MEGAN WESTWOOD TAYLOR

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CURRENT EMPLOYMENT

Assistant Professor of Mathematics Education
Sonoma State University; Rohnert Park, CA
Department of Curriculum Studies and Secondary Education
Research interests: Secondary mathematics education, teacher education, and professional development; Middle-school teaching and learning; Algebra education; Curriculum use

EDUCATION & PROFESSIONAL FELLOWSHIP

Postdoctoral Fellow
Harvard Graduate School of Education; Cambridge, MA, April 2010 – July 2012
Project: Transforming the Engagement of Students Learning Algebra (TESLA)
http://tesla-project.org
Purpose: Investigate the relationship between technology-based motivational activities and middle school student interest in Science, Technology, Engineering, and Mathematics (STEM) professions
Co-PIs: Dr. Chris Dede, Dr. Jon Star
Project duration: January 2010 – June 2012
Funding: National Science Foundation

Ph.D., Mathematics Education
Stanford University; Stanford, CA, June 2010
Committee: Aki Murata (Advisor), Hilda Borko, Deborah Stipek, Jo Boaler
Dissertation Title: Replacing the "teacher-proof" curriculum with the "curriculum-proof" teacher: Toward a more systematic way for mathematics teachers to interact with their textbooks

M.A., Mathematics Education/Single-Subject Clear Credential
Stanford University; Stanford, CA, June 2002

B.S., Psychology with Mathematics Emphasis; Minor: Spanish Language
University of California at Davis; Davis, CA, June 2001

HONORS & AWARDS

Toshiba America Foundation Grants Program for K-12 Science and Mathematics Education
March-August 2007. $4,000.00. Principal Investigator. Grant to study short-term changes in the beliefs of middle-school mathematics students.

Nationally Board Certified Teacher in Secondary Mathematics
National Board for Professional Teaching Standards, December 2006

PUBLICATIONS

Taylor, M.W. (under review). Research Commentary: In search of the 'curriculum-proof' teacher. *Journal for Research in Mathematics Education*.

Taylor, M. W. (2012). Replacing the "teacher-proof" curriculum with the "curriculum-proof" teacher: Toward more effective interactions with mathematics textbooks. *Journal of Curriculum Studies*, (in press).

Murata, A., Bofferding, L., Pothen, B. E., Taylor, M. W., & Wischnia, S. (2012). Making connections among student learning, content, and teaching: Teacher talk paths in elementary mathematics lesson study. *Journal for Research in Mathematics Education*, (in press).

Taylor, M.W. (2010). *Replacing the "teacher-proof" curriculum with the "curriculum-proof" teacher: Toward a more systematic way for mathematics teachers to interact with their textbooks.* Doctoral dissertation, Stanford University.

Taylor, M.W. (2009). Changing students' minds about mathematics: Examining short-term changes in the beliefs of middle-school students. In Swars, S. L., Stinson, D. W., & Lemons-Smith, S. (Eds.) *Proceedings of the 31st annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. Atlanta, GA: Georgia State University. (5), 105-112.

Taylor, M.W. (2005). *A Definition of Differentiation***.** CA Mathematics Communicator Journal, 30(1), 39-41.

PAPER PRESENTATIONS

Taylor, M. & Star, J.R. (under review). *Patterns in teaching patterns: Challenges to maintaining task richness.* Paper presented at the annual meeting of the American Educational Research Association*,* San Francisco, CA, 2013.

Taylor, M. W. (2012). We're number one! Examining high school mathematics teachers' prioritizations of algebra standards. Paper presented at the annual meeting of the American Educational Research Association, Vancouver, BC.

Taylor, M.W. (Chair) & Star, J.R. (2011). *Teacher divergence from expected curriculum use.* Paper presented at the annual meeting of the American Educational Research Association, New Orleans, Louisiana, 2011.

Taylor, M.W. (2010). *Replacing the "teacher-proof" curriculum with the "curriculum-proof" teacher: Toward more systematic textbook use.* Poster presented at the conference on Research on the Enacted Mathematics Curriculum, University of South Florida, Tampa, 2010.

