

DR. TONY THOMPSON

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CURRICULUM VITA

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EDUCATION

Ph.D., Mathematics Education

College of Education, Florida State University

Dissertation: A case study of the development of Florida’s mathematics standards

Degree Received: August 1999

Master of Science, Mathematics

College of Arts and Sciences, Florida State University

Degree Received: December 1992

Bachelor of Science, Mathematics Education

College of Arts and Sciences, Northwestern State University of Louisiana

Degree Received: May 1987

Bachelor of Arts, Social Studies Education

College of Arts and Sciences, Northwestern State University of Louisiana

Degree Received: May 1987

KEY LEADERSHIP EXPERIENCES

- East Carolina University
 - Chair, Department of Mathematics, Science, and Instructional Technology Education (MSITE) (2023 – Present)
 - Chair, MSITE Personnel Committee (2015 – 2013)
 - PI, NSF Grant – Noyce Scholars Program (2017 – 2023)
 - Graduate Coordinator for Mathematics Education (2009 – 2012)
 - COE representative on the Graduate School Administrative Board (2010 – 2011)
 - SACS and NCATE/CAEP Representative (2010 – Present)
 - edTPA Liaison for MATE (2013 – Present)
- North Carolina Council of Teachers of Mathematics (NCCTM)
 - NCCTM Vice President – Eastern Region (2011 – 2013)
 - NCCTM Conference Co-Chair (2013 – 2014)
- National Council of Teachers of Mathematics (NCTM)
 - Editorial Board – *Mathematics Teacher* (2004 – 2007)
 - Co-editor, *Mathematics Teacher* Focus Issue on Classroom Discourse (Nov. 2007)
 - Co-editor of special issue, *One Hundred Years of Mathematics Teacher* (Jan. 2007).

- Alabama Council of Teachers of Mathematics (ACTM)
 - Delegate to NCTM (2003 – 2007)
 - Editor, *Alabama Journal of Mathematics, Secondary Activities* (2003 – 2007)

PROFESSIONAL EXPERIENCE

- 2023-Present: Chair, Department, Department of Mathematics, Science, and Instructional Technology Education (MSITE), ECU, Greenville, NC
- 2008-Present: Associate Professor, Mathematics Education, MSITE, ECU, Greenville, NC
- 2002-2008: Assistant Professor, Mathematics Education, Department of Curriculum and Instruction, University of Alabama, Tuscaloosa, AL
- 1999-2002: Visiting Assistant Professor, Department of Mathematics, East Carolina University, Greenville, NC
- 1998-2000: Mathematics education consultant for the *Center for Science, Mathematics, and Technology Education*, East Carolina University
- 1996-1998: Mathematics teacher, Johnston High School, Austin, TX
- 1993-1996: Graduate Teaching Assistant, Department of Curriculum and Instruction (Math Education Program), Florida State University, Tallahassee, FL
- 1990-1992: Graduate Teaching Assistant, Mathematics Department, Florida State University, Tallahassee, FL
- 1987-1990: Mathematics teacher, St. Mary's School, Natchitoches, LA.

AWARDS

- 1986: Outstanding Mathematics Major (Northwestern State University of Louisiana)
- 2021: Board of Governor's Distinguished Professor of Teaching

SCHOLARSHIP

Refereed Publications

- Miles, R. & **Thompson, T.** (2015). "I had no idea": A snapshot of science teachers' perceptions of state, national and international assessments. *National Teacher Education Journal*, 8(3), 61–66.
- Ryang, D., & **Thompson, T.** (2012). Investigating the sum of positive integer powers. *Mathematics Teacher*, 106(1), 71–75.
- Thompson, T.** (2012). Preparing secondary pre-service mathematics teachers for inclusion. *National Teacher Education Journal*, 5(1), 53–62.
- Ryang, D., **Thompson, T.**, & Shwery, C. (2011). Korean mathematics teacher educators' review of the Mathematics Teaching Efficacy Beliefs Instrument. *Research in Mathematical Education*, 15(3), 229–250.

