
CURRICULUM VITAE

Kyle T. Schultz, Ph.D.

1. ACADEMIC HISTORY

Name: Kyle Thomas Schultz

Present rank: Associate Professor, Tenure Track

Education: Ph.D., Mathematics Education, University of Georgia, December 2009
M.A.T., Secondary Education, Miami University, May 1997
B.A., Mathematics and Statistics, Miami University, May 1995

Academic positions:

University of Mary Washington, College of Education, 2017–Present
Associate Professor of Mathematics Education (tenure-track), 2017–present.

James Madison University; Department of Middle, Secondary, and Mathematics Education; 2009–2017
Academic Unit Head, 2015–2017 (interim 2015–2016)
Associate Professor of Mathematics Education (tenured), 2015–2017
Assistant Professor of Mathematics Education, 2009–2015
Instructor of Mathematics Education, 2009

University of Georgia, Department of Mathematics and Science Education, 2005–2009
Graduate Assistant, 2005–2009

Miami University, Department of Secondary Education, 1996–1997
Graduate Assistant, 1996–1997

Other professional employment:

High school teacher, Rocky River City Schools, Rocky River, Ohio, 1998–2005

Middle school teacher, Maple Heights City Schools, Maple Heights, Ohio, 1997–1998

2. INSTRUCTION

University of Mary Washington

EDUC 305–Mathematical Concepts and Methods II
Mathematics teaching and curriculum in Grades K-6 focused on geometry and measurement, algebraic thinking, probability, and data analysis.
Spring 2018, 37 students

EDUC 456–The Teaching of Mathematics and Computer Science
Analysis of mathematics teaching, learning, and curriculum in grades 6–12, including technology-based instruction.
Spring 2018, 2 students

EDUC 530–Master’s Research
Supervision of master’s candidate’s capstone research projects.
Spring 2018, 3 students

EDUC 531–Introduction to Action Research
Introduction to scholarly research including development of master’s thesis proposal.
Fall 2017, 27 students

EDUC 536—Advanced Pedagogy Internship
Supervision of field-based internship including impact study on student learning.
Fall 2017, 3 students

EDCI 525—Mathematics Content for the Elementary Classroom
Comprehensive study of specialized content knowledge of the elementary mathematics curriculum.
Spring 2018, 12 students

EDCI 538—Middle Grades Programs and Practices
Orientation to middle grades education, including instructional design.
Fall 2017, 5 students

James Madison University

MSSE 470M—Mathematics Teaching Methods: Grades 6–8
Analysis of mathematics teaching, learning, and curriculum in grades 6–8, technology-based instruction. (12 terms, 159 students)

MSSE 471M—Field Experience in Middle School Mathematics
Supervision of 60-hour field experience in a middle grades mathematics classroom. (5 terms, 70 students)

MSSE 490—Special Studies in Education
Supervision of four-week intercultural practicum based at Marymount International School in Rome, Italy. (1 term, 2 students)

MSSE 570M—Mathematics Teaching Methods: Grades 9–12
Analysis of mathematics teaching, learning, and curriculum in high school, including technology-based instruction. (6 terms, 71 students)

MSSE 571M—Field Experience in High School Mathematics
An eight-week half-day field experience in a high school mathematics classroom supervised by a practicing teacher and a university faculty member. (2 terms, 24 students)

MSSE 650—Internship Seminar
Weekly seminar supporting candidates' student teaching internship and Teacher Work Sample comprehensive master's project. (4 terms, 36 students)

MSSE 675/690—Internship in Middle & Secondary Education
Supervision and evaluation of prospective teachers during culminating field experience. (2 terms, 5 students)

MAED 430—Foundations of Mathematics Instruction
Survey of mathematics teaching and learning spanning across elementary, middle, and secondary curricula, tailored for special education program candidates. (1 term, 34 students)

MAED 600—Seminar in Mathematics Education
Survey of research topics related to mathematics teaching and learning, including mathematical reasoning, standards-based curricula, assessment, and epistemological theories related to mathematics. (1 term, 7 students)

