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# Joe Champion

# Curriculum Vitae

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Mathematics Education  
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208-426-3497  
joechampion@boisestate.edu

Department of Mathematics  
Boise State University  
1910 University Dr  
Boise, ID 83725-1555

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## ◆ Education

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- Ph. D. in Educational Mathematics, University of Northern Colorado 2010  
Advisor: Robert Powers  
Dissertation: *The mathematics self-efficacy and calibration of students in a secondary mathematics teacher preparation program.*
- Doctoral Student in Mathematics, Oregon State University (4.0 GPA) 2003-2004  
Advisor: David Finch
- M.S. in Mathematics, University of North Dakota 2003  
Advisor: Joel Iiams  
Independent Study: *Conics in finite projective planes.*
- B.S. in Mathematics, University of North Dakota 2001  
Honors: Summa cum Laude, Phi Beta Kappa  
Minor: Chemistry
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## Current Position

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- Assistant Professor of Mathematics, Boise State University 2013 - present  
Tenure Track, Department of Mathematics  
Classes Taught:
- MATH 257, Geometry & Probability for Teachers
  - MATH 261, Statistics for the Classroom
  - MATH 401, Senior Thesis
  - MATH 497, Mathematics Education Seminar
  - MATHED 525, Teaching & Learning Calculus
  - MATHED 526, Teaching & Learning Statistics
  - MATH 546, Mathematical Modeling
  - MATHED 591, Project
  - MATHED 593, Thesis
  - ED-LLC 150/250, STEM Education Living & Learning Community
  - UF 100, Intellectual Foundations
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## ◆ Research Interests

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- Academic performance, persistence, and self-efficacy in mathematics and science
- Mathematical and statistical modeling with educational applications
- Design and development of mathematics education websites
- Mathematics teacher education

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## ◆ Professional Teaching Experience

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- Assistant Professor of Mathematics, Texas A&M University-Corpus Christi 2010 - 2013  
Tenure Track, Department of Mathematics & Statistics  
Classes Taught:
- SMTE 1350, Fundamentals of Math I
  - SMTE 1351, Fundamentals of Math II
  - SMTE 3352, Fundamentals of Mathematics III
  - MATH 2312, Precalculus
  - MATH 2413, Calculus I
  - MATH 2414, Calculus II
  - MATH 4385 / 5378, Applied Modeling / Math Modeling
  - MATH 5321, Problem Solving and Mathematical Reasoning for Teachers
  - MATH 5326, Structure of Patterns and Algebra
  - MATH 5329, Structure of Modeling with Rates of Change
  - MATH 5332, Integrating Technology in Mathematics Education
  - MATH 5393, Literature Review and Research [Master's Proposal]
  - MATH 5396, DIS: Mathematical Applications of Flash
  - MATH 5997, Directed Research [Master's Project]
- Graduate Teaching Assistant in Mathematics, Univ. of Northern Colorado 2006-2010  
Classes Taught:
- Calculus I
  - Calculus for Life Sciences
  - Calculus II
  - Discrete Mathematics
  - College Algebra
  - Fundamentals of Mathematics I: Numbers & Operations
  - Algebra in Middle Level Mathematics Teaching, co-instr.
  - Math Modeling in Middle Level Mathematics Teaching, co-instr.
- Senior Lecturer in Mathematics, University of North Dakota 2004-2006  
Classes Taught:
- Calculus I
  - Applied Calculus I
  - College Algebra
  - Pre-calculus
  - Intermediate Algebra
- Graduate Assistant in Mathematics, Oregon State University 2003-2004  
Classes Taught:
- College Algebra (recitation)
  - Differential Calculus
- Graduate Teaching Assistant in Mathematics, University of North Dakota 2001-2003  
Classes Taught:
- Applied Calculus I
  - College Algebra

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## ◆ Advising

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### Chaired Masters Theses and Projects

