

# Kayla Chandler

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## Education

PhD in Mathematics Education, North Carolina State University, May 2017

Dissertation Title: *Examining How Prospective Secondary Mathematics Teachers Notice Students' Thinking on a Paper and Pencil Task and a Technology Task*

Chair: Dr. Karen Hollebrands

MAEd in Mathematics Education, East Carolina University, July 2010

Thesis Title: *The Impact of Journal Writing on Students' Problem Solving in Mathematics*

Advisor: Dr. Anthony Thompson

BS Secondary Mathematics Education, BA Mathematics, Minor in Business Administration,  
East Carolina University, May 2009

AS, College of the Albemarle, May 2006

## Licensure

North Carolina Teaching License, Secondary Mathematics

*2009-Present*

## Professional Experience

### Post Secondary Experience

*Assistant Professor, East Carolina University*

*August 2019-Present*

#### Courses Taught:

MATE 1267 Functional Relationships

MATE 2129 Investigations into Concepts of Elementary Mathematics

MATE 3060 Mathematics & Methods for Grades 3-6

MATE 3167 Geometry & Measurement

MATE 3300 Foundations of Geometry (Formerly Geometry for High School Teachers)

MATE 4324 Internship in High School Mathematics

MATE 6331 Reasoning with Number & Algebra

MATE 6341 Teaching & Learning of Geometry

MATE 6351 Data Analysis & Probability in the Middle Grades

MATE 6361 Measurement Across the Curriculum

LEED 8440 Applied Research Design in Educational Leadership

LEED 8992 Doctoral Internship Research Practicum

*Curriculum Developer, Summer Ventures in Science and Mathematics, STEM Center, East Carolina University* *Summer 2022*  
Co-developed curriculum with two other faculty for the Discrete Mathematics course.

*Consultant, Iredell-Statesville Schools* *September 2021-May 2022*  
Provide PD and support for instructional coaches at the middle and high school level. The primary focus is to investigate grade-relevant content and pedagogy associated with the North Carolina State Standards in Mathematics and to ensure fidelity in instructional experiences. With respect to this content and pedagogy, the PD sessions consider: how to support possible gaps in teacher understanding, examine vertical alignment with teachers, and model high quality planning and instruction.

*Project Consultant, East Carolina University* *May 2019-December 2021*  
Project I4: Innovate, Inquire, Iterate, and Impact: Igniting the Power of Network Improved Communities to Enhance Professional Learning for Educational Leaders, U.S. Department of Education SEED Grant

*MSITE Department Consultant, East Carolina University* *Summer 2019*  
Developed Guidelines for Recruitment & Retention of High School Mathematics Teacher Candidates for the Department of Mathematics, Science, and Instructional Technology Education

*Professional Development Instructor*  
Desmos Computation Layer, MELT Summer Institute, five days,  
Appalachian State University, Boone, NC *July 2022, July 2023*

Desmos (9-12), MELT Summer Institute, five days,  
Appalachian State University, Boone, NC *June 2021, June 2022*

Desmos: Intro-Advanced, MELT Summer Institute, 30-hours, online, asynchronous PD,  
Appalachian State University, Boone, NC *Summer 2020*

Desmos (6-12), MELT Summer Institute, 17-hours, online, asynchronous PD,  
Appalachian State University, Boone, NC *Summer 2020*

Digital Learning (K-5), MELT Summer Institute, five days,  
Appalachian State University, Boone, NC *July 2019*

Digital Learning (6-12), MELT Summer Institute, five days,  
Appalachian State University, Boone, NC *July 2019*

Principles to Action: Elicit and use evidence of student thinking, one hour workshop for district K-12 math team, Greene County Middle School, Snow Hill, NC *October 2017*

Algebraic Thinking, Algebra, & Functions (6-8), MELT Summer Institute, five days,  
Appalachian State University, Boone, NC *July 2017*

Integrating Technology into Mathematics (6-12), MELT Summer Institute, five days,  
Appalachian State University, Boone, NC *June 2017*