MAED 610—Curricular Trends in Mathematics Teaching and Learning
Overview of the development and implementation of mathematics curricula, including historical trends, comparative analyses, and strategies for optimizing the effectiveness of curricula in use. (1 term, 4 students)

MAED 620—Teaching Mathematics with Technology
Focused on developing proficiency in using and teaching with mathematics-specific instructional technologies. (1 term, 3 students)

MATH 107—Fundamentals of Mathematics 1

Focused on developing understanding of and making mathematical connections between topics in the K-8 mathematics curriculum, specifically number and operation. (1 term, 9 students)

MATH 108—Fundamentals of Mathematics 2

Focused on developing understanding of and making mathematical connections between topics in the K-8 mathematics curriculum, specifically geometry and proportional reasoning. (2 terms, 41 students)

MATH 207—Fundamentals of Mathematics 3

Focused on developing understanding and making mathematical connections between topics in the K-8 mathematics curriculum, specifically algebra, probability and statistics. (3 terms, 111 students)

MATH 502—Number and Operations for K-8 Mathematics Specialists

Focused on the development of a depth of understanding of whole number concepts and operations using whole numbers. (2 terms, 21 students)

MIED 501—Workshop in Middle Education

Supervision of a supplemental middle grades methods and field experience focused on developing an instructional unit on proportional reasoning. (1 term, 1 student)

EDUC 501—Workshop in Education

A James Madison University Content Teaching Academy course, requirements involved incorporating ideas presented during Academy sessions into instructional planning. (2 terms, 25 students)

ELED 501—Special Topics in Elementary Education

Supervision of four-week intercultural practicum based at Marymount International School in Rome, Italy. (1 term, 18 students)

SEED 680—Special Topics in Secondary Education

Supervision of independent study focused on secondary mathematics teaching. (1 term, 1 student)

EDUC 631—Seminar in Educational Inquiry

Supervision and evaluation of the Teacher Work Sample comprehensive master's project for candidates completing the M.Ed. program in mathematics. (6 terms, 7 students)

University of Georgia**EMAT 5360—Secondary School Mathematics Field Experience**

Focused on the analysis of teaching and supported by four, multiday field experiences in a variety of school settings. Instructor's responsibility included scheduling and coordination of field placements. (2 terms, 37 students)

EMAT 5460—Student Teaching in Secondary School Mathematics

Supervised and evaluated secondary mathematics candidates during culminating clinical field experience. (4 terms, 12 students)

3. SCHOLARLY ACTIVITIES**a. Publications****Journal articles**

Brown, R. E., & Schultz, K. T. (2015). Using double number lines to represent students' proportional thinking. *The New Jersey Mathematics Teacher*, 73(2), 34–41.

Schultz, K. T., & Thunder, K. (2015). Making formative assessment multidimensional. *Teaching Children Mathematics*, 21(8), 453–454.

Schultz, K. T. (2014). Toward a coherent Virginia mathematics curriculum: The case of quadrilateral definitions. *Virginia Educational Leadership*, 11, 87–101.

- Schultz, K. T., & Bismarck, S. F. (2013). Simplifying square roots: A geometric approach. *Mathematics Teaching in the Middle School*, 13(4), 222–228.
- Schultz, K. T. (2009). Soft drinks, mind reading, and number theory. *Mathematics Teacher*, 103(4), 278–283.
- Schultz, K. T. (2006, Summer/Fall). Using Fibonacci numbers as an introduction to proof. *Colorado Mathematics Teacher*, 14–16.
- Schultz, K. T. (2001, Fall). How to achieve chaos in twenty-four minutes or less. *Ohio Journal of School Mathematics*, 10–13.
- Schultz, K. T. (1998, Winter). Algebra review in geometry textbooks: Practice or promise? *Ohio Journal of School Mathematics*, 24–28.

Reviews

- Schultz, K. T. (2016). A numerate life: A mathematician explores the vagaries of life, his own and probably yours. [Review of the book of same title]. *Mathematics Teacher*, 110(4), 319.
- Schultz, K. T. (2013). Alan Turing: The enigma. [Review of the book of same title]. *Mathematics Teacher*, 107(5), 395.
- Schultz, K. T. (2012). The mathematics of life. [Review of the book of same title]. *Mathematics Teacher*, 106(4), 319.
- Schultz, K. T. (2001). Fathom: Dynamical Statistics Software. *Mathematics Teacher*, 94(6), 518.
- Schultz, K. T. (2001). Hands-On Algebra. *Mathematics Teacher*, 94(1), 72.

