

Maureen M. Grady

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Greenville, NC 27858

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EDUCATION

The Pennsylvania State University, University Park, PA

PhD Candidate - Curriculum & Instruction – August 2013

Emphasis in Mathematics Education

Dissertation: Students' Conceptions of Mathematics as Sensible

Advisor: Dr. Fran Arbaugh

Methodist Theological School in Ohio, Delaware, OH

Masters of Divinity - 1990

Studies included education, theology, foreign languages, psychology, administration, history, Biblical studies, and public speaking.

Rhode Island College, Providence, RI

BA in Mathematics - 1985

Concentration in Secondary Education

Cognate in Physics

Cornell University, Ithaca, NY

Major: Computer Engineering [66 credits, 1981-1983]

PROFESSIONAL EXPERIENCE

Assistant Professor - 2013-present

East Carolina University

Graduate Courses:

- Research in Mathematics
- Assessment in the Mathematics Classroom
- Reasoning with Number and Algebra
- Advanced Middle-Level Mathematics Teaching

Undergraduate Courses:

- Geometry and Measurement for Middle and Elementary Teachers
- Teaching of Mathematics in High School
- Teaching of Mathematics in Middle School
- Internship in High School Mathematics Teaching
- Math Methods for Grades P-K-2
- Math Methods for Grades 3-5
- Discrete Mathematics for Secondary Teachers
- Statistics and Probability for Secondary Teachers
- Discrete Mathematics for Middle and Elementary Teachers
- Algebra and Number for Middle and Elementary Teachers
- Basics Concepts of Math II for Elementary Teachers

Teaching Assistant**The Pennsylvania State University**

Supervisor: Dr. E. Francis Arbaugh

- Fall 2010 – Course assistant for Teaching Secondary Mathematics 1
- Spring 2011 – Taught undergraduate course Teaching Secondary Mathematics 1

Supervisor: Dr. Rose Zbiek

- Fall 2009 – Course assistant for Teaching Mathematics in a Technology-Rich Environment

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.
- 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.

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

PUBLICATIONS

Peer Reviewed Journal Articles

- Grady, M.**, Cayton, C., Preston, R. V., & Sinicrope, R. (2019). Co-Planning Strategies for Mentor Teachers and Interns. *Theory & Practice in Rural Education*, 9(2), 79-91.
- Grady, M.** (2018). Students' conceptions of mathematics as sensible: Towards the SCOMAS framework. *The Journal of Mathematical Behavior*, 50, 126-141.
- Hudson, M. E., Rivera, C. J., **Grady, M. M.** (2018). Research on mathematics instruction with students with significant cognitive disabilities – Has anything changed? *Research and Practice for Persons with Severe Disabilities* 43(1), 38-53. DOI: 10.1177/1540796918756601
- Grady, M.**, Cayton, C., Middleton, C., Sinicrope, R., Preston, R., Schwartz, C., Adu-Gyamfi, K., Patterson, S. (2017). Literate Mathematics Educator's Quiz: Updated for a New Century. *Centroid*.
- Grady, M.** (2016). Whatever happened to productive disposition? *Mathematics Teaching in the Middle School* 21(9).

