

## **Elaine Allen Tuft**

## **Curriculum Vitae**

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School of Education  
Utah Valley University  
800 West University Parkway/ MS 126  
Orem, UT 84058-5999

(801) 863-8104  
elaine.tuft@uvu.edu

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### **EDUCATION**

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#### **Michigan State University**

**Ph.D., 2005**

Curriculum, Teaching, and Educational Policy

Major Emphasis: Mathematics Education

Minor Emphases: Research Methodology, Learning Theories

Dissertation Title: *What Is Mathematics?: Stability and Change in the Conceptions of and Attitudes toward Mathematics and Teaching Mathematics of Prospective Elementary School Teachers*

#### **Utah State University**

**M.A., 1991**

Elementary Education

Emphases: Mathematics Education, Education of the Gifted and Talented

Thesis Title: *The Effects of a Video-based Inservice Workshop for Middle School Mathematics Teachers*

#### **Utah State University**

**B.S., 1983**

Elementary Education and Early Childhood Education

Minor: Mathematics/Science

*magna cum laude*

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### **PROFESSIONAL LICENSING**

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Earned Professional Educator License – State of Utah – Level 3

Earned the following State of Utah Educator License Endorsements:

Early Childhood Education

Gifted and Talented Education

Mathematics Education - Level 2

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### **PROFESSIONAL POSITIONS**

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#### **Utah Valley University**

Chair, Department of Elementary Education (2017-present)

Associate Professor (2012–present)

Assistant Professor (2006–2012)

#### **Brigham Young University**

Visiting Assistant Professor (2004–2006)

#### **Utah State University**

Adjunct Professor (1998–2003)

#### **Granite School District**

5<sup>th</sup> Grade Classroom Teacher (1987–1989)

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**PROFESSIONAL POSITIONS, Continued**

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**Salt Lake City School District**5<sup>th</sup> Grade Classroom Teacher (1986–1987)

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**OTHER PROFESSIONAL EXPERIENCE**

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**Utah State University**

Student Teacher Supervisor (1998)

(Elementary student teachers)

**Michigan State University**

Field Instructor (1996–1997)

(Secondary Mathematics and Science)

Evaluation Assistant (1995–1996)

(Assisted with the evaluation for the *Connected Mathematics Project*)

Mathematics Teaching Consultant (1995)

(Helped interns in several schools plan mathematics lessons)

Field Instructor (1995–1996)

(Elementary interns)

Graduate Assistant for Michigan Partnership for New Education (1992–1995)

(Assisted with *Frameworks* Resource Library updates and annotations, Workshops and workshop leaders' manuals, *Michigan Gateways* and TIMS programming, and made regular contributions to *Gateways Guide*.)

Mathematics Specialist (1993–1994)

(Worked with teachers at Kendon Professional Development School, Lansing, MI)

Field Instructor (1992–1993)

(Supervised 21 student teachers in elementary, middle school, high school, and special education classrooms)

**Utah State University**

Research Assistant (1990–1992)

(Full-time position, assisted with the national evaluation of Jostens Learning Corporation's Basic Learning System [CAL] as budget manager, also assisted with the development of measurement instruments, data coding and analysis, report preparation and writing [including all graphics], assisted with presentations to the JLC Board and Advisory Panel in San Diego and Salt Lake City, and on-site evaluation team member for evaluations in 13 elementary schools in Salt Lake City, Dallas, Tampa, Phoenix, Boston, and Los Angeles)

Workshop Assistant (1990)

(Assisted in training of international graduate teaching assistants)

Research Assistant (1990)

(Assisted in scoring and analysis of a study of teacher self-supervision using video tapes)

Student Teacher Supervisor (1989–1990)

(Supervised 27 interns and student teachers)

Research Assistant (1989–1990)

(Assisted in interviewing, scoring, coding, and synthesis of a study of learning social studies through literature)

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**OTHER PROFESSIONAL EXPERIENCE, Continued**

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**Utah State University, Continued**

Project Assistant (1989–1990)

(Assisted in the evaluation of Utah Productivity studies project as an interviewer and on-site evaluation team member)

Mathematics Tutor and Statistics Tutor (3 years)

(Tutored for Student Services, Athletic Department, and Department of Psychology)

**Box Elder School District**

Adult Education Teacher (1990)

(Taught high school completion and GED preparation courses)

Community Education Teacher (1990)

(Spanish Instructor)

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**TEACHING**

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**UNIVERSITY COURSES TAUGHT**

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**Utah Valley University**

EDEL 4510 (Clinical) • *Elementary Mathematics Methods I* (2 sections, 2016–present)

EDUC 6110 • *Applied Statistics for Education* (10 sections, 2009–present)

EDEL 4550 • *Elementary Mathematics Methods II* (33 sections, 2012–present)

EDEL 4510 • *Elementary Mathematics Methods I* (50 sections, 2006–present)

EDEL 4520 • *Elementary Science Methods* (16 sections, 2007–2011)

EDEL 3350 • *Curriculum Design and Assessment* (3 sections, 2009–2010)

**Brigham Young University**

ELED 361/362 • *Teaching Mathematics in the Elementary School* (15 sections, 2004–2006)

