

Nicole Engelke Infante

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Education

Ph. D. Mathematics with a Specialization in Mathematics Education, Arizona State University, 2007
Advisor: Dr. Marilyn Carlson

M.S. Mathematics, University of Connecticut, 1998

B.A. Mathematics and German, University of Nebraska at Omaha, 1996

Professional Experience

Assistant Professor, West Virginia University, 2012-Present

Assistant Professor, California State University, Fullerton, 2007-2012

Lecturer, California State University, Fullerton, 2006-2007

Teaching Assistant, Arizona State University, 2001, 2005-2006

Research Assistant, Arizona State University, 2002-2005

Teaching Assistant, University of Nebraska at Omaha, 1992-1996

Research

Under Review

Engelke, N., Karakok, G., & Wangberg, A. (Submitted April 2014) WeBWorK CLASS: Tools to Promote Active Learning and Formative Assessment in the Classroom, *MAA Notes Volume*.

Wangberg, A., **Engelke, N.**, & Karakok, G. (Submitted April 2014) Lessons from Implementing Adaptive WeBWorK, version 1.0, *MAA Notes Volume*.

Refereed Journal Articles

Engelke, N., Karakok, G., & Wangberg, A. (Accepted, 2015) Engaging Students in the Classroom with WeBWorK CLASS, *PRIMUS*.

LaRue, R. & **Engelke, N.** (2015) Optimization in First Semester Calculus: A Look at a Classic Problem, *International Journal of Mathematical Education in Science and Technology*.
DOI: 10.1080/0020739X.2015.1067844

Vincent, B., LaRue, R., Sealey, V. & **Engelke, N.** (2015) Calculus Students' Early Concept Images of Tangent Lines, *International Journal of Mathematical Education in Science and Technology*, 46(5), 641-657.
DOI: 10.1080/0020739X.2015.1005700

Bonsangue, M., CadwalladerOlsker, T., Fernandez-Weston, C., Filowitz, M., Hershey, J., Moon, H., Renne, C., Sullivan, E., Walker, S., Woods, R., & **Engelke, N.** (2013) The Effect of Supplemental Instruction on Transfer Student Success in First-Semester Calculus. *The Learning Assistance Review*, 18(1), 61-75. [*Won the 2014 Award for Outstanding SI Research/Publication]

Engelke, N. & Kimani, P. (2013) Using Licorice to Reinvent Trigonometric Functions. *MathAMATYC Educator*, 4(2), 41-46.

Kimani, P. & **Engelke, N.** (2012) Rate Problems: Thinking Across the Curriculum. *The Mathematics Teacher*, 106(5), 370-377. [*Chosen as NCTM Editorial Panel Pick, July 2013.]

Sealey, V. & **Engelke, N.** (2012) The Great Gorilla Jump: An Introduction to Riemann Sums and Definite Integrals. *MathAMATYC Educator*, 3(3), 18-22.

Engelke, N. & Kimani, P. (2011) Twizzler Trig: What is the Sine Function? *CMC ComMuniCator*, 36(2), 30-32, 44.

Carlson, M., Oehrtman, M., & **Engelke, N.** (2010) The Precalculus Concept Assessment: A Tool for Assessing Reasoning Abilities and Understandings of Precalculus Level Students. *Cognition and Instruction*, 28(2), 113-145.

Refereed Conference Proceedings

LaRue, R. & **Engelke Infante, N.** (2015, Nov 5-8). Optimization Problems in First Semester Calculus. Accepted for Publication in the Proceedings of the 37th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education.

Miller, D., **Engelke Infante, N.**, & Weber, K. (2015, Nov 5-8). Mathematicians' Assessment of Proofs with Gaps Depending on the Author of the Proof. Accepted for Publication in the Proceedings of the 37th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education.

LaRue, R. & **Engelke Infante, N.** (2015, Feb 19-21). The Influence of Function and Variable on Students' Understanding of Calculus Optimization Problems. Published in the Proceedings of the 18th Annual Conference on Research in Undergraduate Mathematics Education, Pittsburgh, PA.

Miller, D., **Engelke Infante, N.**, & Adu, S. (2015, Feb 19-21). Students' Understanding of Composition of Functions Using Model Analysis. Published in the Proceedings of the 18th Annual Conference on Research in Undergraduate Mathematics Education, Pittsburgh, PA.

Engelke Infante, N. (2014, July 8-11). Gesture: Bringing Life to Calculus. Paper presented at the 6th Conference of the International Society for Gesture Studies: Gesture in Interaction, University of California, San Diego, CA.