Peer Reviewed Proceedings

- Grady, M., Cayton, C., Preston, R. V., & Middleton, C. (2018). Co-planning with interns: Envisioning new ways to support intern development of effective lesson planning. *Proceedings of the 40th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. Greenville, SC.
- Sears, R., **Grady, M.**, Cayton, C., Brosnan, P., Ahmad, S. & Castro-Minnehan, C. (2018). Implications of a co-planning and co-teaching professional development training for preservice teachers and collaborating teachers. *Proceedings of the Seventh Annual Mathematics Teacher Education Partnership Conference*. Washington, DC: Association of Public Land-grant Universities.
- Cayton, C., **Grady, M.**, Preston, R., Sears, R., Brosnan, P., and Oloff-Lewis, J. (2017). Improving pre-service secondary mathematics clinical experiences through co-planning and co-teaching. In E. Galindo & J. Newton, (Eds.), *Proceedings of the 39th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 1524-1532). Indianapolis, IN: Hoosier Association of Mathematics Teacher Educators
- Sears, R., Brosnan, P., Oloff-Lewis, J., Gainsburg, J., Stone, J., Biagetti, S., Cayton, C., **Grady, M.**, Spencer, C., Riggs, L., & Junor Clarke, P. (2017). Co-teaching mathematics: A shift in paradigm to promote student success. *Proceedings for the Hawaii International Conference on Education*. Honolulu, HI.
- Grady, M.**, Cayton, C., Sinicrope, R., Preson, R., & Funsch, A. (2016). Shifting paradigms for pre-service teachers' internship experiences: Co-teaching as a model for relationships. In M. B. Wood, E. E. Turner, M. Civil, & J. A. Eli (Eds.), *Proceedings of the 38th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 869-872). Tucson, AZ: The University of Arizona.

- Sears, R., Brosnan, P., **Grady, M.**, Cayton, C., Oloff-Lewis, J., Biagetti, S., Stone, J. ...
Gainsburg, J. (2016). A collaborative effort to examine co-planning and co-teaching during clinical experiences. *Proceedings of the 13th International Congress on Mathematical Education (ICME-13)*. Hamburg, Germany: University of Hamburg.
- Cayton, C., **Grady, M.**, Preston, R., Sinicrope, R. (2016) Co-Planning strategies to support intern development. In Lawler, B. R., Ronau, R. N., & Mohr-Schroeder, M. J. (Eds.), *Proceedings of the Fifth annual Mathematics Teacher Education Partnership Conference* (pp. 150-155). Washington, DC: Association of Public Land-grant Universities.
- Grady, M.** (2015). Developing Productive Disposition in Struggling Mathematics Students. *Proceedings of Research Council on Mathematics Learning Annual Meeting*. Las Vegas, NV.
- 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

- Grady M.**, Sears R., Stone J., Biagetti, S. (2020). Using co-planning and co-teaching strategies to transform secondary mathematics clinical experiences. In *The Mathematics Teacher Education Partnership: The Power of a Networked Improvement Community to Transform Secondary Mathematics Teacher Preparation*. Charlotte, NC: Information Age Publishers.
- Sears, R., Brosnan, P., Gainsburg, J., Oloff-Lewis, J., Stone, J., Spencer, C., Riggs, L., Biagetti, S., Cayton, C., **Grady, M.**, Junor Clarke, P., & Andreason, J. (2017). Using improvement science to transform clinical experiences with co-teaching strategies. In L. West & M. Boston (Eds.) *Annual Perspectives in Mathematics Education 2017* (265-273). Reston, VA: National Council of Teachers of Mathematics
- Boone, T., Fratto, C., Lunt, J., Johnson, H., Heid, M. K., **Grady, M.**, S. Karunakaran, (2015). Zero exponents: Situation 12 from the MACMTL-CPTM Situations Project. In *Mathematical Understanding for Secondary Teaching: A Framework and Classroom-Based Situations* (pp. 191-198). Charlotte, NC: Information Age Publishers.
- Shimizu, J., Boone, T., Lunt, J., Fratto, C., Tillema, E., Kilpatrick, J., Donaldson, S., Fox, R., Johnson, H., **Grady, M.**, Konnova, S., Heid, M.K. (2015). Chapter 19 Multiplying