Taylor, M.W. (2008). *Changing students' minds about mathematics: Examining short-term changes in the beliefs of middle-school students.* Paper presented at the annual meeting of the American Educational Research Association, New York City, New York, 2008.

CONFERENCE SYMPOSIA

Vig, R. (Co-Chair) & Taylor M.W. (Co-Chair) (under review). *Assessing implementation fidelity: Challenges as seen through the lens of three experimental studies.* Symposium at the annual meeting of the American Educational Research Association*,* San Francisco, CA, 2013.

Taylor M.W. (Chair), Drake, C., Mitchell, R., & Sherin, M.G. (Discussant) (2011). *Professional development for "more effective" curriculum use.* Symposium at the annual meeting of the Association of Mathematics Teacher Educators*,* Irvine, California, 2011.

PROFESSIONAL MEMBERSHIPS	National Council of Teachers of Mathematics (NCTM) American Educational Research Association (AERA) Association of Mathematics Teacher Educators (AMTE) California Association of Mathematics Teacher Educators (CAMTE) California Mathematics Council, North (CMC-N)
REVIEW BOARDS	Guest reviewer, conference of the *Association of Mathematics Teacher Educators* Guest reviewer, *American Educational Research Journal* Guest reviewer, conference of the *American Educational Research Association* Guest reviewer, *Journal of Curriculum and Instruction* Guest reviewer, *American Journal of Education* Guest Reviewer, *Curriculum Inquiry*
TEACHING EXPERIENCES	
2007 – 2009	**Instructor, Stanford Teacher Education Program** Stanford University; Stanford, CA *Taught the* Mathematics Curriculum and Instruction *courses (ED 263A, 263B & 263C) for three cohorts of pre-service teachers in mathematics education. Design and implementation of all course lessons, assignments and assessments.*
2009 – 2010	**10th-Grade Mathematics Teacher and Curriculum Writer** Summit Preparatory Charter High School; Redwood City, CA Sequoia Union High School District *Co-teach four tenth-grade Advanced Algebra classes (100 students). Write and implement curriculum with co-teacher.*
Fall 2007, 2008	**Instructor, San Francisco State University/ Canada College** A partnership with San Francisco State University, Canada College, Sequoia Union High School District and San Mateo Union High School District *Taught two fall semester courses for mathematics teachers from the San Mateo, Sequoia, and Jefferson Union High School districts. Focus of the course was on learning and using the Mathematics Curriculum Assessment and Adaptation (MCAA) process in heterogeneous mathematics classrooms.*
September 2006 – June 2009	**Teaching Fellow/ Supervisor, Stanford Teacher Education Program** Stanford University; Stanford, CA *Assisted in teaching courses in the Stanford Teacher Education Program (STEP) for pre-service teachers, including Classroom Management and Heterogeneous Classrooms. Supervised two pre-service teachers in their field placements, which included classroom observations and weekly meetings.*
June – August 2007	**7th/8th-Grade Mathematics Lead Teacher and Curriculum Writer** Buchser Middle School, Summer Program; Santa Clara, CA Santa Clara Unified School District
August 2004 – 2006	**9th/11th-Grade Mathematics Teacher and Curriculum Writer** Summit Preparatory High School; Redwood City, CA Sequoia Union High School District

