, S. T., **Zientek, L. R**., Combs, J. P., Fuller, M. B., Hirai, M., Price, D., & Moore,

G. W. (2014). Empirical Reporting Practices in CCJRP and JDE from 2002 to 2011: A Systematic Review. *Community College Journal of Research and Practice, 38,* 927-946. [2020 JCI 0.53; SJR 0.325]

24. **Zientek, L. R.**, Younes, R., Nimon, K., Mittag, K. C., & Taylor, S. (2013). Fractions as a foundation for algebra within a sample of prospective teachers. *Research in The Schools, 20,* 76-95.

23. Matteson, S. M., **Zientek, L. R.,** & Ozel, S. (2013). Identifying what inservice teachers want in professional development experiences. *Teacher Education and Practice, 26*, 569-580.

22. **Zientek, L. R.**, Yetkiner, Z. E., Fong, C., & Griffin, M. (2013). Student success in developmental mathematics courses. *Community College Journal of Research and Practice. 37*, 990-1010. [SJR 0.308]

21. Frels, R., **Zientek, L. R.**,& Onwuegbuzie, A. J. (2013). Differences of mentoring experiences across grade span among principals, mentors, and mentees. *Mentoring & Tutoring: Partnership in Learning, 21,* 28-58. [**Winner of the 2012 Distinguished Paper Award for the Mentorship and Mentoring Practices AERA SIG].** [**SJR 0.522**]

20. Taylor, J. M., **Zientek, L. R.,** & Matteson, S. M. (2013). Improving achievement in trigonometry by revisiting fractions operations. *Mediterranean Journal for Research in Mathematics Education, 12*, 135-153.

19. **Zientek, L. R.,** Yetkiner Ozel, Z. E., Ozel, S., & Allen, J. (2012). Reporting confidence intervals and effect sizes: Collecting the evidence. *Career and Technical Education Research,* 37, 277-295.

18. Kraha, K., Turner, H., Nimon, K., **Zientek, L. R.**, & Henson, R. (2012). Tools to support interpreting multiple regression in the face of multicollinearity. *Frontiers in Quantitative Psychology and Measurement.* doi:10.3389/fpsyg.2012.00044 [2020 **Impact Factor 2.990; CiteScore 3.50**]

17. Nimon, K., **Zientek, L. R**., & Henson, R. K. (2012). The assumption of a reliable instrument and other pitfalls to avoid when considering the reliability of data. *Frontiers in Quantitative Psychology and Measurement.* doi:10.3389/fpsyg.2012.00102 [2020 **Impact Factor 2.990**; **CiteScore 3.50**]

16. **Zientek, L. R**., & Yetkiner Ozel, Z. E. (2012). Self-reported reasons developmental mathematics students provided for not completing a mathematics course during their senior year of high school. *Mediterranean Journal for Research in Mathematics Education.*

15. Young, E., & **Zientek, L. R.** (2011). Fraction operations: An examination of prospective teachers' errors, confidence, and bias. *Investigations in Mathematics Learning, 4*(1), 1-23. [2020 **CiteScore 1.1**; SNIP 0.705; SJR 0.413]

14. Matteson, S. M., Swarthout, M., & **Zientek, L. R.** (2011). Student motivation: Perspectives from mathematics teachers. *Action in Teacher Education, 33*, 283-297 doi: 10.1080/01626620.2011.592123 [2020 **CiteScore 1.1**; SJR 0.486; SNIP 0.704]

13. **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

12. **Zientek, L. R.** & Thompson, B. (2010). Using commonality analysis to quantify contributions that self-efficacy and motivational factors make in mathematics performance. *Research in the Schools*, *17,* 1-12.

11. **Zientek, L. R**., Yetkiner, Z. E., & Thompson, B. (2010). Characterizing the mathematics anxiety literature using confidence intervals as a literature review mechanism. *The Journal of Educational Research, 103*, 424-438. [**2010 SJR 0.744; 2020 CiteScore 3.1;** 2020 SNIP 1.371]

10. **Zientek, L. R**., & Thompson, B. (2009). Matrix Summaries Improve Research Reports: Secondary Analyses Using Published Literature. *Educational Researcher, 38*, 343-352. [**2009 SJR 1.54; 2020 CiteScore 5.900; 2020 SNIP 3.519**]

9. 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 2009*, 158-174.

8. **Zientek, L. R**., & Thompson, B. (2008). Preparing high-quality mathematics and science teachers: Are we meeting the challenge? *Research in the Schools, 15*, 1-19.

7. **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. [**2008 SJR 2.469; 2020 SNIP 3.519; 2020 CiteScore 5.900**]

6. **Zientek, L. R.** (2008). Book Review: Exploratory and confirmatory factor analysis: Understanding concepts and applications. B. Thompson. Washington, DC: American Psychological Association. 2004. *Structural Equation Modeling: A Multidisciplinary Journal, 15*, 729-734. [**2020 SJR 4.041; SNIP 2.751; CiteScore 5.800**]

5. **Zientek, L. R**. (2007). Preparing high quality teachers: Views from the classroom. *American Educational Research Journal: Teaching, Learning, and Human Development, 44,* 959-1001. [**2020 SJR 3.522; SNIP 3.902; CiteScore 6.900**]

4. **Zientek, L. R**., & Thompson, B. (2007). Applying the bootstrap to the multivariate case: Bootstrap factor analysis. *Behavior Research Methods, 39*, 318–325. [**SJR 1.148**]

3. **Zientek, L. R**., & Thompson, B. (2006). Commonality analysis: Partitioning variance to facilitate better understanding of data. *Journal of Early Intervention, 28,* 299-307. [2020 **CiteScore 2.300**; 2020 SNIP 1.495; **2006 SJR 0.673**]

2. **Zientek, L.R**., Wahrmund, T., & Garlick, B. (2006, July). Essential components of effective certification programs. *Association of Mathematics Teacher Educators (AMTE) Update.*

1. **Zientek, L. R**., Kadhi, T. G., & Capraro, R. M. (2005). Alternative certification programs analysis. *Academic Exchange Quarterly*, *9*, 121-125.

Grant Reports

1. Skidmore, S. T., Saxon, D. P., **Zientek, L. R.**, & Edmonson, S. L. (2012). *Technology integration in developmental education in Texas*. (Contract No. 07272). Austin, TX: Texas Higher Education Coordinating Board.