Integrating Technology into Mathematics, MELT Summer Institute, five days,  
Appalachian State University, Boone, NC *June 2015*

Middle School Geometry: Surface Area and Volume, one day workshop, Greene County  
Middle School, Snow Hill, NC *August 2014*

Geometry through Common Core Math 1-3, MELT Summer Institute, five days,  
Appalachian State University, Boone, NC *July 2014*

Math Drive-in, one-day workshop, Greene Early College High School,  
Snow Hill, NC *February 2012*

*Graduate Research Assistant, North Carolina State University August 2012-August 2016*

Preparing to Teach Mathematics with Technology: Expanding, Transforming & Building  
Community (PTMT-ETC), NSF Funded TUES & S-STEM Grant 1123001

- Managed project website, collaborative wikispace, and interactive web portal
- Utilized Adobe Creative Suite programs (e.g., InDesign, Illustrator) to create newly formatted versions of our curricular materials for use on the web portal
- Handled communication with participating mathematics teacher educators
- Assisted in writing annual report submitted to NSF
- Co-developed facilitator's guide for Geometry and Algebra books
- Disseminated surveys to participating mathematics teacher educators and compiled and analyzed the data
- Facilitated planning for one summer institute and two webinars for professional development of participating mathematics teacher educators
- Researched students' development of the concept of function through use of dynamic geometry software
- Researched the beliefs and practices of mathematics teacher educators in relation to technology

*Adjunct Mathematics Education Instructor, East Carolina University*

MATE 6351 Data Analysis and Probability in the Middle Grades (online section) *Spring 2018*

MATE 1267 Functional Relationships (traditional section) *Spring 2016*

MATE 3267 Concepts in Discrete Math (traditional sections) *Fall 2013-Fall 2015*

MATE 3167 Geometry and Measurement (online section) *Spring 2013*

MATE 3267 Concepts in Discrete Math (online sections) *Fall 2010-Fall 2012*

MATE 3367 Mathematical Modeling (online section) *Spring 2012*

*University Supervisor, East Carolina University*  
Supervised high school mathematics interns

*Spring 2015*

*MELT Curriculum Author, Appalachian State University*

*Summers 2014-2015, 2017*

- Designed or co-designed curricula for Mathematics Education Leadership Training (MELT) summer institutes
- Institutes developed: Teaching and learning high school and middle grades mathematics through technology, Probability and statistics through Common Core math 1-3, Common Core math 2, Geometry through Common Core Math 1-3, Algebraic Thinking, Algebra, & Functions (6-8), Integrating Technology into Mathematics (6-12)

*Data Collector, University of Rochester*

*October 2013-March 2015*

Developing Principles for Mathematics Curriculum Design and Use in the Common Core Era (ERGO), NSF Funded DRK-12 Grant 1222359

- Conducted, summarized, and processed video from pre-lesson interviews and observations

*Graduate Teaching Assistant, North Carolina State University*  
EMS 480 Teaching Mathematics with Technology

*Fall 2013-Spring 2014*

*Graduate Assistant, East Carolina University*

*Summer 2009*

- Collaboratively developed an online version of a discrete math course that utilized Blackboard for instruction and was the teaching assistant for the course, MATE 3267 Concepts in Discrete Math
- Developed graduate and undergraduate courses for reading and writing in the math content area
- Organized and analyzed data from 1200+ articles on diversity research
- With a professor, proposed math statewide pacing guides (K-12) in response to the proposed Essential Standards

## **K-12**

*Mathematics Teacher, Innovation Early College High School*

*July 2018-June 2019*

Courses Taught: Math I, Math II, and Math III

Other Responsibilities: Math Department Chair, Beginning Teacher Lead Mentor, Member of School Leadership Team, Member of the School Improvement Team, Fundraising Coordinator

*Mathematics Teacher, Greene County Middle School*

*August 2017-June 2018*

Courses Taught: 8<sup>th</sup> Grade Math and 8<sup>th</sup> Grade STEM Math

Other Responsibilities: Conduct professional development for county mathematics team, Math Counts Club Sponsor, Updated 8<sup>th</sup> grade curriculum maps

