

# McKenzie Brittain, Ph. D.

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Marshall University College of Education and Professional Development  
Department of Curriculum and Instruction

## ACADEMIC BACKGROUND

2015- 2020	CLEMSON UNIVERSITY, Clemson, South Carolina <b>Ph.D.</b> in Curriculum and Instruction
2012-2014	CLEMSON UNIVERSITY, Clemson, South Carolina <b>Master of Education</b> in Teaching and Learning Concentration: Secondary Mathematics
2007-2011	CLEMSON UNIVERSITY, Clemson, South Carolina <b>Bachelor of Science</b> in Mathematics Teaching Concentration: Secondary Mathematics

## ACADEMIC APPOINTMENTS

August 2020-Present	MARSHALL UNIVERSITY, South Charleston, West Virginia <b>Assistant Professor, Department of Curriculum and Instruction</b> <b>Mathematics Graduate Education Program Coordinator</b> Elementary Mathematics Specialist Program Mathematics Through Algebra 1 Program
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## PROFESSIONAL POSITIONS

2020-2022	BRASHIER MIDDLE COLLEGE CHARTER HIGH SCHOOL <b>Mathematics Teacher (Part-time)</b> Algebra 2 CP, Algebra 2 Honors
Summer 2019, 2020, 2021	EMERGING SCHOLARS PROGRAM, Clemson University <b>Mathematics Teacher</b>
2017-2018	BRASHIER MIDDLE COLLEGE CHARTER HIGH SCHOOL <b>Mathematics Teacher</b> Algebra 2 Honors, Algebra 2 CP, Precalculus CP
2013-2016	POWDERSVILLE HIGH SCHOOL, Anderson School District 1 <b>Mathematics Teacher</b> Geometry Honors, Algebra 1 CP, Foundations in Algebra, Math Tech II, Algebra 2 CP, Algebra 2 Tech, Probability and Statistics CP
2012-2013	GREENVILLE SENIOR HIGH SCHOOL, Greenville County School District <b>Mathematics Teacher</b> Geometry Honors, Algebra 1 B, Algebra 2 CP, Algebra 3 CP

## LICENSURE

**PROFESSIONAL PRODUCTIVITY****Publications:**

Tyminski, A. M., Castro-Superfine, A., & **Brittain, M. H.** (2025). Prospective teacher's knowledge of children's multiplicative thinking: Learning trajectory-based instruction in a mathematics course. *The Mathematics Educator*. 13(3), 191-205.

Tyminski, A. M., & **Brittain, M. H.** (2022). Scholarly practice and inquiry: Dynamic interactions in an elementary mathematics methods course. *The Mathematics Educator*. 30(2), 64-93.

Cridland-Hughes, S., **Brittain, M.**, & Che, M. (2019). Using Photovoice to Resist Colonial Research Paradigms. In K. Strunk, & L. Locke, *Research Methods for Social Justice and Equity in Education* (pp. 163-175). Cham, Switzerland: Palgrave Macmillan.

**Proceedings:**

**Brittain, M. H.**, Che, S., Gomez, C. N. (March 2020). *Girls' mathematical discourse in single-sex and coeducational classrooms*. Proceedings of the Annual Conference of the Research Council on Mathematics Learning. Las Vegas, Nevada.

Tyminski, A. M. & **Brittain, M. H.** (2017). *Scholarly practice and inquiry: Dynamic interactions in an elementary mathematics methods course*. In Newton, J. A. & Galindo, E.. (Eds.) Proceedings of the 39th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. (pp. 837-844). Indianapolis, IN: HAMTE.

**National and International Conference Presentations:**

Heaton, L. & **Brittain, M.** (2025). Exploring the Use of SmartPens in Research. In *Proceedings of SITE 2025* (pp. 1258-1261). Waynesville, NC USA: Association for the Advancement of Computing in Education (AACE). Retrieved March 26, 2025 from <https://www.learntechlib.org/primary/p/225678/>.

**Brittain, M. H.**, McCormick, L., (August 2023). In the wake of COVID-19: A discussion about higher education teacher preparation programs' strategies to meet practicum requirements for student teaching. Presentation at the Society for Information Technology and Teacher Education Interactive Online 2023 Conference. Virtual Conference.

McFall, K., Heaton, L., **Brittain, M.H.** (November 2022). *Teacher Preparedness: A study of technology integration*. Poster Presentation at the Mid-South Educational Research Association. Little Rock, Arkansas.

McCormick, L., **Brittain, M. H.** (October 2022). *From emergency remote learning until now: The evolution of online teaching and learning strategies for teacher practicum*. Birds of a Feather Presentation at the Society for Information Technology and Teacher Education Interactive Online 2022 Conference. Virtual Conference.