- Simpson, J. (2016). Intentional curriculum for high school survey of calculus with a focus on conceptual understanding. M.S. Mathematics Project
- Morris, T. (2016). Curriculum for a partially flipped calculus course. M.S. Mathematics Project.
- Classen Wilson, K. R. (2016). Engaging college students to become self-directed learners in mathematics. M.S. Mathematics Project (S. Wang, co-chair).
- Peterson, M. (2015). Creating a website for a blended learning Integrated Mathematics II course. M.S. Mathematics Project.
- Goralzyck, B. (2013). A Monte Carlo analysis of staffing at a mathematics tutoring center. M.S. Mathematics Thesis.
- Walbey, G. (2013). Enhancing juvenile corrections education through a curriculum unit on linear relationships. M.S. Mathematics Project.
- Salem, G. (2012). Improved assessment of U.S. students entering 9th grade mathematics at an international school. M.S. Mathematics Project.
- Mendoza, S. (2012). Deliberate practice for Algebra 1 with the TI-Nspire® calculator: Electronic supplemental resources. M.S. Mathematics Project.

### Committee Member for Doctoral Theses

- Smith, J., (2015). Transformative professional development in elementary science: Unraveling the complexities of knowledge, practice, and beliefs. Doctoral Ed.D. Dissertation.

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## ◆ Peer-Reviewed Publications

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### Journal Articles

- McCollough, C., Jeffery, T., Moore, K., Champion, J. (in press). Middle Grades STEM Instructional Reform in a School-University Partnership. *School-University Partnerships Journal*, [Accepted Aug 2016.]
- Wheeler, A., Champion, J. (2016). Stretching Probability Explorations with Geoboards. *Mathematics Teaching in the Middle School*, 9.
- Franco, J. A., Champion, J., Lyons, J. W. (2016). Arithmagons and Geometrically Invariant Multiplicative Integer Partitions. *Acta Mathematica Universitatis Comenianae*.
- Bruun, F., Champion, J., Ives, S. (2014). Professional Development for Mathematics Teachers. *Texas Mathematics Teacher*, 61(2), 18-20. [link](#)
- Champion, J., Wheeler, A. (2014). Revisit Pattern Blocks to Develop Rational Number Sense. *Mathematics Teaching in the Middle School*, 19(6). [link](#)
- Wheeler, A., Champion, J. (2013). Students' proofs of one-to-one and onto properties in introductory Abstract Algebra. *International Journal of Mathematical Education in Science and Technology*, 44(8)19. [link](#)

- Fitchett, S., King, K., & Champion, J. (2011). Outcomes of mathematics placement: An analysis of advising and enrollment data. *PRIMUS*, 21(7), 577-591. [link](#)
- Welder, R. M., Champion, J. (2011). Toward an understanding of graduate preservice elementary teachers as adult learners of mathematics. *Adults Learning Mathematics: An International Journal*, 6(1), 20-40. [link](#)
- Champion, J., Parker, F., Wheeler, A., Mendoza-Spencer, B. (2010). College algebra students' attitudes towards mathematics in their careers. In Fou-Lai Lin (Ed.), (pp. 18). *International Journal of Science and Mathematics Education*. [link](#)

## **Book Chapter**

- Cavey, L. O., Champion, J. (2016). "Learning Secondary Mathematics through Authentic Mathematical Modeling Tasks" (pp. 19). Peer-reviewed chapter in *Annual Perspectives in Mathematics Education*, Christian Hirsch, Ed. National Council of Teachers of Mathematics.