- monomials and binomials. In *Mathematical Understanding for Secondary Teaching: A Framework and Classroom-Based Situations*. Charlotte, NC: Information Age Publishers.
- Reed, S., Conner, A., Heid, M. K., Johnson, H., **Grady, M.**, Kannova, S. (2015). Graphing inequalities containing absolute values: Situation 19 from the MACMTL-CPTM Situations Project. In *Mathematical Understanding for Secondary Teaching: A Framework and Classroom-Based Situations* (pp. 239-248). Charlotte, NC: Information Age Publishers.
- Blume, G., Johnson, H., **Grady, M.**, Kannova, S., & Heid, M. K. (2015). Temperature conversion: Situation 24 from the MACMTL-CPTM Situations Project. In *Mathematical Understanding for Secondary Teaching: A Framework and Classroom-Based Situations* (pp. 283-292). Charlotte, NC: Information Age Publishers.
- Zbiek, R. M., Murray, E., Johnson, H., **Grady, M.**, Konnova, S., Heid, M.K. (2015). Parametric drawings: Situation 26 from the MACMTL-CPTM Situations Project. In *Mathematical Understanding for Secondary Teaching: A Framework and Classroom-Based Situations* (pp. 299-306). Charlotte, NC: Information Age Publishers.
- Zbiek, R. M., Wilson, J., Johnson, H., Heid, M. K., **Grady, M.**, Konnova, S. (2015). Locus of a point on a moving segment: Situation 27 from the MACMTL-CPTM Situations Project. In *Mathematical Understanding for Secondary Teaching: A Framework and Classroom-Based Situations* (pp. 307-316). Charlotte, NC: Information Age Publishers.
- Sullivan, P., Heid, M. K., **Grady, M.**, & Karunakaran, S. (2015). Pythagorean Theorem: Situation 33 from the MACMTL-CPTM Situations Project. In *Mathematical Understanding for Secondary Teaching: A Framework and Classroom-Based Situations* (pp. 351-364). Charlotte, NC: Information Age Publishers.
- Wilson, P., Johnson, H., Shimizu, J., McClintock, E., Zbiek, R. M., Heid, M. K., **Grady, M.**, Konnova, S. (2015). Calculation of sine: Situation 35 from the MACMTL-CPTM Situations Project. In *Mathematical Understanding for Secondary Teaching: A Framework and Classroom-Based Situations* (pp. 377-384). Charlotte, NC: Information Age Publishers.
- Peters, S., McClintock, E., Kinol, D., **Grady, M.**, Johnson, H., Konnova, S., Heid, M. K. (2015). Least squares regression: Situation 41 from the MACMTL-CPTM Situations Project. In *Mathematical Understanding for Secondary Teaching: A Framework and Classroom-Based Situations* (pp. 421-424). Charlotte, NC: Information Age Publishers.
- Tillema, E., Kilpatrick, J., Johnson, H., **Grady, M.**, Konnova, S., Heid, M. K. (2015). Proof by mathematical induction: Situation 43 from the MACMTL-CPTM Situations Project. In *Mathematical Understanding for Secondary Teaching: A Framework and Classroom-Based Situations* (pp. 433-442). Charlotte, NC: Information Age Publishers.
- Heid, M. K., **Grady, M.**, Jairam, A., Lee, Y., Freeburn, B., & Karunakaran, S. (2014). 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.

Published Book Reviews

Grady, M. (2015). [Review of the book *Making number talks matter: Developing mathematical practices and deepening understanding, grades 4–10*, by C. Humphreys and R. Parker]. *Mathematics Teaching in the Middle School* 21(4), 252-253.

GRANTS

Cayton, C., **Grady, M.**, & Vance-Chalcraft, H. (2023-2028, \$1,449,713). [**Co-Principal Investigator**] *Using a Microcredential Model to Prepare Secondary Mathematics and Science Teachers to Meet the Needs of Rural, High-needs Districts*. Robert Noyce Scholarship Program: National Science Foundation.

Strutchens, M. E., Sears, R., & Gobstein, H. (2017-2021; \$1,600,000). [**Consultant**] *Collaborative Research: Attaining Excellence in Secondary Mathematics Clinical Experiences with a Lens on Equity*. Improving Undergraduate STEM Education Grant: National Science foundation.