**Utah State University**

ELED 4060 • *Teaching Elementary School Mathematics* (8 sections, 1998–2003)

ELED 4630/6630 • *Middle School Mathematics Methods* (2 sections, 2002–2003)

ELED 5150 • *Student Teaching Seminar—Elementary* (1 section, 1998)

ELED 6750 • *Improvement of Mathematics Instruction* (1 section, 1991)

**Michigan State University**

TE/CEP 150 • *Reflections on Learning* (2 sections, 1996–1997)

TE 804 • *Reflection and Inquiry in Teaching Practice* (2 sections, 1995–1996)

TE 401 • *Teaching Mathematics to Diverse Learners* (3 sections, 1993–1995)

TE 501 • *Guided Practice Seminar* (3 sections, 1992–1996)

TE 502 • *Guided Practice Seminar* (3 sections, 1993–1997)

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**OTHER TEACHING**

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**Utah Valley University Community and Continuing Education**

Elementary Praxis Prep—Mathematics (5 courses, Spring 2016, Summer 2016, Fall 2016, Spring 2017, Summer 2017)

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## SCHOLARSHIP

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### SCHOLARLY PAPERS

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#### Refereed Publications

- Tuft, E. A. & Bachler, M. (2017). Effects of a Summer Program for Underserved Elementary Children on Mathematics Learning. In J.J. Mohr-Schroeder & J.N. Thomas (Eds.), *Proceedings of the 115<sup>th</sup> annual convention of the School Science and Mathematics Association* (Vol. 3). Phoenix, AZ: SSMA.
- Tuft, E. A. & Bachler, M. (2016). Mathematics learning and retention through a summer program for underserved elementary children. *Educational Research: Theory & Practice. Proceedings of the 34<sup>th</sup> Annual Meeting of the Northern Rocky Mountain Educational Research Association*. x, x-x.
- Tuft, E. A., Jayaseelan, J., Ahlman, J., & Ilieva, V. (2016). Improving elementary students' and preservice elementary teachers' attitudes and knowledge related to STEM subjects through an enrichment robotics program. *Utah Mathematics Teacher*. 9, 11-18.
- Sharp, A. C., Brandt, L., Tuft, E. A., & Jay, S. (2016). Relationship of self-efficacy and teacher knowledge for prospective elementary education teachers. *Universal Journal of Education*. 4(10), 2432-2439.
- Tuft, E. A. (2015). Increasing prospective teachers' and elementary students' STEM knowledge through an enrichment robotics program. *The Researcher*. 27(2), 49-53.
- Tuft, E. A. & Harward, S. V. (2012). *Assessing the amount of instructional time devoted to teaching mathematics in elementary schools*. Proceedings of the Hawaii International Conference on Education, Honolulu, HI, 2012, 2995-3005.
- Simmerman, S., Pierce, L. E., Patch, M., & Tuft, E. (2010). Annual accreditation report to the teacher education accreditation council (TEAC). Orem, UT: School of Education, Utah Valley University.
- Tuft, E. A. (2006). *Constancy and change in prospective teachers' conceptions of and attitudes toward mathematics*. Proceedings of the Psychology of Mathematics Education – North America Annual Conference, Mérida, Mexico.

#### Non-Refereed Publications

- Gardner, D. S., Kuddus, R. H., & Tuft, E. A. (2015). *Tenure criteria review: Utah valley university*. Report to the Faculty Senate and Office of Academic Affairs. Orem, UT: Utah Valley University.
- Michigan Partnership for New Education. (1992-1995). *Gateways Guide*. Monthly newsletter for PBS television program, Michigan Gateways. Author: East Lansing, MI (I was a regular contributor to this newsletter.)

#### Instructional Projects

- Tuft, E. A. (2005). *What is mathematics?: Stability and change in prospective teachers' conceptions of and attitudes toward mathematics and teaching mathematics*. Unpublished doctoral dissertation, Michigan State University.
- Allen, E. (1991). The effects of a video-based inservice workshop for middle school mathematics teachers. Unpublished masters' thesis, Utah State University.