Book Chapters

3. Nimon, K., **Zientek, L. R.,** & Kraha, A. (2018). *All-possible subsets for MANOVA and Factorial MANOVAs: Less than a weekend project.* In V.C.X. Wang & T. G. Reio Jr (Eds.) Handbook of Research on Innovative Techniques, Trends, and Analysis for Optimized Research Methods. Hershey, PA: IGI Global.

2. Zientek, L. R., & Cory, B. (2011). *Polygons*. In S. J. Greenwald & J. E. Thomley (Eds.), Encyclopedia of Mathematics and Society, 779-782. Pasadena, CA: Salem Press.

1. **Zientek, L. R**., & Yetkiner, Z. E. (2010). Pooled variance. In N. J. Salkind (Ed.), *Encyclopedia of research design (pp.* 1050-1052). Thousand Oaks, CA: Sage.

Newsletter

1. Zientek, L. R. (2015, July). Exploring data: The mean, median, & box-and-whisker plot. *LINK, 5*(3), 4-5.

Invited

1. **Zientek, L. R**., & Gann, L. (2007). College readiness vertical teams: An inside view. *Texas Community College Teachers Association Messenger*, *XLIII,* 6.

PRESENTATIONS

National/International

41. **Zientek, L. R.** (2023, November). *Self-efficacy, regulation & anxiety research and classroom solutions.* Presentation at the annual meeting of the American Mathematical Association of Two-Year Colleges, Omaha, NE.

40. Skidmore, S. T., & **Zientek, L. R.** (2022, October). *Profiles of undergraduate completers: More than one pathway*. Workshop presented at the annual meeting of the Association for Continuing Higher Education, New Orleans, LA.

39. **Zientek, L. R**. & Wilhite, P. (2021, October). *Self-efficacy and anxiety solutions: Research and classroom strategies*. Presentation at the annual meeting of the American Mathematical Association of Two-Year Colleges, Phoenix, AZ.

38. Lane, F. C., & **Zientek, L. R.** (2021, June). *Enrollment practices in mathematics: Evidence from research and implications for practice.* Presented at the National Organization for Student Success, virtual conference.

37. Skidmore, S. T., & **Zientek, L. R.,** Lane, F., & Nimon, K. (2020, April). *Profiles of undergraduate completers: Deconstructing the heterogeneity.* Paper accepted for presentation at the annual conference of the American Educational Research Association, San Francisco, CA. **(Accepted - Conference cancelled)**

36. **Zientek, L. R.,** & Nolting, P. (2018, November). *Mathematics anxiety solutions: Current research and classroom strategies.* Presentation at the Third National Mathematics Summit: For math in the first two years of college, Orlando, FL.

35. **Zientek, L. R.,** & Nolting, P. (2018, November). *Math instructors can become heroes*

by improving math self-efficacy and reducing anxiety. Table session at the Third National Mathematics Summit: For math in the first two years of college, Orlando, FL.

34. Nimon, K., & **Zientek, L. R.** (2018, April). *Commonality analysis of multivariate measures of association.* Paper presented at the annual conference of the American Educational Research Association, New York City, NY.

33. Dorsey, J., Rutschow, E. Z., **Zientek, L. R.,** Samil-Shore, K. (2017, November). *Showing the data: Multiple studies of Dana Center Math Pathways (DCMP).* Paper presented at the annual conference of the American Mathematical Association of Two-Year Colleges Conference, San Diego, CA.

32. **Zientek, L. R.,** & Nolting, P. (2017, November). *Addressing math anxiety: Research findings and classroom practices.* Paper to be presented at the annual conference of the American Mathematical Association of Two-Year Colleges Conference, San Diego, CA.

31.Mittag, K. C., & **Zientek, L. R.** (2016, November). *Students have fun rolling a die to discover the central limit theorem.* Poster presented at the annual meeting of the American Mathematical Association of Two-Year Colleges, Denver, CO.

30. Nimon, K., & **Zientek, L. R.** (2016, April). *Interpreting canonical correlation results: Using YHAT software to analyze canonical variates.* Paper presented at the annual conference of the American Educational Research Association, Washington, DC.

29. **Zientek, L. R.,** Almy, K., Dorsey, J., Stano, N., & Wilhite, P. (2016, March). *Implementing course redesigns: Curriculum options and measuring effect.* Presented at the 2016 at the National Math Summit: NADE preconference, Anaheim, CA.

28. Phelps, J., Sallee, L., Nolting, L., & **Zientek, L. R**. (2014, November). *Developmental mathematics summit study skills plan implementation*. Presented at the 2014 American Mathematical Association of Two-Year Colleges Conference, Nashville, TN.

27. Rosnowski, J., Phelps, J., Boylan, H., Treisman, U., Goossen, R., Kipple, K., Peeples, J., & **Zientek, L. R.** (2014, November). *National Summit on Developmental Mathematics: Continuing the Dialogue.* Panel presentation at the 2014 American Mathematical Association of Two-Year Colleges Conference, Nashville, TN.

26. Peeples, J., Ellis, W., Getz, A., Kipple, K., **Zientek, L. R.,** & Nolting, P. (2014, August). *Innovative curricula for developmental mathematics*. Panel presentation at the Mathematical Association of America MathFest, Portland OR.

25. **Zientek, L. R.,** Mittag, K. C., & Thompson, B. (2014, April). *Sources of self-efficacy of middle school Hispanic students*. Poster presented at the annual meeting of the National Council of Teachers of Mathematics, New Orleans, LA.

24. Nimon, K., **Zientek, L. R.,** & Thompson, B. (2014, April). *Investigating bias in squared structure coefficients*. Paper presented at the annual meeting of the American Educational Research Association, Philadelphia, PA.

23. **Zientek, L. R.,** Duranczyk, I., Mesa, V., & Schoen, S. (2013, October). *Community college research: Gathering evidence from a collection of dissertations*. Presentation

at the Research Presession at the annual meeting of the American Mathematical Association of Two-Year Colleges.

22. **Zientek, L. R.,** Fong, C., & Phelps, J. (2013, April). *The sources of self-efficacy of community college students in developmental mathematics*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.

21. Skidmore, S., **Zientek, L. R.,** Saxon, D. P., & Edmonson, S. (2013, April). *Instructional technology practices of developmental education faculty in Texas by generational classification*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.