Grady, M. (2013 – 2016; \$23,658). [Principal Investigator] *Students' Conceptions of Mathematics as Sensible and Related Instructional Practices*. Research Start-Up Grant: East Carolina University, Greenville, NC.

PRESENTATIONS

International Presentations

Sears, R., Oloff-Lewis, J., Riggs, L., Brosnan, P., **Grady, M.**, & Stone, J. (2019, February 7-9). Attending to equity in clinical experiences via co-planning and co-teaching strategies. Presentation at the annual meeting for the Association of Mathematics Teacher Educators. Orlando, FL

Grady, M., Cayton, C., Preston, R., Middleton, C. (2018). *Co-Planning with Interns: Envisioning New Ways to Support Intern Development of Effective Lesson Planning*. Research report for the 40th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. Columbia, SC: University of South Carolina.

Cayton, C., **Grady, M.**, Preston, R., Sears, R., Brosnan, P., & Oloff-Lewis, J. (2017). *Improving pre-service secondary mathematics clinical experiences through co-planning and co-teaching*. Working group at the 39th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. Indianapolis, IN.

Sears, R., Brosnan, P., Oloff-Lewis, J., Gainsburg, J., Stone, J., Biagetti, S., Cayton, C., **Grady, M.**, Spencer, C., Riggs, L., & Junor Clarke, P. (2017). *Co-Teaching Mathematics: A Shift in Paradigm to Promote Student Success*. Research report presentation at the Hawaii International Conference on Education. Honolulu, HI.

Sears, R., Brosnan, P., **Grady, M.**, Cayton, C., Oloff-Lewis, J., Biagetti, S., Stone, J., Andreasen, J., Maynor, J., Hollebrands, K., Spencer, C., Riggs, L., & Gainsburg, J. (2016). *A collaborative effort to examine co-planning and co-teaching during clinical experiences*.

Research report presentation at the 13th International Congress on Mathematical Education (ICME-13). Hamburg, Germany.

Grady, M., Cayton, C., Sinicrope, R., Preson, R., & Funsch, A. (2016). *Shifting paradigms for pre-service teachers' internship experiences: Co-teaching as a model for relationships*. Presentation at 38th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. Tuscon, AZ.

Grady, M. (2012, October). *Students' conceptions of mathematics as sensible and related instructional practices: a report of initial research findings*. Poster presentation 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.

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., 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

National Presentations

Grady, M. & Cayton, C. (2021). *"The best way to grow an intern": Co-planning in internship experiences*. Individual session presented at the 25th Annual Meeting of the Association of Mathematics Teacher Educators.

Sears, R., Stone, J., Junor Clarke, P., Castro-Minnehan, C., Oloff-Lewis, J., & **Grady, M.** (2021). *Using Co-Planning and Co-Teaching During Secondary Mathematics Clinical Experiences To Facilitate Equitable Opportunities*. Brief research session presented at the 25th Annual Meeting of the Association of Mathematics Teacher Educators.

Tschida, C & **Grady, M.** (2020) *Poor Planning Means Poor Instruction: Strategies for Co-planning during Internship*. Presentation at American Association of Colleges for Teacher Education Annual Meeting, Atlanta, GA.

Grady, M. & Cayton, C. (2019). *Building a strong foundation using co-teaching to prepare teacher candidates for student teaching*. Invited speaker at the National Conference on Co-Teaching and Collaboration. Bloomington, MN.

Grady, M. & Cayton, C. (2019). *Using a Variety of Co-Teaching Strategies to Enhance Learning*, Workshop Presented for the Collaborative Research: Attaining Excellence in Secondary Mathematics Clinical Experiences with a Lens on Equity [NSF IUSE Grant] at the University of South Florida. Tampa, FL.

Cayton, C., **Grady, M.**, & Middleton, C. (2019). *Everyone Wins! Co-Planning with Interns and Colleagues to Improve Student Learning*. Presentation at the National Council of Teachers of Mathematics Annual Meeting, San Diego, CA.