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**REFEREED PRESENTATIONS**

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- Gearing, N. & Tuft, E. A. (2019, March). *Integrating data analysis across the elementary curriculum*. Presentation at the annual conference of the International Consortium for Research in Science and Mathematics Education, San Jose, Costa Rica.
- Fiso, C., Tuft, E. A., & Sowder M. (2018, October). *The effects of math challenges—Homework that provides opportunity for student explanation*. Presentation at the annual conference of the Northern Rocky Mountain Educational Research Association, Salt Lake City, UT.
- Tuft, E. A. (2017, October). *Involving preservice elementary school teachers in family math nights*. Presentation at the annual conference of the School Science and Mathematics Association, Lexington, KY.
- Tuft, E. A. & Bachler, M. (2016, October). *Effects of a summer program for underserved elementary children on mathematics learning*. Presentation at the annual conference of the School Science and Mathematics Association, Phoenix, AZ.
- Tuft, E. A. & Bachler, M. (2016, October). *Mathematics learning and retention through a summer program for underserved elementary children*. Presentation at the annual conference of the Northern Rocky Mountain Educational Research Association, Reno, NV.
- Tuft, E. A. (2015, November). *Enjoyment and understanding with basic addition and subtraction*. Presentation at the annual conference of the Utah Council of Teachers of Mathematics, Lehi, UT.
- Tuft, E. A. (2015, October). *Helping elementary students understand and become fluent with basic addition and subtraction*. Presentation at the annual conference of the School Science and Mathematics Association, Oklahoma City, OK.
- Sharp, A. C., Brandt, L., Tuft, E. A., & Jay, S. (2015, October). *The relationship of knowledge and self-efficacy related to literacy instruction for preservice teachers*. Presentation at the annual conference of the Northern Rocky Mountain Educational Research Association, Boise, ID.
- Ilieva, V. & Tuft, E. A. (2015, March). *Engaging future education professionals in learning and teaching STEM through robotics in elementary schools*. Presentation at the annual Education Week conference at Utah Valley University, Orem, UT.
- Ilieva, V. & Tuft, E. A. (2015, March). *STEM partnership for 21<sup>st</sup> century teaching and learning*. Presentation at the annual conference of the Utah Academy of Sciences, Arts, and Letters, Ephraim, UT.
- Tuft, E. A. (2014, November). *Teaching and learning STEM subjects through a robotics program for elementary students*. Presentation at the annual conference of the School Science and Mathematics Association, Jacksonville, FL.
- Sharp, A. C., Brandt, L., Tuft, E. A., & Jay, S. (2014, October). *The relationship of teacher knowledge on self-efficacy for preservice teachers*. Presentation at the annual conference of the Association of Literacy Educators and Researchers, DelRay Beach, FL. (Did not attend, but helped significantly with research and presentation creation)
- Tuft, E. A. (2014, October). *Increasing prospective teachers' and elementary students' STEM knowledge through an enrichment robotics program*. Presentation at the annual conference of the Northern Rocky Mountain Educational Research Association, Rapid City, SD.

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**REFEREED PRESENTATIONS, Continued**

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- Tuft, E. A. & Ilieva, V. (2014, February). *Creating and evaluating the effectiveness of a two-course sequence of elementary mathematics methods*. Presentation at the annual conference of the Association of Mathematics Teacher Educators, Irvine, CA.
- Tuft, E. A. (2013, November). *Teaching the CCSS-M numbers and operations—fractions domain (Grades 3-5)*. Presentation at the annual conference of the School Science and Mathematics Association, San Antonio, TX.
- Tuft, E. A. (2013, November). *Problems that help children learn to reason mathematically*. Presentation at the annual conference of the Utah Council of Teachers of Mathematics, Salt Lake City, UT.
- Tuft, E. A. & Ilieva, V. (2013, October). *The effect of a two-course sequence of elementary mathematics methods on attitudes and beliefs*. Presentation at the annual conference of the Northern Rocky Mountain Educational Research Association, Jackson, WY.
- Tuft, E. A. (2013, April). *How do you know? Teaching children to reason mathematically*. Presentation at the annual conference of the National Council of Teachers of Mathematics, Denver, CO.
- Tuft, E. A. (2012, November). *Finding and creating worthwhile mathematical tasks*. Presentation at the annual conference of the School Science and Mathematics Association, Birmingham, AL.
- Tuft, E. A. (2012, October). *Frabjous fractions: Activities to help students understand fractions*. Presentation at the annual meeting of the Utah Council of Teachers of Mathematics, American Fork, UT.
- Tuft, E. A. & Harward, S. V. (2012, January). *Assessing the amount of instructional time devoted to teaching mathematics in elementary schools*. Paper presented at the annual meeting of the Hawaii International Conference on Education, Honolulu, HI.
- Tuft, E. A. (2011, November). *Are you asking good questions?*. Presentation at the annual meeting of the Utah Council of Teachers of Mathematics, Magna, UT.
- Tuft, E. A. (2010, November). *Integrating math with art*. Presentation at the annual meeting of the Utah Council of Teachers of Mathematics, Bountiful, UT.
- Sowder, M. K. & Tuft, E. A. (2010, November). *Introducing the use of science notebooks to preservice elementary teachers*. Paper presented at the annual meeting of the School Science and Mathematics Association, Ft. Myers, FL.
- Tuft, E. A. (2010, October). *How much time are we really spending in elementary mathematics instruction, and how is that time spent?*. Paper presented at the annual meeting of the Northern Rocky Mountain Educational Research Association, Big Sky, MT.
- Tuft, E. A. (2010, April). *Quilts, topology, origami, tessellations, and more: Connecting mathematics with art*. Presentation at the annual meeting of the National Council of Teachers of Mathematics, San Diego, CA.
- Tuft, E. A. & Sowder, M. K.. (2010, April). *Introducing the use of science notebooks for teaching elementary science: Pre-service teachers' responses*. Paper presented at the Scholarship of Teaching and Engagement Conference. Utah Valley University, Orem, UT.
- Sowder, M. K. & Tuft, E. A. (2009, October). *Rolling with force and motion: Investigations in math and science*. Presentation at the annual meeting of the School Science and Mathematics Association, Reno, NV.

