

**PRESENTATIONS**

(<sup>NP</sup> collaborator was actively participating co-author but could not attend presentation)

***Papers Presented (Last 5 years, from most recent)***

D. Spence & B. Bailey<sup>NP</sup> (2015), *Enhancing the Benefits of Discovery Projects in Elementary Statistics*. AMS/MAA Joint Mathematics Meetings, San Antonio, TX, January 2015.

D. Spence (2014), *CAEP, NCTM, and Secondary Mathematics Program Revisions*. Georgia Association of Mathematics Teacher Educators (GAMTE) 8<sup>th</sup> Annual Conference, Eatonton, GA, October, 2014.

D. Spence & B. Bailey<sup>NP</sup> (2014), *Researching the Effectiveness of Project-Based Learning in Elementary Statistics*. MAA MathFest, Portland, OR, August 2014.

D. Spence & B. Bailey<sup>NP</sup> (2014), *Path Elongation Constructions: A Progression of PE Values in a Single Graph*. 45th Southeastern International Conference on Combinatorics, Graph Theory and Computing, Boca Raton, FL, March 2014.

B. Bailey & D. Spence<sup>NP</sup> (2014), *Path Elongation of Graphs*. AMS/MAA Joint Mathematics Meetings, Baltimore, MD, January 2014.

D. Spence & B. Bailey<sup>NP</sup> (2014), *Authentic Discovery Projects in Elementary Statistics: Implementation and Impact on Student Outcomes*. AMS/MAA Joint Mathematics Meetings, Baltimore, MD, January 2014.

D. Spence & G. Velatini (2013), *Measuring the Impact of Discovery Projects in Statistics*. Georgia Council of Teachers of Mathematics (GCTM) Georgia Mathematics Conference, Eatonton, GA, October 2013.

B. Bailey & D. Spence (2013), *Path Elongation*. 44th Southeastern International Conference on Combinatorics, Graph Theory and Computing, Boca Raton, FL, March 2013.

S. Hix & D. Spence (2013), *Closing the Loop: How Creating and Administering Assessments for NCATE/NCTM Program Recognition Directed Us to Data Analysis that Improved Our Program*. AMS/MAA Joint Mathematics Meetings, San Diego, CA, January 2013.

S. Hix & D. Spence (2013), *Using the Standards for Mathematical Practice from the Common Core to Develop Mathematical Habits of Mind in Pre-Service Teachers*. AMS/MAA Joint Mathematics Meetings, San Diego, CA, January 2013.

D. Spence & S. Hix (2013), *Combining Strategies to Promote Meaningful Learning in Statistics*. AMS/MAA Joint Mathematics Meetings, San Diego, CA, January 2013.

D. Spence & S. Hix (2013), *Leveraging Features of Online Homework and Measuring Student Performance*. AMS/MAA Joint Mathematics Meetings, San Diego, CA, January 2013.

D. Spence & G. Velatini (2012), *Peer Mentoring to Promote Best Practices for Teaching Statistics*. Georgia Association of Mathematics Teacher Educators (GAMTE) 6<sup>th</sup> Annual Conference, Eatonton, GA, October, 2012.

D. Spence & B. Bailey (2012), *Technology-Rich Projects in Statistics*. International Conference on Technology in Collegiate Mathematics (ICTCM), Orlando, FL, March 2012.

D. Spence (2010), *Student Projects in Statistics: Finding Good Data and Measuring Student Outcomes*. Georgia Council of Teachers of Mathematics (GCTM) Georgia Mathematics Conference, Eatonton, GA, October 2010.

D. Spence (2010), *Extending K-8 Mathematics Concepts in Alternate Bases*. Georgia Association of Mathematics Teacher Educators (GAMTE) 4<sup>th</sup> Annual Conference, Eatonton, GA, October, 2010.

D. Spence & B. Bailey<sup>NP</sup> (2010), *The  $r$ -Reduced Cutting Numbers and Cutting Powers of Cycles, Sequences of Cycles, and Graphs*. Southeastern International Conference on Combinatorics, Graph Theory, and Computing, Boca Raton, FL, March 2010.

J. Badger, D. Spence, & G. Velatini (2010), *County-Wide Implementation of Singapore Math: Findings from a Recent Study*. NGCSU School of Education Symposium, Dahlonega, GA, February 2010.

R. Sinn & D. Spence (2010), *Training Teachers to Use Authentic Discovery Projects in Statistics*. Association of Mathematics Teacher Educators (AMTE) Annual Conference, Irvine, CA, January 2010.

D. Spence & J. Badger (2010), *Evaluating Countywide Adoption and Implementation of K-5 Singapore Math: A Two-Year Study in 21 Elementary Schools*. Association of Mathematics Teacher Educators (AMTE) Annual Conference, Irvine, CA, January 2010.

B. Bailey & D. Spence (2010), *Path Elongation and  $r$ -Reduced Cutting Numbers of Cycles*. AMS/MAA Joint Mathematics Meetings, San Francisco, CA, January 2010.

D. Spence & R. Sinn<sup>NP</sup> (2010), *Visualizing Algebraic Relationships: Solving Combined Rate Problems with Pattern Blocks*. AMS/MAA Joint Mathematics Meetings, San Francisco, CA, January 2010.

D. Spence, R. Sinn<sup>NP</sup>, & B. Bailey (2010), *Using Authentic Discovery Projects to Improve Student Outcomes in Statistics*. AMS/MAA Joint Mathematics Meetings, San Francisco, CA, January 2010.

#### ***Workshops/Teaching Sessions Presented (Last 5 years, from most recent)***

D. Spence & G. Velatini (2014), *Research and Randomization: Tools for Meaningful Statistics*. Georgia Council of Teachers of Mathematics (GCTM) Georgia Mathematics Conference, Eatonton, GA, October 2014.

