

CURRICULUM VITAE

DREW POLLY

University of North Carolina at Charlotte
Department of Reading and Elementary Education, COED 370
9201 University City Blvd., Charlotte, NC 28223

EDUCATION AND PROFESSIONAL CREDENTIALS

<u>Degrees</u>	<u>Date</u>	<u>College/University</u>	<u>Major</u>
Ph.D.	2006	University of Georgia	Instructional Technology
M.Ed.	2001	Old Dominion University	Curriculum and Instruction
B.S.	1999	College of William & Mary	Elementary Education, Kinesiology

Licenses

Virginia Postgraduate Professional Teaching License, K-8

PROFESSIONAL EXPERIENCE

<u>Dates</u>	<u>Institution</u>	<u>Title/responsibilities/nature of work</u>
August, 2006-present	UNC Charlotte	Assistant Professor, Co-Director Professional Development Schools
August, 2002- August, 2006 June, 2000-2002, June 2007	University of Georgia College of William & Mary, Tidewater Mathematics Institute	Graduate Research Assistant Professional Development Facilitator
April, 1999-June, 2002	Williamsburg-James City County Schools	Elementary School Teacher, Mathematics Curriculum Facilitator

TEACHING/CURRICULUM DEVELOPMENT

Courses taught

Undergraduate Courses

Undergraduate Courses taught at UNC Charlotte

Spring 2011	ELED 3111	Instructional Design and Technology Integration for Elementary School Learners (Double section)
Fall 2010	ELED 4220	Integrated Curriculum for Elementary School Learners
Spring 2010	ELED 3110	Instructional Design and Technology Integration for Elementary School Learners, (Double section)
Spring 2010	ELED 3800	Independent Study in Elementary Education (1 student)
Fall, 2009	ELED 3110	Instructional Design and the Use of Technology with Elementary School Learners
Fall, 2009	ELED 3800	Independent Study in Elementary Education (1 student)
Spring, 2009	ELED 3110	Instructional Design and the Use of Technology with Elementary School Learners
Fall, 2008	ELED 3110	Instructional Design and the Use of Technology with Elementary School Learners
Spring, 2008	ELED 4420	Student Teacher Seminar
Fall, 2007	ELED 3110	Instructional Design and the Use of Technology with Elementary School Learners
Summer, 2007	ELED 3110	Instructional Design and the Use of Technology with Elementary School Learners

Spring, 2007	ELED 3110	Instructional Design and the Use of Technology with Elementary School Learners
Fall, 2006	ELED 3110	Instructional Design and the Use of Technology with Elementary School Learners

Undergraduate Courses taught at the University of Georgia

May, 2003	EDIT 2000	Introduction to Computers in Education (Co-instructor)
Spring, 2003	EMAT 3410	Mathematical Concepts for Elementary Teachers (Teacher's assistant)

Graduate Courses

Graduate Courses taught at the UNC Charlotte

Spring, 2011	ELED 6000	Mathematical Modeling: K-5 Leadership (now ELED 6316)
Fall, 2010	ELED 5301	Assessing, Modifying, and Integrating Mathematics Instruction (2 sections)
Spring, 2010	ELED 6470	Student Teaching Seminar
Fall, 2009	ELED 5301	Assessing, Modifying, and Integrating Mathematics Instruction
Summer, 2009	ELED 5100	Intensive Orientation to Teaching
Spring, 2009	ELED 5100	Intensive Orientation to Teaching (Teach for America Section)
	ELED 5301	Assessing, Modifying, and Integrating Mathematics Instruction
Fall, 2008	ELED 5301	Assessing, Modifying, and Integrating Mathematics Instruction, 2 sections: 1 section face-to-face, 1 section online
Spring, 2008	ELED 5100	Intensive Orientation to Teaching (Teach for America Section)
	ELED 5301	Assessing, Modifying, and Integrating Mathematics Instruction
Fall, 2007	ELED 5301	Assessing, Modifying, and Integrating Mathematics Instruction, 2 sections
Spring, 2007	ELED 5301	Assessing, Modifying, and Integrating Mathematics Instruction
Fall, 2006	ELED 5301	Assessing, Modifying, and Integrating Mathematics Instruction

Graduate Courses taught at the University of Georgia

Fall, 2005	EDIT 7500	Technology Enhanced Learning Environments (Co-instructor), 1 section
Spring, 2004	EDIT 6210	Designing Technology Enhanced Learning Environments (Co-instructor), 1 section

Curriculum and course development

North Carolina Elementary Mathematics Add-on License/ UNC Charlotte Graduate Certificate in Elementary School Mathematics

Member of state-wide program development team (2008-present)

Co-developer of ELED 6316: Mathematical Modeling: K-5 Leadership Course (2010-2011)

Modified courses from face-to-face to online courses (2010-present)

ELED 6311: Number Systems & Operations: K-5 Mathematical Tasks

ELED 6312: Geometry & Spatial Visualization: K-5 Assessment

ELED 6313: Algebraic Reasoning: K-5 Discourse & Questioning

ELED 6314: Rational Numbers & Operations: K-5 Learning Trajectories

ELED 6315: Data Analysis and Measurement: K-5 Classroom Interactions

ELED 6316: Mathematical Modeling: K-5 Leadership

B.A. in Elementary Education

ELED 3111- Instructional Design and Technology Integration for Elementary School Learners (2009-2010)

ELED 4111- Designing Technology-Rich Learning Environments with Elementary School Learners, (2009-2010)
M.A.T. Program in Elementary Education
Developed ELED 5301 (online)- Assessing, Modifying, and Integrating Mathematics Instruction, 2009
Modified ELED 5301- Assessing/Modifying/Integrating Mathematics Instruction to be a hybrid course, 2007
Ph.D. Program in Curriculum and Instruction with a concentration in Elementary Education
ELED 8143: Pro-seminar in Elementary Education
ELED 8146: Critical issues in Professional Development and Teacher Learning

Advising/student-directed scholarship

Dissertation Committees

Jamal Crawford, Committee Member, Ed.D. in Educational Leadership, in progress
Jennifer McGee, Committee Member, Ed.D. in Educational Leadership, in progress
Christian Northrup, Committee Member, Ph.D. in Curriculum and Instruction: Mathematics Education strand, in progress
Alicia Saunders, Committee Member, Ph.D. in Special Education, in progress
Henry Neale, Committee Member, Ph.D. in Curriculum and Instruction: Mathematics Education strand, completed, Summer, 2011

Master's Project Committees (M.Ed. and MAT in Elementary Education)

Chair- 21 students completed
Committee member- 13 students completed

Advising

B.A. in Elementary Education- 12 advisees graduated, 0 in progress
MAT in Elementary Education- Advisee of Teach for America Elementary Education corps members, 115 students, (2007-2009)

RESEARCH

(*: data-based)

Publications

Edited Books

Polly, D., Mims, C., & Persichitte K. (Eds.). (in press). *Creating technology-rich teacher education programs*. Hershey, PA: IGI Global.