## **Conference Proceedings**

- Champion, J., & Mesa, V. (in press). Factors affecting calculus completion among U.S. high school students (in press). In Bressoud, D. (Ed.) *Summary Report of Workshop on The Role of Calculus in the Transition from High School to College Mathematics*, Washington, DC, March 17–19, 2016. MAA/NCTM. [Accepted Aug 2016.]
- Young, E., Champion, J., Ives, S., Tintera, G. D. (2012). Patterns of participation among secondary teachers in a Master of Science in Mathematics program. In Reeder, S. L. (Ed.), (pp. 135-143), *Proceedings of the 39th Annual Meeting of the Research Council on Mathematics Learning*. Charlotte, NC. [link](#)
- Champion, J. (2011). Self-efficacy, performance, and calibration in advanced mathematics. In Wiest, L. R., & Lamberg, T. (Ed.), (pp. 693-701), *Proceedings of the 33<sup>rd</sup> Annual Conference for the North American Chapter of the International Group for the Psychology of Mathematics Education*. Reno, NV. [link](#)
- King, K., & Champion, J. (2010). Using advising and enrollment data to inform a first-year math placement program. In M. Zandieh (Ed.), *Proceedings of the 13th conference on Research in Undergraduate Mathematics Education*. Raleigh, NC.
- Champion, J. (2009). Self-efficacy, calibration, and exam performance in College Algebra and Calculus I. In M. Zandieh (Ed.), *Proceedings of the 12th conference on Research in Undergraduate Mathematics Education*. Raleigh, NC.
- Powers, R., & Champion, J. (2008). Teaching and learning college algebra with the TI-Navigator wireless handheld network. In *Proceedings of the Twentieth International Conference on Technology in Collegiate Mathematics (ICTCM)*.

## **Manuscripts in Review**

- Bruun, F., Moore, K., Champion, J. Using the Reformed Teaching Observation Protocol (RTOP) for Novice Teachers. SSMA 2016 Convention Proceedings, Aug 2016.
- Huey, M., Champion, J., Casey, S., & Wasserman, N. Secondary Mathematics Teachers' Planned Strategies for Teaching Standard Deviation. *Statistics Education Research Journal*, Aug 2016.

Champion, J., Mesa, V. Pathways to Calculus in U.S. High Schools. *PRIMUS*, May 2016.

Wakefield, N., Champion, J., Bolkema, J., & Dailey, D. Diagnostic Effects of an Early Mastery Activity in College Algebra and Precalculus. *International Journal of Research in Undergraduate Mathematics Education*. Jan 2016.

Casey, S., & Wasserman, N., Champion, J., Huey, M. Unbiased Estimators: Exploring Teachers' Statistical Knowledge for Teaching. To be resubmitted to *Mathematical Thinking & Learning*, Jan 2016.

### Manuscripts in Development

Champion, J., Hayes, M., Viveros, C., Cavey, I. Invasions: Visualizing Mathematical Models for Spatial Spread of Invasive Species. Software Note to be submitted to *Ecography*, Spring 2017.

Champion, J., McCollough, C., Moore, K., Silliman, J., & Jeffery, T. Mathematics self-efficacy, interest, instruction, and performance among low-performing middle grades students. To be submitted to *Journal of Mathematical Behavior*, Summer 2017.

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### ◆ Other Works

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#### Websites/Software

AMTE.net. (Jan 2016). Complete redesign and redevelopment of the central website and software used by the Association of Mathematics Teacher Educators. Under the direction and approval of the AMTE Board of Directors.

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### ◆ Grants and Sponsored Research

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#### Externally Funded Projects

**total: \$2,246,375**

Carney, M. (PI) & Champion, J. (co-PI). *From Trail Mix to Data Mining: A Summer Institute on Secondary Data Analysis & Statistics*. Idaho State Department of Education #16-3558-1. **\$203,944**. (June 2016 – May 2017).

Champion, J. (PI). *Evaluating Mathematical Visualization and Modeling Approaches for use in Monitoring and Forecasting the Spread of Newly-Invasive Species*. US Geological Survey #G15AC00311. **\$40,000**. (July 2015 – June 2017).

Champion, J. (PI), & Carney, M. (co-PI). *Teacher Characteristics and Student Mathematics and Science Achievement in Idaho*. Idaho State Board of Education (federal flow-through). **\$9,884**. (Fall 2015 - April 2017).

Coskey, S. (PI), & Champion, J. (co-PI). *Boise Math Circle*. Mathematical Sciences Research Institute (federal flow-through). **\$2,000**. (Fall 2014 – Spring 2015).

Champion, J. (PI). Research and Development of Elementary Teachers Engaged in Authentic Math and Science (ETEAMS). Texas A&M University, subaward of National Science Foundation #1321319. **\$58,608**. (October 2014 – September 2016).