Murphy, K., Glenn, C., & **Engelke Infante, N.** (2014, Feb 27-Mar 1). Implied and Empirical Readers Of Newton's Method. Published in the Proceedings of the 17th Annual Conference on Research in Undergraduate Mathematics Education, Denver, CO.

LaRue, R., Vincent, B., Sealey, V. L., & **Engelke Infante, N.** (2014, Feb 27-Mar 1). Calculus Students' Early Concept Images Of Tangent Lines. Published in the Proceedings of the 17th Annual Conference on Research in Undergraduate Mathematics Education, Denver, CO.

Karakok, G., **Engelke, N.**, & Wangberg, A. (2013) WeBWorK CLASS: Fostering Design Experiment Research on Concept Development. Published in the Proceedings of the 9th Delta Conference on the Teaching and Learning of Undergraduate Mathematics and Statistics, Kiama, Australia, November 24-29, 2013.

Garcia, N., & **Engelke Infante, N.** (2013). Gestures: A Window to Mental Model Creation. Published in the Proceedings of the 16th Annual Conference on Research in Undergraduate Mathematics Education, Denver, CO.

Engelke, N., Karakok, G., & Wangberg, A. (2013). An Annotation Tool Designed to Interface with WeBWorK: Interpreting Students' Written Work. Published in the Proceedings of the 16th Annual Conference on Research in Undergraduate Mathematics Education, Denver, CO.

Garcia, N. (undergraduate student) & **Engelke, N.** (2012) Gestures as Facilitators to Proficient Mental Modelers. Published in the Proceedings of the 34th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education.

CadwalladerOlsker, T., **Engelke, N.**, Annin, S., & Henning, A. (2012). Does a Statement of Whether Order Matters in Counting Problems Affect Students' Strategies?. Published in the Proceedings of the 15th Annual Research in Undergraduate Mathematics Education Conference Portland, OR.

Engelke, N. & CadwalladerOlsker, T. (2011) Student Difficulties in the Production of Combinatorial Proofs. *Delta Communications, Volcanic Delta Conference Proceedings*, November 2011.

CadwalladerOlsker, T., Annin, S., & **Engelke, N.** (2011). Counting Problem Strategies of Preservice and Inservice Teachers. Published in the Proceedings of the 14th Annual Research in Undergraduate Mathematics Education Conference, Portland, OR.

Engelke, N. & CadwalladerOlsker, T. (2011). Supplemental Instruction and Related Rates Problems. Published in the Proceedings of the 14th Annual Research in Undergraduate Mathematics Education Conference, Portland, OR.

Wangberg, A., **Engelke, N.**, & Karakok, G. (2011). Function Composition and the Chain Rule in Calculus. Published in the Proceedings of the 14th Annual Research in Undergraduate Mathematics Education Conference, Portland, OR.

Sousa, D. (undergraduate student) & **Engelke, N.** (2010) Identifying the Reasoning Strategies Students Used When Solving Related Rates Problems. Poster for 32nd Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, October 2010.

Engelke, N., & CadwalladerOlsker, T. (2010). Counting Two Ways: The Art of Combinatorial Proof. Published in the Proceedings of the 13th Annual Research in Undergraduate Mathematics Education Conference, Raleigh, NC.

Engelke, N., & Sealey, V. L. (2009). The Great Gorilla Jump: A Riemann Sum Investigation. Published in the Proceedings of the 12th Conference on Research in Undergraduate Mathematics Education Raleigh, NC.

Engelke, N. (2008). Developing the Solution Process for Related Rates Problems Using Computer Simulations. Published in the Proceedings of the 11th Annual Research in Undergraduate Mathematics Education Conference, San Diego, CA.

Engelke, N. (2007). A Framework to Describe the Solution Process for Related Rates Problems in Calculus. Published in the Proceedings of the 29th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education.

Engelke, N. (2007). A Framework to Describe the Solution Process for Related Rates Problems. Published in the Proceedings of the 10th Annual Research in Undergraduate Mathematics Education Conference, San Diego, CA.

Engelke, N. (2006). Teaching Innovations for Problems Involving Rates in Calculus. Published in the Proceedings of the 28th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Merida, Mexico.

Engelke, N., Oehrtman, M., & Carlson, M. (2005). *Composition of Functions: Precalculus Students' Understandings*. Published in the Proceedings of the 27th Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education.

Engelke, N. (2004). *Related Rates Problems: Identifying Conceptual Barriers*. Published in the Proceedings of the 26th Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education.

