

Anne Marie S. Marshall

CURRICULUM VITAE

Berry College, Assistant Professor
School of Mathematics & Natural Sciences
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EDUCATION

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| Ph.D. | University of Georgia, Athens, GA Specialization: Mathematics Education Concentration: Educational Technology Minor: Qualitative Research Degree awarded: May 2013 |
| M.Ed. | Kennesaw State University, Kennesaw, GA Specialization: Educational Leadership Concentration: Technology Degree awarded: May 2007 |
| B.S. | Kennesaw State University, Kennesaw, GA Specialization: Secondary Mathematics Education Degree awarded: May 2005 |
| B.S. | Michigan State University, East Lansing, MI Specialization: Systems Science Engineering Degree awarded: May 1986 |

TEACHING AND WORK EXPERIENCE

Berry College

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| Assistant Professor, Mathematics Education | 2014 – present |
| MTE622: Instructional Activities for Middle Grades Education (Master's level) | |
| MTE523: Mathematics for Initial Certification Elementary/Middle School (Master's level) | |
| MAT400: Senior Seminar | |
| MAT324: Geometry for Middle Grades | |
| MAT321: Mathematical Inquiry in Early Childhood Education | |
| MAT220: Mathematics for Teachers P–8 | |
| MAT111: Elementary Statistics (in class and online) | |
| MAT120: Pre-Calculus | |
| MAT105: Nature of Mathematics | |

Student Teacher Supervisor, Primary/Secondary Mathematics ($n = 9$) 2014 – present
Responsibilities: Conduct edTPA performance evaluations, mentor student teachers, and serve as a resource for instructional and organizational strategies

Student Researcher Supervisor ($n = 4$) 2015 – present
Responsibilities: Provide guidance and mentorship in the exploration of researching the teaching and learning mathematics. Mentored research presentations at KSU Summit conference on research findings. Facilitated a book study on the qualitative research techniques associated with interviewing.

University of Georgia

Education Program Specialist – Qualitative Researcher 2013 – 2014
Account: *Communities in Schools of Georgia*: Network Empowerment Initiative (state-level nonprofit serving over 120,000 at-risk children with dropout prevention services). Evaluation responsibilities: design/conduct/analyze: interviews, focus groups, document review; develop evaluation reports ($n = 14$ affiliates).

Instructor of Record, math courses for prospective elementary school teachers 2011 – 2013
MATH 5001: Arithmetic and Problem Solving ($n = 30/31$)
MATH 2001: Geometry and Measurement ($n = 23$)
MATH 2002: Numbers, Algebra, and Statistics ($n = 36$)
MATH 2003: Arithmetic ($n = 19$)
Course Program Developer: Dr. Sybilla Beckmann
Responsibilities: Collaboratively plan lessons engaging adult students in exploration activities incorporating small and whole group discussions; grade exams, quizzes, and homework problems; and provide remediation through weekly office hour sessions

Graduate Teaching Assistant: 2010 – 2012
Historical and Cultural Foundations of Mathematics ($n = 8$)
Assisted Dr. Ryan C. Smith
Mathematics Teaching and Curriculum in PreK-5th Grade ($n = 30$)
Assisted Dr. Dorothy Y. White
Teaching Number Systems in the Middle School, Spring 2011 ($n = 18$)
Assisted Dr. Dorothy Y. White
Responsibilities: Plan lessons, grade assignments

Summer Academy Coordinator/Leadership Team, University of Georgia 2009 – 2011
Science, Technology, Engineering, and Mathematics (STEM) Summer Academy ($n = 28-40$)

Responsibilities: Co-manage leadership team meetings; design: academy program, application, and communication materials; secure academy speakers; manage academy site logistics, compile/analyze participant evaluations

Student Teacher Supervisor, Secondary Mathematics ($n = 8$) 2008 – 2013
Responsibilities: Conduct performance evaluations, mentor student teachers, and serve as a resource for instructional and organizational strategies

Kennesaw State University

Co-Teaching Math Coach for Secondary Mathematics Prospective Teacher Candidates (Teacher Quality Program) 2013 – 2014
Kennesaw, GA
Responsibilities: Facilitate monthly coaching sessions with prospective teachers and their respective mentor teachers, conduct classroom observations, and encourage reflective dialogue

Instructor of Record, MATH 3395: Geometry ($n = 12, 7$) Spring 2014
Responsibilities: Plan/Conduct lessons exploring geometry through a variety of mediums: technology (Geometer's Sketchpad), manipulatives (compass & straight edge; paper folding). Students explore, discuss, and construct various geometric figures with an emphasis on reasoning and sense-making (two-column and paragraph proofs).