Papers in refereed conference proceedings

- Schultz, K. T. (2017, March). Using a cognitive demand framework to describe technology effects in high school mathematics. In P. Resta & S. Smith (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2017* (pp. 1399–1404). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).
- Lovin, L. H., & Schultz, K. T. (2012, August). Illuminating mathematics teacher education through decoding disciplinary thinking: Unpacking mathematical knowledge for teaching. In J. B. Young, L. B. Erickson, & S. Pinnegar (Eds.), *Extending Inquiry Communities: Illuminating Teacher Education Through Self-Study* (pp. 183–186). Provo, UT: Brigham Young University.
- Schultz, K. T., Rhodes, G. A., & Hallman, A. (2009). Mathematics teacher developers' views of a laboratory-class-based professional development experience. *Proceedings of the thirty-first meeting of the North American Chapter of the International Group for Psychology in Mathematics Education*.
- Rhodes, G. A., Hallman, A., Medina-Rusch, A. M., & Schultz, K. T. (2009). Mathematics teacher developers' analysis of a mathematics class. *Proceedings of the thirty-third meeting of the International Group for Psychology in Mathematics Education*.

Invited papers

- Schultz, K. T., & Lovin, L. (2012). Examining mathematics teachers' disciplinary thinking. *The Mathematics Educator*, 21(2), 2–10.

b. Creative contributions other than formal publications

- McGlone, M., Schultz, K. T., Wright, L., & Kopriva, R. (2017). ONPAR geometry formative assessment unit for English learners (online resources). Not publicly available due to proprietary restrictions.

- Schultz, K. T., McGlone, M., Wright, L., & Kopriva, R. (2016). ONPAR proportional reasoning formative assessment unit for English learners (online resources). Not publicly available due to proprietary restrictions.
- Schultz, K. T., Tyler, E. (2014). Making mathematical connections and using representations: Algebra 1 (professional development resources). Available: http://www.doe.virginia.gov/instruction/mathematics/professional_development/index.shtml
- Schultz, K. T., Lintner, J. P., Chuang, S., & Traylor, M. (2011). Facilitating students' mathematical understanding through a focus on process goals for students: Grades 9–12 (professional development resources). Available: http://www.doe.virginia.gov/instruction/mathematics/professional_development/index.shtml
- Sanchez, W., Lintner, J. P., & Schultz, K. T. (2010). *Pivotal items for high school mathematics* (resource for classroom teachers). Available: <http://www.jmu.edu/stem/outreach/pivotalmath.html>
- Schultz, K. T. (2009). *Cognitive demand and technology use in high school mathematics teachers' selection and implementation of tasks*. Unpublished doctoral dissertation, University of Georgia, Athens, GA. Available: <http://ugakr.libs.uga.edu/handle/10724/11852>
- National Academy of Education. (2009). *Science and mathematics education: Education policy white paper* [research assistant]. Available: http://naeducation.org/Science_and_Mathematics_Education_White_Paper.pdf
- Schultz, K. T. (2006). *An investigation of Pick's theorem*. Web site hosted by Jim Wilson at the University of Georgia. Available: http://jwilson.coe.uga.edu/EMAT6680Fa05/Schultz/6690/Pick/Pick_Main.htm
- Schultz, K. T. (2006). *The oxen problem*. Website hosted by Jim Wilson at the University of Georgia. Available: http://jwilson.coe.uga.edu/EMAT6680Fa05/Schultz/6690/Oxen_Problem/Oxen.html
- Schultz, K. T. (2006). *An introduction to the mathematics of global positioning systems*. Website hosted by Jim Wilson at the University of Georgia. Available: http://jwilson.coe.uga.edu/EMAT6680Fa05/Schultz/6690/Barn_GPS/Barn_GPS.html
- Schultz, K. T. (2006). *Geometric inversion: Instructional resources*. Website hosted by Jim Wilson at the University of Georgia. Available: http://jwilson.coe.uga.edu/EMAT6680Fa05/Schultz/6690/Inversion/Inversion_Contents.html