Book Chapters (#: peer-review)

#Orrill, C. H. & Polly, D. (in press). Technology integration in mathematics: A model for integrating technology through content development. In D. Polly, C. Mims, & K. Persichitte (Eds.), *Creating technology-rich teacher education programs*. Hershey, PA: IGI Global.

#Good, A. & Polly, D. (in press). Attempting to bridge theory to practice: Preparing for 'moving day' with teleobservation in social studies methods. In D. Polly, C. Mims, & K. Persichitte (Eds.), *Creating technology-rich teacher education programs*. Hershey, PA: IGI Global.

#Taylor, D.B., Hartshorne, R., Eneman, S., Wilkins, P., & Polly, D. (in press). Lessons learned from the Implementation of a Technology-focused Professional Learning Community. In D. Polly, C. Mims, & K. Persichitte (Eds.), *Creating technology-rich teacher education programs*. Hershey, PA: IGI Global.

- #Polly, D., Mims, C., & McCombs, B. (2011). Designing technology-rich professional development. In I. L. Chen & D. McPheeters (Ed.), *Educational technology integration in urban schools*, (pp. 236-243). Hershey, PA: IGI Global. DOI: 10.4018/978-1-61350-492-5.ch033
- #Popejoy, K., & Polly, D. (2011). Leveraging technology to develop pre-service teachers' TPACK in mathematics and science methods courses. In I. L. Chen & D. McPheeters (Ed.), *Educational technology integration in urban schools*, (pp. 170-182). Hershey, PA: IGI Global. DOI: 10.4018/978-1-61350-492-5.ch027.
- *#Polly, D. (2010). Preparing teachers to integrate technology effectively: The case of higher-order thinking skills (HOTS). In S. D'Augustono (Ed.) *Adaptation, resistance and access to instructional technologies: Assessing future trends in education*, (pp. 395-409). Hershey, PA: IGI Global.
- *#Polly, D., Mims, C., Inan, F., & Shepherd, C. E. (2010). Evaluating the impact of PT3 projects focused on methods courses and field experiences. In W. Heinecke & P. Adamy (Ed.), *Evaluation of preparing tomorrow's teachers to teach with technology grants*, (pp. 87-109). Charlotte, NC: Information Age Publishing.
- #Polly, D. (2009). Employing technology to create authentic learning environments. In H. Song (Ed.), *Distance learning technology, Current instruction, and the future of education: Applications of today, practices of tomorrow*, (pp. 83-94). Hershey, PA: IGI Global.
- #Polly, D., & Mims, C. (2009). Designing professional development to support teachers' TPACK and integration of Web 2.0 technologies. In T. Kidd & I. Chen (Eds.), *Wired for learning: Web 2.0 guide for educators*, (pp. 301-316). Charlotte, NC: Information Age Publishing.
- #Polly, D., & Moore, J. A. (2008). The great divide: Preparing pre-service teachers to integrate technology effectively. In M. Orey, V.J. McClendon, R.M. Branch (Eds.), *2008 Educational media and technology yearbook*, (pp. 17-31). Santa Barbara, CA: Greenwood.
- *#Polly, D. & Shepherd, C. E. (2007). Preservice teachers' perceptions of appropriate technologies. In T. Kidd & H. Song (Eds.), *Handbook of research on instructional systems and technology*, (pp. 198-215). Hershey, PA: IGI Global.

Articles in Refereed Journals

- *Polly, D. (in press). Supporting mathematics instruction with an expert coaching model. *Mathematics Teacher Education and Development*.
- *Polly, D., Margerison, A., & Piel, J.A. (in press). Kindergarten teachers' orientations to teacher-centered and student-centered pedagogies and their influence on their students' understanding of addition. *Journal of Research in Childhood Education*.
- *McGee, J., Wang, C., & Polly, D. (in press). Guiding teachers in the use of a Standards-Based mathematics curriculum: Teacher perceptions and subsequent instructional practices after an intensive professional development program. *School Science and Mathematics Journal*.
- *White, R. B., Polly, D., & Audette, R. H. (in press). A case analysis of an elementary school's implementation of Response to Intervention. *Journal of Research in Childhood Education*.
- *Polly, D. (2011). Teachers' learning while constructing technology-based instructional resources. *British Journal of Educational Technology*, 42(6), 950-961. doi: 10.1111/j.1467-8535.2010.01161.x

- *Polly, D. (2011). Developing teachers' technological, pedagogical, and content knowledge (TPACK) through mathematics professional development. *International Journal for Technology in Mathematics Education*, 18(2), 83-96.
- *Polly, D. (2011). Examining teachers' enactment of technological pedagogical and content knowledge (TPACK) in their mathematics teaching after technology integration professional development. *Journal of Computers in Mathematics and Science Teaching*, 30(1), 37-59.
- Polly, D. (2011). Technology to develop algebraic reasoning. *Teaching Children Mathematics*, 17(8), 473-478.
- *Polly, D. & Hannafin, M. J. (2011). Examining how learner-centered professional development influences teachers' espoused and enacted practices. *Journal of Educational Research*, 104, 120-130.
- Polly, D. & Hannafin, M. J. (2010). Reexamining technology's role in learner-centered professional development. *Educational Technology Research and Development*, 58(5), 557-571.
doi:10.1007/s11423-009-9146-5.
- Polly, D., McGee, J. R., & Martin, C. S. (2010). Employing technology-rich mathematical tasks to develop teachers' technological, pedagogical, and content knowledge (TPACK). *Journal of Computers in Mathematics and Science Teaching*, 29(4), 455-472.
- *Polly, D., Mims, C., Shepherd, C. E., & Inan, F. (2010). Evidence of impact: Transforming teacher education with preparing tomorrow's teachers to teach with technology (PT3) grants. *Teaching and Teacher Education: An International Journal of Research and Studies*, 26, 863-870.
doi:10.1016/j.tate.2009.10.024
- Hannafin, M. J., Shepherd, C. E., & Polly, D. (2010). Video assessment of classroom teaching practices: Lessons learned, problems, and issues. *Educational Technology*, 50(1), 32-37.
- *Polly, D. & Ausband L. (2009). Developing higher order thinking skills through WebQuests. *Journal of Computing in Teacher Education*, 26(1), 29-34.
- Polly, D. & Brantley-Dias, L. (2009). TPACK: Where do we go now? *Tech Trends: Linking Research & Practice to Improve Learning*, 53(5), 46-47.
- Polly, D., & Ruble, L. (2009). Learning to share equally. *Teaching Children Mathematics*, 15(9), 558-565.
- *Glazer, E. M., Hannafin, M. J., Polly, D., & Rich, P. J. (2009). Factors and interactions influencing technology integration during situated professional development in an elementary school. *Computers in Schools*, 26(1), 21-39.
- *Polly, D. (2008). Modeling the influence of calculator use and teacher effects on first grade students' mathematics achievement. *Journal of Technology in Mathematics and Science Teaching*, 27(3), 245-263.
- *Polly, D. (2006). Participants' focus in a learner-centered technology-rich mathematics professional development program. *The Mathematics Educator*, 16(1), 14-21.
- *Bleich, L., Ledford, S. D., Orrill, C. H., & Polly, D., (2006). An analysis of the use of graphical representation in participants' solutions. *The Mathematics Educator*, 16(1), 22-34.
- *Mims, C., Polly, D., Shepherd, C., Inan, F. (2006). Examining PT3 projects designed to improve preservice education. *Tech Trends*, 50(3), 17-24.

