

## CARMEL SCETTINO, PH.D.

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### EDUCATION

University at Albany-SUNY, Albany, NY

**Ph.D., Curriculum and Instruction with specialization in Mathematics Education** 2013

Dissertation Title: *Dismantling the Birdcage: Adolescent Girls' Attitudes towards Learning Mathematics with a Relational Pedagogy in a Problem-Based Environment*  
Advisor: Vick Kouba, Ph.D. Committee: Carol Rodgers, Ph.D., Kristen Wilcox, Ph.D.

Boston College, Chestnut Hill, MA

**M.A. in Mathematics** 1992

Manhattanville College, Purchase, NY

**B.A. in Mathematics, Magna cum laude, Departmental and Senior Thesis Honors** 1990

### AWARDS

Henry L. Thompson Chair in Mathematics, Emma Willard School, Troy, NY

September 2009

Charles E. Ryberg '63 Teaching Fund Award, Phillips Exeter Academy, Exeter, NH

June 1999

Summer Fellowship, Klingenstein Center for Independent School Education at Teachers College, Columbia University

June 1996

Teaching Excellence Award, Boston College Teaching Fellows

May 1992

### TEACHING EXPERIENCE

Deerfield Academy, Deerfield, MA

**Mathematics Instructor, Data Coordinator- Mathematics Department**

Fall 2011

Organized, advised and ran both quantitative and qualitative inquiry projects for departments ranging from academic, athletic, admissions or discipline specific. Chaired multidisciplinary Data Team Committee. Coordinated all projects with IT department and database specialist in order to optimize analysis and visualization of data for valid evidence-based decision making.

Taught courses in Geometry, Algebra II Honors, Advanced Tutorial in Number Theory

Mentored Teaching Fellow in Masters Program at University of Pennsylvania

University at Albany/SUNY, Albany, NY

**Adjunct Instructor - Educational Theory and Practice Department**

Fall 2009-10

Teaching High School Mathematics - Methods and Guided Field Experience

Instructed graduate level seminar for pre-service teachers during first classroom experience

Emma Willard School, Troy, NY

**Mathematics Instructor, Coordinator of Innovative Classroom Practice, Mathematics Department Chair**

2001-2011

Instructed all levels of secondary and advanced mathematics, served in administrative roles, developed curriculum, oversaw departmental professional development, Mentored and advised faculty and teaching interns on innovative teaching practice including the use of technology, online LMS, authentic assessment practices, writing across the curriculum and other pedagogical techniques. As Department Chair, developed curriculum, oversaw departmental

professional development and budget, conducted hiring and evaluation of department members

Phillips Exeter Academy, Exeter, NH

**Mathematics Instructor**

1995-2001

Boston College, Chestnut Hill, MA

**Teaching Fellow – Calculus I, II, Finite Mathematics**

1990-1992

Fully responsible for all aspects of teaching, planning, grading college level courses

#### RELATED EXPERIENCE – RESEARCH AND TEACHER EDUCATION

Buck Institute for Education, Novato, CA

**Workshop Curriculum Developer**

April 2014

Development of CCSS/Math PBL Workshop Curricula with team of writers, training for professional develop for teachers for PBL implementation

Women’s Educational Equity Act Program, *Project Numbers and Futures*, US Department of Education

**Graduate Research Assistant**

Fall 2009

Curriculum writing and tutor training for federally funded research project serving African-American High School Females in Mathematics

Christel House South Africa, Ottery, Western Cape Province, South Africa

**Researcher, Program Evaluator**

July 2009

Compiled report of K-12 Mathematics Program from observation, interview and focus groups for NGO school serving underprivileged children

New Jersey Association of Independent Schools Professional Development Workshop

**Presenter**

October 2008

‘Problem-Based Learning: Fostering Engagement and Empowerment in the Mathematics Classroom’

Bard College, MAT Program, Annandale-on-Hudson, NY

**Master Teacher, Seminar Presenter and Teacher Mentor**

July 2007 – March 2008

Summer intensive course and follow up seminars during academic year with field teachers in the Bronx and other NYC schools

Emma Willard School, Troy, NY & Phillips Exeter Academy, Exeter, NH

**Curriculum Developer**

2002-present, 1997-2000

Writing, development, implementation and faculty training of problem-based curriculum for calculus, integrated algebra/ geometry and trigonometry courses.

Exeter Mathematics Institute

**Teacher Educator**

1999-2002

Professional development instruction for public school mathematics teachers in urban districts around the U.S. including Memphis, TN, Phoenix, AZ, Las Vegas, NV & Atlanta, GA.

Various Schools

**Independent Consultant on Implementation of Problem-Based Learning**

2005-present

Professional development of Mathematics Faculty for a variety of schools wishing to transition to a Problem-Based curriculum and pedagogy – training, classroom observation, discussion, workshops and feedback on department and individual growth.