Silliman, J. (PI), Hill, D. (co-PI), Champion, J. (co-PI), McCollough, C. (co-PI), & Wright, P. (co-PI), Elementary Teachers Engaged in Authentic Math and Science (ETEAMS). National Science Foundation (Award #1321319). **\$1,497,936** (includes above subaward). (October 2013 – September 2017).

Champion, J. (PI). *Development of an NSF Math Science Partnership Proposal for Supporting Early-Career Teachers in Integrated STEM Instruction*. Sponsored by National Association of Math Circles (MSRI), **\$2,000**. (Fall 2012 – Spring 2013).

Champion, J. (PI). *Development of an NSF Math Science Partnership Proposal for Supporting Early-Career Teachers in Integrated STEM Instruction*. Sponsored by Texas Research Development Fund, **\$1,500**. (October 2013 - December 2013).

Tintera, G. D. (PI), Champion, J. (co-PI). *South Texas Partnership for Algebra Transition (STPAT) Continuation, Secondary Mathematics Teacher Support Grant*. Sponsored by Texas Education Agency, **\$78,416**. (September 2012 - August 2013).

Ives, S. (PI), Champion, J. (Co-PI), Young, Elaine (Co-PI). TAMUCC TQ-2012 Secondary Mathematics. Sponsored by Texas Higher Education Coordinating Board, **\$226,798**. (May 1, 2012 - May 31, 2013).

Tintera, G. D. (PI), Champion, J. (co-PI), & Ives, S. (Co-PI). *South Texas Partnership for Algebra Transitions (STPAT)*. Sponsored by Texas Education Agency, **\$177,534**. (June 2011 - June 2012).

Champion, J. (PI). *Performance and Persistence of Math Majors*. Sponsored by Texas Research and Development Fund, **\$5,363**. (December 2010 - August 2011).

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## Related Experience

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Statistical Consultant	2016
Analyst and author, <i>Technical Report on 2014-2015 Idaho Standards Achievement Tests (ISAT) &amp; Professional Development Data</i> . Commissioned by the Idaho State Department of Education, Contract ID 16-3557.	
Workshop Instructor	2015
<i>Supporting Teachers' and Administrators' Professional Noticing of Students' Mathematical and Scientific Thinking</i> . Funded State Agency Higher Education (SAHE) Partnership Grant, Idaho State Board of Higher Education. Amador, J. (PI).	
Educational Materials Consultant	2015
Assembly of materials for "Tech Connect" section for <i>Helping Children Learn Mathematics</i> (11 <sup>th</sup> ed.), with E. Krupa.	
Instructor, Secondary Mathematics Certification Workshop	2012
Sponsored by the Sid W. Richardson Foundation	
Graduate Research Assistant	2009
Mathematics Teacher Leadership Center (NSF-funded)	
Online Course Developer, Mayville State University, Mayville, North Dakota	2009
Designed and implemented online course shell for Calculus I on Moodle	
Summer Graduate Research Assistant, University of Northern Colorado	2007-2008
Under direction of R. Powers, S. Fitchett, and A. Dzhamay	

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**◆ Selected Presentations**

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**National & International Presentations**