Erbas, A., Ledford, S., Orrill, C., Polly, D. (2005). Promoting problem solving across geometry and algebra by using technology. *The Mathematics Teacher*, 98 (9), 599-603.

Erbas, A., Ledford, S., Orrill, C. H., & Polly, D., (2004). Engaging students through technology. *Mathematics Teaching in the Middle School*, 9, 300-305.

Invited Articles and Book Chapters

Polly, D., Orrill, C.H., & Lehew, A. (in preparation). Rational Numbers and Proportions: Analyzing the Critical Areas of the Common Core State Standards for Mathematics in Grades 5-6. Invited article in *Teaching Children Mathematics*.

Polly, D. & Little, M. (in press). Leveraging professional learning communities and collaborative team meetings to address student achievement in mathematics. *PDS Partners*.

Dacey, L. & Polly, D. (in press). The *Common Core State Standards for Mathematics*: Examining the big picture. Invited article in *Teaching Children Mathematics*.

Polly, D. (2011). Developing Students' Higher-Order Thinking Skills (HOTS) through Technology-Rich Tasks: The Influence of Technological Pedagogical and Content Knowledge (TPACK). Invited article in *Educational Technology*, 51(4), 20-26.

*Polly, D., Grant, M. M., & Gikas, J. (2011). Supporting technology integration in higher education through professional development. In D. W. Surry, J. Stefurak, & R. M. Gray, Jr. (Eds.), *Infrastructure and issues for Technology in Higher Education* (p. 58-71). Hershey, PA: Information Science Reference.

Mims, C., Polly, D., & Grant, M. M. (2009). Technology integration in K-12. In M. K. Barbour & M. Orey (Eds.), *The Foundations of Instructional Technology*. Retrieved from <http://projects.coe.uga.edu/itFoundations/>

Polly, D. (2008). The AECT internship experience: An example of authentic learning. Invited article in *Tech Trends: Linking Research & Practice to Improve Learning* 52(5), 14.

Non-refereed journal articles

Wood, K., Jones, J., Stover, K. A., & Polly, D. (in press). STEM Literacies: Models and Methods of Integrating Reading, Writing and Technology in Science and Mathematics. *Middle School Journal*.

Polly, D. (2007). Blogs: Turning technology-driven social fads into an educational tool. *Virginia Society for Technology in Education Journal*, 21(4).

Other Publications

Technical Reports

* Hannafin, M. J., Hannafin, K., Kim, M., Masland, L., Polly, D., Shepherd, C. E., & West, R. (2005). Summary of Online Pilot Survey. Report submitted to the Georgia Department of Education in partial fulfillment of the evaluation of the GA-DOE Title II-D project.

Book reviews

Polly, D. (2010). Mathematics and science for a change: Designing, implementing and sustaining high-quality professional development. *Teaching Children Mathematics*, 16(9), 565.

Polly, D. (2009). JRME monograph number 14. Journal for research in mathematics education: A study of teaching multiple lenses, multiple views. *Teaching Children Mathematics*, 15(7), 445-446.

Reviews of Curriculum Materials

Association of Mathematics Teacher Educators, Teacher Education Material Database (TE-MAT, <http://www.te-mat.org/>)

Assessing Number Concepts: Kathy Richardson

Developing Mathematical Ideas: Building a Systems of Tens

Developing Mathematical Ideas: Reasoning Algebraically About Operations

Developing Mathematical Ideas: Examining Features of Shape

Developing Mathematical Ideas: Measuring Space in One, Two and Three Dimensions

Developing Mathematical Ideas: Pattern, Functions and Change

Developing Mathematical Ideas: Working with Data

English Language Learners in the Mathematics Classroom

Mathematics and Science for a Change: How to Design, Implement, and Sustain High-Quality Professional Development

One Minute Mysteries: 65 Short Mysteries You Solve with Math!

Technological resources

Polly, D. (2009). Ele-math: Resources for teaching elementary mathematics. <http://elemath.pbworks.com>

Conference Proceedings (* = data-based)

*Polly, D. (2009, September). Examining the influence of professional development on elementary mathematics teachers' enacted, espoused and intended practices. In S. L. Swars, D. W. Stinson, & S. Lemons-Smith (Eds.) (2009). *Proceedings of the 31st Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 1042-1050). Atlanta, GA: Georgia State University.

*Polly, D. (2009, September). District-wide implementation of standards-based mathematics instruction. In S. L. Swars, D. W. Stinson, & S. Lemons-Smith (Eds.) (2009). *Proceedings of the 31st Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 1113). Atlanta, GA: Georgia State University.

*Polly, D. & Barbour, M. (2009, March). Developing teachers' technological, pedagogical, and content knowledge in mathematics. In C. Crawford et al. (Eds.), *Proceedings of Society for Information Technology and Teacher Education International Conference 2009* (pp. 4128-4131). Chesapeake, VA: AACE.

*Polly, D., Lock, C. & Bissell, B. (2007, September). Mathematical understanding: Analyzing student thought processes while completing fraction tasks. In D. K. Pugalee, A. Rogerson & A. Schinck (Eds.). *Proceedings of the Ninth International Conference of the Mathematics Education into the 21st Century Project: Mathematics Education in a Global Community* (pp. 535-538). Charlotte, NC: University of North Carolina at Charlotte.

*Polly, D. (2007, September). Examining the influence of learner-centered professional development on elementary mathematics' teachers enacted and espoused practices. In D. K. Pugalee, A. Rogerson & A. Schinck (Eds.). *Proceedings of the Ninth International Conference of the Mathematics Education into the 21st Century Project: Mathematics Education in a Global Community* (pp. 539-543). Charlotte, NC: University of North Carolina at Charlotte.

*Polly, D., & Griffin, T. (2004, June). The internet's impact on teacher education: Implications for online professional development courses for teachers. In L. Cantoni & C. McLoughlin (Eds.), *Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2004* (pp. 3161-3166). Chesapeake, VA: AACE.