*Mathematics Teacher, Greene Central High School*

*August 2016-August 2017*

Courses Taught: Math II and Math III

Other Responsibilities: Junior Advisor; After School Academy Instructor

*Online Curriculum Assistant, MPS Publishing* *March 2015 – May 2015*  
Larson Texts High School Mathematics Assessment Cloning Project

*Second Grade Internship, Opendoor School* *February 2015 – April 2015*

*Mathematics Teacher, Greene Early College High School* *August 2009-May 2012*  
Courses Taught: Geometry and Discrete Mathematics  
Other Responsibilities: Member of School Leadership Team; Fundraising Coordinator;  
Senior Student Advisor; Member of the Graduation Committee

*Summer Science Camp Counselor, East Carolina University* *Summer 2008*  
Courses Taught: CSI (Crime Scene Investigation); Moon, Mars, and Beyond; VEX  
Robotics; Secret Formulas; Wright Brothers  
Other Responsibilities: Designed VEX Robotics curriculum and revised CSI curriculum

*Private Tutor* *2004-2013, 2015-2016*

### **Publications**

**Chandler, K.** (In press). Comparing teacher noticing on paper and pencil and technology tasks. *School Science and Mathematics*.

**Chandler, K.,** Adu-Gyamfi, K., Preston, R. (2023). Making connections explicit. *Mathematics Teacher: Learning and Teaching Pre-K-12*, 116(8), 572-585.  
<https://doi.org/10.5951/MTLT.2022.0345>

**Chandler, K.,** & Marketto, C. D. (2023). The dream car project: An example of a personalized, real world mathematics task. *The Centroid*, 49(1), 11-18.

Witt, N., **Chandler, K.,** Cayton, C., Suh, J. M., McCulloch, A., Hollebrands, K., & Davis, J. D. (2023). Conceptualizing the role of technology in equitable mathematics classrooms. In Lamberg, T., Moss, D., Waddell, G., Wiest, L., Welder, R., & Crawford-Ferre, H. (Eds), *Proceedings of the 45<sup>th</sup> Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. University of Nevada.

Cayton, C., & **Chandler, K.** (2022). A learning sequence for developing technology tasks that support students' mathematical thinking: A replication study. *International Journal of Mathematical Education in Science and Technology*.  
<https://doi.org/10.1080/0020739X.2022.2139776>

**Chandler, K.,** & Cayton, C. (2022). The adapted IGS framework: Designing Desmos tasks. In A. E. Lischka, E. B. Dyer, R. S. Jones, J. Lovett, J. Strayer, & S. Drown (Eds), *Proceedings of the 44<sup>th</sup> Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, (pp. 1950-1954). Middle Tennessee State University. <https://doi.org/10.51272/pmna.44.2022>

Jobrack, M., Bossé, M. J., **Chandler, K.,** & Adu-Gyamfi, K. (2018). Problem-solving trajectories in a dynamic mathematics environment: The Geometer's Sketchpad.