Other Works

Engelke, N. (2007). *Students' Understanding of Related Rates Problems in Calculus*. Unpublished Doctoral Dissertation, Arizona State University, Tempe, AZ.

Grant Activity

Funded

WVU ADVANCE, awarded \$15,000, September 2014

Association of Public and Land Grant Universities (APLU) - Mathematics Teacher Education Partnership: Actively Learning Mathematics Research Action Cluster, \$9,625 / \$87,355, Summer 2014

RESA IV - Project WEEMS: West Virginia Endorsement for Elementary Math Specialization Year 2, Ratio and Proportional Reasoning Course development, \$5,889 / \$74,725, Summer 2014

WVU ADVANCE, awarded \$14,987, August 2013

CATALYST Center at California State University, Fullerton, FIPSE grant #P116Z090274 - provided a course release to support working with Nancy Garcia (undergraduate), Spring 2012

State Intramural Grant: The Impact of Supplemental Instruction in Students' Understanding of Calculus Concepts, awarded \$5000, February 2010

Grading Free Response Items, DCMI, with Dr. Margaret Kidd, 2009-2010

Math Education Collaborative, University Mission and Goals, Feb 2009

Title V, Supplemental Instruction Implementation, with Dr. Martin Bonsangue and Mrs. Kathy Lewis

MAST, Sunny Hills/Troy High School Visitations, with Dr. Martin Bonsangue

TASEL-M, Orange High School Visitations, with Dr. David Pagni

Submitted

National Science Foundation (CORE): *Assessing How Gesture Enhanced Calculus Lessons Affect Student Learning*, submitted September 2015, pending

National Science Foundation (iUSE): *Student Engagement in Mathematics through an Institutional Network for Active Learning (SEMINAL)*, submitted January 2015, competitive, declined

National Science Foundation: *CAREER: Investigating the Role of Gesture in Undergraduate Mathematics*, submitted July 2014, declined

Spencer Foundation: *Investigating the Role of Gesture in Instructors' Presentation of Examples in First Semester Calculus*, submitted February 2014, declined

National Science Foundation: *CAREER: Investigating the Role of Gesture in Undergraduate Mathematics*, submitted July 2013, declined January 2014, competitive

Spencer Foundation: Creating an Interactive Calculus Classroom: WeBWorK CLASS, submitted February 2013, declined

National Science Foundation: Collaborative Project: WeBWorK PREDICTS, TUES Type II, submitted January 2012, declined December 2012, very competitive

National Science Foundation: EXP: Collaborative Research: Enhancing Calculus Learning with Technological Interventions, submitted January 2011, declined August 2011; competitive

Submitted FDC FEID intramural grant, Spring 2009, declined

Invited Presentations

Gesture as a Means of Building Transformational Reasoning Skills to Promote Success in Solving Related Rates Problems

Seminar Speaker at Purdue University, Chemistry Department, September 16, 2015

Preparing Students to Learn Math

Workshop with Aaron Wangberg, Winona State University

Funded by MnSCU in conjunction with MNMATYC, Duluth, MN, April 29, 2010

The Great Gorilla Jump: A Riemann Sum Investigation

Seminar Speaker at San Diego State University, March 9, 2009

Presentations

The Influence of Function and Variable on Students' Understanding of Calculus Optimization Problems

Renee LaRue & **Nicole Engelke Infante**

18th Annual SIGMAA on RUME Conference, Pittsburgh, PA, February 20, 2015

Students' Understanding of Composition of Functions Using Model Analysis.

David Miller, **Nicole Engelke Infante**, & Solomon Adu

18th Annual SIGMAA on RUME Conference, Pittsburgh, PA, February 20, 2015

WeBWorK CLASS: Using tablets to capture authentic student work for classroom discussion

Gulden Karakok, Aaron Wangberg, & **Nicole Engelke**

Joint Mathematics Meetings, San Antonio, TX, January 10, 2015

Gesture: Bringing Life to Calculus

Nicole Engelke Infante

Sixth Conference of the International Society for Gesture Studies: Gesture in Interaction, University of California, San Diego, CA, July 8, 2014

Implied and Empirical Readers Of Newton's Method

Kristen Murphy, Celeste Glenn, & **Nicole Engelke Infante**

17th Annual SIGMAA on RUME Conference, Denver, CO, February 27, 2014.

Calculus Students' Early Concept Images Of Tangent Lines

Renee LaRue, Brittany Vincent, Vicki Sealey, & **Nicole Engelke Infante**

17th Annual SIGMAA on RUME Conference, Denver, CO, February 28, 2014.