**Brittain, M. H.**, McFall, K. (April 2021). *Navigating the post-pandemic learning landscape*. Virtual Presentation at the University of Wroclaw, Poland.

**Brittain, M. H.**, Che, S., Gomez, C. N. (March 2020). *Girls' mathematical discourse in single-sex and coeducational classrooms*. Research presentation at the Annual Conference of the Research Council on Mathematics Learning. Las Vegas, Nevada.

Cridland-Hughes, S., **Brittain, M.**, Che, M. (April 2019). *Five questions: Using photovoice to resist colonial research paradigms*. Poster presentation at the annual meeting of the American Educational Research Association. Toronto, Canada.

**Brittain, M.** (March 2019). *Pre-service teachers' support of argumentation during a co-planned lesson*. Poster presentation at the 46th annual meeting of the Research Council on Mathematics Learning. Charlotte, North Carolina.

Gomez, C. N., Jones, S., Latimer, Y., Tanck, H., **Brittain, M.** (February 2019). *Graduate students' developing identities as mathematical education researchers*. Presentation at the 23rd annual meeting of the Association of Mathematics Teacher Educators. Orlando, Florida.

Tyminski, A. M., Castro-Superfine, A. M., & **Brittain, M. H.** (November 2018). *Prospective elementary teachers' noticing: Introducing a trajectory of children's multiplicative thinking in a content course*. Poster presentation for the 40th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. Greenville, SC: University of South Carolina & Clemson University.

**Brittain, M.**, Che, S., and Cridland-Hughes, S. (April 2018). *Exploring single sex education using photovoice methodology*. Roundtable presentation at the 2018 Annual Meeting of the American Educational Research Association. New York, NY.

Land, T. L., **Brittain, M. H.**, & Tyminski, A. M. (April 2018). *Profile of teachers' number choice use in problem posing*. Paper presented at the 2018 Annual Meeting of the American Educational Research Association. New York, NY.

Tyminski, A. M., **Brittain, M.** (October 2017). *Scholarly practice and inquiry: Dynamic interactions in an elementary mathematics methods course*. Paper presentation at the 39th annual meeting of the North American Chapter of the International Group for the International Group for the Psychology of Mathematics Education. Indianapolis, IN.

Che, S.M., Cridland-Hughes, S., **Brittain, M.** (March 2017). *Student perspectives: Photovoice methodology in mathematics classrooms*. Presentation at Research Council on Mathematics Learning. Fort Worth, Texas.

### **Regional Conference Presentations:**

**Brittain, M.H.**, Rich, L. (February 2025). Implementation of Desmos Technology: Faculty and Graduate Student Co-Development of a Graduate Level Online Course. Birds of a Feather Presentation at the Eastern Educational Research Association. Hilton Head, SC.

**Brittain, M.H.**, Heaton, L. (February 2024). Using Technology to Improve Qualitative Data Collection. Birds of a Feather Presentation at the Eastern Educational Research Association. Clearwater, FL.

Heaton, L., **Brittain, M.H.**, McFall, K. (October 2023). Leading in a Digital World: Supporting Technology Integration. Birds of a Feather Presentation at the Southern Regional Council on Educational Administration. Huntington, WV.

**Brittain, M.H.**, Heaton, L. McFall, K., (February 2023). Technology Integration: Teacher Descriptions of Favorite Ways to Incorporate Technology Activities into Classrooms. Presentation at the Eastern Educational Research Association. Myrtle Beach, SC.

McFall, K., **Brittain, M.**, Heaton, L. A., Hussell-Davis, J., Allen, T., Watson, G. R., (November 10, 2022). Teacher Preparedness: A Study of Technology Integration. Mid-South Educational Research Association. Little Rock, AR.

**Brittain, M. H.**, Che, S. (February 2021). *Girls' construction of mathematical discourse in a middle grades single-sex classroom*. Research presentation at the Annual Conference of the Eastern Educational Research Association. Virtual Conference.

### State Conference Presentations:

Nwosu, C., Heaton, L., **Brittain, M.H.**, (July 2023). *Engage Students with Creative and Collaborative Opportunities*. Presentation at the Annual West Virginia Technology Conference. Morgantown, WV.

Heaton, L., **Brittain, M.H.**, McFall, K., Gildein, M., (July 2022). *Integrating Authentic Learning and Assessment Activities into Instruction*. Presentation at the Annual West Virginia Technology Conference. Morgantown, WV.