- International Journal for Mathematics Teaching and Learning*, 19(1), 69-89. Retrieved from <https://www.cimt.org.uk/ijmtl/index.php/IJMRTL/article/view/72>
- Adu-Gyamfi, K., Bossé, M. J., & **Chandler, K.** (2017). Student connections between algebraic and graphical polynomial representations in the context of a polynomial relation. *International Journal of Science and Mathematics Education*, 15(5), 915-938. <https://doi.org/10.1007/s10763-016-9730-1>
- Bossé, M. J., Lynch-Davis, K., Adu-Gyamfi, K., & **Chandler, K.** (2017). Instructional and assessment tasks. *Proceedings of the 15<sup>th</sup> Annual Hawaii International Conference on Education*. Honolulu, HI. Retrieved from <http://hiceducation.org/wp-content/uploads/proceedings-library/EDU2017.pdf>
- Sherman, M., Cayton, C., & **Chandler, K.** (2017). Supporting PSTs in using appropriate tools strategically: A learning sequence for developing technology tasks that support students' mathematical thinking. *Mathematics Teacher Educator*, 5(2), 122-157.
- Bossé, M. J., Adu-Gyamfi, K., **Chandler, K.**, & Lynch-Davis, K. (2016). Dynamic Boolean mathematics. *Computers in the Schools*, 33(2), 89-102.
- Bossé, M. J., Lynch-Davis, K., Adu-Gyamfi, K., & **Chandler, K.** (2016). Instruction and learning through formative assessments. *Mathematics Teacher*, 110(5), 372-379.
- Bossé, M. J., Lynch-Davis, K., Adu-Gyamfi, K., & **Chandler, K.** (2016). Using integer manipulatives: Representational determinism. *International Journal for Mathematics Teaching and Learning*, 17(3). Retrieved from <http://www.cimt.org.uk/ijmtl/index.php/IJMRTL/article/view/37>.
- Brown, M., Bossé, M. J., & **Chandler, K.** (2016). Student errors in dynamic mathematical environments. *International Journal for Mathematics Teaching and Learning*. Retrieved from <http://www.cimt.org.uk/ijmtl/index.php/IJMRTL/article/view/5>.
- Chandler, K.**, Fortune, N., Lovett, J. N., & Scherrer, J. (2016). What should Common Core assessments measure? *Phi Delta Kappan*. Retrieved from <https://kappanonline.org/common-core-math-assessments-measure-chandler-fortune-lovett-scherrer/>.
- Adu-Gyamfi, K., Bossé, M. J., & **Chandler, K.** (2015). Situating student errors: Linguistic-to-algebra translation errors. *International Journal for Mathematics Teaching and Learning*, 17(1). Retrieved from <http://www.cimt.org.uk/journal/bosse6.pdf>.
- Hollebrands, K. F., McCulloch, A. W., & **Chandler, K.** (2015). High school students' uses of dragging for examining geometric representations of functions. In T. G. Bartell, K. N. Bieda, R. T. Putnam, K. Bradfield, & H. Dominguez (Eds), *Proceedings of the 37<sup>th</sup> Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, (p. 1252). Michigan State University.
- Sherman, M., Cayton, C., & **Chandler, K.** (2015). Using appropriate tools strategically: A practical framework for selecting and revising DGS tasks. In T. G. Bartell, K. N. Bieda, R. T. Putnam, K. Bradfield, & H. Dominguez (Eds), *Proceedings of the 37<sup>th</sup> Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, (pp. 928-931). Michigan State University.

- Bossé, M. J., Adu-Gyamfi, K., & **Chandler, K.** (2014). Students' differentiated translation processes. *International Journal for Mathematics Teaching and Learning*. Retrieved from <http://www.cimt.org.uk/journal/bosse5.pdf>.
- Bossé, M. J., Ries, H., & **Chandler, K.** (2012). Putting the Modern in Algebra, *PRIMUS: Problems, Resources, and Issues in Mathematics Undergraduate Studies*, 23(1), 1-12.