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**REFEREED PRESENTATIONS, Continued**

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- Sowder, M. K. & Tuft, E. A. (2009, October). *Introducing the use of science notebooks for teaching elementary science: Pre-service teachers' responses*. Paper presented at the annual meeting of the Northern Rocky Mountain Educational Research Association, Jackson, WY.
- Tuft, E. A. (2008, October). *Can Using Robots in the elementary classroom influence students' interest and competence in mathematics and science?*. Paper presented at the annual meeting of the Northern Rocky Mountain Educational Research Association, Lake Tahoe, NV.
- Tuft, E. A. (2008, April). *What are the chances?: Teaching data analysis and probability to elementary students*, Presentation at the annual meeting of the National Council of Teachers of Mathematics, Salt Lake City, UT.
- Tuft, E. A. (2008, April). *How does positioning affect prospective elementary school teachers' attitudes toward and conceptions of mathematics?*, Presentation at the annual meeting of the Utah Association of Teacher Educators, Salt Lake City, UT.
- Tuft, E. A. (2007, October). *Does positioning influence conceptions of and attitudes toward mathematics?*. Paper presented at the annual meeting of the Northern Rocky Mountain Educational Research Association, Jackson, WY.
- Tuft, E. A. (2007, March). *Making sense of mathematics through multiple representations*. Paper presented at the annual meeting of the National Council of Teachers of Mathematics, Atlanta, GA.
- Tuft, E. A. (2007, February). *Using calculators in the lower grades*. Presentation at the annual meeting of Utah Consortium for Mathematics Educational Enhancement, Salt Lake City, UT.
- Tuft, E. A. (2007, February). *Asking good questions (K-2)*. Presentation at the annual meeting of Utah Consortium for Mathematics Educational Enhancement, Salt Lake City, UT.
- Tuft, E. A. (2006, November). *Constancy and change in prospective teachers' conceptions of and attitudes toward mathematics*. Paper presented at the annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Mérida, Mexico.
- Tuft, E. A. (2006, March). *Asking good questions (K-2)*. Presentation at the annual meeting of Utah Consortium for Mathematics Educational Enhancement, Salt Lake City, UT.
- Tuft, E. A. (2006, March). *Using children's literature to teach mathematics*. Presentation at the annual meeting of Utah Consortium for Mathematics Educational Enhancement, Salt Lake City, UT.
- Tuft, E. A. (2006, March). *Asking Good Questions (3-6)*. Presentation at the annual meeting of Utah Consortium for Mathematics Educational Enhancement, Salt Lake City, UT.
- Tuft, E. A. (2005, October). *A framework for analyzing conceptions of mathematics and teaching mathematics*. Paper presented at the annual meeting of the Northern Rocky Mountain Educational Research Association, Jackson, WY.
- Tuft, E. A., & Ridlon, C. (2005, October). *There's hope: We aligned courses and lived to tell about it*. Paper presented at the annual meeting of the Northern Rocky Mountain Educational Research Association, Jackson, WY.

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**REFEREED PRESENTATIONS, Continued**

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- Ridlon, C., & Tuft, E. A. (2005, April). *The collaborative process of aligning course objectives, assignments, and assessment with institutional and national standards*. Paper presented at the annual meeting of the Utah Association of Teacher Educators, Provo, UT.
- Tuft, E. A. (2005, April). *Writing in mathematics (K-2)*. Presentation at the annual meeting of Utah Consortium for Mathematics Educational Enhancement, Salt Lake City, UT.
- Tuft, E. A. (2005, April). *Integrating art with mathematics*. Presentation at the annual meeting of Utah Consortium for Mathematics Educational Enhancement, Salt Lake City, UT.
- Tuft, E. A. (2005, April). *Writing in mathematics (3-6)*. Presentation at the annual meeting of Utah Consortium for Mathematics Educational Enhancement, Salt Lake City, UT.
- Alford, L., & Tuft, E. A. (1994, April). *Michigan Gateways*. Poster session presented at the annual meeting of the National Council of Supervisors of Mathematics, Indianapolis, IN.
- Tuft, E. A. (1994, April). *Michigan gateways: Professional development as close as your own TV*. Presentation at the University of Michigan Mathematics Education Conference, Ann Arbor: MI.

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**INVITED PRESENTATIONS**

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- Tuft, E. A. (2016, April). *Prácticas de enseñanza de las matemáticas*. Presentation to teachers at the American School, Trujillo, Peru.
- Tuft, E. A. (2016, April). *Actividades y juegos para aprender a la adición y a la sustracción*. Presentation to teachers at the American School, Trujillo, Peru.
- Tuft, E. A. (2016, March). *La creación de buenas tareas/hacer buenas preguntas de matemáticas*. Presentation to teachers at the American School, Trujillo, Peru.
- Tuft, E. A. & Ilieva, V. (2013, March). *A discussion of elementary mathematics methods courses in Utah: Implications of the common core and other considerations*. Presentation at the 2013 Utah Association of Mathematics Teacher Educators, Salt Lake City, UT.
- Tuft, E. A. (2009, March). *Math by pictures and stories: Teaching elementary mathematics through children's literature*. Presentation at the 2009 UVU Forum on Children's Literature. Orem, UT.
- Tuft, E. A., Bahr, D., Evans, D. D., Evans, J., Ridlon, C., & Pappas, J. (2006, November). *Mathematics education for the 21<sup>st</sup> century*. Panel discussion at the annual meeting of the Utah Council of Teachers of Mathematics, Salt Lake City, UT.
- Dorward, J., & Allen, E. (1992, January-February). *Improving elementary mathematics methods: Instructional implications of NCTM standards*. Three-weekend session workshops presented for Alpine School District, American Fork, UT.
- Allen, E. A. (1991, April). *Using mathematics to solve real-life problems*. Workshops presented for middle school mathematics teachers from Granite School District using materials developed by James S. Cangelosi for the Mathematics Teacher Inservice Project, Salt Lake City, UT.