c. Grant or contract applications and activity

- Co-Principal Investigator, *ONPAR Algebra Readiness Assessment*, National Science Foundation Discovery Research PreK-12, 2018–2021 (not funded).
- Consultant, *Rural Math Innovation Network*, U.S. Department of Education Investment in Innovation (i3), 2017–2020 (awarded to Virginia Advanced Study Strategies, Inc., \$2,999,395).
- Co-Principal Investigator, *3-D Printed Mathematical Manipulatives for the K–12 Classroom*, VentureWell Faculty Grant, 2014 (not funded).
- Co-Principal Investigator, *Be the Change for STEM Education*, National Science Foundation Noyce Scholarship Grant, 2010, 2011, and 2012 (not funded).
- Applicant, International Congress of Mathematics Education Travel Grant, National Science Foundation, 2011 (not funded).
- Principal Investigator, *Developing prospective mathematics teachers' ability to design high-level technology-oriented tasks for instruction*, James Madison University College of Education Faculty Scholarship Grant, 2009–2011 (awarded \$2000).

Co-Applicant, *Writing in Mathematics Education to Develop a Critical Lens as Practitioner and Researcher*, National Council of Teachers of Mathematics Student Affiliate Grant, 2008 (awarded \$1500).

d. Recognitions, awards, and outstanding achievements

Departmental Nomination, James Madison University College of Education Essie Glass Award, 2011, 2013.

Assessment Fellowship, James Madison University Center for Assessment and Research Studies, 2011.

Scholarship, Teaching, and Research (STaR) Fellowship; Association of Mathematics Teacher Educators; 2010–2011.

Graduate School Assistantship Award, University of Georgia, 2005–2007

Cleveland Cavaliers Head of the Class Award, 2004

e. Supervision of student research

Master's Thesis/Project Advisor

Megan Fowler, 2018, M.Ed. in Secondary Education, University of Mary Washington. *The Use of Word Sorts to Promote Vocabulary Acquisition in the Secondary Earth Science Classroom.*

Caitlin Lucas, 2018, M.Ed. in Secondary Education, University of Mary Washington. *The Effect of Spatial Visualization on Student Understanding of Word Problems.*

Ethan Oakley, 2018, M.Ed. in Secondary Education, University of Mary Washington. *The Jigsaw Model, the Direct Instruction Model, and the Effect on Religious Literacy in the World Geography Classroom.*

29 students, 2010–2017, M.A.T. in Secondary Education, James Madison University, *Teacher Work Sample.*

Undergraduate Honors Reader

Megan Kohanik, 2014, B.S. in Mathematics, James Madison University, *Summing It Up: Comparing and Contrasting Teaching Practices to Constructivist Learning Theories.*

Katie Baker, 2011, B.S. in Interdisciplinary Liberal Studies, James Madison University, *Place Value Understanding in Elementary School.*

Dissertation Content Specialist

Javarro Russell, 2011, Ph.D. in Assessment and Measurement, James Madison University, *Development and Validation of the Preservice Mathematical Knowledge for Teaching Items (PMKT): A Mixed-Methods Approach.*

f. Editorship or editorial board member of journals

The Mathematics Educator, Mathematics Education Student Association, University of Georgia
Editor, 2006–2007

Associate Editor, 2006, 2007–2008

Mathematical Sciences Educational Leadership Network, Mathematical Sciences Education Board,
National Research Council
Editor, 1996–1997

g. Presentations**Refereed, International**

Lovin, L. H., & Schultz, K. T. (2012, August). *Illuminating mathematics teacher education through decoding disciplinary thinking: Unpacking mathematical knowledge for teaching*. Ninth International Conference on Self-Study of Teacher Education Practices, Herstmonceux Castle, East Sussex, England.

Rhodes, G. A., Hallman, A., Medina-Rusch, A. M., & Schultz, K. T. (2009, July). *Mathematics teacher developers' analysis of a mathematics class*. International Group for Psychology in Mathematics Education, Thessaloniki, Greece.