- Grades 4-8 Students' Reported STEM Interest, Self-Efficacy, and Instruction  
Research Report, with K. Moore April, 2016  
2016 NCTM Research Conference, San Francisco, CA
- Factors Affecting Calculus Completion among U.S. High School Students  
Research Report, with V. Mesa March, 2016  
"Role of Calculus in the Transition from High School  
to College Mathematics", Workshop sponsored by MAA, Washington, DC
- A Modification of Team-Based Learning Applied to Introductory Statistics  
Research Poster, with K. Johnson May, 2015  
2015 United States Conference on Teaching Statistics, State College, PA
- Exploring the Role of the Mathematical Horizon for Secondary Teachers  
Research Symposium with Wasserman, N., McCallum, W., April, 2015  
Weber, K., Casey, S., Waid, B.E., & Sanfratello, A.  
2015 NCTM Research Conference, Boston, MA
- STEM Interest, Self-Efficacy, and Achievement among Middle Levels Students  
Research Poster April, 2015  
2015 NCTM Research Conference, Boston, MA
- Exploring the Impact of Advanced Mathematics on Secondary Teaching Practices  
Research Symposium with Wasserman, N., Casey, S., February, 2015  
Huey, M., Sanfratello, A., & Waid, B. E.  
19<sup>th</sup> Annual Conf. of AMTE, Orlando, FL
- A Prototype Partnership to Prepare Elementary Teachers for Grades 4-8 STEM Instruction  
Research Presentation February, 2015  
19<sup>th</sup> Annual Conf. of AMTE, Orlando, FL
- Website Development for Mathematics Teachers  
Professional Resources Workshop (invited) December, 2014  
American Institute of Mathematics, Palo Alto, CA
- Design and Development of Collaborative Mathematics Education Websites  
Research Presentation February, 2014  
18<sup>th</sup> Annual Conf. of AMTE, Irvine, CA
- Struggling with Confidence: Academic Persistence among Secondary Mathematics Majors  
Research Presentation with A. Wheeler February, 2012  
16<sup>th</sup> Annual Conf. of AMTE, Fort Worth, TX
- Secondary Mathematics Teachers as Non-Traditional Graduate Mathematics Students  
Research Presentation with E. Young & S. Ives February, 2012  
16<sup>th</sup> Annual Conf. of AMTE, Fort Worth, TX

Self-efficacy, Performance, and Calibration in Advanced Mathematics  
 Research Presentation October, 2011  
 33rd Annual Conference of PME-NA, Reno, NV

Developing a Practice-Based Technology Course for Inservice Mathematics Teachers  
 Research Presentation March, 2011  
 23rd Annual International Conf. on Technology in Collegiate Math., Denver, CO

Supporting the Mathematical Development of Graduate Pre-service Elementary Teachers  
 Research presentation, with R. M. Welder January, 2011  
 15<sup>th</sup> Annual Association of Mathematics Teacher Educators Conf., Irvine, CA

Teaching and Learning College Algebra with the TI-Navigator Wireless Handheld Network  
 Research presentation, with R. Powers March, 2008  
 Intern. Conf. on Technology in Collegiate Mathematics, San Antonio, TX

Using the TI-Navigator Network of Graphing Calculators in College Algebra  
 Research presentation, with B. Mendoza-Spencer & R. Powers January, 2008  
 Joint Meeting of the AMS and MAA, San Diego, CA

### **State & Regional Presentations**

#### Number Talks in High School

Practitioner Workshop with Libberton, J. December, 2015  
 Regional Academy of Mathematics and Science Education, Post Falls, ID

The Shoebox: The Time Geometry Helped Save Two Accused Felons  
 Practitioner Presentation June, 2015  
 Statewide Summer Academy on Mathematics Education  
 Idaho Regional Mathematics Centers, Boise, ID

Using Probability to Help Students Build Self-Efficacy in Mathematics  
 Practitioner Presentation October, 2014  
 Fall 2014 State Conference, Idaho Council of Teachers of Math., Boise, ID

Tasks to Build Algebraic Reasoning  
 Board Meeting Presentation (invited) March, 2014  
 Idaho Council of Teachers of Math., Meridian, ID

Arithmagons, Problem Solving, and Algebraic Reasoning  
 Practitioner Presentation October, 2013  
 Fall 2013 State Conference, Idaho Council of Teachers of Math., Pocatello, ID

Embedding Dynamic Content on a Mathematics Website  
 Practitioner Presentation April, 2011  
 91st Annual Meeting of the Texas Section of the MAA, Tyler, TX

From Hot Dog Sales to Chaos in a Fish Population: Modeling Data in Middle School  
 Research presentation, with H. Soto-Johnson, A. Porter, & M. Spieker October, 2010  
 NCTM Regional Conf., National Council of Teachers of Mathematics, Denver, CO