### **Presentations**

- Witt, N., **Chandler, K.**, Cayton, C., Suh, J. M., McCulloch, A., Hollebrands, K., & Davis, J. D. (2023, October). *Conceptualizing the role of technology in equitable mathematics classrooms*. Working Group at the 45<sup>th</sup> Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. Reno, NV.
- Chandler, K.**, & Cayton, C. (2022, November). *The adapted IGS framework: Designing Desmos tasks*. Brief Report presented at the 44<sup>th</sup> Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. Nashville, TN.
- Chandler, K.** & Cayton, C. (2022, February). *Supporting students' thinking when using math action tools: A framework for evaluating and designing tasks*. Individual Session presented at the 26<sup>th</sup> Annual Meeting of the Association of Mathematics Teacher Educators. Las Vegas, NV.
- Chandler, K.** (2020, February). *Examining prospective secondary mathematics teachers' noticing on two tasks*. Individual Session presented at the 24<sup>th</sup> Annual Meeting of the Association of Mathematics Teacher Educators. Phoenix, AZ.
- Cayton, C., Callahan, J., & **Chandler, K.** (2019, November). *Is this vending machine functioning?* Workshop presented at the Annual State Conference of the North Carolina Council of Teachers of Mathematics. Greensboro, NC.
- Chandler, K.**, Davis, H., & Kerner, M. (2019, November). *Experience and create math digital escape rooms*. Workshop presented at the Annual State Conference of the North Carolina Council of Teachers of Mathematics. Greensboro, NC.
- Davis, H., Kerner, M., & **Chandler, K.** (2019, November). *Can you crack the code?* Session presented at the Annual State Conference of the North Carolina Council of Teachers of Mathematics. Greensboro, NC.
- Chandler, K.**, Davis, H., & Nesbitt, M. (2018, November). *Math digital escape rooms*. Session presented at the Annual State Conference of the North Carolina Council of Teachers of Mathematics. Greensboro, NC.
- Davis, H., Nesbitt, M., & **Chandler, K.** (2018, November). *Connecting math to fun!* Workshop presented at the Annual State Conference of the North Carolina Council of Teachers of Mathematics. Greensboro, NC.
- Nesbitt, M., Davis, H., & **Chandler, K.** (2018, November). *Can you crack the code?* Workshop presented at the Annual State Conference of the North Carolina Council of Teachers of Mathematics. Greensboro, NC.

- Chandler, K.**, Davis, H., & Nesbitt, M. (2017, November). *Math digital escape rooms*. Workshop presented at the Annual State Conference of the North Carolina Council of Teachers of Mathematics. Greensboro, NC.
- Davis, H., Nesbitt, M., & **Chandler, K.** (2017, November). *Can you escape?* Workshop presented at the Annual State Conference of the North Carolina Council of Teachers of Mathematics. Greensboro, NC.
- Cayton, C., Sherman, M. F., **Chandler, K.**, & Funsch, A.\* (2017, February). *Teachers' use of the IGS framework to design and implement tasks in high school mathematics*. Research Report presented at the 21<sup>st</sup> Annual Meeting of the Association of Mathematics Teacher Educators. Orlando, FL.
- Sherman, M. F., Cayton, C. & **Chandler, K.** (April, 2016). *Using DGS strategically to support students' thinking*. Interactive Paper presented at the National Council Teachers of Mathematics Research Conference. San Francisco, CA.
- McCulloch, A. W., Lee, H. S., Hollebrands, K. F., **Chandler, K.**, & Lovett, J. N. (2016, January). *Preparing teachers to plan and implement technology-based algebra tasks using open access tools*. Session presented at the 20<sup>th</sup> Annual Meeting of the Association of Mathematics Teacher Educators. Irvine, CA.
- Hollebrands, K. F., McCulloch, A. W., & **Chandler, K.** (2015, November). *High school students' uses of dragging for examining geometric representations of functions*. Poster presented at the 37<sup>th</sup> Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. East Lansing, MI.
- Sherman, M., Cayton, C., & **Chandler, K.** (2015, November). *Using appropriate tools strategically: A practical framework for selecting and revising DGS tasks*. Session presented at the 37<sup>th</sup> Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. East Lansing, MI.
- Bossé, M. J., & **Chandler, K.** (2015, April). *Building mathematical thinkers through inquiry and assessment*. Session presented at the 93<sup>rd</sup> Annual Meeting of the National Council of Teachers of Mathematics. Boston, MA.
- Cayton, C., Sherman, M., & **Chandler, K.** (2015, April). *Beyond bells and whistles: Evaluating and designing dynamic geometry tasks*. Workshop presented at the 93<sup>rd</sup> Annual Meeting of the National Council of Teachers of Mathematics. Boston, MA.
- Sherman, M., Cayton, C., & **Chandler, K.** (2015, February). *Supporting teachers using appropriate tools strategically: A framework for evaluating and designing DGS tasks*. Research Report presented at the 19<sup>th</sup> Annual Meeting of the Association of Mathematics Teacher Educators. Orlando, FL.
- Chandler, K.**, Whitehead, A., & Nickell, J. (2014, November). *"There's an app for that!" Geometer's Sketchpad on the iPad*. Session presented at the Regional Conference of the National Council of Teachers of Mathematics. Richmond, VA.
- Nickell, J., **Chandler, K.**, & Whitehead, A. (2014, November). *Developing students' abilities to describe and reason about data*. Session presented at the regional conference of the National Council of Teachers of Mathematics. Richmond, VA.