- Thompson, T.** (2011). An analysis of higher-order thinking on Algebra I End-of-Course tests. *International Journal of Mathematics Teaching & Learning*, 11(1–36).
- Briley, J., **Thompson, T.**, & Iran-Nejad, A. (2009). Mathematical beliefs, self-regulation, and achievement by university students in remedial mathematics courses. *Research in the Schools*, 16(2), 15–28.
- Thompson, T.** (2008). Mathematics teachers' interpretation of higher-order thinking in Bloom's Taxonomy. *International Electronic Journal of Mathematics Education*, 3(2), 96–109.
- Lusk, A., **Thompson, T.**, & Daane, C.J. (2008). Algebra I teachers' perceptions of teaching students with learning disabilities. *Journal of Curriculum and Instruction*, 2(2), 34–51.
- Thompson, T.**, & Preston, R. (2007). Measurement tasks for the middle grades. *Alabama Journal of Mathematics*, 29(2), 59–64.
- Thompson, T.** (2006). Teaching for social mathematics: Exploring the collaborative roles of social studies and mathematics educators. *Social Studies Research and Practice*, 1(2), 268–283.
- Thompson, T.**, & Sproule, S. (2005). Calculators for students with special needs. *Teaching Children Mathematics*, 11(7), 391–395.
- Burns, K., Beseler, S., & **Thompson, T.** (2004). Geometer's Sketchpad discovery lessons. *Alabama Journal of Mathematics*, 28(1), 25–29.
- Preston, R., & **Thompson, T.** (2004). Integrating measurement across the curriculum. *Mathematics Teaching in the Middle School*, 9(8), 436–441.
- Collier, R., & **Thompson, T.** (2004). The search for significance: Accuracy in Measurement and Computation. *Alabama Journal of Mathematics*, 28(1), 29–36.
- Thompson, T.**, & Preston, R. (2004). Measurement in the middle grades: Insights from NAEP and TIMSS. *Mathematics Teaching in the Middle School*, 9(9), 514–519.
- Beseler, S., & **Thompson, T.** (2003). The integration of graph theory into secondary mathematics courses. *Alabama Journal of Mathematics*, 27(1 & 2), 61–65.
- Thompson, T.**, & Sproule, S. (2000). Deciding when to use calculators. *Mathematics Teaching in the Middle School*, 6(2), 126–129.

Refereed Conference Proceedings

- Thompson, T.** (2011). An analysis of thinking skills on Algebra I EOC test items. In S. L. Reeder (Ed.) *Proceedings of the 38th annual meeting of the Research Council on Mathematics Learning*, (pp. 128–135). Cincinnati, OH.
- Ryang, D. & **Thompson, T.** (2011). Revision of the MTEBI for Korean Preservice Teachers. In S. L. Reeder (Ed.) *Proceedings of the 38th annual meeting of the Research Council on Mathematics Learning*, (pp. 144–150). Cincinnati, OH.

- Lusk, A., & **Thompson, T.** (2007). Algebra teachers' perceptions of teaching students with learning disabilities. In T. Lamberg, & L. R. Wiest, (Eds.) *Proceedings of the 29th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, (pp. 757–760). Reno, NV.
- Thompson, T.** (2005). Preparing teachers to teach mathematics to students with learning disabilities. In A. Rogerson (Ed) *Proceedings of the eighth annual meeting of the International Conference of the Mathematics Education into the 21st Century Project* (pp. 204–208). Johor Bahru, Malaysia.
- Thompson, T.**, & Newsome, K. (2002). Is state assessment a viable tool for reflection on classroom assessment? In D. Mewborn, et al (Eds), *Proceedings of the twenty-fourth annual meeting of the North American Chapter of the Psychology of Mathematics Education, Volume 2* (pp. 589–597). Athens, GA.
- Thompson, T.** (2002). Mathematics standards as political activity. In P. Valero, & Skovsmose (Eds), *Proceedings of the third International Conference on Mathematics Education and Society*, (pp. 515–523). Helsingør, Denmark.
- Thompson, T.** (2000). The struggle for mathematics standards: Taking a closer look. In M. L. Fernandez (Ed.) *Proceedings of the twenty-second annual meeting of the North American Chapter of the Psychology of Mathematics Education, Vol 2* (pp. 445–449). Tucson, AZ.
- Thompson, T.**, & Jakubowski, E. (1999). Developing mathematics standards: A case study. In F. Hitt, & M. Santos (Eds) *Proceedings of the twenty-first annual meeting of the North American Chapter of the Psychology of Mathematics Education, Vol 2* (pp. 657–661). Cuernavaca, Morelos, Mexico.

Journal Editor

- National Council of Teachers of Mathematics (2007). Discourse in the mathematics classroom (Focus Issue). P. Vicinus, T. **Thompson**, & J. Kysh (Eds). *Mathematics Teacher*, 101(4).
- National Council of Teachers of Mathematics (2007) *One hundred years of Mathematics Teacher*. M. Coffey, J. Kysh, & T. **Thompson** (Eds.), Reston, VA: Author.
- Alabama Journal of Mathematics (2003 – 2007). Editor, Secondary Education Activities

Other Publications

- Thompson, T.**, Dobson, E., & Stapleton, J. (In press). *Providing Effective Feedback: An Embedded Signature Assessment*. Stanford Center for Assessment, Learning and Equity.
- Jolls, C., Preston, R., Sinicrope, R., Crawley, F., **Thompson, T.**, & Vance-Chalcraft, H. (2013). ECU Noyce Scholars: Recruiting STEM majors into public education. *Southeastern Biology*, 60(3), 228.

