

Amy Jeppsen Tanner

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Areas of Interest

Mathematical Content Preparation of Elementary Teachers, Mathematical Knowledge for Teaching, Curriculum Development and Implementation

Education

PhD, Mathematics Education

University of Michigan – Ann Arbor, MI, 2010

Dissertation: The Role of the Community College Instructor in Choosing and Using Mathematics Curricula for Future Teachers

MA, Mathematics Education

Brigham Young University – Provo, UT, 2005

Thesis: An Examination of the Role of Writing in Mathematics Instruction

BA, Mathematics Education, cum laude

Brigham Young University – Provo, UT, 2002

Teaching, Brigham Young University

MTHED 305 Basic Concepts of Mathematics, Winter 2011 – present (22 sections)

Concept-oriented exploration of number, measurement, and informal geometry in relation to children's learning.

MTHED 306 Concepts of Mathematics, Fall 2010 – present (23 sections)

Concept-oriented exploration of rational numbers and proportional reasoning, integers, and probability and data in relation to children's learning.

MTHED 117/177 Critical Review of School Mathematics, Fall 2011 – present (14 sections)

Strengthen understanding of middle-school mathematics; gain awareness as mathematics learners in learning communities; learn how to support collaborative communities as teachers.

MATH 110 College Algebra, Summer 2012, Summer 2018 (2 sections)

Functions, polynomials, theory of equations, exponential and logarithmic functions, matrices, determinants, systems of linear equations, permutations, combinations, binomial theorem.

MTHED 277 Task Design and Assessment of Student Understanding, Fall 2014 – present (4 sections)

Building tasks that elicit important mathematical ideas. Reflecting on and assessing the success of tasks through questioning and other methods of formative assessment.

MATH/MTHED 300 History of Mathematics, Spring 2016 – present (7 sections)

Historical development of important mathematical ideas and philosophies; implications for mathematics curriculum.

Prior Teaching Appointments

Instructor: Functional Math for Elementary Teachers I and II, Introductory Algebra
Washtenaw Community College, 2007 to 2010

Responsibilities: Prepared and led lessons and cooperative learning activities; Prepared and graded assignments and other assessments; Held student consultations.

Teaching Assistant: Mathematics for Elementary School Teachers
University of Michigan, 2008 to 2009

Responsibilities: Held student consultations; Graded assignments and other assessments; Assisted students in class; Prepared and led short lessons.

Instructor: Practicum in Teaching Methods, Secondary Mathematics
University of Michigan, 2006 to 2007

Responsibilities: Matched students with cooperating teachers for pre-student teaching; Observed classroom teaching experiences; Led bi-weekly seminars on mathematics teaching; Collaborated with methods and content area literacy courses.

Instructor: College Algebra, Calculus I, Concepts of Mathematics
Brigham Young University, 2004 to 2005

Responsibilities: Prepared and led lessons and cooperative learning activities; Prepared and graded assignments and other assessments; Held student consultations.

Mathematics Teacher: Algebra 1, Algebra 2, Geometry
Osborn Park High School, Manassas, VA, 2002 to 2003

Responsibilities: Prepared assessments, lessons, and individual and group learning activities; Served on a committee for writing district-wide mathematics tests.

Research Appointments

Mathematical Knowledge for Teaching
University of Michigan, 2008-2009

Director: Heather Hill

Responsibilities: Collaborated on analysis of videos of middle school mathematics teachers and revision of coding scheme for video analysis.

Advancing Adolescent Literacies
University of Michigan, 2007-2008

Director: Elizabeth Moje

Responsibilities: Administered and transcribed semi-structured interviews on content-area literacy knowledge and beliefs to prospective teachers; Analyzed interviews of prospective mathematics teachers; Consulted on content-area literacy in mathematics.

Geometry, Reasoning, and Instructional Practices
University of Michigan, 2005-2007

Director: Patricio Herbst

Responsibilities: Assisted with focus groups for practicing teachers; Analyzed videos of high school geometry instruction.

Conference Presentations

Ryagoza, M., Lischka, A., Tanner, A., Males, L., Stone, J., Harper, F., Sullivan, P., & Myers, M. (2020). *Humanizing approaches to grading with mathematics preservice teachers: Navigating and pushing beyond systems*. Presentation at the Annual Meeting of the Association of Mathematics Teacher Educators, Phoenix, AZ.

Tanner, A. (2019). *Talking math with kids*. Presentation at the Regional Conference of the National Council of Teachers of Mathematics, Salt Lake City, UT.

Bahr, D., & Tanner, A. (2013). *Integrating content and pedagogy instruction in mathematics teacher preparation*. Presentation at the Annual Meeting of the Association of Mathematics Teacher Educators, Orlando, FL.

Siebert, D., & Jeppsen, A. (2010). *An examination of the role of writing in mathematics instruction*. Paper presented at the 60th Annual Meeting of the National Reading Conference, Forth Worth, TX.

Jeppsen, A. (2008) Opportunities to learn mathematics for teaching at community colleges. Paper presented at the Conference on Research in Undergraduate Mathematics Education. San Diego.

Herbst, P. Hsu, H., Chen, C., González, G., and Jeppsen, A. (2007). *Conceptions of figure in high school geometry instruction*. Poster presented at the annual meeting of the American Educational Research Association, Chicago.

Jeppsen, A. & Sealy, J. (2006). *Mathematics instruction in multilingual classrooms*. Paper presented at the Conference of the Midwest Institute for International and Intercultural Education. Livonia, MI.

Sealy, J. & Jeppsen, A. (2006). *Mathematics instruction in multilingual classrooms*. Paper presented at the Mathematics Education Conference at Eastern Michigan University. Ypsilanti, MI.

Professional Service

College of Physical and Mathematical Sciences Curriculum Committee, 2011 - 2012

Undergraduate Adviser, Department of Mathematics Education, 2011 - present

Secondary Education Committee Member, 2011 - 2015

Mentor for Graduate Instructors, Mathematics for Elementary Teachers, 2011 - present

Coordinator, Mathematics for Elementary Teachers, 2010 - present

Vice President, Utah Council of Teachers of Mathematics, 2011 - 2013

Reviewer AERA Annual Meeting, 2007, 2020
Journal for Research in Mathematics Education, 2007
Psychology of Mathematics Education (PME), 2009
Mathematics Teacher Educator, 2012 - present
Mathematics Teacher: Learning and Teaching PreK-12, 2019 - present

Membership in Professional Organizations

National Council of Teachers of Mathematics (NCTM)
Utah Council of Teachers of Mathematics (UCTM)
Association of Mathematics Teacher Educators (AMTE)
National Academic Advising Association (NACADA)