- Grady, M.**, Cayton, C., Moye, M., & Preston, R. (2018). *Find ways to talk: How interns and mentors are using co-planning strategies*. Research report presented at the Seventh Annual Mathematics Teacher Education Partnership Conference. Denver, CO.
- Sears, R., **Grady, M.**, **Cayton, C.**, Brosnan, P., & Castro-Minnehan, C. (2018). *Implications of a Co-Planning and Co-Teaching Professional Development Training for Preservice Teachers and Collaborating Teachers*. Research report presented at the Seventh Annual Mathematics Teacher Education Partnership Conference. Denver, CO.
- Grady, M.** & Cayton, C. (2017). *Using Co-Planning to Support Intern Development*. Presentation at the National Conference on Co-Teaching and Collaboration. Bloomington, MN.
- Cayton, C., **Grady, M.**, Preston, R., & Sinicrope, R. (2017). *Co-Planning Strategies to Support Co-Teaching*. Presentation at the National Conference on Co-Teaching and Collaboration. Bloomington, MN.
- Cayton, C., **Grady, M.**, & Baker, R. (2017). *Beginning with the end in mind: Embedding coplanning and co-teaching throughout secondary mathematics education*. Brief research report presented at Mathematics Teacher Education Partnership Annual Meeting. New Orleans, LA.
- Grady, M.**, Cayton, C., & Baker, R. (2017). *How interns and mentors are using co-planning in clinical experiences*. Brief research report presented at Mathematics Teacher Education Partnership Annual Meeting. New Orleans, LA.
- Grady, M.**, Cayton, C., Preston, R., Sinicrope, R., & Funsch, A. (2017). *Co-planning strategies for mentors and interns*. Poster Presentation at the Annual Meeting of the Association of Mathematics Teacher Educators. Orlando, FL.
- Cayton, C., **Grady, M.**, Preston, R., Sinicrope, R. & Funsch, A. (2016). *Co-planning strategies for mentors and interns*. Presentation at the National Conference on Co-Teaching and Collaboration. Bloomington, MN.
- Sears, R., **Grady, M.**, Cayton, C., Brosnan, P., Sinicrope, R., Preston, R., & Strutchen, M. (2016). *Transforming clinical experiences for secondary mathematics with co-teaching strategies*. Presentation at the National Conference on Co-Teaching and Collaboration. Bloomington, MN.
- Sears, R., Oloff-Lewis, J., Biagetti, S., Brosnan, P., Stone, J., **Grady, M.**, Cayton, C., Andreason, J., Gainsburg, J., Spencer, C., Riggs, L., Junor Clarke, P., & Cheng, I. (2016). *Measuring Co-Teaching at various stages of a Plan-Do-Study-Act Cycle*. Presentation at the National Conference on Co-Teaching and Collaboration. Bloomington, MN.
- Cayton, C. & **Grady, M.** (2016). *Co-planning strategies to support intern development*. Brief research report presented at the 2016 Mathematics Teacher Education Partnership Conference. Atlanta, GA.
- Grady, M.** (April, 2016). *Instructional practices related to development of students' conceptions of mathematics*. Presentation at the National Council of Teachers of Mathematics Annual Meeting, San Francisco, CA.

- Grady, M.** (February, 2015). *Developing Productive Disposition in Struggling Mathematics Students*. Poster Presentation at Research Council on Mathematics Learning Conference, Las Vegas, Nevada.
- Thompson, T., Adu-Gyamfi, K., & **Grady, M.** (2015). *The challenges and possibilities of the edTPA*. Presentation at Research Council on Mathematics Learning Conference, Las Vegas, Nevada.
- 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). *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.
- 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 Pre-session, 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.** (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.