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**POSTER SESSIONS AND TABLE PRESENTATIONS**

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- Tuft, E. A. (2015, March). *Engaging UVU Elementary Education Majors and the Community with a Family Math Night*. Poster presentation at UVU's 2015 Engagement Week, Orem, UT.



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**POSTER SESSIONS AND TABLE PRESENTATIONS, Continued**


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- Tuft, E. A., Ilieva, V., & Harward, S. V. (2014, May). *Partnering with business to provide an enrichment robotics program for elementary students*. Table presentation at UVU's 2014 Business and Economic Forum, Orem, UT.
- Tuft, E. A. & Ilieva, V. (2014, March). *Emphasizing STEM subjects through an enrichment robotics program for elementary students*. Poster presentation at UVU's 2014 Engagement Week, Orem, UT.
- Tuft, E. A. & Ilieva, V. (2014, March). *Making squares with tangrams*. Table presentation at UVU's 2014 Math Week, Orem, UT.
- Womack, S., Ilieva, V., Tuft, E. A., & Sowder, M. (2013, March). *Bridging the gap: Inviting parent participation through culturally relevant parent workshops in mathematics*. Poster presentation at UVU's 2013 Scholarship of Teaching and Engagement Conference, Orem, UT.
- Womack, S., Ilieva, V., & Tuft, E. A. (2013, January). *¿Cómo puedo ayudar a mi hijo con las matemáticas?/How can I help my child with math?: A bilingual outreach to parents*. Poster presentation at the annual conference of the Association of Mathematics Teacher Educator, Orlando, FL. (*Helped with study and poster creation, but was unable to attend conference in Orlando*)

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**ADDITIONAL PROFESSIONAL CONFERENCES ATTENDED**


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- American Association of Colleges for Teacher Education annual conference, *Louisville, KY*, February 2019
- Teacher Education Council of State Colleges and Universities annual conference, *Charleston, SC*, October 2018
- Utah Association of Mathematics Teacher Educators annual conference, *Provo, UT*, March 2018
- edTPA Implementation Conference, *San Jose, CA*, November 2017
- Northern Rocky Mountain Educational Research Association annual conference, *Boulder, CO*, October 2017
- Utah Association of Mathematics Teacher Educators annual conference, *Provo, UT*, March 2017
- Association of Mathematics Teacher Educators, *Orlando, FL*, February 2017
- Utah Council of Teachers of Mathematics annual conference, *Salt Lake City, UT*, November 2016
- Utah Association of Mathematics Teacher Educators annual conference, *Orem, UT*, February 2016
- Utah Association of Teacher Educators annual conference, *Orem, UT*, February 2016
- Association of Mathematics Teacher Educators, *Irvine, CA*, January 2016
- TED\*UVU Conference, *Orem, UT*, April 2015
- Utah Association of Mathematics Teacher Educators annual conference, *Provo, UT*, March 2015
- Utah Women in Higher Education Network fall workshop, *Ogden, UT*, September 2014
- Utah Women in Higher Education Network annual conference, *Orem, UT*, April 2014
- Utah Association of Mathematics Teacher Educators annual conference, *Provo, UT*, March 2014
- UVU Arts in Education Conference, *Orem, UT*, October 2013
- Summer University: Building Bridges—Connecting People, *Orem, UT*, May 2013
- Utah Women in Higher Education Network annual conference, *Ogden, UT*, April 2013

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**ADDITIONAL PROFESSIONAL CONFERENCES ATTENDED, Continued**

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Northern Rocky Mountain Educational Research Association annual conference, *Park City, UT*, October 2012

Utah Association of Mathematics Teacher Educators annual conference, *Orem, UT*, March 2012

Utah Association of Mathematics Teacher Educators annual conference, *Provo, UT*, March 2011

For the Love of Reading, UVU Forum on Children's Literature, *Midway, UT*, March 2011

Utah Association of Teacher Educators annual conference, *Ogden, UT*, March 2010

UVU Forum on Children's Literature, *Orem, UT*, March 2010

American Association of Colleges for Teacher Education annual conference, *Atlanta, GA*, February 2010

Association of American Colleges and Universities annual conference, *Washington, D.C.*, January 2010

Utah System of Higher Education's "What is an Educated Person?" Conference, *Orem, UT*, October 2009

Utah Council of Teachers of Mathematics annual conference, *Orem, UT*, October 2009

National Conference of Undergraduate Research, *LaCrosse, WI*, April 2009

American Association of Colleges and Universities conference, *San Diego, CA*, April 2009