August 2002 – 2004	**7th/8th-Grade Mathematics Teacher and Curriculum Writer** Ben Franklin Intermediate School; Daly City, CA Jefferson Elementary School District
OTHER PROFESSIONAL EXPERIENCE	
August 2012 – present	**School and Curriculum Design Consultant:** Summit Public Schools, Redwood City, CA *Consultant in the work of school design and mathematics curriculum vision for the first middle school of the Summit Public Schools charter school network, opening fall 2013.*
March 2010	**Invited Speaker:** University of Massachusetts, Dartmouth Colloquium Series *Invited to speak in UMD colloquium. Spoke to group of graduate students and education researchers about "most effective" curriculum use.*
November 2010	**Invited Participant:** Conference on the Research on the Enacted Mathematics Curriculum, University of South Florida, Tampa, FL
September 2010	**Invited Speaker:** University of New Hampshire Mathematics Colloquium Series *Invited to speak in UNH colloquium. Spoke to group of undergraduate and graduate students, research mathematicians and others about "most effective" curriculum use.*
August 2009 – May 2010	**Participant and member, Functions Research Group:** University of California, Berkeley, Berkeley, CA. Director: Alan Schoenfeld.
August 2008 – June 2010	**District Algebra Coordinator:** San Mateo Union High School District, San Mateo, CA *Chair the District Algebra Learning Team; provide leadership for development of District curriculum and assessment for Algebra; provide leadership for professional development in Algebra instruction; provide support on an as-needed basis to individual school site Algebra programs; provide assessment and evaluation of the Algebra program, including recommendations for improvement, to the Associate Superintendent Instruction.*
September 2009	**Invited Speaker:** Sonoma State University Mathematics Colloquium Series *Invited to be keynote speaker in SSU colloquium. Spoke to group of undergraduate and graduate students, pre-service teachers, research mathematicians and others about rich, complex mathematics problems for use in secondary mathematics classrooms.*
December 2007 – May 2009	**Student Member, Mathematics Education Faculty Search Committee:** Stanford University School of Education, Stanford, CA *Reviewed and discussed faculty applications for the position of Professor of Mathematics Education. Participated in review of job talks, interviews with candidates, and final decision-making meetings. Organized student meetings with the candidates and communicated student feedback with the committee. Was asked to join the committee again in its second year.*
	Mathematics Coach/Consultant:
July 2012	San Mateo Union High School District, San Mateo, CA *Facilitated professional development workshops for teachers of the SMUHSD* Summer Bridge to Algebra *Program*
September 2008 – June 2009	San Mateo High School, San Mateo, CA *Worked with the Algebra team in developing and revising curriculum through 2008-09 school year.*
January – June 2008	Tierra Linda Middle School, San Carlos, CA *Worked with teachers to implement differentiated curriculum in their classrooms.*
September – November 2006	Summit Preparatory Charter High School, Redwood City, CA *Worked with a new mathematics teacher to lesson plan and manage a classroom for 10th grade*

Advanced Algebra students.

December 2006 – 2008

Speaker: Asilomar Mathematics Conference
CMC National Mathematics Conference; Pacific Grove, CA
Attended as a participant, 2001-2005; attended as a speaker 2006, 2007, 2008

January 2006 – 2008

Workshop Organizer and Speaker: Design and lead *A Model for Differentiation* workshop for teachers on defining and using differentiation in all classrooms.

- February 2008: Berkeley Middle School, Berkeley, CA
- February 2008: Tierra Linda Middle School, San Carlos, CA
- January 2008: San Mateo Union High School District, San Mateo, CA
- August 2007: San Carlos School District, San Carlos, CA
- March 2007: San Mateo County Office of Education, Redwood City, CA
- May 2006, February 2007: Stanford Teacher Education Program, Stanford, CA
- January 2007: Jefferson Elementary School District, Daly City, CA
- December 2006, 2007, 2008: CA Mathematics Conference - North, Asilomar, Pacific Grove, CA
- August 2006: *Teachers for a New Era* conference, Stanford University
- January 2006: Summit Preparatory High School, Redwood City, CA

Summer 2004, 2005, 2006, 2008

Staff: Park City Mathematics Institute
3-week Mathematics institute in Park City, Utah bringing mathematics teacher, researchers, students and professors together to examine specific mathematics topics and their applications in Mathematics education. Worked with other teachers to critically analyze the teaching and learning of Mathematics. Awarded full scholarship to attend first two years, came as staff in 2006 and 2008.

REFERENCES

Dr. Jon R. Star
Nancy Pforzheimer Aronson Associate Professor In Human Development and Education, Harvard University
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Dr. Aki Murata
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Videos of teaching, designed curricula, and course syllabi also available.