- Coffey, M., Kysh, J., & **Thompson, T.** (2007). Out of our past. *One hundred years of Mathematics Teacher*, (pp. 4–5). Reston, VA: NCTM.
- Nichols, S., Gilmer, P., **Thompson, T.**, & Davis, N. (1998). Women in science: Expanding the vision. In K. Tobin, & B. Fraser (Eds.) *International handbook of science education* (pp. 967–980). Dordrecht, the Netherlands: Kluwer Publishers.
- Thompson, T.**, & Sproule, S. (2002). Deciding when to use calculators. *Delta-K*, Journal of the Mathematics Council of the Alberta Teachers' Association (Re-print), 39(1), 44–47.
- Thompson, T.** (2000). *East Carolina University faculty perspectives on North Carolina's policies for teacher certification*. Unpublished research report. ECU Center for Science, Mathematics, and Technology Education.
- Thompson, T.** (1999). *Creating a "voice": An analysis of CSMTE's effort to facilitate teacher involvement in educational reform*. Unpublished research report. ECU Center for Science, Mathematics, and Technology Education.
- Thompson, T.** (1999). A case study of the development of Florida's mathematics standards. (Doctoral dissertation, Florida State University, 1999). *Dissertation Abstracts International* (UMI No. 9939305)

Research (refereed) presentations

- Thompson, T.**, Cayton, C. & Brown, A. (2023, October). *Potential and Implemented Levels of Cognitive Demand for Pre-Service Teachers' Tasks in the edTPA*. School Science and Mathematics Annual Convention, Colorado Spring, CO.
- Thompson, T.**, Cayton, C. & Brown, A. (2023, March). *An Analysis of Pre-Service Teachers' Task Selection in the edTPA*. Research Council on Mathematics Learning Conference. Las Vegas, NV.
- Brown, A., Cayton, C., & **Thompson, T.** (2023, February). *A five-year look at Noyce Scholars task selection and rubric score on the edTPA*. Poster submitted to the Annual Meeting of the Association of Mathematics Teacher Educators. New Orleans, LA.
- Thompson, T.**, & Cayton, C. (2022, March). *The Challenges of Implementing the edTPA during a Pandemic*. Research Council on Mathematics Learning Conference. Grapevine, TX.
- Thompson, T.**, & Cayton, C. (2022, March). *Teachers' Perceptions of their Experiences as Noyce Scholars*. Research Council on Mathematics Learning Conference. Grapevine, TX.
- Thompson, T.**, (2022, October). *The Challenges of Implementing the edTPA during a Pandemic*. School Science and Mathematics Annual Convention, Missoula, MT.
- Thompson, T., & **Cayton, C.** (2022, June). *Teachers' perceptions of their experiences as Noyce Scholars at ECU*. Noyce Summit (Poster Presentation) Washington, DC.
- Thompson, T.**, & Cayton, C. (2021, October). *Teachers' Perceptions of their Experiences as Noyce Scholars* [Conference session]. School Science and Mathematics Annual Convention, (Virtual).

- Thompson, T.** (2020, October). *The Challenges and Possibilities of the edTPA for Mathematics Teacher Education*. School Science and Mathematics Convention, Minneapolis, MN.
- Preston, R., **Thompson, T.**, Cayton, C., Jolls, C., Vance Chalcraft, H., & Doster, E. (2019, June). *Teachers' perceptions of their experiences as Noyce Scholars at East Carolina University*. Poster Session presented at the Noyce Summit, Washington, DC.
- Thompson, T.**, Cayton, C., Preston, R., Vance-Chalcraft, H., Jolls, C. & Doster, E. (2019, October). *Teachers' perceptions of their experiences as Noyce Scholars at East Carolina University*. School Science and Mathematics Convention, Salt Lake City, UT.
- Thompson, T.**, & Adu-Gyamfi, K. (2019, March). *The edTPA and Mathematics Education: Perceptions, Possibilities and Problems*. Research Council on Mathematics Learning Conference. Charlotte, NC.
- Thompson, T.** (2018, October). *Implementing the edTPA in Mathematics Education*. School Science and Mathematics Conference. Little Rock, Arkansas.
- Adu-Gyamfi, K., & **Thompson, T.** (2018, February). *Math Teachers' Technology Integration Practices: The SAMR Model*. Research Council on Mathematics Learning Conference. Baton Rouge, LA.
- Thompson, T.**, & Adu-Gyamfi, K. (2018, February). *Preparing Pre-service Teachers to Provide Feedback in Mathematics*. Research Council on Mathematics Learning Conference. Baton Rouge, LA.
- Thompson, T.**, & Adu-Gyamfi, K. (2017, November). *Learning to provide effective written feedback in mathematics*. School Science and Mathematics Conference. Lexington, KY.
- Thompson, T.**, & Adu-Gyamfi, K. (2017, April). *Providing Effective Written Feedback*. National Council of Teachers of Mathematics Conference. San Antonio, TX.
- Thompson, T.** (2017, March). *Providing Feedback: An Embedded Signature Assessment*. Research Council on Mathematics Learning Conference, Fort Worth, TX.
- Thompson, T.** (2017, November). *Learning to Provide Effective Written Feedback in Mathematics*. School Science and Mathematics Conference. Lexington, KY.
- Miles, R. & **Thompson, T.** (2016, April). *A Snapshot of Science Teacher Perceptions of State, National, and International Assessments*. National Association for Research in Science Teaching, Baltimore, MD.
- Adu-Gyamfi, K. & **Thompson, T.** (2016, February). *Implementing Reform Initiatives: A Case Study of a High School Teacher*. Research Council on Mathematics Learning Conference, Orlando, FL.
- Thompson, T.**, Adu-Gyamfi, K., Cayton, C, & Grady, M. (2016, February). *Implementing the edTPA in mathematics: "A wonderful, awful idea"*. Research Council on Mathematics Learning, Orlando, FL
- Thompson, T.**, & Adu-Gyamfi, K. (2015, February). *Accepting the Challenge: A case study of CCSS-M implementation*. Research Council on Mathematics Learning, Las Vegas, NV.