Instructor of Record, MATH 3316: Rational Numbers and Proportional Reasoning for Elementary School Teachers ($n = 25, 25, 11, 30, 28$) Fall 2012/13
Spring 2014
Responsibilities: Plan/Conduct lessons engaging students in exploration activities incorporating small and whole group discussions; grade exams, quizzes, and homework problems; and provide remediation through weekly office hour sessions

Kennesaw Mountain High School

Secondary Mathematics Teacher, Kennesaw Mountain High School, 2004 – 2008
Kennesaw, GA
Courses Taught: Algebra I, II, Advanced/Trig, Calculus
Inclusion: Remediation Algebra and Hearing Impaired
Math Department Representative: School Improvement Committee and AYP Data Team
Co-Coach: Math Team

Comverse Voice Mail Platforms

Sr. Market Manager, Sprint PCS Account Team 1999 – 2001
Overland Park, KS
Responsibilities: Design/Execute marketing strategies with national account team (develop technology solution literature, provide RFP support, and organize customer appreciation events)

Ameritech Services

Sr. Manager, New Product Development: Wireless/Internet Network Services 1986 – 1999
Chicago/Hoffman Estates, IL
Responsibilities: Led cross-functional teams in development of new technology data services (win-back programs = \$65 M), retention strategies (40% reduction operational efficiency), and project managed account consolidation of 500+ accounts (\$18 M recurring revenue)

RESEARCH INTERESTS AND EXPERIENCE

Research Interests: Mathematics education (technology-relevant teacher thinking), qualitative research methodologies (stimulated recall interviews, interviews, focus groups), educational technology (online discussion blogs, interactive whiteboards) as an instructional tool (whole-class and virtual discussion, problem solving), teacher preparation, and professional development

Research Experience

Doctoral Candidate, University of Georgia 2011 – 2013
Mathematics Education, Dissertation Research
Qualitative research methodology: video-stimulated recall interviews utilizing Concerns-Based Adoption Model (CBAM) instruments for participant qualification, analyzed using Technological Pedagogical and Content Knowledge (TPACK) framework ($n = 8$: high school mathematics teachers)

Doctoral Student, Research Assistantship: University of Georgia 2009 – 2012
Center for Proficiency in Teaching Mathematics (CPTM)
Principal Investigators: Jeremy Kilpatrick, Patricia Wilson
NSF funded project focus: Teachers' conceptions of integrated mathematics curriculum. Responsibilities included: Collaboratively design, conduct, and analyze interviews/focus groups ($n = 27$: high school Math I teachers)

PUBLICATIONS

REFEREED BOOK CHAPTERS

Marshall, A. M. S., & Callahan, K. M. (2016). Mathematics teacher educators' TPACK and MKT knowledge domains: Designing Online Discussion Blogs. In Niess, M., Driskell, S., & Hollebrands, K. (Eds.) *Handbook of Research on Transforming Mathematics Teacher Education in the Digital Age*. Hershey, PA: IGI Global.

ARTICLES IN REFEREED JOURNALS AND REFEREED PROCEEDINGS

Callahan, K. M., & **Marshall, A. M. S.** (under review). Fostering prospective elementary teachers' use of mathematical evidence. *Journal of Mathematics Teacher Education*. [Manuscript]

Marshall, A. M. S. (under revision). Literature review of video-stimulated recall in educational research: Exploring teacher thinking in the interactive classroom. [Manuscript]

Marshall, A. M. S., & Callahan, K. M., (under review). Online discussion blogs: Digital assignments for promoting prospective elementary teachers' mathematics learning. *Contemporary Issues in Technology and Teacher Education*. [Manuscript]

Marshall, A. M. S. (2014). Secondary Mathematics Teachers' Usage of Interactive Whiteboards: Three Digital Ways to Use this Instructional Tool. Proceedings from the Association for the Advancement of Computing in Education E-Learn 2014: *19th Annual World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education* (p. 1301). New Orleans, LA: AACE.