Transforming the Calculus Classroom with WeBWorK CLASS

Aaron Wangberg, Gulden Karakok, **Nicole Engelke**, & Alees Seehausen

Joint Mathematics Meetings, Baltimore, MD, January 18, 2014

WeBWorK CLASS: Fostering Design Experiment Research on Concept Development

Gulden Karakok, **Nicole Engelke**, & Aaron Wangberg

Lighthouse Delta, 9th Delta Conference on the Teaching and Learning of Undergraduate Mathematics and Statistics, Kiama, Australia, November 2013

Concept First Calculus - Riemann Sums as an Example

Vicki Sealey & **Nicole Engelke**

Workshop at the Annual Meeting of the West Virginia Council for Teachers of Mathematics, Roanoke, WV, March 2013

Gestures: A Window to Mental Model Creation

Nancy Garcia (Undergraduate) & **Nicole Engelke**

16th Annual SIGMAA on RUME Conference, February 23, 2013

An Annotation Tool Designed to Interface with WeBWorK: Interpreting Students' Written Work

Nicole Engelke, Gulden Karakok, & Aaron Wangberg

16th Annual SIGMAA on RUME Conference, February 21, 2013

Gestures as Facilitators to Proficient Mental Modelers

Nancy Garcia (Undergraduate) & **Nicole Engelke**

34th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Kalamazoo, MI, November 3, 2012.

SI: Closing the Achievement Gap for Underrepresented Minorities

Nicole Engelke & Todd CadwalladerOlsker

7th International Conference on Supplemental Instruction, San Diego, CA, May 31, 2012

The Great Gorilla Jump: A Riemann Sum Investigation

Nicole Engelke & Vicki Sealey

NCTM Annual Meeting, April 27, 2012

Does a Statement of Whether Order Matters in Counting Problems Affect Students' Strategies?

Todd CadwalladerOlsker & **Nicole Engelke**

15th Annual SIGMAA on RUME Conference, February 24, 2012

Working Group: Research on Using Technology as a Research and Formative Assessment Tool in the Calculus Classroom

Nicole Engelke, Gulden Karakok, & Aaron Wangberg

15th Annual SIGMAA on RUME Conference, February 23, 2012

Identifying Student Difficulties in Combinatorial Proof Production

Nicole Engelke & Todd CadwalladerOlsker

Joint Mathematics Meetings, Boston, MA, January 5, 2012

An Enhanced Implementation of the WeBWorK Online Homework System as a Formative Assessment Instrument

Gulden Karakok, Aaron Wangberg, & **Nicole Engelke**

Joint Mathematics Meetings, Boston, MA, January 7, 2012

Student Difficulties in the Production of Combinatorial Proofs

Nicole Engelke

Volcanic Delta, 8th Delta Conference on the Teaching and Learning of Undergraduate Mathematics and Statistics, Rotorua, New Zealand, November 2011

Online Homework: Identifying Problem Solving Strategies and Misconceptions for Contextualized Problems

Aaron Wangberg, **Nicole Engelke**, & Gulden Karakok

American Association of Physics Teachers Summer Conference, Omaha, NE, August 2, 2011

Rate Problems: Thinking Across the Curriculum

Patrick Kimani & **Nicole Engelke**

NCTM Annual Meeting, Indianapolis, IN, April 13, 2011

Supplemental Instruction and Related Rates Problems

Nicole Engelke & Todd CadwalladerOlsker

14th Annual SIGMAA on RUME Conference, Portland, OR, February, 2011

Function Composition and the Chain Rule in Calculus

Aaron Wangberg, **Nicole Engelke**, & Gulden Karakok

14th Annual SIGMAA on RUME Conference, Portland, OR, February, 2011

Counting Problem Strategies of Preservice and Inservice Teachers

Todd CadwalladerOlsker, Scott Annin, **Nicole Engelke**

14th Annual SIGMAA on RUME Conference, Portland, OR, February, 2011

Instructional Perspectives on Combinations and Permutations

Todd CadwalladerOlsker, **Nicole Engelke**, and Scott Annin

Mathematical Content Session, Fifteenth Annual Conference of the Association of Mathematics Teacher Educators, Irvine, CA, January 28, 2011

Identifying the Reasoning Strategies Students Used When Solving Related Rates Problems

David Sousa (Undergraduate) & **Nicole Engelke**

32nd Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Columbus, OH, October 29, 2010