## PUBLICATIONS AND PAPERS

- Schettino, C. (2013). Relational Problem-Based Learning: Adolescent Girls Attitudes. In M. Martinez & A. Castro Superfine (Eds.), *Proceedings of the 35<sup>th</sup> Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. Chicago, IL: University of Illinois at Chicago.
- Schettino, C. (2011). Teaching Geometry with Problem-Based Learning. *Mathematics Teacher*, 105 (5), 346-351.
- Schettino, C. (2010). Revealing dialogue in a Problem-Based Learning classroom: The perspective of a pedagogy of feminist relation. (Reviewed & Returned for Revision).
- Schettino, C. (2010). Dewey, dying and the continuity of experience. *Insights: the Newsletter of the John Dewey Society*, 42 (1).
- Schettino, C. (2005). The case for Problem-Based Instruction: Improving girls' mathematics learning in a single-sex environment. (Reviewed & Returned for Revision)
- Schettino, C. (2003). Transition to a problem-solving curriculum. *Mathematics Teacher*, 96 (8), 534-7.

## RESEARCH PRESENTATIONS

- The Case for Relational Pedagogy and Problem-Based Learning: PBL Mathematics and Adolescent Girls*  
American Educational Research Association Annual Meeting,  
Philadelphia, PA **April 2014**
- Change the Classroom, Not the Students: Attaining Equity Using PBL*  
NCTM Annual Meeting and Exposition,  
New Orleans, LA **April 2014**
- Relational Problem-Based Learning: Adolescent Girls' Experiences with an Inclusive Pedagogy for Mathematics*  
Psychology of Mathematics Education-North American Chapter Annual Conference  
Chicago, IL **November 2013**
- Revealing Dialogue in a Feminist Mathematics Classroom: A Framework for a Pedagogy of Feminist Relation*  
Paper accepted for presentation at GEA Conference  
Gender and Education Association  
University of Exeter, Exeter, United Kingdom **April 2011**
- Revealing Dialogue in a Problem-Based Learning Classroom: A Pedagogy of Feminist Relation*  
Harvard Graduate School Research Conference  
Harvard Graduate School of Education  
Cambridge, MA **March 2010**

## TEACHER EDUCATION/PROFESSIONAL DEVELOPMENT PRESENTATIONS

'Moving Forward with Problem-Based Learning' & 'Scaffolding & Developing a PBL Course'	Anja S. Greer Conference on Mathematics, Science and Technology, Exeter, NH	June 2014
'Problem-Based Learning: Empowering & Engaging Students in Mathematics'	Key Note Address, Independent Schools of Ontario Mathematics Association (ISOMA) Conference, Toronto, Ontario, CA	January 2013
'Scaffolding Problems for Optimal Learning in PBL'	ISOMA Conference, Toronto, Ontario, CA	January 2013
'Moving Forward with Problem-Based Learning'	Anja S. Greer Conference on Mathematics, Science and Technology, Exeter, NH	June 2012
'Using Problem-Based Learning to Engage High School Students'	11 <sup>th</sup> Annual Discrete Math Conference, sponsored by Boston College Mathematics Institute and Rutgers University, Chestnut Hill, MA	March 2012
'Encouraging Reasoning and Sense Making with Problem-Based Learning'	Infusing the Classroom with Reasoning and Sense Making: an NCTM Interactive Institute on High School Mathematics, Orlando, FL	July 2011
'Improving Classroom Discourse to Support Communication, Equity, and Students' Agency'	NCTM Annual Meeting and Exposition, Indianapolis, IN	April 2011
'Problem-Based Learning (PBL): A Transformed Perspective for Standards-Based Geometry'	NCTM Annual Meeting and Exposition, Indianapolis, IN	April 2011
'Creating a Geometry Classroom based on the Relational Learning of Girls'	New York State Independent Schools Conference on Educating Girls, New York, NY	January 2011
'A Framework for the Feminist Relational Mathematics Classroom'	19 <sup>th</sup> Annual Women in Society Conference, Marist College, Poughkeepsie, NY	October 2010
'Problem-Based Learning: Engagement and Empowerment for the 21 <sup>st</sup> Century Classroom'	Anja S. Greer Conference for Mathematics, Science and Technology, Exeter, NH	June 2009/10/11
'Curious About Problem-Based Learning?' & 'Advanced PBL Writing Workshop'	Anja S. Greer Conference for Mathematics, Science and Technology, Exeter, NH	June 2007-8
"Journal Writing as a Connection to Girls' Understanding of Problem Solving"	Speaker proposal selected for alternate status, NCTM National Conference	April 2005
'Rebuilding Geometry Curriculum Utilizing Geometer's Sketchpad'	Association of Teachers of Independent Schools in NYC Annual conference and Book Exhibit	May 1995

## MEMBERSHIPS AND SERVICE

Presider at conference session, *Classroom Discourse*, Psychology of Mathematics Education – North America Conference, Kalamazoo, Michigan, November 2012  
 Advisory Panel Member for NSF CCLI Grant Proposal *Discovering the Art of Mathematics: Inquiry-Based Learning in Mathematics for Liberal Arts*, Westfield State University Mathematics Department  
 American Educational Research Association, 2009-present  
 Special Interest Groups:  
 Critical Examination of Race, Ethnicity, Class and Gender

Research in Mathematics Education  
Problem-Based Learning  
National Council of Teachers of Mathematics, 1991-present

TECHNOLOGY EXPERTISE

MaxQDA, Data Analysis Software  
Tableau, Data Visualization Software  
Excel, Advanced Data Analysis Applications  
Social Media Knowledge & Use – Facebook, Twitter, Academia.edu  
Classroom Technology use of iPad with students – Apps for Mathematical Knowledge Acquisition, Evergreen apps for  
Notetaking and Document Sharing  
Apple TV for iPad projection  
Numerous Presentation Techniques including Prezi