Utah Association of Teacher Educators annual conference, *Salt Lake City, UT*, March 2009

Utah Conference of Undergraduate Research, *Salt Lake City, UT*, February 2009

Utah Association of Mathematics Teacher Educators annual conference, *Salt Lake City, UT*, February 2009

Association of Mathematics Teacher Educators annual conference, *Orlando, FL*, February 2009

Utah System of Higher Education's "What is an Educated Person?" Conference, *Snowbird, UT*, October 2008

Utah Council of Teachers of Mathematics annual conference, *Salt Lake City, UT*, October 2008

National Council of Teachers of Mathematics Research Presession, *Salt Lake City, UT*, April 2008

Utah Valley State College Forum on Children's Literature, *Orem, UT*, March 2008

Utah Association of Mathematics Teacher Education annual conference, *Orem, UT*, February 2008

Association of American Colleges and Universities annual conference, *Washington, D.C.*, January 2008

Great Teachers' Summit, *Park City, UT*, November 2007

North American Chapter of the International Group for the Psychology of Mathematics Education annual conference, *Lake Tahoe, NV*, November 2007

Utah System of Higher Education's "What is an Educated Person?" Conference, *Snowbird, UT*, November 2007

National Council of Teachers of Mathematics research presession, *Anaheim, CA*, April 2005

National Council of Teachers of Mathematics annual conference, *Anaheim, CA*, April 2005

Utah Association of Mathematics Teacher Educators annual conference, *Ogden, UT*, Feb. 2005

American Educational Research Association annual conference, *Chicago, IL*, March 1997

National Council of Teachers of Mathematics regional conference, *Grand Rapids, MI*, Oct. 1995

National Council of Supervisors of Mathematics annual conference, *Indianapolis, IN*, April 1994

National Council of Teachers of Mathematics annual conference, *Indianapolis, IN*, April 1994

Algebra Conference, *East Lansing, MI*, June 1993

American Association for Adult and Continuing Education, *Salt Lake City, UT*, November 1990

Association of Teacher Educators annual conference, *Las Vegas, NV*, February 1990

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**PROFESSIONAL ORGANIZATION MEMBERSHIPS**


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Association of Mathematics Teacher Educators, *Irvine, California*  
 School Science and Mathematics Association, *Birmingham, Alabama*  
 Northern Rocky Mountain Educational Research Association, *Reno, Nevada*  
 Utah Council of Teachers of Mathematics, *Salt Lake City, Utah*  
 Utah Association of Mathematics Teacher Educators, *Salt Lake City, Utah*  
 Utah Association of Teacher Educators, *Salt Lake City, Utah*  
 \*National Council of Teachers of Mathematics, *Reston, Virginia*  
 \*Research Council on Mathematics Learning, *Framingham, Massachusetts*  
 \*Northern American Chapter of the International Group for the Psychology of Mathematics  
 Education, *Mérida, Yucatán, Mexico*  
 \*Membership not current this year

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**GRANTS RECEIVED**


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Co-Principal Investigator with Drs. Ann Sharp, Lorilynn Brandt, and Deb Escalante in partnership with UVU's School, Community, and University Partnership (SCUP) and the United Way, *Summer program at Franklin Community Center in Provo, UT for Elementary Students*. Awarded by the Department of Workforce Services, Salt Lake City, UT, \$180,000, 2015-2017.

Project Lead with co-investigator, Dr. Vessela Ilieva, *Emphasizing STEM Subjects through an after-school robotics program for elementary students*. Awarded by the Office of Engaged Learning, Utah Valley University, \$10,000, 2014; \$8,000, 2013.

Co-investigator with lead investigator, Dr. Sue Womack, and other co-investigators, Dr. Vessela Ilieva and Dr. Mary Sowder, *Inviting parent participation through family math nights and culturally relevant parent workshops in mathematics*. Awarded by The University Project for Civic Engagement, Utah Valley University, \$1,000, 2012.

Co-investigator with Dr. Mary Sowder, *Beyond the Classroom: Bringing Science Education Outdoors*. Awarded by the Institute for Professional Engagement, Utah Valley University, \$1,550, 2009.

Primary School of Education Contact working with Dr. Curtis Welborn from the Department of Computer Science, *Technology in the Classroom*, Awarded by The Center for Engaged Learning, Utah Valley University, \$8,000, 2008

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**UNFUNDED GRANT PROPOSAL SUBMITTED**


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Co-investigator with lead investigator, Dr. Vessela Ilieva, and other co-investigators, Dr. Danny Horn and Dr. Christine Walker, *Enhancing Math Attitudes and Aptitudes through Informal Learning (EMAIL)* to the National Science Foundation, Proposal # 1516397, November 2014

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**CONSULTING**


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Western Governors University (2009)  
 Subject Matter Expert for item writing of Elementary Education test development,  
 Textbook Reviewer for McGraw-Hill Higher Education (2006, 2007, and 2008)  
 Textbook Reviewer for Pearson Education, Inc. (2006)

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**RECOGNITION**


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Utah Association of Teacher Educators' Distinguished Projects in Teacher Education Award for UVU School of Education's Elementary Robotics Program in collaboration with Alpine School District and *Learning Through Robotics* (2016)

2<sup>nd</sup> Place for Faculty Poster/Exhibit for UVU Engaged Learning Week (2015)

UVSELF Fellow (Utah Valley Senior Executive Leadership Forum, one of 14 fellows chosen from the university), Utah Valley University (2014-2015)

\$500 prize for table presentation at UVU's 2014 Business and Economic Forum, Orem, UT.