20. Skidmore, S., & **Zientek, L. R**. (2012, November). *Developmental math educators' instructional technology priorities*. Poster presented at the annual meeting of the American Mathematical Association of Two-Year Colleges, Jacksonville, FL.

19. Holland, D., **Zientek, L. R**., Nimon, K., Kraha, A., Johnson, U., Ponce, H., & Henson, R. (2012, October). *A reliability generalization study: The motivated strategies for learning questionnaire*. Poster presented at the annual meeting of the American Evaluation Association Conference, Minneapolis, MN.

18. Nimon, K., Lane, F., Augilar, M. G., Carrero, K., Frear, S., Garrigue, M., Zimmerman, T., **Zientek, L. R**., & Henson, R. (2012, October). *Reliability generalization (RG): Examining reliability estimates of the organizational commitment questionnaire (OCQ)*. Paper presented at the annual meeting of the American Evaluation Conference, Minneapolis, MN.

17. Frels, R., **Zientek, L. R.,** & Onwuegbuzie, A. J. (2012, April). *Differences of mentoring experiences across grade span among principals, mentors, and mentees*. Paper presented at the annual meeting of the American Educational Research Association, Vancouver.

16. Sharon, V., Jones, D., & **Zientek, L. R**. (2012, February). *Prospective teachers' ability to solve algebra equations*. Presentation at the annual meeting of the Research Council on Mathematics Learning, Charlotte, NC.

15. **Zientek, L. R.,** Fong, C., Phelps, J., Griffin, M., Yetkiner, Z. E. (2011, November). *Research in developmental education classrooms.* Paper presented at the annual meeting of the American Mathematical Association of Two-Year Colleges. Austin, TX.

14. **Zientek, L. R**., Fong, C. J., Yetkiner, Z. E., & Phelps, J. (2011, April). *The role of students' self--efficacy in developmental mathematics across ethnicity.* Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.

13. **Zientek, L. R.,** Matteson, S. M., Mittag, K. C., & Taylor, S. (2010, November). *Evaluating the impact of virtual manipulatives on teacher quality*. Paper presented at the annual meeting of the School Science and Mathematics Association. Fort Myers, Florida.

12. Mittag, K. C., & **Zientek, L. R..** (2010, November). *Fun with probability simulations*. Presentation at the annual meeting of the School Science and Mathematics Association. Fort Myers, Florida.

11. Taylor, S., Mittag, K. C., & **Zientek, L. R.** (2009, October). *Bar graphs and histograms: What's so hard to understand?* Presentation at the annual meeting of the School Science and Mathematics Association Conference, Reno NV.

10. Mittag, K. C., Taylor, S., & **Zientek, L. R**. (2009, October). *The ferris wheel goes round and round*. Presentation at the annual meeting of the School Science and Mathematics Association Conference, Reno NV.

9. Yetkiner, E., Capraro, R. M., **Zientek, L. R**., & Thompson, B. (2008, July). *The importance of effect sizes in mathematics education studies.* Paper presented at the annual meeting of the International Congress on Mathematics Education, Monterrey, Mexico.

8. **Zientek, L. R**., Capraro, M. M., & Capraro, R. M. (2008, March). *Reporting practices in quantitative teacher education research: One look at the evidence cited in the AERA panel report.* In Suzanne Wilson (Chair), *Recommended Reporting Practices in Teacher Education.* Symposium conducted at the annual meeting of the American Educational Research Association, New York.

7. **Zientek, L. R.,** Carter, T. A., Taylor, J. M., & Capraro, R. M. (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.

6. Allen, D., **Zientek, L. R.,** Wilhite, P. A., Griffin, M., & White, G. (2006, November). *College algebra across Texas – Survey results.* Presentation at the annual meeting of the American Mathematical Association of Two-Year Colleges, Cincinnati, OH.

5. **Zientek, L. R**., Capraro, R. M., & Capraro, M. M. (2006, April). How do new teachers differ on self-efficacy and level of preparedness by certification route? In L. R. Zientek (Chair), *Research Findings and Issues for Alternative Certification Routes and Influences of Recent Federal Legislation.* Symposium conducted at the annual meeting of the American Educational Research Association, San Francisco, CA.

4. 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 annual meeting of the National Council of Teachers of Mathematics, Anaheim, CA.

3. Carter, T. A., **Zientek, L., R**., & Capraro, R., M. (2005, January). *Teaching statistical concepts: Are future teachers prepared?* Paper presented at the annual meeting of the Association of Mathematics Teacher Educators, Dallas, TX.

2. Carter, T. A., **Zientek, L., R**., & Capraro, R., M. (2005, February). *Preservice teachers' understanding of probability and statistics.* Paper presented at the annual meeting of the Research Council for Mathematics Learning, Little Rock, AR.

1. **Zientek, L. R.,** Kadhi, T. G., & Capraro, R. M. (2003, February). *Community college's expanding role in teacher preparation*. Paper presented at the annual meeting of the Association of Mathematics Teacher Educators, Atlanta GA.

Presentations Chaired

Research Findings and Issues for Alternative Certification Routes and Influences of Recent Federal Legislation. Organized symposium presented at the 2006 American Educational Research Association Annual Meeting.

- Chair: Linda Reichwein Zientek Discussant: Linda Darling-Hammond Teacher Licensure Tests and Student Achievement: Is Teacher Testing an Effective Policy? Dan Goldhaber
- How Do New Teachers Differ on Self-efficacy and Level of Preparedness by Certification Route? Linda Reichwein Zientek, Robert M. Capraro, Mary Margaret Capraro
- Effective Alternative Certification Programs and Teaching Quality: The Case of North Carolina. Barnett Berry, Dylan Johnson, Dana Montgomery
- Characteristics of Effective Alternative Certification Programs. Daniel C. Humphrey, Marjorie E. Wechsler, and Heather Hough, SRI
- The Current Debate about Teacher Certification Routes. Robert Floden

Treisman, P. U. (2007, February). *Fireside chat with Uri (Graduate session).* Southwest Educational Research Association, San Antonio, TX.

Thompson, B., Daniel, L. G., Henson, R. K., & Onwuegbuzie, A. (2006, February). In L. R. Zientek (Chair), *How to publish: Advice from editors.* Session presented at the annual meeting of the Southwest Educational Research Association, Austin, TX.

