

**Linda Reichwein Zientek**  
**Assistant Professor of Mathematics Education**  
**Department of Mathematics and Statistics**  
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### **Degrees**

Ph.D. Curriculum & Instruction with an emphasis in Mathematics Education and Educational Research, Texas A&M University, 2006

Master of Science in Mathematics, Sam Houston State University, 1997

Bachelor of Science in Mathematics with a minor in Statistics, Sam Houston State University, 1995

### **Peer-Review Publications and Artistic Performances/Exhibitions**

Zientek, L. R. (in press). Book Review of Bruce Thompson's Factor Analysis Book. *Structural Equation Modeling: A Multidisciplinary Journal*

Zientek, L. R. (2007). Preparing high quality teachers: Views from the classroom. *American Educational Research Journal: Teaching, Learning, and Human Development*, 44, 959-1001.

Zientek, L. R., & Thompson, B. (2007). Applying the bootstrap to the multivariate case: Bootstrap factor analysis. *Behavior Research Methods*, 39(2), 318–325.

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

Zientek, L. R., & Thompson, B. (2006). Commonality analysis: Partitioning variance to facilitate better understanding of data. *Journal of Early Intervention*, 28, 299-307.

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

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

### **Funded External Grants**

**Induction Programs and Principal Quality: How to Create the Best Support for Beginner 6-12 Grade Math/Science Teachers (Submitted)** - Preliminary proposal approved in August and a full proposal was which was submitted in November 2007. If accepted, Bruce Thompson would serve as PI and Linda Zientek, Mary Margaret Capraro, and Robert Capraro as Co-Pis.

### **Peer-Review Presentations/Posters**

#### ***International***

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

### **National**

- Zientek, L. R., Capraro, R., & Capraro, M. 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 to be presented at the annual meeting of the American Educational Research Association, New York.
- 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.
- Allen, D., Zientek, L. R., Wilhite, P. A., Griffin, M., & White, G. (2006, November). *College algebra across Texas – Survey results*. Paper presented at the annual meeting of the American Mathematical Association of Two-Year Colleges, Cincinnati, OH.
- 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.
- 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.
- 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.
- 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.
- 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.

### **Regional**

- Seeley, C., Wohlgelegen, J., & Zientek, L. R. (2008, February). *College readiness standards and the development of a new fourth year of mathematics course*. Paper to be presented at the Texas Community College Teachers Organization, Dallas, TX.
- Allen, D., Griffin, M., Wohlgelegen, J., & Zientek, L. R. (2007, July). *Moving from high school mathematics to college mathematics: What's going on?* Paper presented at the Conference for the Advancement of Mathematics Teachers, San Antonio, TX.
- Schneider, C., Capraro, R. M., & Zientek, L. R. (2007, July). *High school to higher ed: What do the mathematics data show?* Presented at the American Mathematical Association of Two-Year Colleges Southwest Regional Conference, San Antonio, TX.
- 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.
- 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.
- 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.

- 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.
- Zientek, L. R. (2004, February). *Commonality analysis: Partitioning variance*. Paper presented at the annual meeting of the Southwest Educational Research Association, Dallas, TX.
- 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.
- Anglin, K., & Zientek, L. R. (1999). *Word problems don't have to be hard*. Rio Grande Valley Conference for Teachers of Mathematics.
- Anglin, K., & Zientek, L. R. (1998, 2000, 2001). *Word problems don't have to be hard*. Conference for the Advancement of Mathematics Teachers.
- 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.

### **Local**

- 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.
- 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**

- Beauford, J., Vasquez-Mireles, S., Zientek, L. R., Westbrook, V., Wohlgehagen, J., & White, G. (2007, October). *P-16 vertical and horizontal alignment in mathematics and science: What does this mean for faculty?* Dana Center October Pre-service Conference, Austin TX.
- Weilmuenster, J., Wohlgehagen, J., & Zientek, L. R. (2007, June). *P-16 connections: Creating a cohesive transition into higher education*. Administrator's Conference, San Antonio, TX.
- Allen, D., Zientek, L. R., Wilhite, P. A., & Griffin, M. (2006, October). *College algebra as a transition course – What the colleges want to see?* Dana Center October Pre-service Conference, Austin TX.
- 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.

### **Work or Professional Experiences**

Community college mathematics instructor, Blinn College 1997 – 2007

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| 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 |
| 2004 -2006 | President Texas Mathematical Association of Two-Year Colleges (TexMATYC).                                  |

- 2005 – 2007 2007 American Mathematical Association of Two-Year Colleges (AMATYC) Southwest Regional Conference Committee Chair
- 2005 – 2007 TexMATYC Campus Representative
- 2005 AMATYC Delegate
- 2007 May Selected to be placed on the ballot for Southwest Regional Vice-President of AMATYC
- 2006 Reviewer for *AMATYC Beyond Crossroads Review of Quantitative Literacy Digital Resource*
- 2006 – 2009 TCCTA Legislative Committee (Member)
- 2006 - Present 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.
- 2007-2008 SERA Newsletter Editor
- 2007- Present Texas Higher Education Coordinating Board College Readiness Vertical Team
- 2007- Present TASM 4<sup>th</sup> Year of Mathematics Committee – Committee will design a recommended 4<sup>th</sup> year of mathematics course. The committee was created under the direction of TASM and is chaired by Cathy Seeley.

### **Honors and Awards**

- 2007 Teaching, Learning, and Culture Dissertation of the Year Award from Texas A&M
- 2004-2005 The Chancellor's List
- Alpha Chi Honor Society (Sam Houston State University)
- Community Colleges and Alternative Certification* Outstanding Paper in Mathematics Education, ERE, 2003
- Phi Kappa Phi (Texas A&M)
- Kappa Delta Pi
- 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
- Named Outstanding Mathematics Senior 1995 (Sam Houston State University)