- *Polly, D., Orrill, C.H. Ledford, S.D., & Erbas, A.K. (2004, June). Technology-enhanced math investigations: Facilitating the design and implementation of TEMIs into the classroom. In L. Cantoni & C. McLoughlin (Eds.), *Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2004* (pp. 3157-3160). Chesapeake, VA: AACE.
- *Keller, M., & Polly, D. (2004, June). Enhancing the teacher-student connection: Innovations in professional development to improve student achievement. In L. Cantoni & C. McLoughlin (Eds.), *Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2004* (pp. 3357-3362). Chesapeake, VA: AACE.
- *Polly, D., Orrill, C.H., Erbas, A.K., & Ledford, S.D. (2004, March). Teacher growth through technology-enhanced mathematical investigations: The InterMath experience. In R. Ferdig et al. (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2004* (pp. 4505-4508). Chesapeake, VA: AACE.
- *Shepherd, C., Polly, D., Rich, P., & Thomas, G. (2004, March). Integrating e-portfolios into teacher education programs. In R. Ferdig et al. (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2004* (pp. 249-252). Chesapeake, VA: AACE.
- *Polly, D. (2003). Anchoring student learning in technology-rich authentic environments. In D. Lassner & C. McNaught (Eds.), *Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2003* (pp. 1834-1838). Chesapeake, VA: AACE.
- *Polly, D. (June, 2003). Infusing cognitive principles in the development of instructional activities. In D. Lassner & C. McNaught (Eds.), *Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2003* (pp. 1469-1470). Chesapeake, VA: AACE.
- *Polly, D., & Hannafin, R.D. (June, 2003). Employing dynamic software to solve open-ended investigations. In D. Lassner & C. McNaught (Eds.), *Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2003* (pp. 1466-1468). Chesapeake, VA: AACE.

Works in progress

Submitted/ under review

- *Polly, D., Orrill, C.H. (under review). Examining how technology influences teachers' understandings during mathematics professional development.
- *Polly, D., Hopper, C.J., Frazier, J.W., Chapman, M.W., & Rock, T.C. (under review). Examining the influence of a support seminar on pre-service teachers' preparedness for student teaching.
- Polly, D. (under review). Examining how professional development influences students' evidence of mathematical understanding.
- Polly, D., Mraz, M., & Algozzine, R. (under review). A framework for elementary school mathematics coaching.
- *Polly, D., Wang, C., Lambert, R., McGee, J., & Martin, C.S. (under review). Examining the influence of a curriculum-based elementary mathematics professional development program.
- Orrill, C.H., & Polly, D. (under review). Digital representations as tools for communication in mathematics education.

Erbas, A.K., Ledford, S.D., Orrill, C.H., & Polly, D. (under review). Exploring patterns with spreadsheets.

Manuscripts in preparation

*Polly, D., Wang, C., McGee, J.R., Lambert, R., & Pugalee, D.K. (in preparation). The association between teacher beliefs and practices and student learning in mathematics.

*Polly, D., Pugalee, D.K., & Neale, H. (in preparation). Examining the influence of task-based professional development on teachers' beliefs, practices, and content knowledge.

*Polly, D. (in preparation). The influence of standards-based curriculum on students' number sense.

*Polly, D. (in preparation). Interactive whiteboards in elementary mathematics classrooms: Examining use, questioning, and higher-order thinking.

*Polly, D. (in preparation). Examining the influence of co-planning on teachers' instruction and students' achievement.

Polly, D., Yantis, T. & Yantis, T. (in preparation). How can we fill it? Shape puzzles in first and second grade.

Polly, D., Banks, K., & Dooley, T.M. (in preparation). Learning to develop rigorous common assessments.

Conference Presentations (# = refereed presentations, *=data-based)

Invited Presentations

Polly, D. (2011, November). Virtual Manipulatives in Grades 3-5. Invited presentation at the 15th Annual William & Mary Mathematics Day. Williamsburg, VA.

Polly, D. (2011, November). Fractions and Problem Solving. Invited presentation at the 15th Annual William & Mary Mathematics Day. Williamsburg, VA.

Polly, D. (2011, June). Common Core State Standards: Mathematics. Featured Session at the Martin Institute for Teaching and Learning Conference: Memphis, TN.

Polly, D. (2011, June). Common Core State Standards: Literacy. Featured Session at the Martin Institute for Teaching and Learning Conference: Memphis, TN.

National/International Presentations

*#Polly, D., Wang, C., McGee, J. R., & Lambert, R. G. (2011, April). *Evaluation of a mathematics professional development program focused on supporting standards-based curriculum implementation*. Concurrent session presentation given at the 2011 Annual Meeting of the American Educational Research Association: New Orleans, LA.

*#Polly, D. (2011, April). *Teachers' learning while constructing technology-based instructional resources*. Roundtable presentation given at the 2011 Annual Meeting of the American Educational Research Association: New Orleans, LA.

*#Wang, C., Lambert, R. G., McGee, J. R., & Polly, D. (2011, April). *Implementation of a standards-based mathematics curriculum in elementary classrooms: A program evaluation perspective*. Roundtable presentation given at the 2011 Annual Meeting of the American Educational Research Association: New Orleans, LA.

- Polly, D. (2011, April). *Creating technology-rich teacher education programs: Directions for future research*. Invited concurrent session presentation given at the 2011 Annual Meeting of the American Educational Research Association: New Orleans: LA.
- Polly, D., Frazier, J. W., Hopper, C. J., McCabe, M., Cox, C., & Little, M. (2011, March). *Engaging university faculty in PDS partnerships*. Concurrent session presentation given at the 2011 National Association for Professional Development Schools Conference: New Orleans, LA.
- *Frazier, J. W., Hopper, C. J., & Polly, D. (2011, March). *Supporting student teachers through the project supervisor model*. Concurrent session presentation given at the 2011 National Association for Professional Development Schools Conference: New Orleans, LA.
- Polly, D. & Little, M. (2011, March). *Leveraging professional learning communities and collaborative team meetings to address student achievement*. Concurrent session presentation given at the 2011 National Association for Professional Development Schools Conference: New Orleans, LA.
- *#Polly, D. & McGee, J.R. (2010, October). *Examining teachers' enactments of standards-based mathematics curricula: The influence of professional development*. Concurrent session presentation given at the School Science and Mathematics Association Annual Convention: Fort Myers, Florida.
- *#Polly, D. (2010, May). *Developing TPACK in mathematics instruction*. Poster presentation given at the 2010 Annual Meeting of the American Educational Research Association: Denver, CO.
- *#Polly, D. (2010, May). *Integrating technology and higher-order thinking skills (HOTS) into instruction*. Roundtable presentation given at the 2010 Annual Meeting of the American Educational Research Association: Denver, CO.
- *Polly, D. (2010, March). *Leveraging a PDS partnership to support elementary mathematics instruction*. Concurrent session presentation given at the 2010 National Association of Professional Development Schools Annual Conference: Orlando, FL.
- *Hopper, C., Chapman, M., Frazier, J. & Polly, D. (2010, March). *Making a difference through support seminars for teacher candidates*. Concurrent session presentation given at the 2010 National Association of Professional Development Schools Annual Conference: Orlando, FL.
- *Polly, D. & Bissell, B. (2010, January). *Content development for mathematical investigations: Findings from Year One*. Concurrent session presentation given at the U.S. Department of Education Mathematics Science Partnerships Conference: Washington, D.C.
- *#Polly, D. (2009, September). *Examining the impact of learner-centered professional development on elementary mathematics teachers enacted and espoused practices*. Concurrent session presentation given at the 2009 Psychology of Mathematics Education-North America Conference: Atlanta, GA.
- *#Polly, D. (2009, September). *District-wide implementation of standards-based mathematics curriculum*. Poster presentation given at the 2009 Psychology of Mathematics Education-North America Conference: Atlanta, GA.
- *#Polly, D. (2009, September). *Supporting teacher induction through a mentorship model*. Presentation given to the Teacher Induction working group at the 2009 Psychology of Mathematics Education-North America Conference: Atlanta, GA.
- *Polly, D., Frazier, J., & Hopper, C. (2009, March). *Supporting student teachers through a PDS seminar*.