Undergraduate Ecology Laboratory



- Research presentation, with M. Hayes, E. Snode, K. King, and C. Haley  
MAA Rocky Mountain Section Meeting, Colorado State University April, 2010
- Modeling Marital Interaction with Coupled Difference Equations  
Research presentation, with N. Wakefield April, 2008  
MAA Rocky Mountain Section Meeting, Black Hills State University
- The Inverse of the Open Box Problem  
Research presentation April, 2007  
MAA Rocky Mountain Section Meeting, CSU- Pueblo
- A North Dakota Population Activity  
Professional development workshop April, 2005  
Annual Meeting of the NDCTM, Jamestown, ND
- Local Presentations**
- Factors Affecting High School Calculus Completion Rates  
Colloquium Research Presentation April, 2016  
Department of Mathematics, Boise State University, Boise, ID
- Integral Arithmagons  
Seminar Research Presentation April, 2016  
Department of Mathematics, Boise State University, Boise, ID
- Toolkits for Projects in College Math  
*Teaching Talk* Seminar (invited) December, 2014  
Department of Mathematics, Boise State University, Boise, ID
- Designing Exams in an Open Resources Connected Classroom  
2014 Mobile Learning Institute (invited) May, 2014  
Academic Technologies, Boise State University, Boise, ID
- Elementary Teachers Engaged in Authentic Math and Science (ETEAMS)  
Research Poster Presentation January, 2014  
Great Ideas in STEM Education Research, Boise State University, Boise, ID
- Toothpick Structures  
Interactive Presentations for 250 Second Graders with S. Ives December, 2012  
Early Scholars Academy, Corpus Christi, TX
- Problem Solving with Pattern Blocks  
Practitioner Presentation June, 2012  
ME by the SEa 2012, Coastal Council of Teachers of Math., Corpus Christi, TX
- How Computational Search Can Stir Curiosity in Math and Science  
Practitioner Presentation June, 2011  
ME by the SEa 2011, Coastal Council of Teachers of Math., Corpus Christi, TX
- Ten Spreadsheet Tricks for College Teachers  
Professional development workshop October, 2009

CETL, University of Northern Colorado

College Algebra Students' Accuracy in Predicting their Exam Performance

Research presentation

April, 2008

UNC Research Day, University of Northern Colorado

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## **Mentoring & Professional Development**

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Course Design Institute Center for Teaching and Learning, Boise State	2016
mLearning Scholars 1.0 2013-2014 Cohort iPads in Math 261, Academic Technology, Boise State	2013
Faculty Connections Interdisciplinary Mentoring Program with Michelle Sabick (Mentor), Mechanical & Biomedical Engineering, Boise State	2013
Technical Assistance Workshop for Minority-Serving Institutions & K-12 Partners National Science Foundation's Math and Science Partnership Program	2012
Community of Practice in Course Redesign Center for Faculty Excellence, Texas A&M University - Corpus Christi.	2012
Service, Teaching and Research (STaR) for Early Career Mathematics Educators Park City Mathematics Institute, Park City, UT.	2012

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## **◆ Service**

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### **Review Activities**

Journal Reviewer, <i>Int. J. of Mathematical Education in Science &amp; Technology</i>	2014-present
Journal Reviewer, <i>Mathematics Teacher</i> (NCTM)	2010-present
Reviewer, Research in Undergraduate Math. Education, Session Proposals	2010 - 2012
Reviewer, Research Council on Mathematics Learning, Session Proposals	2010 - 2012

### **Service to Department**

Graduate Mathematics Education Coordinator, Boise State	2016 - present
Member, Outcomes Assessment Committee, Boise State	2014 - present
General Mathematics Education Coordinator, Boise State	2014 - 2016
Member, IDoTeach Steering Committee, Boise State	2014 - 2015
Member, Department Concurrent Enrollment Committee, Boise State	2013 - present
Department Website Coordinator, Mathematics & Statistics, TAMUCC	2011 - 2013
Member, Graduate Mathematics Admissions Committee, TAMUCC	2011 - 2013