Counting Two Ways: The Art of Combinatorial Proof

Nicole Engelke & Todd CadwalladerOlsker

13th Annual SIGMAA on RUME Conference, Raleigh, NC, February 28, 2010

Twizzler Trig: What is the Sine Function

Nicole Engelke & Patrick Kimani

California Mathematics Council - South's 50th Annual Fall Conference, Palm Springs, CA, Nov. 7, 2009

Functional Approach to Rate Problems

Patrick Kimani & **Nicole Engelke**

California Mathematics Council - South's 50th Annual Fall Conference, Palm Springs, CA, Nov. 7, 2009

The Great Gorilla Jump: A Riemann Sum Investigation

Nicole Engelke & Vicki Sealey

12th Annual SIGMAA on RUME Conference, Raleigh, NC, February 27, 2009

Student Proof Scheme Development in an Introductory Proof Course

Todd CadwalladerOlsker & **Nicole Engelke**

Joint Mathematics Meetings, January 8, 2009

Developing Function Concepts: The Box Problem

Nicole Engelke & Todd CadwalladerOlsker

California Mathematics Council - South's 50th Annual Fall Conference, Palm Springs, CA, Nov. 7, 2008

Conditional Probability and the Graphing Calculator

Todd CadwalladerOlsker & **Nicole Engelke**

California Mathematics Council - South's 50th Annual Fall Conference, Palm Springs, CA, Nov. 7, 2008

Developing the Solution Process for Related Rates Problems Using Computer Simulations

Nicole Engelke

11th Annual SIGMAA on RUME Conference, San Diego, CA, Feb. 29, 2008

Using Computer Simulations to Facilitate Calculus Students' Understanding of Related Rates Problems

Nicole Engelke

Joint Mathematics Meetings, January 7, 2008

A Framework to Describe the Solution Process for Related Rates Problems in Calculus

Nicole Engelke

29th Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education, Lake Tahoe, NV, October 26, 2007

A Framework to Describe the Solution Process for Related Rates Problems

Nicole Engelke

10th Annual SIGMAA on RUME Conference, San Diego, CA, February 24, 2007

Teaching Innovations for Problems Involving Rates in Calculus

Nicole Engelke

28th Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education, Merida, Mexico, November 11, 2006

Improving Understanding of Rate of Change Using Computer Simulations

Nicole Engelke

California Mathematics Council - South's 47th Annual Fall Conference, Palm Springs, CA, Nov. 4, 2006

Teaching Innovations for Related Rates Problems in First Semester Calculus

Nicole Engelke

Ninth Annual SIGMAA on RUME Conference, Piscataway, NJ, February 26, 2006

Composition of Functions: Precalculus Students' Understandings

Nicole Engelke

27th Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education, Roanoke, VA, October 21, 2005

The Pre-calculus Concept Assessment Instrument: Students' Understanding of the Concept of Function

Nicole Engelke

Eighth Annual SIGMAA on RUME Conference, Scottsdale, AZ, February 27, 2005

Related Rates Problems: Identifying Conceptual Barriers

Nicole Engelke

26th Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education, Toronto, Ontario, Canada, October 22, 2004

Related Rates: The Difficulties Students Encounter

Nicole Engelke

Seventh Annual SIGMAA on RUME Conference, Scottsdale, AZ, October 26, 2003

Conferences Attended

35th Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA), Chicago, IL, November 2013

Southern California-Nevada Section Meeting of the Mathematical Association of America, Fullerton, CA, April 2012

Pacific Coast Undergraduate Mathematics Conference, March 2012

MNMATYC, Duluth, MN, April 2010

Joint Mathematics Meetings, San Francisco, CA, January 2010

Southern California-Nevada Section Meeting of the Mathematical Association of America, San Bernardino, CA, October 2009

MathFest, Portland, OR August 2009

12th Annual Legacy of R.L. Moore Conference, Austin, TX, July 2009

MathFest, Madison, WI, August 2008

Mathematics Education Research Group of Australasia (MERGA 31), Brisbane, Australia, 2008

Conference on the Role of Mathematics Education in Mathematics Departments, Tucson, AZ, 2003

Honors and Awards

CSUF Women's Basketball Team, Faculty Appreciation Award, February 2012

Project NExT Fellow, 2008 - 2009

Graduate and Professional Student Association Teaching Excellence Award, 2006

Outstanding Undergraduate in Mathematics, 1996

James Earl Scholarship (Math Department), 1996

Omaha World Herald Distinguished Scholarship (Full Tuition), University of Nebraska at Omaha, 1992-1996