Regional

40. Skidmore, S. T., Zientek, L. R., & Martirosyan, N. (2024, February). *Helping our students become graduates*. Paper presented at the Southwest Educational Research Association, Arlington, TX

39. Collett, A., & Zientek, L. R. (2023, February). *Multiplication facts in high school mathematics course.* Paper presented at the Southwest Educational Research Association, San Antonio, TX.

38. Zientek, L. R., Skidmore, S. T., & Lane, F. (2022, February). *Validating a causal model for mathematics anxiety levels and identifying predictors of student success.* Paper presented at the annual meeting of the Southwest Educational Research Association, New Orleans, LA.

37. Nimon, K., Zientek, L. R., & Fulmore, J. (2021, February). *Canonical correlation analysis as a general analytic model: Facts and fiction.* Workshop presented at the virtual Southwest Educational Research Association conference. https://scholarworks.uttyler.edu/sera2021/conference/freeworkshops/6/

36. Zientek, L. R., & Lane, F. C. (2020, February). *Effects of timely enrollment in college-level mathematics on degree completion.* Paper presented at the Southwest Educational Research Association, Arlington, TX.

35. Zientek, L. R., Nimon, K., & Fulmore, J. (2020, February). *The multivariate general linear model hierarchy: A comprehensive illustration – Take 2*. Workshop presented at the Southwest Educational Research Association, Arlington, TX.

34. Zientek, L. R., & Lane, F. C. (2019, February). *Does completing a mathematics course during the first semester of college predict college success?* Paper presented at the Southwest Educational Research Association, San Antonio, TX.

33. Nimon, K., Zientek, L. R., & Mull, M. (2019, February). *Regression as the univariate general linear model – Take 2.* Workshop presented at the Southwest Educational Research Association, San Antonio, TX.

32. Nimon, K., Berrios, J., Mull, M., Musgrave, J., Chretien, J., & Zientek, L. R. (2018, February). *Canonical correlation as the multivariate general linear model: A comprehensive illustration of a refined hierarchy*. Paper presented at the Southwest Educational Research Association, New Orleans, LA.

31. Zientek, L. R., & Nimon, K. (2017, February). *Conducting secondary analyses from published research: interpreting published data in new ways*. Workshop presented at the Southwest Educational Research Association, San Antonio, TX.

30. Nimon, K., Berrios, J., Cooper, J., Mull, M., Musgrave, J., Keiffer, G. L., & Zientek, L.R. (2017, February). *Canonical correlation as the multivariate general linear model: A comprehensive illustration*. Workshop presented at the Southwest Educational Research Association, San Antonio, TX.

29. Albert, J., & Zientek, L. R. (2017, February) *Attendance practices of developmental mathematics students: A case study.* Paper presented at the Southwest Educational Research Association, San Antonio, TX.

28. Younes, R. & Zientek, L. R. (2016, February). *Influence of socio-economic status and school locale on mathematics scores and dispositions: Results from TIMSS 2011*. Paper presented at the annual conference of the Southwest Educational Research Association, New Orleans, LA.

27. Albert, J., Zientek, L. R., Manage, A. & Li, X. (2016, February). *Student success rates of developmental mathematics students by student profiles.* Paper presented at the annual conference of the Southwest Educational Research Association, New Orleans, LA.

26. Moreno, N. P., Newell, A. D., Zientek, L. R., & Nimon, K. (2015, February). *STEMming the HIV/AIDS tide: Linking science education to critical world issues*. Paper to be presented at the annual conference of the Southwest Educational Research Association, San Antonio, TX.

25. Haecker, B. M., & Zientek, L. R. (2015, February). *Evidence-based decision making: influences on central-office administrators' decision-making practices*. Paper presented at the annual meeting of the Southwest Educational Research Association, San Antonio, TX.

24. Taylor, J. M., & Zientek, L. R. (2015, February). *The effect of computer algebra system on the mathematics achievement of middle school students*. Paper presented at the annual meeting of the Southwest Educational Research Association, San Antonio, TX.

23. Younnes, R., Fong, C., & Zientek, L. R. (2015, February). *Gender and ethnic differences in U.S. students' mathematics achievement and beliefs: Results from*

TIMSS 2011. Paper presented at the annual meeting of the Southwest Educational Research Association, San Antonio, TX.

22. Newell, A. D., Moreno, N., & Zientek, L. R. (2014, February). *Student attitudes towards science as a predictor for student content knowledge gains*. Paper presented at the annual meeting of the Southwest Educational Research Association, New Orleans, LA.

21. Yetkiner-Ozel, E., Zientek, L. R., & Ozel, S. (2013, February). *Flexible teaching of statistical significance testing & confidence intervals*. Paper presented at the annual meeting of the Southwest Educational Research Association, San Antonio, TX.

20. Skidmore, S. T., Zientek, L. R., Combs, J., Hirai, M., Price, D., Moore, G. (2013, February). *A review of the statistical practices of developmental education researchers in published studies.* Paper presented at the annual meeting of the Southwest Educational Research Association, San Antonio, TX.

19. Zientek, L. R., Nimon, K., & Kraha, A. (2013, February). *All possible subsets for predictive discriminant analysis and logistic regression: Automating the process.* Paper presented at the annual meeting of the Southwest Educational Research Association, San Antonio, TX.

18. Zientek, L. R., Natesan, P., & Nimon, K. (2013, February). *Conducting and publishing research: An overview of the research process*. Workshop presented at the annual meeting of the Southwest Educational Research Association, San Antonio, TX.

17. Nimon, K., Skidmore, S., Zientek, L. R., & Thompson, B. (2013, February). *Bias and precision in several R^2 correction equations across various research designs and situations.* Paper presented at the annual meeting of the Southwest Educational Research Association, San Antonio, TX.

16. Ozel, S., Yetkiner Ozel, Z. E., & Zientek, L. R. (2012, February). *Van Hiele levels of geometric understanding in preservice teachers*. Paper presented at the annual meeting of the Southwest Educational Research Association, New Orleans, LA.

15. Matteson, S. M., Zientek, L. R., Ozel, S., & Yetkiner Ozel, Z. E. (2012, February). *Next steps in improving professional development for mathematics teachers.* Paper presented at the annual meeting of the Southwest Educational Research Association, New Orleans, LA.

14. Taylor, J. M., Zientek, L. R., & Matteson, S. M. (2012, February). *Improving achievement in trigonometry: The role of fractions operations*. Paper presented at the annual meeting of the Southwest Educational Research Association, New Orleans, LA.