- Thompson, T.,** Adu-Gyamfi, K., & Grady, M. (2015, February). *The challenges and possibilities of the edTPA for mathematics teacher education*. Research Council on Mathematics Learning, Las Vegas, NV.
- Thompson, T.,** & Adu-Gyamfi, K. (2014, March). *Implementing the CCSS-M: A case study of two high school teachers*. Research Council on Mathematics Learning, San Antonio, TX.
- Thompson, T.,** & Adu-Gyamfi, K. (2014, March). *Implementing the edTPA in Mathematics Education*. Research Council on Mathematics Learning, San Antonio, TX.
- Thompson, T.** (2013, March). *Algebra I teachers and Inclusion*. Research Council on Mathematics Learning, Tulsa, OK.
- Thompson, T.** (2012, November). *Algebra I teachers' perception of inclusion and their use of instructional strategies when teaching students with disabilities*. School Science and Mathematics. Birmingham, AL.
- Thompson, T.** (2011, March). *An analysis of thinking skills on Algebra I EOC test items*. Research Council on Mathematics Learning. Cincinnati, OH.
- Ryang, D. & **Thompson, T.** (2011, March). Revision of the MTEBI for Korean Preservice Teachers. Research Council on Mathematics Learning. Cincinnati, OH.
- Thompson, T.** (2009, September). *Inclusive preparation for preservice mathematics teachers*. North Carolina – Association of Colleges and Teacher Educators. Raleigh, NC
- Scherff, L., Komara, C., Matua, K., Satcher, J., & **Thompson, T.** (2008, February). *When everyone is "On Board": Service learning as a University- and College-Wide endeavor*. American Association of Colleges for Teacher Education (AACTE) Conference, New Orleans, LA.
- Thompson, T.** (2007, March). *Preparing pre-service teachers to teach mathematics in inclusive classrooms*. Research Council on Mathematics Learning Conference, Cleveland, OH.
- Thompson, T.** (2006, November). *Preparing pre-service mathematics teachers for inclusion*. School Science and Mathematics Association Conference, Missoula, MT.
- Thompson, T.** (2006, February). *Preparing pre-service teachers to teach mathematics to students with learning disabilities*. Research Council on Mathematics Learning Conference, Las Vegas, NV.
- Preston, R., & **Thompson, T.** (2004, February). *Measuring measurement: Researching the teaching and learning of measurement in the middle grades*. Association of Mathematics Teacher Educators Conference, San Diego, CA.
- Thompson, T.** (2003, April). *An analysis of an Algebra I end-of-course exam: A case of multiple dimensions and cognitive incongruencies*. American Educational Research Association Conference, Chicago, IL.

Thompson, T., & Sproule, S. (2003, April). *Using national and international assessment frameworks to improve mathematics instruction*. Annual Meeting of the National Council of Teachers of Mathematics, Research Pre-Session, San Antonio, TX.

Thompson, T. (2002, October). *Higher-order thinking in the mathematics classroom*. School Science and Mathematics Association Conference, Rochester, NY.

Thompson, T., & Newsome, K. (2002, March). *Connecting state assessment with classroom assessment*. North Carolina Council of Teachers of Mathematics, Eastern Region Conference, Greenville, NC.

Thompson, T., & Jakubowski, E. (2002, April). *Rationales behind the development of a state's mathematics standards*. American Educational Research Association Conference, New Orleans, LA.

Thompson, T. (2000, April). *Developing standards for systemic reform*. American Educational Research Association Conference, New Orleans, LA.

Thompson, T. (1999, October). *Developing mathematics standards*. School Science and Mathematics Conference, Greensboro, NC.

Sproule, S., & **Thompson, T.** (1995, November). Facilitating prospective teachers' modeling and use of children's thinking. *North American Chapter of the Psychology of Mathematics Education*, Columbus, OH.