Concurrent session presentation given at the 2009 Professional Development School National Conference: Daytona Beach, FL.

Polly, D. & Dooley, T. (2009, March). *Supporting mathematics teaching and learning through a PDS partnership*. Concurrent session presentation given at the 2009 Professional Development School National Conference: Daytona Beach, FL.

#Polly, D., Mims, C., Thomas, G., Rieber, L., Amankwatia, T., Land, K. (2008, November). *Technology integration showcase: Strategies and tools worthy of discussion*. Concurrent session presentation given at the 2008 meeting of the Association for Educational Communications and Technology: Orlando, FL.

#Polly, D., Duffield, J., Duffy, F., Dias, L., Mims, C., & Schoffner, M. (2008, November). *Shaping Teacher Education for the 21st Century: Where are we headed?* Panel presentation given at the 2008 meeting of the Association for Educational Communications and Technology: Orlando, FL.

#Polly, D. & Ausband, L. (2008, November). *Developing TPCCK through professional development: The case of Webquests*. Poster presentation given at the 2008 meeting of the Association for Educational Communications and Technology: Orlando, FL.

*#Polly, D. (2008, October). *Supporting standards-based mathematics in elementary classrooms*. Concurrent session presentation given at the Annual Conference of the School Science and Mathematics Association: Raleigh, NC.

*Polly, D. & Mims, C. (2008, July). *Integrating virtual manipulatives into the elementary school classroom*. Bring Your Own Laptop session facilitated at the 2008 National Educational Computing Conference: San Antonio, TX.

Polly, D. (2008, April). *Creating learner-centered professional development schools*. Concurrent session presentation given at the 2008 National Association of Professional Development Schools Conference: Orlando, FL.

*#Polly, D., Mims, C., Inan, F., & Shepherd, C.E. (2008, March). *Evaluation methods used to examine the impact of PT3 projects*. Concurrent session presentation presented at the American Educational Research Association Annual Meeting: New York, NY.

*#Polly, D., Mims, C., Inan, F., & Shepherd, C.E. (2007, October). *The technology course, the methods courses, and the field experience: How PT3 projects attempted to make programmatic changes*. Concurrent session presentation given at the 2006 Association for Educational Communications and Technology International Conference: Anaheim, CA.

*#Polly, D., & Ausband, L. (2007, October). *Non-traditional teachers' technology skills*. Poster presentation given at the 2006 Association for Educational Communications and Technology International Conference: Anaheim, CA.

*#Polly, D. (2007, September). *Elementary mathematics' teachers enacted and espoused practices: The impact of professional development*. Concurrent session presentation given at the 9th Annual International Conference of The Mathematics Education into the 21st Century Project. Charlotte, NC.

*#Polly, D. & Hannafin, M.J. (2007, April). *Making the link: A look at evidence of students' mathematical understanding in light of elementary school teachers' enacted tasks*. Poster presentation given at the Annual Meeting of the American Educational Research Association: Chicago, IL.

- *#Polly, D. & Hannafin, M.J. (2007, April). *Examining the influence of learner-centered professional development on elementary mathematics' teachers enacted and espoused practices*. Concurrent session presentation given at the Annual Meeting of the American Educational Research Association: Chicago, IL.
- *#Orrill, C.H., Ledford, S., Bleich, L., & Polly, D. (2006, April). *Crazy Data: The analysis of Justification, Flow, and Explanation in the Problem-Solving Process*. Roundtable session presented at the American Educational Research Association Annual Meeting: San Francisco, CA.
- #Polly, D. & Williams, M. (2006, April). *Professional development*. Paper presented in the symposium *Peering into the Peer-Review Process: Mentoring Graduate Students and Junior Faculty in Reviewing and the Work of Editing* at the American Educational Research Association Annual Meeting: San Francisco, CA.
- #Polly, D., Orrill, C. H., Ledford, S. D., Bleich, L. (2005, October). *InterMath-GPS: Addressing teachers' needs with the design of a learner-centered professional development course*. Concurrent session presentation given at the Association for Educational Communications and Technology International Conference: Orlando, FL.
- #Polly, D., Webb, H. T., Subramony, D., Park, S., & Strobel, J. (2005, October). *Maximizing AECT involvement as a graduate student: Reflections from the 2004 AECT interns*. Concurrent session presentation given at the Association for Educational Communications and Technology International Conference: Orlando, FL.
- *#West, R., Watters, S., Subramony, D., Polly, D., & Park, S. (2005, October). *Student-to-student: Facilitating success in graduate programs in instructional technology*. Concurrent session presentation given at the Association for Educational Communications and Technology International Conference: Orlando, FL.
- *#Polly, D. & Shepherd, C. E. (2005, April). *Understanding pre-service teachers' impressions of technology's role in education*. Concurrent session presentation given at the 2005 American Educational Research Association's Annual Meeting: Montreal, Canada.
- *#Polly, D., Ledford, S.D., Orrill, C.H., & Bleich, L. (2005, April). *Learning technology in the context of professional development*. Roundtable session presentation given at the 2005 American Educational Research Association's Annual Meeting: Montreal, Canada.
- *#Shepherd, C. E. & Polly, D. (2004, October). *Redesigning an introduction to computers course for pre-service teachers to focus on multimedia reflection*. Concurrent session presentation given at the Association for Educational Communications and Technology's International Meeting: Chicago, IL.
- *#Polly, D., & Shepherd, C. E. (2004, October). *Reflective pre-service teachers: Using e-portfolios to facilitate reflection in teacher education*. Concurrent session presentation given at the Association for Educational Communications and Technology's International Meeting: Chicago, IL.
- #Keller, M., & Polly, D. (2004, June). *Enhancing the teacher-student connection: Innovations in professional development to improve student achievement*. Brief paper presentation given at the 2004 Ed-Media World Conference on Educational Multimedia, Hypermedia and Telecommunications: Lugano, Switzerland.
- #Polly, D., & Griffin, T. (2004, June). *The internet's impact on teacher education: Implications for online professional development courses for teachers*. Brief paper presentation given at the 2004 Ed-Media

World Conference on Educational Multimedia, Hypermedia and Telecommunications: Lugano, Switzerland.

#Polly, D., Orrill, C.H. Ledford, S.D., & Erbas, A.K. (2004, June). *Technology-enhanced math investigations: Facilitating the design and implementation of TEMIs into the classroom*. Full paper presentation given at the 2004 Ed-Media World Conference on Educational Multimedia, Hypermedia and Telecommunications: Lugano, Switzerland.