Heaton, L., McFall, K., Allen, T., **Brittain, M.H.**, (July 2021). *Awesome apps for teaching and learning*. Presentation at the Annual West Virginia Technology Conference. Virtual Conference.

### University Conference Presentations:

Tyminski, A. M., **Brittain, M.** (April 2017). *Scholarly practice and inquiry: Dynamic interactions in an elementary mathematics methods course*. College of Education Research Forum. Clemson University. Clemson, SC.

### University and College Level Invited Presentations:

**Brittain, M.** (October 2018). *Clemson's college of education graduate student experience*. Graduate Student Representative at the Senior Advisory Board Meeting. Clemson University. Clemson, SC.

### AWARDS

2025	MARSHALL UNIVERSITY, South Charleston, WV Graduate College <b>Dr. Dorothy "Dot" Hicks COEPD Annual Faculty Award for Excellence in Teaching</b>
2023	MARSHALL UNIVERSITY, South Charleston, WV Graduate College <b>Dr. C Robert Barnett COEPD Annual Faculty Award for Excellence in Research</b>

2022 MARSHALL UNIVERSITY, South Charleston, WV  
Graduate College  
**Frances and John Rucker Award for Outstanding Graduate Advising**

2016 CLEMSON UNIVERSITY, Clemson, SC  
School of Education  
**Cooperating Teacher of the Year**

## **UNIVERSITY TEACHING**

**Marshall University:** August, 2020 to Present  
College of Education and Professional Development  
Department of Curriculum and Instruction

### **Department of Curriculum and Instruction, Assistant Professor:**

*CIME 500, Mathematics for Elementary Teachers I (Fall, 2020-Present)*  
*CIME 501, Mathematics for Elementary Teachers II (Fall, 2020-Present)*  
*CIME 555, Technical Mathematics for Mathematics Educators (Spring, 2021-Present)*  
*CIME 556, Finite Mathematics for Mathematics Educators (Spring, 2021-Present)*  
*CIME 650, Algebra for Mathematics Educators (Summer, 2021-Present)*  
*CIME 657, Precalculus for Mathematics Educators (Fall, 2020-Present)*  
*CIME 658, Geometry for Mathematics Educators (Summer, 2021-Present)*  
*CIME 670, Teaching Mathematics (Fall, 2020-Present)*  
*CIME 673, Elementary Mathematics Methods and Supervised Field Practicum K-6 (Spring 2022-Present)*  
*CIME 675, Supervised Field Practicum/Seminar in Mathematics 5-9 (Fall, 2021-Present)*  
*EDF 676, Statistical Methods (Fall, 2020-Present)*

**Clemson University:** January, 2018 to May, 2020  
College of Education  
Department of Teaching and Learning

### **Department of Teaching and Learning, Instructor of Record:**

*EDSC 4560, Secondary Mathematics Capstone Seminar (Fall 2019; Spring, 2019; Spring, 2018)*  
*EDSC 4260, Teaching Secondary Mathematics (Fall, 2019; Fall, 2018)*  
*ED 1050, Introduction to Education (Fall, 2019)*

## **PROFESSIONAL EXPERIENCES**

August 2019-May 2020 CLEMSON UNIVERSITY, Clemson, SC  
College of Education, Department of Teaching and Learning  
**Graduate Teaching Assistant**, Supervisor: Dr. Cynthia Deaton

August 2018-May 2019 CLEMSON UNIVERSITY, Clemson, SC  
College of Education, Department of Teaching and Learning  
**Graduate Teacher of Record**, Supervisor: Dr. Andrew Tyminski

May 2018-August 2018 CLEMSON UNIVERSITY, Clemson, SC  
College of Education, Department of Teaching and Learning  
**Graduate Teacher of Record**, Supervisor: Dr. Nicole Bannister

January 2018-May 2018	CLEMSON UNIVERSITY, Clemson, SC College of Education, Department of Teaching and Learning <b>Graduate Teacher of Record</b> , Supervisor: Dr. Jeff Marshall
August 2017-December 2018	CLEMSON UNIVERSITY, Clemson, SC College of Education, Department of Teaching and Learning <b>Graduate Teaching Assistant</b> , Supervisor: Dr. Megan Che
May 2017-August 2017	CLEMSON UNIVERSITY, Clemson, SC College of Education, Department of Teaching and Learning <b>Graduate Research Assistant</b> , Supervisor: Dr. Nicole Bannister
August 2016-May 2017	CLEMSON UNIVERSITY, Clemson, SC College of Education, Department of Teaching and Learning <b>Graduate Research Assistant</b> , Supervisor: Dr. Megan Che