- Blevins, A., & **Chandler, K.** (2014, October). *Engaging probability and stats activities*. Workshop presented at the Annual State Conference of the North Carolina Council of Teachers of Mathematics. Greensboro, NC.
- Bossé, M. J., **Chandler, K.**, & Braswell, M. (2014, October). *Math ed leadership training*. Session presented at the Annual State Conference of the North Carolina Council of Teachers of Mathematics. Greensboro, NC.
- Chandler, K.**, Cayton, C., & Nickell, J. (2014, October). *Designing technological tasks*. Workshop presented at the Annual State Conference of the North Carolina Council of Teachers of Mathematics. Greensboro, NC.
- Chandler, K.**, & Reeder, A. (2014, October). *Applying Cavalieri's principle*. Session presented at the Annual State Conference of the North Carolina Council of Teachers of Mathematics. Greensboro, NC.
- Miller, J., & **Chandler, K.** (2014, October). *Teach congruence with technology*. Session presented at the Annual State Conference of the North Carolina Council of Teachers of Mathematics. Greensboro, NC.
- Chandler, K.** (2014, May). *Views of proof and corresponding proof schemes of secondary prospective teachers*. Poster presented at the Annual STEM Education Research Symposium. Raleigh, NC.
- Cayton, C., Sherman, M., McCulloch, A., Nickell, J., & **Chandler, K.** (2014, April). *Technological tasks, cognitive demand in secondary classrooms, and teacher education*. Research Symposium at the Annual National Council of Teachers of Mathematics Research Conference. New Orleans, LA.
- Lee, H. S., Bos, B., Ozgun-Koca, A., Nickell, J., & **Chandler, K.** (2014, February). *Supporting teachers in developing technology-based mathematics tasks*. Extended Session presented at the 80<sup>th</sup> Annual Meeting of the Association of Mathematics Teacher Educators. Irvine, CA.
- Nickell, J., & **Chandler, K.** (2013, November). *Stats & CCSSM. Where to begin?* Session presented at the Annual State Conference of the North Carolina Council of Teachers of Mathematics. Greensboro, NC.
- Chandler, K.**, & Nickell, J. (2013, October). *How to use GSP on the iPad*. Session presented at the Annual State Conference of the North Carolina Council of Teachers of Mathematics. Greensboro, NC.
- Chandler, K.**, Avineri, T., & Nickell, J. (2013, May). *Developing informal inference in the middle grades through exemplary tasks*. Poster presented at the United States Conference on Teaching Statistics (USCOTS). Raleigh, NC.
- Lee, H. S., Hollebrands, K. F., McCulloch, A., Gonzalez, M., Pulis, T., Whitley, K. B., & **Chandler, K.** (2013, April). *Preparing to teach mathematics with technology: Results from 8 years of teacher education curriculum development, dissemination, and research*. Invited Session for the Friday Institute Brownbag Series. Raleigh, NC.

Bossé, M. J., Fogt, K., & **Sullivan, K.** (2008, October). *Folding origami on Geometer's Sketchpad*. Session presented at the Annual State Conference of the North Carolina Council of Teachers of Mathematics. Greensboro, NC.

Bossé, M. J., **Sullivan, K.**, & Fogt, K. (2008, February). *The impact of defining simplifying on teaching and learning*. Session presented at the regional conference of the North Carolina Council of Teachers of Mathematics. Raleigh, NC.