Thompson, T. (1994, April). *What are we communicating during this time of teacher change?* Annual Meeting of the National Council of Teachers of Mathematics, Research Pre-session. Indianapolis, IN.

Professional Presentations

Crane, C., Manda, A. K., Woods, T. L., Crane Mitchell, L., Doster, E. C., & **Thompson, T.** (2019, March). *IMAGINE-NC: Engaging Elementary and Middle Grade students through inquiry-based, hands-on Earth Science activities*. Geological Society of America Annual Meeting. Charleston, SC.

Crane, C., Manda, A. K., Woods, T. L., Crane Mitchell, L., Doster, E. C., & **Thompson, T.** (2018, November). *The IMAGINE-NC Project: Integrating Mathematics and Geology in Eastern North Carolina*. NSTA Conference. Charlotte, NC.

Thompson, T., & Doster, E. (2018, January). *An overview of the edTPA for Clinical Teachers and University Supervisors*. ECU Mathematics Education Collaborative, Greenville, NC.

Woods, T. L., Doster, E. C., Crane, C., Manda, A. K., **Thompson, A. D.**, Crane Mitchell, L., & Metz, A. (2017, October). *Use of the Augmented Reality Sandbox to Teach Surficial Features/Processes and Topographic Maps in Grades 3-16*. 6th Annual Bridging the Gap Conference. Raleigh, NC.

Crane, C., Manda, A. K., Woods, T. L., Doster, E. C., **Thompson, A. D.**, Crane Mitchell, L., & Metz, A. (2017, October). *The Aurora Fossil Museum IMAGINE-NC Project: A Collaborative Effort to Bring Project-Based Stem Learning Opportunities to an*

- Underserved Area in Eastern North Carolina*. 6th Annual Bridging the Gap Conference. Raleigh, NC.
- Stapleton, J., Dobson, E., & **Thompson, T.** (2017, April). *Developing Candidates' Abilities to Recognize and Give Effective Feedback*. Southeastern edTPA Conference. Raleigh, NC.
- Preston, R. & **Thompson, T.** (2017, March) *Learning the language of mathematics*. NCCTM Eastern Regional Conference, Wilmington, NC
- Preston, R. & **Thompson, T.** (2017, March) *Learning to Read and Reading to Learn: Are we ever finished with "Learning to Read" in Mathematics?* ECU Clinical Teacher Conference, Greenville, NC
- Thompson, T.** (2016, October). *Earth by the Numbers*. North Carolina Council Teachers of Mathematics Annual Meeting, Greensboro, NC.
- Thompson, T.** (2016, February). *Some like it HOT! Strategies for Engaging Students in Higher-Order Thinking*. North Carolina Council of Teachers of Mathematics Eastern Regional Conference, ECU, Greenville, NC.
- Dobson, E., Stapleton, J., & **Thompson, T.** (2016, March). *Embedded Signature Assessments: Providing Effective Feedback*. edTPA Liaison Meeting, ECU, Greenville, NC.
- Thompson, T.** (2016, December). *An overview of the edTPA for Clinical Teachers and University Supervisors*. ECU Mathematics Education Collaborative Meeting, Greenville, NC.
- Thompson, T.** (2015, March) *Hands-on STEM activities for Earth's sake*. NCCAP: Synergy Conference, Greenville, NC.
- Thompson, T.** & Preston, R. (2015, February) *Teaching measurement using the standards for mathematical practice*. NCCTM Eastern Regional Conference, Kenansville, NC.
- Preston, R. & **Thompson, T.** (2015, February) *Academic language in mathematics*. NCCTM Eastern Regional Conference, Kenansville, NC.
- Thompson, T.** (2015, February) *Real-world mathematics for Earth's sake*. NCCTM Eastern Regional Conference, Kenansville, NC.
- Preston, R. & **Thompson, T.** (2014, February) *The role of literacy in learning mathematics*. NCCTM Eastern Regional Conference, Wilmington, NC.
- Thompson, T.** (2013, November). *Real-world math for Earth's sake*. North Carolina Council of Teachers of Mathematics Conference, Greensboro, NC.
- Rupert, N., & **Thompson, T.** (2013, October). *Introducing the edTPA: Initial experiences of two universities*. North Carolina Council of Teachers of Mathematics, Greensboro, NC.
- Thompson, T.**, & Preston, R. (2011, October). *Teaching measurement in the Common Core State Standards*. North Carolina Council of Teachers of Mathematics, Greensboro, NC.
- Thompson, T.** (2011, October). *Math lessons for a world of seven billion*. North Carolina Council of Teachers of Mathematics Conference, Greensboro, NC.