#Ledford, S.D, Polly, D., Erbas, A.K., & Orrill, C.H. (2004, April). *Learner-centered professional development: The InterMath experience*. Poster presentation given at the Research pre-session of the 2004 National Council of Teachers of Mathematics Annual Convention: Philadelphia, PA.

*#Polly, D., Orrill, C.H., Erbas, A.K., & Ledford, S.D. (2004, March). *Training teachers to integrate technology-rich mathematics investigations*. Brief paper presentation given at the 2004 Society for Information Technology and Teacher Education's Annual Conference: Atlanta, GA.

*#Shepherd, C., Polly, D., Rich, P., & Thomas, G. (2004, March). *Integrating e-portfolios into teacher education programs*. Brief paper presentation given at the 2004 Society for Information Technology and Teacher Education's Annual Conference: Atlanta, GA.

#Orrill, C.H., Erbas, A.K., Ledford, S.D., & Polly, D. (2004, March). *Integrating technology-enhanced mathematical investigations*. Poster session presentation given at the 2004 Society for Information Technology and Teacher Education's Annual Conference: Atlanta, GA.

#Polly, D. (2003, October). *Putting the learner first: Cognitive theories in instructional design*. Concurrent session presentation given at the 2003 Association for Educational Communications and Technology Conference, Anaheim, CA.

#Polly, D. (2003, October). *Dropping your anchors: Implications for learning anchors in middle grades classrooms*. Concurrent session presentation given at the 2003 Association for Educational Communications and Technology Conference: Anaheim, CA.

*#Moore, J., Polly, D., Deaton, B., Singleton, E., & Wang, F. (2003, October). *The great divide: Pre-service faculty use (or non-use) of technology in pre-service methods courses*. Poster presentation given at the 2003 Association for Educational Communications and Technology Conference: Anaheim, CA.

#Polly, D. (2003, June). *Anchoring student learning in technology-rich authentic environments*. Brief paper presentation given at the 2003 Ed-Media World Conference on Educational Multimedia, Hypermedia and Telecommunications: Honolulu, Hawaii.

#Polly, D. (2003, June). *Infusing cognitive principles in the development of instructional activities*. Brief paper presentation given at the 2003 Ed-Media World Conference on Educational Multimedia, Hypermedia and Telecommunications: Honolulu, Hawaii.

*#Polly, D., & Hannafin, R.D. (2003, June). *Employing dynamic software to solve open-ended investigations*. Brief paper presentation given at the 2003 Ed-Media World Conference on Educational Multimedia, Hypermedia and Telecommunications: Honolulu, Hawaii.

State/Regional Presentations

Polly, D., Lehew, A. J., & Gust, S. (2010, October). *Teaching algebra through problem solving in Grades 3-5*. Concurrent session presentation given at the 2010 Annual Conference of the North Carolina Council for Teachers of Mathematics: Greensboro, NC.

- Lehew, A. J., Gust, S., & Polly, D. (2010, October). Teaching algebra through problem solving in Grades K-2. Concurrent session presentation given at the 2010 Annual Conference of the North Carolina Council for Teachers of Mathematics: Greensboro, NC.
- Dooley, T. M., Banks, K., & Polly, D. (2010, October). Creating rigorous, standards-based formative assessments. Concurrent session presentation given at the 2010 Annual Conference of the North Carolina Council for Teachers of Mathematics: Greensboro, NC.
- #Polly, D. (2010, March). Virtual manipulatives in elementary mathematics classrooms. Concurrent session presentation given at the NCTIES Educational Technology Conference: Raleigh, NC.
- #Polly, D. (2010, March). Using Web 2.0 tools to address the revised Bloom's Taxonomy. Poster presentation given at the NCTIES Educational Technology Conference: Raleigh, NC.
- #Polly, D. (2009, December). Technology integration in elementary mathematics classrooms. Concurrent session presentation given at the 2009 Mid-South Technology Conference: Memphis, TN.
- #McCombs, B., Polly, D., Mims, C., Baucom, A., Wolcott, N., Rodgers, S., Rineer, J., Hatfield, I., Crawford, D. (2009, December). *Planning district-wide technology professional development*. Concurrent session presentation given at the 2009 Mid-South Technology Conference: Memphis, TN.
- Banks, K., Dooley, T., & Polly, D. (2009, October). *Using rigorous and relevant standards-based assessments to evaluate student learning*. Concurrent session presentation given at the 2009 Annual Conference of the North Carolina Council for Teachers of Mathematics: Greensboro, NC.
- Polly, D., Dooley, T.M., & Banks, K. (2008, October). *Looking at student work*. Concurrent session presentation given at the 2008 Annual Conference of the North Carolina Council for Teachers of Mathematics: Greensboro, NC.
- Polly, D. (2008, October). *Student-centered mathematics in Grades 3 and 4*. Concurrent session presentation given at the 2008 Annual Conference of the North Carolina Council for Teachers of Mathematics: Greensboro, NC.
- Polly, D. & Logan, K. (2008, October). *Problem solving: The new strand in the 2008 Standard Course of Study*. Concurrent session presentation given at the 2008 Annual Conference of the North Carolina Council for Teachers of Mathematics: Greensboro, NC.
- Polly, D. (2008, January). *Mathematics and science: An integrated approach for elementary school classrooms*. Concurrent session presentation given at the Southwest Alliance Conference on Science Education: Charlotte, NC.
- Polly, D. (2007, October). *Actions with Fractions*. Concurrent session presentation given at the 2007 Annual Conference of the North Carolina Council for Teachers of Mathematics: Greensboro, NC.
- Polly, D. (2007, January). *Integrating mathematical tasks into elementary and middle grades classrooms*. Concurrent session presentation given at the 2007 Southwestern Educational Alliance's Best Practices Conference: Charlotte, NC.
- Polly, D. (2006, October). *Excel-in in the elementary classroom*. Concurrent session presentation given at the 2006 North Carolina Council for Teachers of Mathematics Conference: Greensboro, NC.
- Polly, D. (2006, October). *Technology-enhanced mathematical investigations*. Concurrent session presentation given at the 2006 North Carolina Council for Teachers of Mathematics Conference: Greensboro, NC.