Student Supervision

Ph.D. Dissertation Advisor

Renee LaRue [STEM Mountain of Excellence Scholarship- 2014, 2015 & Outstanding GTA award recipient - Spring 2014], expected graduation - May 2016

Ph.D. Dissertation Committee

Kristen Murphy

Brittany Vincent

Undergraduate Research

Morgan Chittum (WVU - 2015)

Nancy Garcia (CSUF - 2011 - 2012)

David Sousa (CSUF - 2010)

Courses Taught

West Virginia University

Math 791, Research in Undergraduate Math Education (RUME) III

Math 691, RUME II

Math 691, RUME I

Math 283, Strategies of Proof

Math 251, Calculus III, Emerging Scholars Program

Math 156, Calculus II, Emerging Scholars Program

Math 155, Calculus I, Emerging Scholars Program

Math 155, Calculus I, non-engineering

Cal State Fullerton

Math 582, Topics in Algebra

Math 471, Combinatorics

Math 302, Abstract Algebra

Math 280, Strategies of Proof

Math 150B, Calculus II

Math 150A, Calculus I

Math 303A, Fundamental Concepts of Elementary Mathematics

Math 303B, Fundamental Concepts of Elementary Mathematics

Professional Development and Service

Professional Service

Local Organizing Chair, Annual Conference of the Special Interest Group of the Mathematical Association of America on Research in Undergraduate Mathematics Education (SIGMAA on RUME), March 2014 - Present

Treasurer, Special Interest Group of the Mathematical Association of America on Research in Undergraduate Mathematics Education (SIGMAA on RUME), July 2009 - January 2015

Program Committee, Special Interest Group of the Mathematical Association of America on Research in Undergraduate Mathematics Education (SIGMAA on RUME), 2010 - Present

Nominating Committee, SIGMAA on RUME, 2011

Journal of Mathematical Behavior, Reviewer, 2011 - Present

Journal for Research in Mathematics Education, Reviewer, 2015

PRIMUS, Reviewer, 2015

International Journal of Mathematical Education in Science and Technology, Reviewer, 2011

NSF Panel Reviewer, September 2010

PMENA Reviewer, April 2010, April 2012

Organized Project NExT Panel Session for MathFest, Portland, OR, August 2009

Community Service

Writing and grading Team Power Questions (Grades 10-12) for RESA VII Regional Math Field Day, Spring 2015

Departmental Committees

WVU

Calculus Textbook Committee, Fall 2014 - Present

Assessment Committee, Fall 2013 - Present

Research Committee, Fall 2013 - Present

Library Committee, 2012 - Present

CSUF

CNSM Retention Committee, Department of Mathematics at CSUF, 2009-2012

Curriculum Committee, Department of Mathematics at CSUF, 2007-2012

Teacher Education Committee, Department of Mathematics at CSUF, 2006-2012

Advising Committee, Department of Mathematics at CSUF, 2007-2009

Ad Hoc Committee on Assessment, Department of Mathematics at CSUF, 2006-2008

Research Committee, Department of Mathematics at CSUF, 2006-2007

Workshops Attended

Career Technical Education Workshop, Spring 2011

Supplemental Instruction Supervisor Training Workshop, September 2008

Workshop on Using Classroom Voting Technology, Faculty Development Center at CSUF, 2007

Sequence of four courses pertaining to Research in Undergraduate Math Education, 2002-2004

Preparing Future Mathematics Faculty (PFMF), 2003-2004

Teaching Math with Technology Course, 2003

Teaching Assistant training at Arizona State University, 2001

Supplemental Instruction

WVU

Running SI program at WVU, Spring 2014 - Present

Recruiting Leaders

Planning and leading training workshop for student leaders

Weekly meetings with student leaders

Created Training Manual for student leaders

CSUF

Supplemental Instruction Supervisor Training Workshop, September 2008

Recruited Leaders, Spring 2009 - May 2012

Planned and led training workshop for student leaders each semester, January 2009 - May 2012

Created Training Manual for student leaders

Weekly meetings with student leaders

Visited CSULA to discuss implementation strategies

Professional Affiliations - Not all current

Special Interest Group of the Mathematical Association of America on Research in Undergraduate Mathematics Education

Mathematical Association of America

North American Chapter of the International Group for the Psychology of Mathematics Education

National Council of Teachers of Mathematics

International Society for Gesture Studies

Association of Mathematics Teacher Educators

California Mathematics Council

Phi Kappa Phi

Omicron Delta Kappa