- Thompson, T.** (2011, April). *Preparing interns to teach for higher-order thinking in mathematics*. East Carolina University Clinical Teacher Conference, Greenville, NC.
- Thompson, T.** (2010, February). *Population Education*. ECU Mathematics Education Conference, Greenville, NC.
- Thompson, T.** (2009, October). *Mathematics for global citizenship*. North Carolina Council of Teachers of Mathematics Conference, Greensboro, NC.
- Thompson, T., & Preston, R.** (2009, October). *Essential Measurement*. North Carolina Council of Teachers of Mathematics Conference, Greensboro, NC.
- Thompson, T., & Preston, R.** (2008, October). *Engaging students in reasoning via measurement*. North Carolina Council of Teachers of Mathematics Conference, Greensboro, NC.
- Thompson, T., Kysh, J., & Coffey, M.** (2007, March). *Revisiting 100 years of mathematics education through Mathematics Teacher*. The National Council of Teachers of Mathematics Conference, Atlanta, GA.
- Beseler, S., Manley, K., & **Thompson, T.** (2005, November). *Utilizing mathematics technology to support mathematics/science connections to the automotive industry*. School Science and Mathematics Association Conference, Fort Worth, TX.
- Beseler, S., Boykin, S., & **Thompson, T.** (2005, October). *Automotive applications in high school mathematics*. The National Council of Teachers of Mathematics Regional Conference, Birmingham, AL.
- Thompson, T., & Preston, R.** (2004, October). *Reconciling the teaching and learning of measurement in mathematics and science classrooms*. School Science and Mathematics Association Conference, Atlanta, GA.
- Preston, R., & **Thompson, T.** (2004, April). *Measurement for all: Integrating measurement in middle school mathematics*. National Council of Teachers of Mathematics Conference, Philadelphia, PA.
- Preston, R., & **Thompson, T.** (2004, April). *Integrating measurement: A tradition revisited*. National Council of Supervisors of Mathematics Conference. Philadelphia, PA
- Thompson, T., & Preston, R.** (2003, October). *Integrating mathematics and science through measurement*. School Science and Mathematics Association Conference, Columbus, OH.
- Preston, R., & **Thompson, T.** (2003, February). *Integrating measurement across the curriculum: A professional development effort*. Association of Mathematics Teacher Educators Conference, Atlanta, GA.
- Thompson, T.** (2002, November). *Practical strategies to improve problem-solving and reasoning abilities in middle school mathematics*. Alabama Council of Teachers of Mathematics, Montgomery, AL.
- Thompson, T.** (1992, October). *Using history in the teaching of complex numbers*. 17th Annual Regional Mathematical Association of America Conference, Tallahassee, FL.

EDITOR OR REVIEWER FOR PROFESSIONAL JOURNALS

- Member of the Editorial Board of *Mathematics Teacher* (2004 – 2007)
- Co-editor of *Mathematics Teacher* Focus Issue on Classroom Discourse (Nov. 2007)
- Co-editor of special issue, *One Hundred Years of Mathematics Teacher* (Jan. 2007).
- Editor, *Alabama Journal of Mathematics*, Secondary Activities Section
- Reviewer for *Mathematics Teacher Educator* (2012 – present)
- Reviewer for *Mathematics Teacher* (2000 – 2004; 2007 – 2018)
- Reviewer for *Mathematics Teaching in the Middle School* (2010 – 2018)
- Reviewer for *School Science and Mathematics* (2004 – 2010; 2020 – present)
- Reviewer for *Journal of Curriculum and Instruction* (2011 – 2012)
- Reviewer for *Investigations in Mathematics Learning* (2015 – present)
- Reviewer for *Mathematics Teacher Educator* (2012 – 2020)

GRANTS (Funded)

- 2020 – 2023: Burroughs-Wellcome Foundation (\$180,000). **IMAGINE-NC Phase 2** (Integrating **M**athematics and **G**eology in Eastern North Carolina, Phase 2). PI: Crane, C. Co-PI: Woods, T., Manda, A., Mosey, S., & Hoben, J. Consultant: **Thompson, T.**, Doster, E., & Mitchell, L. Evaluator: ECU STEM CORE
- 2017 – 2023: National Science Foundation (\$1,200,000). *ECU Mathematics and Science Education Noyce Scholars Program*. **PI: Thompson, T.** Co-PI: Cayton, C., Jolls, C., Vance-Chalcraft, H, Preston, R., & Doster, E. Evaluator: Sinicrope, R. / Adu-Gyamfi, K.
- 2017 – 2020: Burroughs-Wellcome Foundation (\$180,000). **IMAGINE-NC** (Integrating **M**athematics and **G**eology in Eastern North Carolina). PI: Crane, C. Co-PI: Woods, T. & Manda, A. Consultant: **Thompson, T.**, Doster, E., & Mitchell, L. Evaluator: ECU STEM CORE
- 2009 – 2015: National Science Foundation (\$900,000). *ECU Mathematics and Science Education Noyce Scholars Program*. PI: Preston, R. Co-PI **Thompson, T.**, Jolls, C., Vance-Chalcraft, H., & Crawley, F. Evaluator: Sinicrope, R.
- 2007 – 2008: COE grant (\$2,000). *Algebra I teachers' perceptions of teaching students with learning disabilities*. PI: T. **Thompson**.
- 2006 – 2007: Alabama State Department of Education: (\$18,000). *Special education collaborative teacher education program*. PI: Siders, J. Co-PI: **Thompson, T., &** Scherff, L.
- 2003 – 2006: National Science Foundation: (\$1.6 million) *NSF GK-12 grant: Graduate teaching fellows in middle and high school education*. PI: Todd, B. Co-PI: Midkiff, C., Goldston, D. Driver, J., Nichols, S., **Thompson, T.**, Weist, J., & Wu, Z.
- 2001 – 2003: Eisenhower Higher Education Professional Development Program. (\$30,000) *Integrating measurement across the curriculum*. Co-PI: Preston, R., & **Thompson, T.**