- Ledford, S., Bleich, L., Polly, D. & Orrill, C. H. (2005, October). *Exploring mathematics with dynamic geometry software*. Concurrent session presentation given at the Georgia Council for Teachers of Mathematics Conference: Eatonton, GA.
- Ledford, S., Bleich, L., Polly, D. & Orrill, C. H. (2005, October). *Unpacking the mathematics: An in-depth look at an open-ended investigation*. Concurrent session presentation given at the Georgia Council for Teachers of Mathematics Conference: Eatonton, GA.
- Bleich, L., Ledford, S., Polly, D. & Orrill, C. (Forthcoming 2005, October). *Problem solving with spreadsheets*. Concurrent session presentation given at the Georgia Council for Teachers of Mathematics Conference: Eatonton, GA.
- Bleich, L., Ledford, S., Polly, D. & Orrill, C. (Forthcoming 2005, October). *InterMath: technology-rich professional development in mathematics*. Concurrent session presentation given at the Georgia Council for Teachers of Mathematics Conference: Eatonton, GA.
- Polly, D., Orrill, C.H., Ledford, S., & Bleich, L. (2004, October). *Patterns and algebraic thinking through spreadsheets*. Concurrent session presentation given at the Georgia Council for Teachers of Mathematics Conference: Eatonton, GA.
- Bleich, L., Polly, D., Ledford, S., & Orrill, C.H. (2004, October). *InterMath: Professional development for middle grades teachers*. Concurrent session presentation given at the Georgia Council for Teachers of Mathematics Conference: Eatonton, GA.
- Ledford, S., Polly, D., Erbas, A.K., & Bleich, L. (2004, October). *Using technology to unpack open-ended problems*. Concurrent session presentation given at the Georgia Council for Teachers of Mathematics Conference: Eatonton, GA.
- Polly, D., Erbas, A.K., Ledford, S.D., & Orrill, C.H. (2004, March). *Designing technology-enhanced math investigations*. Concurrent session presentation given at the 2004 Virginia Society for Technology in Education Annual Conference: Roanoke, VA.
- Polly, D. (2004, March). *Field of dreams: Fostering effective field experiences for pre-service teachers*. Concurrent session presentation given at the 2004 Virginia Society for Technology in Education Annual Conference: Roanoke, VA.
- *#Polly, D., Moore, J.M., Ma, I.M., Singleton, E., & Deaton, B. (2004, February). *Technology use in teacher education programs*. Paper presentation given at the 2004 Eastern Educational Research Association's Annual Meeting: Clearwater, FL.
- *#Polly, D., & Hannafin, R.D. (2004, February). *Investigating the impact of OELE's on student achievement in geometry*. Paper presentation given at the 2004 Eastern Educational Research Association's Annual Meeting: Clearwater, FL.
- *#Polly, D., Orrill, C.H., Erbas, A.K., & Ledford, S.D. (2004, February). *Training teachers to use technology-enhanced mathematics investigations*. Paper presentation given at the 2004 Eastern Educational Research Association's Annual Meeting: Clearwater, FL.
- Erbas, A.K., Ledford, S.D., Orrill, C.H., & Polly, D. (2004, February). *Integrating technology-enhanced mathematics investigations into the curriculum*. Concurrent session given at the 2004 Georgia Educational Technology Conference: Macon, GA.

- Polly, D. (2003, March). *Technology-enhanced mathematics investigations*. Concurrent session given at the 2003 Virginia Society for Technology in Education Conference: Crystal City, Virginia.
- Polly, D., & Tatum, N (2002, October). *Using a collaborative buddy model between primary and upper elementary school students to explore probability and statistics concepts*. Concurrent session given at the College of William and Mary's Eighth Annual Mathematics Institute: Williamsburg, VA.
- Polly, D., Jernigan, C., & Wolfe, M. (2002, March). *Exploring patterns with hands-on investigations*. Concurrent session given at the 2002 Virginia Council for Teachers of Mathematics' Annual Conference: Manassas, VA.
- Jernigan, C., Polly, D., & Wolfe, M. (2002, February). *Building an algebraic framework through patterns*. Concurrent session given at the 2002 College of William and Mary's Seventh Annual Mathematics Institute: Williamsburg, VA.
- Dalton, M., Elliott, M., Goodman, T., & Polly, D. (2001, August). *Exploring the wilderness of probability: A hands-on unit based on Jumanji*. Concurrent session given at the Student University Research Network/College of William and Mary's Sixth Annual Mathematics Institute: Williamsburg, VA.

Grants and Contracts

State/Local Grants and Contracts

- Royster, D., Polly, D., Pugalee, D., & Cifarelli, V. (2009). Content Development to Teach Mathematical Investigations. Proposal submitted to the North Carolina Department of Public Instruction Mathematics and Science Partnership Program. (\$2,119,944, funded). Co-principal Investigator.
- Royster, D., Polly, D., Pugalee, D. (2008). Building Teacher Leadership for Quality Mathematics Instruction. Proposal submitted to the North Carolina Department of Public Instruction NC Quest Program. (\$299,981, funded). Co-principal Investigator.
- Orrill, C.H., Polly, D., & McMillan, T. (2003). Georgia Department of Education Teacher Quality Initiative. (\$67,585.00, Funded). Co-principal Investigator.

University Faculty Development Grants

- Chapman, M., Polly, D., Britt, H., Frazier, J., & Hopper, C. (2009). Supporting Elementary Education Yearlong Interns. Proposal submitted to the UNC Charlotte Scholarship of Teaching and Learning Program (\$6,500, funded). Co-principal Investigator.
- Polly, D. (2006). Developing Elementary Mathematics Teachers. UNC Charlotte Curriculum Improvement and Development Grant, (\$5,500, Funded). Principal Investigator.
- Polly, D. (2006). Exploring Mathematical Tasks. UNC Charlotte Faculty Research Grant, (\$5,750, Funded). Principal Investigator.

SERVICE/ OUTREACH/ ENGAGEMENT

Service to the University, College, and Department

UNC Charlotte

- | | |
|------------------------|--|
| Fall, 2008 - present | UNC Charlotte Professional Development School Network, Co-Director |
| Fall, 2008 - present | University Study Abroad Scholarship Committee |
| Spring, 2010 - present | University Study Abroad Odyssean Scholarship Committee |

Fall, 2010 - present UNC Charlotte Faculty Instructional Technology Advisory Council
Fall, 2007 - Fall, 2009 UNC Charlotte Undergraduate Course and Curriculum Committee
Fall, 2007 - Fall, 2008 UNC Charlotte Professional Development School Network, Assistant Director

College of Education

2011 - present College Faculty Council
2007 - 2009 Chair, College of Education Undergraduate Course and Curriculum
Spring, 2011 Search Committee, Office of Field Experiences, Special Education
Fall, 2009 - Spring, 2011 Task Stream Pilot Program
Spring, 2009 Search Committee, Office of Field Experiences, Elementary Education Teacher-in-Residence
Spring, 2008 Search Committee, Office of Field Experiences, Special Education

Department of Reading and Elementary Education

Fall, 2006 - present Department webmaster, website liaison
Fall, 2008 - present Member, Ph.D. Program in Curriculum and Instruction, Elementary Education strand committee
2007 - present Co-advisor, Student National Education Association
Summer, 2011 Department Administrative Assistant Search Committee
Spring, 2011 Elementary Science Education Search Committee
2009 - 2011 Member, Revisioning Committee for Elementary Education, Masters of Arts in Teaching
2008 - 2011 TK20 assessor, Graduate Certificate in Teaching Program (2008-2011)
Checked over 150 TK20 portfolios
2008 - 2010 Chair, Revisioning Committee for Elementary Education, Graduate Certificate in Teaching
2009 - 2010 Guest presenter, 4 workshops for student teachers about *Investigations* mathematics curriculum