13. Nimon, K., Zientek, L. R., & Thompson, B. (2012, February). *Beta weights and structure coefficients: Why do they bounce*? Paper presented at the annual meeting of the Southwest Educational Research Association, New Orleans, LA.

12. Zientek, L. R., Natesan, P., & Nimon, K. (2012, February). *Conducting and publishing research: An overview of the research process*. Workshop presented at the annual meeting of the Southwest Educational Research Association, New

Orleans, LA.

11. Kraha, A., Turner, H., Nimon, K., Zientek, L. R., & Henson, R. (2011, February). *Evaluating predictor importance: Tools to support interpreting multiple regression.* Paper presented at the annual meeting of the Southwest Educational Research Association, San Antonio, TX.

10. Zientek, L. R., & Thompson, B. (2009, February). *Heuristic examples show how correlation matrices can benefit research.* Paper presented at the annual meeting of the Southwest Educational Research Association, San Antonio, TX.

9. Zientek, L. R., Capraro, M. M., Capraro, R. M., & Yetkiner, Z. E. (2008, February). *Reporting practices in teacher education: The importance of structure coefficients*. Paper presented at the annual meeting of the Southwest Educational Research Association, New Orleans, LA.

8. Schneider, C., Capraro, R. M., & Zientek, L. R. (2007, July). *High school to higher ed: What do the mathematics data show?* Presentation at the American Mathematical Association of Two-Year Colleges Southwest Regional Conference, San Antonio, TX.

7. Zientek, L. R., & Thompson, B. (2007, February). *Variations in preparation needs by teaching level?* Paper presented at the annual meeting of the Southwest Educational Research Association, San Antonio, TX.

6. Zientek, L. R. (2005, February). *Applying the bootstrap to the multivariate case: Bootstrap factor analysis*. One-hour training session presented at the annual meeting of the Southwest Educational Research Association, New Orleans, LA.

5. Zientek, L. R., Carter, T. A., Taylor, J. M., & Capraro, R. M. (2005, February). *Future teachers' understanding of statistical concepts*. Paper presented at the annual meeting of the Southwest Educational Research Association, New Orleans, LA.

4. Zientek, L. R. (2005, February). *Investigating the relationship between variable correlations and coefficient alpha*. Paper presented at the annual meeting of the Southwest Educational Research Association, Dallas, TX.

3. Zientek, L. R. (2004, February). *Commonality analysis: Partitioning variance*. Paper presented at the annual meeting of the Southwest Educational Research Association, Dallas, TX.

2. Zientek, L. R. (2004, February). *Applying the bootstrap to the multivariate case: Bootstrap factor analysis*. Paper presented at the annual meeting of the Southwest Educational Research Association, Dallas, TX.

1. Zientek, L. R. (1998, March). *Fundamental similarity of matrix symbols.* Paper presented at the annual meeting of the Texas Section of the Mathematical Association of American Meeting, Dallas, TX.

State

10. Fong, C. J., & Zientek, L. R. (2015, April). *The role of instructional practices in community college student developmental mathematics grades*. Poster to be presented at the Council for the Study of Community Colleges Annual Meeting,

Fort Worth, TX.

9. Zientek, L. R. (2014, February). *A collection of internet activities for prospective elementary teachers*. Presented at the Great Ideas for Teaching Students (GIFTS) Seminars at the annual meeting of the Texas Community College Teachers Association, San Antonio, TX.

8. Taylor, S., Mittag, K. C., & Zientek, L. R. (2011, February). *Using data for z-scores and confidence intervals*. Presentation at the Conference on the Teaching of Mathematics 6 – 12, SHSU, Huntsville, TX.

7. Zientek, L. R., Yetkiner, Z. E., & Griffin, M. (2009, October). *An investigation of factors that influence students' academic success in developmental mathematics courses*. Presentation at the Charles A. Dana Center Higher Education Conference, Austin, TX.

6. Zientek, L. R. (2008, October). *Preparing mathematics and science teachers: Implications for research and teacher training*. Presentation at the Charles A. Dana Center Higher Education Conference, Austin, TX.

5. Seeley, C., Wohlgehagen, J., & Zientek, L. R. (2008, February). *College-readiness standards and the development of a new fourth year of mathematics course.* Presentation at the annual meeting of the Texas Community College Teachers Organization, Dallas, TX.

4. Beauford, J., Vasquez-Mireles, S., Zientek, L. R., Westbrook, V., Wohlgehagen, J., & White, G. (2007, October). Presentation at the *P-16 vertical and horizontal alignment in mathematics and science: What does this mean for faculty?* Dana Center October Pre-service Conference, Austin TX.

3. Allen, D., Griffin, M., Wohlgehagen , J., & Zientek, L. R. (2007, July). *Moving from high school mathematics to college mathematics: What's going on?* Presentation at the Conference for the Advancement of Mathematics Teachers, San Antonio, TX.

2. Weilmuenster, J., Wohlgehagen, J., & Zientek, L. R. (2007, June). *P-16 connections: Creating a cohesive transition into higher education.* Presentation at the Administrator's Conference, San Antonio, TX.

1. Allen, D., Zientek, L. R., Wilhite, P. A., & Griffin, M. (2006, October). *College algebra as a transition course – What the colleges want to see?* Presentation at the Dana Center October Pre-service Conference, Austin TX.

Local

3. Zientek, L. R., (2006, July). *Invited presentation to speak to participants of the PLC-MAP Project at Texas A&M University*. The presentation focused on investigations of differences between alternative and traditionally certified teachers with an emphasis on community college programs for mathematics and science teachers.

2. Zientek, L. R., Kadhi, T. G., & Capraro, R. M. (2004, February). *Alternative certification program analysis.* Paper presented at the annual meeting of the Educational Research Exchange, College Station, TX.

1. Zientek, L. R. (2003, February). *Community colleges and alternative certification.* Paper presented at the annual meeting of the Educational Research Exchange, College Station, TX. [**Winner, Gerald Kulm, Curtis D. Robert Endowed Professor of**

Mathematics Education Outstanding Paper Award]

INVITED WORKSHOPS/PRESENTATIONS

11. Nimon, K., Zientek, L. R., & Fulmore, J. (February, 2023). *Learning and Teaching the General Linear Model Through Gamification and an Open-Source Shiny Application*. Invited Training Session at the Southwest Educational Research Association, San Antonio, TX.