G. Velatini & D. Spence (2014), *Geometric Models for Algebraic Concepts*. Georgia Council of Teachers of Mathematics (GCTM) Georgia Mathematics Conference, Eatonton, GA, October 2014.

G. Velatini & D. Spence (2013), *Using Rich Problems in Middle School Mathematics*. Georgia Council of Teachers of Mathematics (GCTM) Georgia Mathematics Conference, Eatonton, GA, October 2013.

D. Spence & G. Velatini (2013), *Facilitating Student Projects in Elementary Statistics*. Pre-conference Workshop at the United States Conference on Teaching Statistics (USCOTS), Cary, NC, May 2013.

D. Spence & G. Velatini (2012), *Teaching Strategies to Make Statistics Concepts Meaningful*. Georgia Council of Teachers of Mathematics (GCTM) Georgia Mathematics Conference, Eatonton, GA, October 2012.

G. Velatini & D. Spence (2012), *Demystify Challenging Problems with Bar Modeling*. Georgia Council of Teachers of Mathematics (GCTM) Georgia Mathematics Conference, Eatonton, GA, October 2012.

B. Bailey, S. Hix, & D. Spence (2012), *Facilitating Student Projects in Elementary Statistics*. Pre-conference Workshop at the MAA/AMS Joint Mathematics Meetings, Boston, MA, January 2012.

D. Spence & G. Velatini (2011), *Gaining a Deeper Understanding of Place Value*. Georgia Council of Teachers of Mathematics (GCTM) Georgia Mathematics Conference, Eatonton, GA, October 2011.

G. Velatini & D. Spence (2011), *The Power of Bar Modeling: Applying Singapore Math Strategies at the Secondary Level*. Georgia Council of Teachers of Mathematics (GCTM) Georgia Mathematics Conference, Eatonton, GA, October 2011.

D. Spence & G. Velatini (2010), *Improving Problem-Solving Skills in Upper Elementary and Middle Grades*. Georgia Council of Teachers of Mathematics (GCTM) Georgia Mathematics Conference, Eatonton, GA, October 2010.

G. Velatini & D. Spence (2010), *Transitions in Bar Modeling: Leveraging Elementary Singapore Math Strategies in Upper Grade Levels*. Georgia Council of Teachers of Mathematics (GCTM) Georgia Mathematics Conference, Eatonton, GA, October 2010.

R. Sinn & D. Spence (2010), *Solving Rate Problems with Pattern Blocks*. National Council of Teachers of Mathematics (NCTM) National Conference, San Diego, CA, April 2010.

D. Spence & R. Sinn (2010), *Authentic Discovery Learning Projects in Statistics*. National Council of Teachers of Mathematics (NCTM) National Conference, San Diego, CA, April 2010.

#### **Webinars (Last 5 years, from most recent)**

B. Bailey & D. Spence (2014), *Discovery Projects in Statistics: Implementation Strategies and Examples of Student Projects* (Webinar). Consortium for the Advancement of Undergraduate Statistics Education (CAUSE) Journal of Statistics Education Webinar Series, <https://www.causeweb.org/webinar/jse/2014-02/>, February 2014.

D. Spence & B. Bailey (2010), *Facilitating Student Projects in Statistics* (Webinar). Consortium for the Advancement of Undergraduate Statistics Education (CAUSE) Teaching & Learning Webinar, <http://www.causeweb.org/webinar/teaching/2010-12/>, December 2010.

#### **Posters (Last 5 years, from most recent)**

D. Spence & G. Velatini (2014), *Discovery Projects in Elementary Statistics: Curriculum Materials and Measurement of Student Outcomes* (Poster). 9<sup>th</sup> International Conference on Teaching Statistics, Flagstaff, AZ, July 2014.

D. Spence & B. Bailey (2014), *Discovery Learning Projects in Introductory Statistics* (Poster). NSF/MAA Joint Poster Session at the MAA/AMS Joint Mathematics Meetings, Baltimore, MD, January 2014.

D. Spence & S. Hix (2013), *Discovery Learning Projects in Introductory Statistics* (Poster). NSF/MAA Joint Poster Session at the MAA/AMS Joint Mathematics Meetings, San Diego, CA, January 2013.

D. Spence, B. Bailey, & S. Hix (2012), *Discovery Learning Projects in Introductory Statistics* (Poster). NSF/MAA Joint Poster Session at the MAA/AMS Joint Mathematics Meetings, Boston, MA, January 2012.

S. Allison, D. Spence, & B. Philip (2011), *Implementing AMR Grids on a GPU for Massive Parallelization* (Poster). Summer Research Poster Session for Faculty and Student Teams (FaST), Oak Ridge National Laboratory, Oak Ridge, TN, August 2011.

P. Ostby, D. Spence, & B. Philip (2011), *Applications of GPUs for Parallel Algorithms in Adaptive Mesh Refinement* (Poster). Summer Research Poster Session for Faculty and Student Teams (FaST), Oak Ridge National Laboratory, Oak Ridge, TN, August 2011.

D. Whitaker, D. Spence, & B. Philip (2011), *Adaptive Mesh Refinement Algorithms in General-Purpose GPU Environments* (Poster). Summer Research Poster Session for Faculty and Student Teams (FaST), Oak Ridge National Laboratory, Oak Ridge, TN, August 2011.

D. Spence & B. Bailey<sup>NP</sup> (2011), *Discovery Learning Projects in Elementary Statistics* (Poster), NSF CCLI-TUES PI Conference, Washington, DC, January 2011.

R. Sinn & D. Spence (2010), *Authentic, Career-Based, Discovery Learning Projects in Statistics* (Poster). MAA/NSF Joint Session at the Joint Mathematics Meetings, San Francisco, CA, January 2010.