Service to the Profession

Editorial service

2010 - present Co-editor, *Teaching Children Mathematics*, Problem Solvers section
2009 - present Consulting editor, *Educational Technology Research and Development*
2008 - present Editorial Board, *British Journal of Educational Technology*
2008 - 2009 Co-Editor, *Tech Trends: Linking Research & Practice to Improve Learning*, Special Issue on Technological Pedagogical and Content Knowledge (TPACK)
2008 - 2009 Member, Editorial Advisory Board, S. D'Augustono (Ed.) *Adaptation, Resistance and Access to Instructional Technologies: Assessing Future Trends in Education*.
2004 - 2006 Graduate Student Editorial Board, *Educational Researcher*, Research, News and Comment Section

Reviewing for Academic Journals

2011 - present *Journal for Computer-Assisted Learning*
2009 - present *Educational Technology Research & Development*
2008 - present *British Journal of Educational Technology*
2006 - present *Journal for Research in Mathematics Education*
Teaching Children Mathematics
Contemporary Issues of Technology in Education
2008 - 2009 *Mathematics Teaching in the Middle School*
2007 - 2009 *Interdisciplinary Journal for Problem-Based Learning*
2002 - 2006 *The Mathematics Educator*

2003- 2004 *Journal for Research on Technology in Education*

Professional leadership positions

2006 – present North Carolina Council for Teachers of Mathematics (2006-present)
Conference Program Co-Chair (2009-present)
Conference volunteer (2006-present)

2004 - present American Educational Research Association (AERA)
Instructional Technology Special Interest Group
 Proposal Reviewer (2004-present)
Research in Mathematics Education Special Interest Group
 Proposal Reviewer (2007-present)

2002 – present Association for Educational Communications and Technology (AECT)
Teacher Education Division
 President-Elect, President, Past President (2007-2009)
 NCATE Standards Writing Committee (2005-present)
 Communications committee (2006-2009)
 Division Program Chair, 2009 Annual Conference
 Division Program Assistant, 2006 Annual Conference
 Proposal Reviewer for Annual Conference (2003-2009)
Research and Theory Division
 Proposal Reviewer for Annual Conference (2003-2008)
 Graduate Student Program Committee (2003-2005)
 Conference Volunteer (2003-2005)

Professional consultation

2011 Consultant to EdCounts, Alignment Study between Common Core Mathematics
Standards and Learning Progressions

2011 - present Consultant to Dr. Shawnee Wakeman, National Consortium State Collaborative
General Supervision Enhancement Grant (2011-present)

2009 - 2011 Consultant to Dr. Diane Browder, General Curriculum Project (2009-2011)

Service to the Community and Practitioners

2006 – present North Carolina Department of Public Instruction
Common Core State Mathematics Standards Implementation
Committee member, Reviewer, Focal Units of the Common Core (2011-present)
Co-author, Unpacking the Common Core documents for Grades K-5 (2010-present)
Co-author, Common Core-2003 NCSCOS Crosswalks (2010)
Reviewer, Unpacking the Common Core documents for Grades 6-8 (2011)
Co-author of other Common Core documents online (2011-present)

Essential Standards Mathematics Committee
Member, Essential Mathematics Standards Writing Committee (2006-2009)
Member, Essential Standards Mathematics Descriptor Writing Committee (2007-
2009)
Member, North Carolina Standard Course of Study Review Committee (2006)

Technical Outreach to Public Schools / North Carolina End-of-Grade Tests
Item Reviewer, North Carolina End-of-Grade Mathematics test, Grades 3-5 (2011-present)
End-of-Grade test specifications committee, Common Core Standards (2010)
End-of-Grade test specifications committee, Essential Standards (2009)

2006 – present

Charlotte-Mecklenburg Schools
Mathematics Science Partnership Grant
Co-coordinated the design, implementation, and management of over 80 hours of professional development for teachers; 34 in 2009-2010, 155 in 2010-2011, 230 in 2011-2012
Provided ongoing support to teacher-leaders who co-facilitated workshops

Elementary School Mathematics Specialists
Pro-bono consultant to the Elementary Mathematics Specialist (2006-present)
Member, Elementary Mathematics Collaborative (2007-2009)
Co-developer of mathematics pacing guides for Grades K-5 (2009-present)
Co-developer of mathematics curriculum units (2008-present)
Co-coordinated and co-facilitated meetings for facilitators at UNC Charlotte (2010-present)
Facilitated workshops for learning community (learning zone) leadership, Principals and teacher-leaders about *Investigations* mathematics curriculum (2009-2010)

School-based service

On-going mentoring (co-planning and co-teaching) elementary school teachers related to mathematics

Torrance Creek Elementary School, 1 teacher (2006 - 2007)
David Cox Road Elementary School, 4 teachers (2007 - 2009)
University Meadows Elementary School, 4 teachers (2007 - 2009)
Stoney Creek Elementary School, 1 teacher (2009 - 2010)

Facilitating team planning meetings (approximately a dozen per year at various schools)

Principal Search Committee, David Cox Road Elementary School (2008)
Principal Search Committee, University Meadows Elementary School (2009)

2007 – present

Kannapolis City Schools
Mathematics Science Partnership Grant
Co-coordinated the design, implementation, and management of over 80 hours of professional development for teachers; 34 in 2009-2010, 30 in 2010-2011, 45 in 2011-2012

Elementary Education Director and Elementary Mathematics Coach
Pro-bono consultant to the Elementary Education director (2008-present)
Writer of K-2 quarterly mathematics assessments (2010-present)
Data analysis of K-2 quarterly mathematics assessments (2010-present)

School-based service

Mentoring (co-planning and co-teaching) elementary school teachers related to mathematics

Shady Brook Elementary School, 1 teacher, 2009-present)

Facilitated half-day workshops about *Investigations*
16 workshops at Shady Brook Elementary School (2009-2010)

2 workshops at Forest Park Elementary School (2009-2010)

IMPACT Technology Grant

Wrote portions of an IMPACT technology grant that provided over \$2.5 million in technology-based resources from North Carolina's IMPACT technology initiative
Co-facilitated week-long professional development sessions about technology integration

Summer 2008- 5 weeks

Summer 2009- 2 weeks

Summer 2011- 3 weeks

Provided support to teachers during team planning sessions through face-to-face meetings and Skype sessions

Facilitated monthly professional development about WebQuests at Kannapolis Intermediate School (2007-2008)

HONORS AND AWARDS

- | | |
|------|---|
| 2011 | Association for Educational Communications and Technology Teacher Education Division Award |
| | UNC Charlotte College of Education Award for Sustained Service to Public Schools |
| 2007 | Nominee UNC Charlotte Greek System Professor of the Year |
| 2005 | Association for Educational Communications and Technology, Teacher Education Division, Recognition of Service to the Division |
| 2005 | Association for Educational Communications and Technology Graduate Student Internship |

PROFESSIONAL MEMBERSHIPS

American Educational Research Association
Association for Educational Communications and Technology
Association of Mathematics Teacher Educators
National Council for Teachers of Mathematics
North Carolina Council for Teachers of Mathematics