UNIVERSITY TEACHING EXPERIENCES

* Developed Course or Significant Revision

East Carolina University (1999 – 2002; 2008 – Present)

MATH 1065: College Algebra
MATE 1267: Functional Relationships*
MATH 2119: Elements of Calculus
MATE 2129: Basic Concepts of Mathematics II
MATH 2282: Data Analysis and Probability
MATH 3006: Seminar in Secondary Mathematics Curriculum
MATE 3060: Mathematics and Methods for Grades 3-6
MATE 3067: Algebra and Number Foundations
MATE 3167: Geometry and Measurement
MATE 4319: Teaching Mathematics in the Middle Grades*
MATE 4323: Teaching High School Mathematics
MATH 4324: Internship in High School Mathematics
MATH 4325: Seminar: Issues in High School Mathematics*
MATE 4503: Independent Study in Mathematics Education*
MATE 5251: Modern Mathematics for Elementary Teachers*
MATE 6211: Research in Mathematics Education*
MATE 6323: Issues and Trends in Mathematics
MATE 6331: Reasoning with Number and Algebra
MATE 6361: Measurement across the Curriculum*
MATE 6371: Teaching and Learning Algebra*
MATE 6400: Capstone Project in the MAEd*
EDTC 4001: Technology in Education

University of Alabama (2002 – 2008)

CEE 380: Teaching Mathematics to Children (Special Education section)*
CSE 390: Instruction and Accommodation in Secondary Schools
CSE 406: Curriculum in Secondary Mathematics*
CSE 483 / 583: Teaching Secondary School Mathematics*
CSE 566 / 666: Improving Mathematics Instruction*
CSE 595: Practicum in Secondary Education
CSE 670: Research and Theory in Secondary Education*
CSE 695: Practicum in Secondary Education
CSE 697: Educational Specialist Degree Research
CSE 699: Dissertation Research

CIE 680: Seminar for Research in Mathematics Education*

CIE 694: Directed Independent Study

Florida State University (1990 – 1996)

MAC 1105: College Algebra

MAC 1106: Mathematics for the Liberal Arts

MAC 1007: Finite Mathematics

MAC 1114: Analytic Trigonometry

MAC 1140: Pre-calculus Algebra

MTG 4212: College Geometry*

MAE 4220: Teaching Algebra and Geometry*

MAE 4320: Teaching Mathematics in the Middle School*

MAE 4945. Student Teaching in Mathematics

GRADUATE THESIS / DISSERTATION ADVISING

University of Alabama	East Carolina University
3 – Doctoral Dissertations - Chair 18 – Doctoral Dissertation Committees 21 – Educational Specialist Theses – Chair	1 – Doctoral Dissertation Committee

SERVICE

Institutional Service – East Carolina University

- COE Assessment and Accreditation Committee (2012 – 2023)
- NCATE Representative for MSITE 2015
- CAEP Key Assessment Representative for MSITE, (2017 – 2023)
- MATE Representative for CAEP Review of Elem. Math Certificate (2019 – 2021)
- Rural Education Initiative – Comprehensive Review Participant (2019)
- COE Advisory Board (2015 – 2017)
- COE Assessment Review Committee (ARC) (2014 – 2023)
- MATE Assessment coordinator (SACS) (2012- 2023)
- COE Curriculum Committee (2012 – 2016)
- MATE representative for MSITE Executive Advisory Council (2011 – 2014)
- COE Scholarship Committee (2012-2013; 2015)
- COE representative on Graduate School Administration Board (2010 – 2011)
- Graduate coordinator for Mathematics Education (2009 – 2012)
- Member, MSITE Personnel Committee (2009 – 2023)

- Chair, MSITE Personnel Committee (2015 – 2023)
- Chair, MSITE Tenure & Promotion Committees (2013 – 2023)
- Chair, MSITE Curriculum Committee (2008 – 2009)
- Master of Arts of Teaching in Mathematics development committee (2008 – 2010)
- Advisor for ECU Mathematics Education Club (Gamma Chapter) (2010 – 2012)
- Undergraduate Math Education secondary program revision committee (2012 – 2014)
- Science Education Search Committees (2014; 2016)
- edTPA Liaison (TPAL) for Mathematics Education program (2013 – present)
- General: Upper Division interviews, letters of recommendation, peer observations of teaching; Faculty180 Beta Tester.