State Presentations

- Cayton, C. A., **Grady, M.**, & Reaper, J. (2019). *Co-Planning: Working Strategically with Colleagues*. State Conference of the North Carolina Council Teachers of Mathematics. Greensboro, NC.
- Cayton, C., **Grady, M.**, & Reaper, J. (2018). *Everyone Wins! Co-planning with Interns and Colleagues to Improve Student Learning*. Workshop presented at the State Conference of the North Carolina Council Teachers of Mathematics. Greensboro, NC.

- Cayton, C., **Grady, M.**, & Baker, R. (2017). *Enhance rapport and learning through co-planning*. Workshop presented at the State Conference of the North Carolina Council Teachers of Mathematics. Greensboro, NC.
- Grady, M.** (2016). *Mathematics as the authority in the classroom*. Presentation at Meredith Leadership Institute, Meredith, NC.
- Grady, M.** (2014). *Co-teaching in high school mathematics*. Presentation at 2014 Annual Conference of North Carolina Council of Teachers of Mathematics, Greensboro, NC.
- Grady, M.** (2014). *Students seeing mathematics as sensible*. Presentation at 2014 Eastern Regional Conference of North Carolina Council of Teachers of Mathematics, Wilmington, NC.
- Grady, M.** (2014). *Viral math problems*. Presentation at 2014 Eastern Regional Conference of North Carolina Council of Teachers of Mathematics, Wilmington, NC.
- Grady, M.** (2012). *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.

Local Presentations

- Grady, M.** & Cayton, C. (2022). Helping interns enrich traditional math lessons. Latham Clinical Teacher's Conference. Greenville, NC
- Grady, M.**, & Cayton, C. (2018). *Co-Teaching to Support Intern Development*. Latham Clinical Teacher's Conference. Greenville, NC
- Grady, M.**, Cayton, C., Tschida, C. (2019). *Sharing Our Co-Teaching Experiences*. Latham Clinical Teacher's Conference. Greenville, NC
- Cayton, C. & **Grady, M.** (2018). *Co-planning with multi-classroom teachers and co-teachers*. Presentation for Pitt County Schools DEEL Grant. Greenville, NC.
- Grady, M.**, & Cayton, C. (2017). *Using Co-Planning to Support Your Intern*. Latham Clinical Teacher's Conference. Greenville, NC.
- Grady, M.** (2017). *"Because I Said So" and Other Answers to "Why" Questions*. Eastern Regional Conference of the North Carolina Teachers of Mathematics. Wilmington, NC.
- Cayton, C., **Grady, M.**, & Baker, R. (2017). *Co-Teaching & Co-Planning in High School Mathematics Internships*. Eastern Regional Conference of North Carolina Teachers of Mathematics. Wilmington, NC.
- Cayton, C., **Grady, M.**, & Middleton, C. (2017). *Co-planning to facilitate intern development*. Presentation at Spring 2017 Latham Clinical Teachers Conference. Greenville, NC.
- Cayton, C. & **Grady, M.** (2016). *Co-planning strategies to support clinical teachers and interns*. Presentation at the ECU University Supervisors Training. Greenville, NC.
- Cayton, C. **Grady, M.**, Middleton, C. & Funsch, A. (2016). *Strategies for co-planning with your*

intern. Spring 2016 Latham Clinical Teachers Conference. Greenville, NC.

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.

HONORS/AWARDS

STaR Fellowship for early career mathematics educators from the Association of Mathematics Teacher Educators

Graduate Fellowship, Mid-Atlantic Center for Mathematics Teaching and Learning, 2008, Penn State University.

Gindelsberger Memorial Award for Excellence in Biblical Scholarship, May 1990, Methodist Theological School in Ohio.

John and Mary Alford Memorial Scholarship, a full tuition three-year scholarship for a Master's Degree in Divinity, 1986.