Faculty Senate Award of Excellence, School of Education, Utah Valley University (2010)

Listed in AcademicKeys, *Who's Who in Education*

Outstanding Educational Scholar Award, Michigan State University (three-year fellowship including tuition, benefits, half-time assistantship guarantee, and \$18,000)

"Education in Action" Award, Granite School District Board of Education

Phi Kappa Phi, nominated as a graduate and undergraduate student at Utah State University

Edith Bowen Scholarship (awarded annually to top two elementary education majors), Utah State University

State Normal Scholarship, Utah State Board of Education

Lambda Delta Sigma Scholarship Award

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**SERVICE**


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**LEADERSHIP**


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**National/Regional**

Program Chair for the international organization, School Science and Mathematics Association's 2019 annual convention in Salt Lake City, UT (Nov. 2019)

Board Member (Director-at-Large) for the international organization, School Science and Mathematics Association (Nov. 2014-Nov. 2017)

Past President for the Northern Rocky Mountain Educational Research Association (Oct. 2018–Oct. 2019)

President for the Northern Rocky Mountain Educational Research Association (Oct. 2017–Oct. 2018)

President-Elect for the Northern Rocky Mountain Educational Research Association (Oct. 2016–Oct. 2017)

Treasurer for the Northern Rocky Mountain Educational Research Association (Oct. 2012–Oct. 2017)

Executive Secretary/Treasurer for the Northern Rocky Mountain Educational Research Association (2011–2014)

Utah Representative for Executive Board for the Northern Rocky Mountain Educational Research Association, (2007–2010)

**State of Utah**

President, Utah Association of Teacher Educators (2017-2018)

Executive Secretary, Utah Association of Teacher Educators (2015-2017)

Past President, Utah Association of Mathematics Teacher Educators, (Mar. 2013–Mar. 2014)

President, Utah Association of Mathematics Teacher Educators (Mar. 2012–Mar. 2013)

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**LEADERSHIP, Continued**


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**State of Utah, Continued**

President-Elect, Utah Association of Mathematics Teacher Educators, (*Mar. 2011–Mar. 2012*)

**Utah Valley University**

Coordinator, Elementary Robotics Program (*Nov. 2013–present*)  
(Partnership between UVU's School of Education, Alpine School District, and *Learning Through Robotics* to provide enrichment elementary robotics courses to 4<sup>th</sup> – 6<sup>th</sup> graders)

Chair, Personnel and Elections Faculty Senate Standing Committee and member of Faculty Senate Executive Committee (*Sep. 2010–May 2013*)

Chair, Elementary Publicity and Public Relations Committee (*Sep. 2010–May 2013*)

Faculty Senator, Representing Department of Elementary Education (*Apr. 2010–May 2013*)

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**COMMITTEES****Professional Organizations**

School Science and Mathematics Association, Awards and Endowments Committee (*Oct. 2009–Nov. 2012*)

**State of Utah*****Utah State Office of Education***

Educator Preparation Program Rule (*Sep. 2018*)

Elementary Education Majors Group (*2017–present*)

State Mathematics Education Coordinating Committee (*2014–present*)

K-16 Alliance/UVU Math Committee (*2012–2013*)

Mathematics/Mathematics Education Majors Group (*2007–present*)

Utah Mathematics Education Endorsement Design Committee (*Mar. 2009–Mar. 2010*)

**Professional/Community**

Provo School District Mathematics Textbook Adoption Committee (*Feb. 2014–Mar. 2014*)

**Utah Valley University*****University-wide Committees***

Timely Completion Committee (*Sep. 2017–present*)

Retention, Tenure, Promotion, and Appeals Committee (*Jan. 2015–Apr. 2016*)

University Tenure Board of Review Committee (*Apr. 2013–Jan. 2015*)

General Education Committee (*Jan. 2007–Aug. 2011*)

Institutional Effectiveness Academic Committee (*Oct. 2009–January 2011*)

Northwest Accreditation Report Writing Committee for Standard 5 (*Fall 2009*)

Budget and Benefits Committee (*Oct. 2007–Oct. 2009*)

***University College Committee***

Math Adventure Camp Committee with faculty from Developmental Math (*2012–2014*)

***School of Education Committees***

Accreditation Committee (*Jul. 2017–present*)

SOE 21<sup>st</sup> Century/STEM Committee (*Mar. 2016–present*)

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**COMMITTEES, Continued**


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**Utah Valley University, Continued*****School of Education Committees, Continued***