Institutional Service –University of Alabama

- Member of COE Academic Bankruptcy Committee (2007 – 2008)
- Member of Alternative Certification Committee (2006 – 2008)
- C&I representative for Alabama DOE Special Education Collaborative (2005 – 2008)
- Member of COE Exceptions Review Board (2005 – 2008)
- United Way representative for C&I Department (2005)
- Member of COE Undergraduate Scholarship Committee (2004 – 2008)
- Coordinator of the Secondary Mathematics Education program (2003 – 2008)
- Member of six faculty search committees (2003 – 2008)
- Liaison between COE and Math Department (2002 – 2008)
- Pre-Intern & Intern Supervisor (2002 – 2007)
- Advisor on joint ITEST NSF Grant, Preliminary Proposal (2002 – 2003)
- Member of collegiate EdS program committee (2003 – 2005)
- Secondary math education advisor (academic advising, TEP interviews/writing, doctoral screenings, proctoring master's comprehensive exams, supervision of pre-interns; program of study committees; doctoral pre-dissertation advising, etc.) (2002 – 2008)

Service to the Community

- *MathCounts* Middle School Mathematics Competition, Grader (1999 – 2002; 2009 – 2013)
- East Carolina Mathematics Fair, Judge (1999 – 2002; 2009 – 2018)
- Mathematics Curriculum Consultant for the Center for Science, Mathematics, and Technology Education at East Carolina University (1998 – 2002)
- Consultant: Leon County Schools (FL); Pitt County Schools (NC); Greene County Schools (NC); Lenoir County Schools (NC); Beaufort County Schools (NC) [Snowden Elementary];

Wayne County Schools (NC) [Wayne School of Engineering]; Beaufort County Schools (NC); Tuscaloosa City Schools (AL); Tuscaloosa County Schools (AL); Hale County Schools (AL).

Service to the Profession

- RCML Conference Committee (2020 – 2023)
- RCML Awards Committee (2022 – 2023)
- Reviewer for NSF Noyce Scholars Program Proposals (2019)
- NCCTM Conference Co-Chair (2013 – 2014)
- NCCTM Board of Directors (2011 – 2013)
- NCCTM Vice-President for Colleges (Eastern Region) (2011 – 2013)
- *Population Education* Workshop Facilitator and Curriculum Reviewer (2009 – 2020)
- Program Committee for NCSM Conference (2006 – 2007)
- NCTM Delegate for West Alabama Council of Teachers of Mathematics (2003 – 2007)
- Editorial Panel – *Mathematics Teacher* (2004 – 2007)
- Reviewer for the *Diagnostic Mathematics Assessments for Elementary / Middle School Teachers Project* (Univ. of Louisville) (2004 – 05)
- Reviewer for the *Teacher Education Materials Project* (2000)

Reviewer for conference presentation proposals

- American Educational Research Association (2000 – 2004; 2006, 2008)
- Psychology of Mathematics Education (NA chapter) (1996 – 2008)
- Mid-South Educational Research Association (2006 – 2007)
- National Council of Teachers of Mathematics (2002 – 2017)
- National Council of Supervisors of Mathematics (2006 – 2008)
- Research Council for Mathematics Learning (2015 – present)
- School Science and Mathematics Association (2020 – present)

Memberships in Professional Societies

- Association of Mathematics Teacher Educators (AMTE)
- National Council of Teachers of Mathematics (NCTM)
- North Carolina Association of Mathematics Teacher Educators (NC-AMTE)
- North America Chapter of the Psychology of Mathematics Education (PME-NA)
- North Carolina Council of Teachers of Mathematics (NCCTM)
- Research Council on Mathematics Learning (RCML)
- School Science and Mathematics Association (SSMA)

Leadership Roles in Professional Societies

- RCML Conference Committee (2020 – 2023)
- RCML Scholarship / Travel Award Committee (2022 – 2023)
- North Carolina Council of Teachers of Mathematics Conference Co-Chair (2013 – 2014)
- NCCTM Board of Directors (2011 – 2013)
- NCCTM Vice President – Eastern Region (2011 – 2013)
- Member of Editorial Panel – *Mathematics Teacher* (2004-2007)
- NCTM Delegate Representative for the West Alabama Council of Teachers of Mathematics (2003 – 2007)

Teaching Certificates

- North Carolina: Mathematics, Grades 6-12 (2000 – 2005; 2008 – Present)
- Texas: Mathematics, Grades 6-12 (1996 – Life)
- Louisiana: Mathematics / Social Studies, Grades 6-12 (1987 – 1990)