### Grants

Hollebrands, K. F., & **Chandler, K.** (Funded; 2023-2028; \$1,999,859). [Principal Investigator, ECU] *Collaborative Research: Preparing Future Middle and High School Mathematics Teachers to Lead Productive Geometry Discussions using Web-Based Dynamic Geometry Technology Tools (PTMT: LEAD DG)*. Improving Undergraduate STEM Education Grant: National Science Foundation.

Hollebrands, K. F., & **Chandler, K.** (Declined; 2022-2027; \$2,839,850). [Principal Investigator, ECU] *Preparing to Teach Mathematics with Technology: LEAding Productive Mathematics Discussions with Web-Based Dynamic Geometry Tools (PTMT: LEAD DG)*. Improving Undergraduate STEM Education Grant: National Science Foundation.

### Awards

*STaR Fellow, AMTE* 2021  
Selected fellows participate in a collaborative, early career induction program for tenure track faculty to develop leadership and service skills, establish a research agenda, and focus on developing and teaching courses in mathematics education.

Nominee for the *Presidential Award for Excellence in Mathematics and Science Teaching (PAEMST)* 2018-2019  
This award recognizes teachers with deep content knowledge and excellent teaching in their respective subject areas.

*University Graduate Fellowship, North Carolina State University* 2012-2013  
This award is given to selected outstanding new doctoral students.

*Outstanding Senior Award, East Carolina University* May 2009  
This award is given to the best overall graduating Mathematics B. A. or B. S. major.

*The Eron-Vittitow Scholarship, East Carolina University* May 2009  
This scholarship supports full-time students enrolled in the Department of Mathematics.

*The Pignani-Archer Scholarship, East Carolina University* May 2009  
This scholarship is given to the graduating Mathematics major with the highest overall grade point average since the last May graduation.

*Mathematics Education Scholarship, East Carolina University* 2008-2009

This scholarship given to Mathematics Education majors with a minimum GPA of 3.00 overall and in mathematics.

*Student Ambassador, College of the Albemarle* 2005-2006  
 Chosen students serve the College in one-year appointments; selection is based on grade point average, character, leadership potential, and community involvement.

### Professional Service

#### *Officer*

Vice President for Colleges & Universities, NCCTM 2021-2023  
 Treasurer, AMTE-NC 2021-2023

#### *Member*

Curriculum Committee, Department Committee, ECU 2023-Present  
 Mathematics Teacher Education Partnership for NC 2020-Present  
 Bulletin Board & Display Cases, Department Committee, ECU 2019-Present  
 Library Committee, College of Education Committee, ECU 2021-2023  
 Social Committee, Department Committee, ECU 2020-2022  
 Scholarship Scoring, College of Education, ECU 2020

#### *Advisor*

NCCTM Gamma Student Chapter, Co-faculty Advisor, ECU 2021-Present  
 MELT Board of Advisors, ASU 2018-Present

*Eastern Regional Math Fair Judge, NCCTM* 2019

#### *Reviewer of Conference Proposals*

Association of Mathematics Teacher Educators 2014-2016, 2019-Present  
 National Council of Teachers of Mathematics 2014-2015  
 North American Chapter of the International Group  
 for the Psychology in Mathematics Education 2015, 2023

#### *Reviewer of Journal Article Submissions*

*International Journal for Mathematics Teaching & Learning* 2020-Present  
*School Science and Mathematics* 2014-Present  
*Mathematics Teacher* 2014-2019

### Membership in Professional Organizations

Association of Mathematics Teacher Educators of  
 North Carolina 2019-Present

|  |                         |
|--|-------------------------|
| North American Chapter of the International Group<br>for the Psychology of Mathematics Education | 2013-2016, 2019-Present |
| Association of Mathematics Teacher Educators   | 2013-2016, 2018-Present |
| National Council of Teachers of Mathematics  | 2013-2016, 2018-Present |
| North Carolina Council of Teachers of Mathematics  | 2007-2009, 2011-Present |