10. 2018 Third National Mathematics Summit: For math in the first two years of college. Invited Panel Member for Closing Session, Orlando, FL.

9. Zientek, L. R., (2017, March). *Conducting undergraduate research in mathematics education: The benefits of adhering to the standards*. Building Scholars Program - TAMUI, Laredo, TX.

8. AMATYC 2013 Developmental Mathematics Institute: Invited Panel Member for Opening Session. Anaheim, CA.

7. Blair, R., & Zientek, L. R. (2013, July). *Foundations of mathematical reasoning.* Presented at the NMP Institute, Austin, TX.

6. Zientek, L. R. (2013, March). *Student success: Looking beyond skill sets*. Presented at the SHSU Mathematics Club meeting.

5. Zientek, L. R. (2012, October). *Factors that influence success in developmental mathematics courses*. Presented at a Colloquium for the SHSU Mathematics and Statistics department.

4. Zientek, L. R. (2012, January). *Research Findings in Developmental Education from Three Community Colleges.* Presented to mathematics faculty at Northeast Texas Community College.

3. Zientek, L. R. (2011, March). *An overview of the research process*. Presented to a graduate class via Skype at Bogazici University

2. Thompson, B., Onwuegbuzie, A., & Zientek, L. R. (2010, October). *Data Collection, Analysis, and Dissemination*. Workshop presented for the Texas STEPs – Workshop II. Houston, TX.

1. Zientek, L. R., Crider, P., Wetzel, K., & Harris-Hardland, G. (2010, March). *Developmental Education Research and Initiatives*. Preconference workshop presented at the Annual Meeting of the Texas Mathematical Association of Two-Year Colleges, Houston, TX.

REVIEWER (<u>Served as a Reviewer for the Following):</u>

Educational Researcher
American Educational Research Journal: Teaching, Learning, and Human Development
Southwest Educational Research Association (SERA) Annual Conference
American Educational Research Association Annual Conference. Division K-Teaching and Teacher Education, Sections 1 and 10.

Journal of Early Intervention
School, Science, and Mathematics
Journal Behavior Research Methods
The Journal of Experimental
Education 2007 & 2008 Outstanding
SERA Paper *Evaluation & the Health*
Professions Research in The Schools
Mathematics Teacher
Journal for Research in Mathematics
Education Methods in Ecology and Evolution
European Journal of Training and Development
Learning and Individual Differences

EDITORIAL BOARDS

CITE Editorial Panel Member (2022 -)

Research in The Schools (2010 - 2021)

Associate Editor – *Texas Mathematics Teacher – Term ended 2022*

GRANT PROPOSALS SUBMITTED

Induction Programs and Principal Quality: How to Create the Best Support for Beginner 6-12 Grade Math/Science Teachers. A preliminary proposal was approved and an invitation was given to submit a full proposal for review, which was submitted November 2008. PI: Bruce Thompson; Co-PIs: Linda Zientek, Mary Margaret Capraro, and Robert M. Capraro **(Not Funded).**

Evaluating the Impact of Virtual Manipulatives on Teacher Quality and Student Learning (NSF). Submitted to National Science Foundation. PI: Linda Zientek (**Not Funded**, Approximately $450,000)

2011 Co-investigator, $1,100,232.00. Development and Dissemination of an Algebra Teacher Self-Efficacy Instrument, U.S. Department of Education, Institute of Education Sciences **(Not Funded)**

Technology Assisted Research Geared to Enhancing Teaching (TARGET) and Student Learning. Submitted to National Science Foundation. **(Not Funded).**

2015- SHSU Assessment Mini-Grant; Julie Albert & Linda Zientek. ($1,000) (**Funded**)

2015 – SHSU Enhancement Research Grant Proposal. *A Strengths-Based Learning Approach to Developmental Mathematics***.** Forrest Lane – PI; Linda Zientek – Co-investigator. **(Not Funded).**

2018- SHSU Assessment Mini-Grant; Linda Zientek & Forrest Lane ($1,000) (**Funded**)

2023-2025 -Engaged Learning Fellowship Grant ($12,000) (**Funded –**) - *Promoting Active Learning in a Problem-Solving Course for Prospective Highschool Teachers*

GRANT ACTIVITES

2023-Present – Advisory Board Member for NSF Grant (PIs Carlton Fong and Taylor Acee)
2012 –Community College Liaison - Online Developmental Education Courses – SHSU Education Leadership Grant from Texas Higher Education Coordinating Board

CONSULTING

2018 – Program Review Team Weber State University (Member)
2017 – Reviewer for Conference Board of the Mathematical Sciences section on Two-Year Colleges
2013 – Present Baylor College of Medicine Center for Educational Outreach
2014 – MDRC Developmental Education Acceleration Project
2012 – New Mathways Project Cross Course Design Team - Member
2012 – Consultant – Program Review Mathematics Department – Blinn College Brenham
2012 Statway Outcomes – Charles A. Dana Center – (January)
2010 – 2011 Co-evaluator for the UT-Arlington Mathematics Teacher Preparation Academy (James Epperson & Teresa Jorgeson)
2009 – 2011 Evaluator for a San Antonio Mathematics Collaborative Teacher Quality Grant (UTSA: Kathleen Mittag and Betty Travis)

TEACHING

TEACHING EXPERIENCE

Sam Houston State University

Assistant/Associate Professor Fall 2007 – Present

MATH 1385 – Introduction to the Foundations of Mathematics II
MATH 1316 – Trigonometry
MATH 1410 – Elementary Functions
MATH 2384 – Functions & Graphs
MATH/STAT 3779 – Statistical Methods in Practice
MATH 3381– Introduction to the Foundations of Mathematics III
MATH 3386– Fundamentals of Probability and Statistics
MATH 4385 – Mathematical Problem Solving
MATH 5386 – Seminar in Algebra for Teachers (Both F2F and Online)
MATH 5389 – Seminar in Probability and Statistics for Teachers
MATH 5360 – Introduction to Quantitative Education Research Using SPSS
CIED 7331 – Teaching Strategies for Developmental Mathematics
DVED 8033 – Dissertation Preparation

Graduate Students

MA – served as director of capstone projects

Kate M. Selcuk – Summer 2023
James Smith – Summer 2023
Antonia Collett – Summer 2022
Arghya Dhar – Fall 2021
Julie Albert