PROFESSIONAL SERVICE

Workshops/Professional Development

- Cayton, C. & Grady, M. (2021, Oct). *Meaningful Mentorship Using Co-Teaching and Co-Planning*. Hybrid Workshop presented for Auburn University and East Carolina University. Auburn, AL & Greenville, NC.
- Grady, M. & Cayton, C. (2021, June). *Meaningful Mentorship Using Co-Teaching and Co-Planning*. Virtual Workshop presented for the University of Hawaii at Manoa. Manoa, HI.
- Cayton, C. & Grady, M. (2021, March). *Co-Planning During Your Internship*. Noyce Symposium presented virtually at Columbus State University. Columbus, GA.
- Grady, M., & Cayton, C. (2021). *Co-Planning for Mathematics Instruction*. Virtual Workshop presented to Prospective Teachers of Mathematics Association at Appalachian State. Boone, NC.
- Cayton, C., Grady, M., Brosnan, P., Strutchens, M., Stone, J. & Sears, R. (2019). *Using co-planning and co-teaching to support equitable teaching practices*. Workshop presented for the Collaborative Research: Attaining Excellence in Secondary Mathematics Clinical Experiences with a Lens on Equity [NSF IUSE Grant] at the University of South Florida. Tampa, FL.
- Cayton, C. & Grady, M. (2018). *Co-planning & co-teaching*. Workshop for Mathematics Education Clinical Teachers and Teacher Candidates at Auburn University. Auburn, AL.
- Cayton, C. & Grady, M. (2018). *Co-planning with multi-classroom teachers and co-teachers*. Workshop for South Central High School. Winterville, NC.
- Cayton, C. & Grady, M. (2018). *Co-planning with multi-classroom teachers and co-teachers*. Workshop for Pitt County Schools DEEL Grant. Greenville, NC.
- Grady, M., Cayton, C., Brosnan, P, & Sears, R. (2018). *Co-planning & co-teaching (CPCT): An apprenticeship model for learning*. Workshop presented for the Collaborative Research: Attaining Excellence in Secondary Mathematics Clinical Experiences with a Lens on Equity [NSF IUSE Grant] at the University of South Florida. Tampa, FL.
- Cayton, C. & Grady, M. (2016). *Co-planning/Co-teaching as a model to build relationships and support pre-service teachers' during secondary internship experiences*. Workshop Presented for the PRISMS Grant, Residency in Secondary Education (RiSE) Program at the University of California at Chico. Chico, CA.
- Grady, M., Cayton, C., Brosnan, P, & Sears, R. (2016). *Co-planning/Co-teaching during internship experiences in middle school mathematics and science*. Workshop Presented for the HELIOS Project at the University of South Florida. Tampa, FL.
- Cayton, C., Grady, M., Brosnan, P, & Sears, R. (2015). *Co-planning/Co-teaching as a model to build relationships and support pre-service teachers' during internship experiences in*

middle school mathematics and science. Workshop Presented for the HELIOS Project at the University of South Florida. Tampa, FL.

Reviewer of Research

Association of Mathematics Teacher Educators
Psychology of Mathematics Education – North America Chapter
Strand Leader 2021, 2022
Journal of Mathematical Behavior
Journal of Research in Rural Education
Mathematics Teaching in the Middle School
School Science and Math
Theory and Practice in Rural Education

Other Service

Treasurer of the Co-Teaching TAG of the American Association of Colleges for Teacher Education 2020 - Present
Organizer for East Carolina Math Teacher's Circle 2018 - Present
Eastern Region Vice President for Colleges and Universities of NCCTM 2019 - 2021
Regional Coordinator for Association of Mathematics Teacher Educators Affiliates Connections Committee (Southeast Region 1) 2015 - 2018
Chair of East Carolina University College of Education Planning Committee 2015-2018
Interim Treasurer of NC Association of Mathematics Teacher Educators 2015-2016

Professional Organizations

Association of Mathematics Teacher Educators	2012-Present
Association of Mathematics Teacher Educators - NC	2015-Present
National Council Teachers of Mathematics	2008-Present
North Carolina Council Teachers of Mathematics	2013-Present
North American Chapter of the International Group for the Psychology of Mathematics Education	2010-Present
Research Council on Mathematics Learning	2015-Present