

Maureen M. Grady

1713 Worthington Warren Rd
Stokes, NC 27884
814-380-1101
gradym@ecu.edu

EDUCATION

The Pennsylvania State University, University Park, PA
PhD Candidate - Curriculum & Instruction – August 2013
Emphasis in Mathematics Education
Advisor: Dr. Fran Arbaugh

Methodist Theological School in Ohio, Delaware, OH
Master's of Divinity - 1990
Studies included education, theology, foreign languages, psychology, administration, history, and public speaking.

Rhode Island College, Providence, RI
BA in Mathematics - 1985
Emphasis in Secondary Education
Cognate in Physics

Cornell University, Ithaca, NY
Major: Computer Engineering

PROFESSIONAL EXPERIENCE

Assistant Professor - 2013-present

East Carolina University

Courses:

Geometry and Measurement for Middle and Elementary Teachers
Teaching of Mathematics in High School
Internship in High School Mathematics Teaching
Research in Mathematics

Teaching Assistant

The Pennsylvania State University

Fall 2010 – Served as course assistant for Teaching Secondary Mathematics 1

Spring 2011 – Taught undergraduate course Teaching Secondary Mathematics 1

Research Assistant – 2008-2013

The Pennsylvania State University

Supervisor: Dr. M. Kathleen Heid

Member of a research team investigating the mathematical knowledge of preservice and beginning secondary mathematics teachers. Responsibilities include: observing classroom teaching, annotating and analyzing transcripts of observations and interviews, assisting in the writing of interview schedules, and working with the team to prepare articles and presentations sharing our results.

Member of a research team investigating the use of authentic classroom situations to understand the mathematical knowledge that might be helpful to secondary mathematics teachers. Responsibilities include: writing and editing situations and participating in conferences to generate ideas and feedback about the situations and the framework of teacher mathematical knowledge generated by the project.

Secondary Mathematics Teacher – 2006-2008

Mascoma Valley Regional High School, Canaan, NH

Taught Integrated Mathematics 1, 2, and 3, Remedial Mathematics 2, Math Matters, and AP Calculus BC

Secondary Mathematics Teacher – 2001-2006

Hopkinton High School, Hopkinton, NH

Taught Integrated Mathematics 2 and 3, Pre-Calculus, and AP Calculus BC

Interim Secondary Physics Teacher – 2000-2001

Woodstock Regional High School, Woodstock, VT

Taught Physics, Advanced Topics in Science Research, Pre-Algebra

Secondary Mathematics Teacher – 1997-2000

Newport Regional Middle/High School, Newport, NH

Taught Algebra 1 and 2, Algebra A/B, Applied Math, Calculus, AP Calculus AB, AP Calculus/AP Physics C

Adjunct Mathematics Instructor – 1996-2001

Springfield College School of Human Services, Manchester, NH

Taught Mathematical Inquiry, the required math course for human service majors.

Secondary Mathematics Teacher – 1985-1987

Winnisquam Regional High School, Tilton, NH

Taught Algebra 1, Geometry, Senior Math, Consumer Math, Computer Programming

PROFESSIONAL ACTIVITIES

- Member of team to write proposal for revised mathematics education curriculum at East Carolina University
- Reviewer for *Journal of Research in Rural Education*.
- Session recorder for group sessions at the Conference on Mathematical Proficiency for Teaching at the Secondary Level in March 2010 and March 2009
- District mathematics representative to Multi-District Task Force for School Improvement. 2006-2008, Mascoma Regional School District
- Member of team to develop competencies for high school mathematics courses. 2006-2007, Mascoma Regional High School
- Co-chair of steering committee for NEASC reaccreditation process. 2004-2006, Hopkinton High School
- Member of committee to rewrite the school's mission statement. 2004-2005, Hopkinton High School
- Member of the visiting NEASC reaccreditation team to Exeter High School, Exeter, NH. Spring 2005.

- Coach of the Intermediate Math team. 2001-2006, Hopkinton High School.
- Member of Assessment committee for reaccreditation. Fall 2000, Woodstock Regional High School.
- Member of Staff Development Committee. 1997-1999, Newport Middle/High School.
- Coach of Math team. 1997-2000, Newport Middle/High School.
- Coordinator of a summer school program for at-risk middle school students. Summer 1999, Newport Middle/High School.
- Member of leadership team for the community response to youth in crisis, 1993-1994.

PUBLICATIONS IN PEER REVIEWED CONFERENCE PROCEEDINGS

- Heid, M. K., Grady, M., Karunakaran, S., Jairam, A., Freeburn, B., & Lee, Y. (2012). A processes approach to mathematical knowledge for teaching: The case of a beginning teacher. *Proceedings of the 34th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. Kalamazoo, MI: Western Michigan University.
- Heid, M.K., Karunakara, S., Kinol, D., Grady, M. (2010). *The Interplay of Beliefs and Processes in the Classroom Mathematics of a Novice Secondary Mathematics Teacher*. *Proceedings of the 32nd annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. Columbus, OH
- Heid, M.K., Karunakara, S., Kinol, D., Grady, M. (2009). The roles of processes in the personal and classroom mathematics of a beginning secondary mathematics teacher. *Proceedings of the conference of the American Educational Research Association*, San Diego, CA.