Laura Burris
Birgit Steinich
Jim Dang

EdD/PhD
Stephanie Doyen (EdD – Committee Member – Graduated December 2011)
Bonnie Haecker (PhD – Committee Member – EPSY Texas A&M University – Graduated December 2013)
Michele Poast (Co-Chair– Graduated 2018)
Bethany Chandler (Committee Member – Graduated 2019)
Amy Nabors (Chair – Graduated 2020)
Celisa Counterman (Chair – Graduated 2020)
Andrew Bloom (Member – Graduated 2020)
Shannon Bishop (Member – Graduated 2021)
Laura Walters (Chair – Graduated Spring 2023)
Kendis Smith (Co-Chair)
Cesar Sanchez (Chair)

McNair Scholar
Elizabeth Gillilan – (Beginning Spring 2022)

Instructor Blinn College August 1997-2007
August 1997 – 1999 Part-time/adjunct instructor
August 1999 – 2007 Full-time instructor
Math 0100 TASP Preparation
Math 0310 Algebra
Math 0312 Intermediate Algebra
Math 1314 College Algebra
Math 1316 Trigonometry
Math 1350/1351 Fundamentals of Math I & II
Math 1325 Analysis II – Calculus for the Managerial, Life, and Social Sciences
Mathematics Modules in the Blinn Alternative Certification Program (TEACH)

CURRICULUM DEVELOPMENT
Developed the mathematics modules for the Blinn Alternative Certification Program (TEACH) and co-taught the TEACH mathematics section.

Teaching Assistant - Mathematics Sam Houston State University,
January 1996 – May 1997
Oct 1994 – May 1995 SHSU Graduate Student Research Assistant

SERVICE

National or Regional

2020 – Present	Southwest Regional Representative for the AMATYC Developmental Math ANet
2019- Present	CBMS 2020 Two-Year College Steering Committee Member

2018-2019	Elementary Teacher Mathematics Working Group (Charles A Dana Center)
2018	Contributor to AMATYC IMPACT
2017	CMBS 2015 Reviewer
2017	Served as a reviewer of the MAA IP Guide Classroom Practices chapter
2017	AMATYC DMC Proposal Review Subcommittee
2015-2017 (Fiscal)	Institute of Education Sciences' Mathematics and Science Education Research Scientific Review Panel – Principal Member
2015	Participant of the Common Vision Workshop (Washington, DC)
2014	AMATYC Crossroads Revision Task Force – Member
2014 – Present	**SERA EXECUTIVE DIRECTOR**
2011 – 2015	AMATYC Developmental Mathematics Committee – Chair (5 years)
2014 February	Member of the IES Mathematics & Science 2 Review Panel
2013	AMATYC Standards Advisory Group (Member)
2012	2012 SERA Conference Immediate-Past President
2012 (January)	Student Success Meeting– Charles A. Dana Center (January
2011 – 2014	SERA Deputy Executive Director
2011	2011 SERA Conference President
2010 – 2013	School Science and Mathematics Association Publications Committee 2010 – **Present SERA – Proposal System:** Bruce Thompson and I developed a new online proposal system. Once the system was set up, I was in charge of collecting the proposals and organizing the proposal file.
2010	2010 SERA Conference Program Chair and President-Elect
2010	AMATYC New Developmental Mathway – Invited and attended a meeting at the Carnegie Foundation, Palo Alto California and worked further on the development of the goals for the Mathway Project
2009 – 2010	Invited Member of the AMATYC Mathway Group (Invited)—This is a 15 member subgroup of the AMATYC New Developmental Life Project who were invited to participate in a project for investigating new pathways into developmental mathematics. Participated in a workshop in Seattle that was sponsored by the Monterrey Institute of Technology and The Gates Foundation.
2009	AMATYC New Developmental Life Project (Partner-Invited)—Group is working on examining how better to improve developmental education.
2009	School Science and Mathematics Association – Finance Committee
2007 – 2008	TASM 4th Year of Mathematics Committee – Committee designed a 4th year of mathematics course. The committee was created under the direction of TASM and was chaired by Cathy Seeley.
2007 – 2008 April	SERA Newsletter Editor
2007 – 2008 April	Texas Higher Education Coordinating Board College Readiness Vertical Team Member
2007 May	Selected to be placed on the ballot for Southwest Regional Vice-President of AMATYC
2006-2011	Texas Partners in P-16 Mathematics (Chair) – Representatives from K-

	12, School Organizations, Colleges, and Universities meet to increase communication between all levels of educators.
2006	Reviewer for *AMATYC Beyond Crossroads Review of Quantitative Literacy Digital Resource*
2006–2008 Feb	TCCTA Legislative Committee (Member)
2005–2007	2007 American Mathematical Association of Two-Year Colleges (AMATYC) Southwest Regional Conference Committee Chair
2005–2007	TexMATYC Campus
Representative 2005	AMATYC Delegate
2004-2006	President Texas Mathematical Association of Two-Year Colleges (TexMATYC).
2002-2004	Algebra Teachers Empowered for Achievement in Mathematics and Science (TEXTEAM) Leader
2002-2004	Geometry TEXTEAM Leader
2002-2004	Texas Community College Teacher's Association (TCCTA) Mathematics Section Secretary, Vice Chair, and Chair

SHSU (Service)

Department

MIDDLE SCHOOL PROSPECTIVE TEACHERS' TESTING (Spring/Summer 2024)

Greater Texas Foundation Mathematics & Science Scholarship Committee Chair 2024
Mathematics Honor's Committee Chair 2023
Recorder of Departmental Minutes – Fall 2022
Faculty Mentor - Fall 2022 - Present
Student Success In Calculus Committee January 2022 – October 2022 Just-in-Time Videos
Mathematics Honor's Committee Chair 2022
Data Science Proposal Committee - 2021
Advisory Committee – Department Chair Melinda Holt
Co-chair Mathematics Education Search Committee (2019-2020)
Mathematics Task Force for Student Success
Mathematics Honor's Committee Co-chair (2019)

HIGH SCHOOL PROSPECTIVE TEACHERS' TESTING (2018 Jan – Present)

Mathematics Honor's Committee Co-chair (2018)
Co-chair Mathematics Education Search Committee (2016-2017)
In charge of proposal system for Conference On the Teaching of Mathematics 6-12 (2016)
Mathematics Honor's Committee Chair 2015
In charge of proposal system for Conference On the Teaching of Mathematics 6-12 (2015)
Mathematics Honor's Committee Chair 2014
Program Chair for the Conference On the Teaching of Mathematics 6-12 (2014)
Mathematics Honor's Committee Chair 2013