- Elementary Clinical Pilot Committee (*Mar. 2015–present*)
- K-16/STEM Initiative Committee (*Mar. 2014–present*)
- 21<sup>st</sup> Century Schools (*Oct. 2013–Mar. 2016*)
- Latino Educators of Tomorrow (*Sep. 2011–Sep. 2013*)
- Graduate Procedures Committee (*Nov. 2009–present*)
- Graduate Project Oversight Committee (*Sep. 2009–present*)
- Teacher Education Accreditation Council Committee (*Sep. 2009–Sep. 2010*)
- Graduate Program Development Committee (*Sep. 2006–Aug. 2008*)
- School Admission and Retention Committee (*Sep. 2006–present*)

**Brigham Young University**

- Northwest Accreditation Review—Faculty Section Committee (*2005–2006*)
- Teaching Partnership (*2005–2006*)
- EIEd 361/362 Mathematics Alignment Committee (*2004–2005*)

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**OTHER SERVICE**


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**Professional**

- External Reviewer of a tenure dossier for an assistant professor at the University of Colorado—Colorado Springs (*Fall 2017*)
- Proposal Reviewer for the Northern Rocky Mountain Educational Research Association annual conference (*2017, 2016, 2015, 2014, 2013, 2012, 2010, 2009*)
- Volunteer for the annual conference of the National Council of Teachers of Mathematics in Salt Lake City, UT (*2008*)
- Van de Walle (mathematics methods textbook) Advisory Council Member (*2007–2008*)

**Utah Valley University**

- Vice President of Student Affairs Search Committee member—Utah Valley University (*Fall 2017*)
- University Project Teaching Fellow (*2013–2014*)
- Sponsor/mentor for student writing a GEL grant proposal for ENGL 3320, *Grant and Proposal Writing* (*Fall 2013*)
- Dean Search Committee member—UVU School of Education (*Jan. 2013–Mar. 2013*)
- Faculty Senator representing the School of Education (*Sep. 2010–May 2013*)
- Member of five search committees for School of Education faculty; Chair of one search committee
- Chair of masters' project committee for the following students:  
  - Adree Fairbanks (*2016–2018*); Corrine Fiso (*2016–2018*); Marie Garner (*2011–2013*);
  - Ranae Durfee (*2010–2012*); Michael Padeken (*2010–2013*); Rachael Burton (*2009–2010*)

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**OTHER SERVICE, Continued**

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**Utah Valley University, Continued**

Committee member of masters' project committee for the following students:

Shlori Daniels (2016-2018); Jennie Hill (2015-2017); Natalie Burgon (2014-2016); Aaron Smith (2013-2015); Michael Bachler (2013-2015); Randa Mortensen (2013-2015);

Jarom Stubbs (2011-2013); Nicole Robertson (2011-2012); Ashlee Barker (2009-2010)

Helped dozens of students with the statistics portion of their masters' project (2009-present)

Faculty Mentor/Attendee for National Conference on Undergraduate Research, LaCrosse, WI (Apr. 2009)

Faculty Mentor/Attendee for Utah Conference on Undergraduate Research, Salt Lake City, UT (Feb. 2009)

Faculty/Staff Campaign Coordinator for Department of Elementary Education (2007)

Mathematics Tutor for Elementary Education Students taking MATH 2010 and MATH 2020 (2007-2009)

**Michigan State University**

Member of Department Chair's Student Advisory Committee

Department Representative from Teacher Education for the university-wide Council of Graduate Students

Graduate Student Representative for the University Committee on Academic Policy

Teacher Education Graduate Student Mentor for Two New Doctoral Students

Active Member of Education Graduate Students Organization

Active Member of Latter-day Saint Student Association

**Utah State University**

Volunteer for Friends of the Elderly; Co-Chair of Adopt-A-Grandparent Program

Member International Student Committee

Chair for International Student Thanksgiving Project 1985 (placed over 100 international students in homes for Thanksgiving dinner)

Member Latter-day Saint Student Association Service Committee and International Student Committee

**Community**

Organized and presented a Family Math Night at Lakeview Elementary School (Provo) which included 53 UVU Elementary Education students as volunteers (March 2017)

Organized and presented a Family Math Night at Lakeview Elementary School (Provo) which included 25 UVU Elementary Education students as volunteers (February 2016)

Organized and presented a Family Math Night at Lakeview Elementary School (Provo) which included 32 UVU Elementary Education students as volunteers (March 2014)

Cub Scout Den Leader—Orem and Provo, Utah (2005-2009)

Member, Parliamentarian, and 2<sup>nd</sup> Vice Captain for the James and Drusilla Hendricks Camp of The Daughters of Utah Pioneers—Richmond, Utah

Garden Coordinator for Lansing Area Food Bank (two years)—East Lansing, Michigan

Volunteer for Make a Difference Day—Meridian, Michigan

Campaign Volunteer for Bill Snow's County Commissioner Campaign—Meridian, Michigan

Volunteer for Playground in the Park project—East Lansing, Michigan

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**OTHER SERVICE, Continued**

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**Community, Continued**

Volunteer for Victory Games for athletes with cerebral palsy—*East Lansing, Michigan*

Volunteer for Christmas in April Project—*East Lansing, Michigan*

Volunteer for SummerFest—*Logan, Utah*

Volunteer for Salt Lake Girls and Boys Club

Volunteer for Camp Kostopulos with the Ouelessebouyou / SLC Sister City Program

Volunteer for Community Service Foodbank—*Salt Lake City*