BOOK CHAPTERS

- Heid, M. K., Grady, M., Jairam, A., Lee, Y., Freeburn, B., & Karunakaran, S. (in press). A processes lens on a beginning teacher's personal and classroom mathematics. In J. Lo, K. R. Leatham, & L. R. Van Zoest (Eds.), *Research Trends in Mathematics Teacher Education*. New York, NY: Springer.

PRESENTATIONS

- Grady, M. (February, 2014). *A Cautionary Tale about Measuring the Conceptions of Mathematics of High School Students*. Paper presented at 2014 Annual Eastern Educational Research Association Conference, Jacksonville, FL.
- Grady, M. (February, 2014). *Viral Math Problems*. Presentation at 2014 Eastern Regional Conference of North Carolina Council of Teachers of Mathematics, Wilmington, NC.
- Grady, M. (February, 2014). *Does This Make Sense? Using the SCOMAS Framework to Examine Students' Conceptions of Mathematics*. Presentation at the Association of Mathematics Teacher Educators Annual Conference, Irvine, CA.
- Grady, M. (April, 2013). *Students' conceptions of mathematics as sensible and related instructional practices: Ramifications for teachers and teacher educators*.

Presentation at the National Council of Teachers of Mathematics Annual Meeting, Denver, CO.

- Grady, M. (January, 2013). *Students' conceptions of mathematics as sensible and related instructional practices: Potential uses of indicators with pre-service mathematics teachers*. Presentation at the Association of Mathematics Teacher Educators Annual Conference, Orlando, FL.
- Grady, M. (2012, October). *Students' conceptions of mathematics as sensible and related instructional practices: a report of initial research findings*. Poster presented at the 34th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. Kalamazoo, MI: Western Michigan University.
- Grady, M. (2012, May). *Students' conceptions of mathematics as sensible and related instructional practices: A status report on doctoral research*. Presentation to the Pennsylvania Association of Mathematics Teacher Educators. Shippensburg, PA: Shippensburg University.
- Heid, M. K., Grady, M., Karunakaran, S., Jairam, A., Freeburn, B., & Lee, Y. (2012, November). *A processes approach to mathematical knowledge for teaching: The case of a beginning teacher*. Paper presented at the 34th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. Kalamazoo, MI.
- Heid, M.K., Grady, M., Karunakaran, S., Jairam, A., Freeburn, B., & Lee, Y. (2012, April). *Influences on mathematical process use by a novice teacher*. Presentation at the National Council of Teachers of Mathematics Research Presession, Philadelphia, PA.
- Heid, M.K., Karunakara, S., Kinol, D., Grady, M. (2010). *Factors Influencing the Role of Mathematical Processes in a Beginning Secondary Teacher's Classroom Teaching*. Paper presented at the conference of the American Educational Research Association, New Orleans, LA
- Heid, M.K., Karunakara, S., Kinol, D., Grady, M. (2010). *The Interplay of Beliefs and Processes in the Classroom Mathematics of a Novice Secondary Mathematics Teacher*. Paper presented at the 32nd Annual Conference of the PME NA, Columbus, OH
- Heid, M.K., Karunakara, S., Kinol, D., Grady, M. (2009). *The roles of processes in the personal and classroom mathematics of a beginning secondary mathematics teacher*. Paper presented by K. Heid at the conference of the American Educational Research Association, San Diego, CA.
- Grady, M. (2007). *How to use graphing calculators for high school mathematics*. Presentation to special educators at Mascoma Regional High School, Canaan, NH.
- Grady, M. (1999). *The use of algebra tiles for introducing factoring of binomials*. Presentation to math teachers at Newport Middle/High School, Newport, NH.
- Grady, M. (1994). *Youth and generational theory*. Presentation to course on community health at Concord Institute of Technology, Concord, NH.

CURRICULUM/COURSE DEVELOPMENT

- Worked with team to develop proposals for revised high school mathematics education courses at ECU.

- Led team to develop curriculum for Math Matters, a course for high school juniors and seniors on the mathematics they encounter in everyday life. Spring 2007. Piloted course during 2007/2008 school year.
- Developed and piloted the Calculus BC program in the Hopkinton School District. 2003.
- Helped to develop and co-taught Advanced Topics in Science Research, a course for honors high school seniors to conduct original scientific research and produce publishable reports of their research. 2000-2001, Woodstock Regional High School.
- Developed and piloted a combined AP Calculus AB/AP Physics C course. 1999-2000, Newport Middle/High School.
- Wrote the curriculum for a required computer literacy course for high school freshmen. 1987, Winnisquam Regional High School.
- Developed and piloted a course in computer programming for high school students. 1985-1987, Winnisquam Regional High School.

HONORS/AWARDS/GRANTS

- STaR Fellowship for early career mathematics educators from the Association of Mathematics Teacher Educators
- Beginning faculty research start-up grant at East Carolina University.
- Graduate Fellowship, Mid-Atlantic Center for Mathematics Teaching and Learning, 2008, Penn State University.
- Awarded the Gindelsberger Memorial Award for Excellence in Biblical Scholarship, May 1990, Methodist Theological School in Ohio.
- Awarded the John and Mary Alford Memorial Scholarship, a full tuition three-year scholarship for a Master's Degree in Divinity, 1986.