Program Chair for the Conference On the Teaching of Mathematics 6-12 (2013)
Merit Committee (Member – Spring 2012)
Mathematics Honor Committee (Member – Spring 2012)
Search Committee Department of Mathematics and Statistics – Mathematics Education Position (Member – 2011)
Merit Committee (Member – Spring 2011) MTH 386 Textbook Committee (Chair – 2011)
MTH 184/185 Textbook Committee (Member – 2011)
Developmental Mathematics Committee (Member 2010 – 2012)
Developmental Mathematics Textbook Committee (Member - 2010)
Co-sponsored the Ruth Lane Mathematics Society (2009-2010)

University (Service)

Process Mapping Committee (Fall 2021)

Provost Mathematics Task Force - 2020

Protection of Human Rights Committee (Member August 31, 2015 – August 31, 2018)
Stagg's Dissertation Committee Member (2016)
Stagg's Dissertation Committee Member (2015)
Stagg's Dissertation Committee Member (2014)
Faculty Women's Advisory Committee (Member December 2013 – August 31, 2014)
Search Committee Department of Educational Leadership – Development Education Administration Program: Position II (Member – 2014)
Protection of Human Rights Committee (Member August 31, 2012 – August 31, 2015)
Stagg's Dissertation Committee (2013)
Core Curriculum Assessment Committee (Member Nov. 2011 – Aug. 31, 2013)
Stagg's Dissertation Committee (2012)
Search Committee Department of Educational Leadership – Development Education Administration Program: Position II (Member – 2011)
Search Committee Department of Educational Leadership – Development Education Administration Program: Position I (Member – 2011)
Served on the SHSU P16 Committee

Community

May 2014 – Present – Play organ for church
Facilitator of two chapters for book club: The Book of Why (organized out of UT-Tyler)

Blinn College (1997-2007)

Served on hiring committees, as an academic advisor, cosponsor of the Future Teachers Organization, Faculty Council Secretary, Vice-President, and President, Service Learning Teacher, Task Force Development committees, Partner Teaching Initiative, Team member on the Phi Theta Kappa Grant – Preparing Tomorrow's Science and Math Teachers: The Community College Response, Selection Committee for Alternative Certification Program, Teaching Excellence Award Committee Member, and Quality Enhancement Plan

Committee. Also, maintained mathematics homepage, served on textbook committees and as a mentor teacher. (2001-2007 - Organized the Blinn Mu Alpha Theta Induction Ceremony – Worked with area high school mathematics department chairs to recognize outstanding juniors and seniors and Blinn students in mathematics. Approximately 250 students, parents and teachers attended each year.

PROFESSIONAL DEVELOPMENT AND PREPARATION

2024	Book Club – The Book of Why
2012	Hierarchical Linear Modeling, Texas A&M University.
2008	National Science Foundation Day at the University of Texas at El Paso
2007	Hierarchical Linear Modeling, Texas A&M University. This was a 5- day workshop presented by Oiman Kwok.
2006	Mixed Methods Research Designs and Analysis. Southwest Educational Research Association, presented by Anthony Onwuegbuzie and John Slate
2005	Factor Analytic Designs in Educational Research. Southwest Educational Research Association, presented by Bruce Thompson.
2004 May	Regent's Initiative Conference, Texas A&M
University 2003- 2005	Information Technology and Science [ITS] Texas A&M University, Directed by Janie Schielack
2002	Texas A&M Teaching Scholars Conference
2001, 2002, 2004	Charles A. Dana Center Pre-service Conference for
Mathematics, 2006	Science, and Education
2001, 2006	TCCTA Faculty Leaders Conference
2001 Summer	Mathematics Educator Technology Short Course
2000 November	Alternative Teacher Certification Program in Community Colleges
2000 Fall	Putting Your Course Online, Virtual College of Texas
2000 Fall	Video Conference Training
2000 August	Texas Alliance Legislative Conference on Science, Technology and Mathematics Education
1998 Summer	Short course for College Algebra & Trigonometry Instructors TI-83
1999 Summer	ICTCM Conference SHSU

ACCOMPLISHMENTS

Nominated for the 2024 AMATYC Mathematics Leadership Excellence Award

2022 SERA Outstanding Paper Award renamed the Linda Reichwein Zientek Outstanding Paper Award

During its 45th Annual Meeting, February 23-25, 2022, it was announced that the **Southwest Educational Research Award** (SERA) had **renamed** in perpetuity its SERA Outstanding Paper Award the "**SERA Linda Reichwein Zientek Outstanding Paper Award.**" In announcing the surprise renaming honor, Bruce

Thompson, SERA Executive Director *Emeritus* noted, "Professor Zientek has been exemplary in her contributions to educational research, and to SERA as well. Professor Zientek has served as SERA Executive Director since 2014. She also has served as SERA Deputy Executive Director (2011-2014), President (2010-2011), and Newsletter Editor (2007-2008). Professor Zientek also received the SERA Extended Service Award in 2013."

2022 – Nominated for COSET Research Award

2021 – Nominated for COSET Research Award

2020 – Nominated for COSET Research Award

2019 - Winner of the 2019 Cynthia L. Peterson *JCRL* Outstanding Article Award

2016 -- Frels, R., **Zientek, L. R.**¸& Onwuegbuzie, A. J. Differences of mentoring experiences across grade span among principals, mentors, and mentees article named to **the Routledge's Class of 2015 most read articles from Rougledge journals researching Teacher and Teacher Education**

2013 SERA Extended Service Award

2012 Winner of the 2012 Distinguished Paper Award for the Mentorship and Mentoring Practices AERA SIG: Frels, R., **Zientek, L. R.**¸& Onwuegbuzie, A. J. Differences of mentoring experiences across grade span among principals, mentors, and mentees. *Mentoring and Tutoring Journal.*

2012 Nominated for the *Greater Texas Foundation Faculty Fellows Program* by Uri Treisman

2007 Teaching, Learning, and Culture Dissertation of the Year Award from Texas A&M

Community Colleges and Alternative Certification Outstanding Paper in

Mathematics Education, ERE, 2003

Named Outstanding Mathematics Senior 1995 (Sam Houston State University)

Named to Who's Who Among America's Teachers, Who's Who Among American Women, Who's Who Among American Education, & Who's Who in Science and Engineering