Departmental Library Liaison, Mathematics & Statistics, TAMUCC	2010 - 2013
Graduate Mathematics Student Representative, University of Northern Colorado Mathematical Sciences Ph.D. Committee (Student Member) Search committee for a tenure-track mathematics education position (Member)	2008 - 2009
Mathematics Student Teacher Supervisor, University of Northern Colorado University Supervisor for 2 secondary mathematics student-teachers	2007
High School Mathematics Competitions UNC Math Contest (graded student work) Forks Area Math Track Meet (wrote individual tests for Grades 9-10)	2007 2004 - 2005
Mathematics Tutor, University of Northern Colorado Tutoring undergraduates in the Math Lab (1 hour/week)	2006 - 2007

### **Service to College & University**

Member, Liberal Arts Think Tank, COAS, Boise State	2016
Faculty in Residence, STEM-Education Living Learning Community, Boise State	2015-present
Website Coordinator, IDoTeach Program, Boise State	2014 - present
Department Representative, Faculty Advocates for STEM Transformation	2014 - 2015
Member, Ad Hoc Committee on Preparation of Math Teachers from COEN	2013 - 2014
College Representative, Faculty Core Curriculum Committee, TAMUCC	2011-2013

### **Service to Profession**

Website Director, Board of Directors, Assoc. of Math. Teacher Educators	2013 - present
Member, STaR Networking Committee, Assoc. of Math. Teacher Educators	2012 - 2013
Vice President for Secondary Math., Coastal Council of Teachers of Math.	2011 - 2013
Design and Development of Websites STaRfellows.com, DoMathTogether.org, MathTLC.org, Las Chicas de Matemáticas Math Camp, School of Math. Sciences at U. Northern Colorado	2007 - present

### **Service to Community**

Co-founder & co-director, with S. Coskey, Boise Math Circles, Boise, ID	2014 - present
Faculty partner, Service Learning Partnerships for Math 261, Boise State	2013 - present
Founder & faculty coordinator, Islander Math Circles (teen outreach program)	2012 - 2013

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### **◆ Recognition**

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Student Recognition Award for Teaching Excellence, Texas A&M System	Spring 2012
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\$2500, based on student evaluations, limited to top 25% of 1000+ participating faculty	
Student Recognition Award for Teaching Excellence, Texas A&M System	Fall 2011
\$2500, based on student evaluations, limited to top 25% of 1000+ participating faculty	
Student Recognition Award for Teaching Excellence, Texas A&M System	Spring 2011
\$2500, based on student evaluations, limited to top 25% of 1000+ participating faculty	
Dean's Citation for Excellence	
Limited to 3% of graduate class, University of Northern Colorado	2010
Graduate Student Speaker, Fifth Annual NHS Student Research Celebration	
University of Northern Colorado	2010
First Annual Award for Outstanding Teaching by a Graduate Student	
School of Mathematical Sciences, University of Northern Colorado	2009
Certificate of Appreciation for Teaching	
First Year Scholars Recognition Reception, University of Northern Colorado	2008
Faculty Star Award	
Annual Presidential Scholars Meeting, University of North Dakota	2006

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### ◆ Professional Memberships

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National Council of Teachers of Mathematics	2007 - present
Mathematical Association of America	2007 - present
Association of Mathematics Teacher Educators	2010 - present
Idaho Council of Teachers of Mathematics	2013 - present
TODOS: Mathematics for ALL	2013 - present
Coastal Council of Teachers of Mathematics	2010 - 2014
Texas Council of Teachers of Mathematics	2010 - 2014
International Group for the Psychology of Mathematics Education (PME-NA)	2011 - 2012
American Educational Research Association	2010 - 2011

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### ◆ Professional Skills

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#### Web Design and Development

Advanced in HTML, CSS, WordPress, Drupal, PHP, CiviCRM, MySQL, Adobe CS, JavaScript, jQuery, batch file-processing, Bootstrap

#### Mathematics & Statistics

Advanced in R, Mathematica, LaTeX, MuPAD  
Proficient in MATLAB, Maple, SAS, SPSS

#### Teaching and Learning

Advanced in Microsoft Office, GeoGebra, TI programmable calculators, Blackboard, TI Navigator, ActionScript, SMART Notebook, WeBWork