Marshall, A. M. S., & Callahan, K. (2014). Design Considerations for Visually-Aided Discussion Prompts: Emphasizing Mathematical Reasoning in Teacher Education. Proceedings from the Georgia Association of Mathematics Teacher Educators 2014: *Eighth Annual GAMTE Meeting and Conference*. Eatonton, GA: GAMTE.

de Araujo, Z. Jacobson, E., Singletary, L., Wilson, P., Lowe, L., & **Marshall, A. M.** (2013). Teachers' conceptions of an integrated mathematics curriculum. *School Science and Mathematics, 113*(6), 285–296.

Oppong, N., De Araujo, Z. U., Lowe, L., **Marshall, A. M.,** & Singletary, L. (2009, Summer). In Focus: Georgia's compensation model: A step in the right direction. *The Mathematics Educator, 19*(1), 3–7.

PRESENTATIONS

NATIONAL AND INTERNATIONAL REFEREED PRESENTATIONS

Marshall, A. M. S., & Callahan, K. (2016, July). *Using Online Discussions with In-Class Tasks—A Blended Instructional Approach for Teacher Education*. Paper presented at the 13th International Congress on Mathematical Education (ICME-13), Hamburg, Germany.

Marshall, A. M. S., & Callahan, K. (2016, July). *Mathematics Teacher Educators' Knowledge Domains when Collaboratively Planning for Pre-Service Primary Teachers*. Paper presented at the 13th International Congress on Mathematical Education (ICME-13), Hamburg, Germany.

Marshall, A. M. S., & Callahan, K. (2016, March). *Using online discussion blogs to complement in-class mathematics learning experiences*. Paper presented at the 28th annual International Conference on Technology in Collegiate Mathematics, Atlanta, GA.

Marshall, A. M. S., & Callahan, K. (2016, January). *Mathematics teacher educators' TPACK and MKT: Designing coursework on geometric measurement for prospective elementary teachers*. Paper presented at the 20th annual conference of the Association of Mathematics Teacher Educators, Irvine, CA.

Marshall, A. M. S., & Callahan, K. (2015, October). *Professors learning to use online discussion blogs with visual components in an undergraduate classroom*. Round table presentation at the 45 annual conference of the International Society for Exploring Teaching and Learning, Savannah, GA.

Marshall, A. M. S. (2014, October). *Secondary mathematics teachers' usage of interactive whiteboards: Three digital ways to use this instructional tool*. Paper presented at the 19th Annual World Conference on E-Learning in Corporate, Government, Healthcare, & Higher Education, New Orleans, LA.

Marshall, A. M. S. (2014, April). *Interactive whiteboard usage: An instructional tool for whole-class problem solving*. Paper presented as chairperson of round table discussion at the annual meeting of the American Educational Research Association, Philadelphia, PA.

de Araujo, Z., Jacobson, E., Lowe, L., **Marshall, A. M.**, Singletary, L. & Wilson, P. (2010, January). *Integrated mathematics: Conceptions and implications*. Topic presented at the annual meeting of the Association of Mathematics Teacher Educators, Irvine, CA.

de Araujo, Z., Jacobson, E., Lowe, L., **Marshall, A. M.**, Singletary, L. & Wilson, P. (2010, May). *Teachers' conceptions of integrated mathematics: A search for understanding*. Paper presented at the annual meeting of the American Educational Research Association, Denver, CO.

Singletary, L. M., Lowe, L., Wilson, P. S., de Araujo, Z. U., Jacobson, E. D., & **Marshall, A. M.** (2010, April). *Teachers' conceptions of integration: Uncovering the Process Standards*. Paper presented at the annual Research Pre-session of the National Council of Teachers of Mathematics, San Diego, CA.

REGIONAL PRESENTATIONS

Davis, K., Lane, S., & **Marshall, A.M.S.** (2016, October). Benefits and challenges of using online discussion blogs: Collaborative problem solving. Presentation at the Center for Excellence in Teaching and Learning (C-ETL) Research on Teaching and Learning Summit, Kennesaw State University, Kennesaw, GA.

Marshall, A.M.S., & Callahan, K. (2015, February). *Using discussion blogs with visual stimulation to support preservice teacher education in mathematics*. Presentation at the Center for Excellence in Teaching and Learning (C-ETL) Research on Teaching and Learning Summit, Kennesaw State University, Kennesaw, GA.

Marshall, A. M. S., & Callahan, K. (2014, October). *Using visual stimulations in online discussions*. Paper presented at the Georgia Association of Mathematics Teacher Educators (GAMTE), Eatonton, GA.

Jacobson, E., **Marshall, A. M.**, & Lowe, L. (2009, October). *Mathematical content connections in Georgia*. Paper presented at 50th Annual Conference of the Georgia Association of Mathematics Teacher Educators, Eatonton, GA.

CERTIFICATES

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| Interdisciplinary Qualitative Research Certification, University of Georgia | 2013 |
| Collaborative Institutional Training Initiative (CITI), University of Georgia - Human Subjects: Social and Behavioral Research | 2009 – 2014 |
| Educational Leadership, Georgia Professional Standards Commission | 2007 |
| Secondary Mathematics Teacher, Georgia Professional Standards Commission | 2005 |

GRANTS

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| National Council of Teachers of Mathematics Affiliate Grant [Mathematics Education Trust] Pre-Service Teacher Seminar Series, \$1300 | 2009 – 2010 |
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AWARDS AND HONORS

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| Service, Teaching and Research (STaR) Fellow recipient. Collaborative early-career mathematics educator program limited to tenure-track faculty with a doctorate in mathematics education. | 2015 |
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University of Georgia Graduate School Assistantship 2008 – 2010

PARTICIPATION IN PROFESSIONAL ASSOCIATIONS

Officer/Treasurer, Mathematics Education Student Association (MESA), 2011 – 2009
University of Georgia Student Chapter, National Council of Teachers
of Mathematics

Conference Organizer, Student Qualitative Interest Group (SQUIG) 2011
Data Collection, Conference Evaluation

Member, Association of Mathematics Teacher Educators (AMTE)

Member, National Council of Teachers of Mathematics (NCTM)

Member, American Educational Research Association (AERA)

Member, Georgia Association of Mathematics Teacher Educators (GAMTE)

PARTICIPATION IN SCHOOL COMMUNITY TEACHER EDUCATION PROGRAMS

College Partner and Administrative Director, Mathematics and Science 2014 – 2016
Partnership (MSP) Program. Two-year professional development grant
funded through the Georgia Department of Education. Lead: Floyd
County School System Board of Education. Focus: High school
mathematics ($n = 16$)

Support Instructor: Mathematics and Science Partnership (MSP) Program
Two-year professional development grant funded through the Georgia
Department of Education. Lead: Kennesaw State University. Focus:
Middle school mathematics ($n = 17$)

SERVICE TO THE PROFESSION

REVIEWER

Conference Proposal Reviewer, 13th International Congress on Mathematical 2016
Education

Annual Conference Proposal Reviewer, *Association of Mathematics Teacher 2016*
Educators (AMTE)

Manuscript Reviewer, *The Mathematics Educator (TME)* 2008 – 2012

TECHNOLOGY FLUENCY

Qualtrics (survey development/analysis software)
Altas.ti and Nvivo (computer-assisted qualitative data analysis software)
Collaborate Ultra (video conferencing and virtual focus group software)
Skype for Business (video conferencing groupware)
iMovie (video data editing)
SPSS and STATKey (statistical analysis software)
Learning Management Systems (tools: Online Discussion Blogs & Assessments)
Pearson online digital curriculum (MyStatlab and MyMathLab)
Interactive Whiteboards
Graphing Calculators
Document Cameras
Virtual Bulletin Boards (padlet.com)
Geometer's Sketchpad (dynamic geometry software)
Microsoft Office applications