Refereed, National

Kopriva, R., McGlone, M., & Schultz, K. T.* (2018, April). *ONPAR: A multisemiotic assessment design for ELL students*. National Council for Measurement in Education, New York, NY.
(*proposal and session preparation)

McGlone, M. & Schultz, K. T. (2018, April). *Universal design of ONPAR assessments to improve access for ELL students* (Poster). Research Conference of the National Council of Teachers of Mathematics, Washington, DC.

Schultz, K. T., & Lovin, L. A. (2018, February). *Prospective preK-8 teachers' initial and auxiliary problem solving strategies*. Association of Mathematics Teacher Educators, Houston, TX.

Schultz, K. T. (2017, March). *Using a cognitive demand framework to describe technology effects in mathematics education* (Virtual). Society for Information Technology and Teacher Education, Austin, TX.

Lovin, L. H., & Schultz, K. T. (2016, April). *Prospective pre-K–8 teachers' selection of initial problem-solving strategies*. Research Conference of the National Council of Teachers of Mathematics, San Francisco, CA.

Thunder, K., & Schultz, K. T. (2015, April). *Student-centered assessment: Letting students set their own goals*. National Council of Teachers of Mathematics, Boston, MA.

Schultz, K. T., & Weingartner, M. (2015, April). *Bringing understanding to the surface with open-ended tasks*. National Council of Teachers of Mathematics, Boston, MA.

Thunder, K., & Schultz, K. T. (2015, January). *Making mathematics teaching and learning visible: A framework for shifting prospective teachers' beliefs and attitudes*. Association of Mathematics Teacher Educators, Orlando, FL.

Schultz, K. T., & Dunlap, K. L. (2014, April). *Thinker-doer dialogues: Preservice mathematics teachers' analyses of problem-solving discourse*. American Educational Research Association, Philadelphia, PA.

Dunlap, K. L., & Schultz, K. T. (2013, December). *Using literacy-based approaches in mathematics preservice teacher education: Thinker-Doer paired problem solving as dialogic practice*. Literacy Research Association, Dallas, TX.

Dunlap, K. L., & Schultz, K. T. (2012, November). *Making literacy relevant to preservice mathematics teachers: Perspectives and beginning solutions for elementary and secondary levels*. Literacy Research Association, San Diego, CA.

Schultz, K. T. (2012, April). *Cognitive demand and technology use in high school teachers' use of mathematical tasks*. Research pre-session of the National Council of Teachers of Mathematics, Philadelphia, PA.

- Lovin, L. H., & Schultz, K. T. (2012, February). *Decoding disciplinary thinking: Unpacking specialized content knowledge to prepare prospective K-12 teachers*. Association of Mathematics Teacher Educators, Fort Worth, TX.
- Edenfield, K., Murray, E., & Schultz, K. T. (2011, April). *Studying higher order thinking during implementation of state curriculum reform*. Research pre-session of the National Council of Teachers of Mathematics, Indianapolis, IN.
- Russell, J. A., Lovin, L. H., & Schultz, K. T. (2011, January). *A mixed methods approach to developing an assessment of preservice teachers' mathematical knowledge for teaching*. Association of Mathematics Teacher Educators, Irvine, CA.
- Schultz, K. T. (2011, January). *Developing prospective mathematics teachers' ability to design high-level technology-oriented tasks*. Association of Mathematics Teacher Educators, Irvine, CA.
- Schultz, K. T., Rhodes, G. A., & Hallman, A. (2009, September). *Mathematics teacher developers' views of a laboratory-class-based professional development experience*. North American Chapter of the International Group for Psychology in Mathematics Education, Atlanta, GA.
- Schultz, K. T., Rhodes, G. A., & Hallman, A. (2009, April). *The role of explanation in mathematics courses for preservice teachers* (Poster). Research pre-session of the National Council of Teachers of Mathematics, Washington, DC.
- Schultz, K. T., Ricks, T. E., Allen, S. M., Wilson, P. S., & Kilpatrick, J. (2008, January). *Teacher developers' conceptions of mathematical knowledge for teaching (MKT)*. Association of Mathematics Teacher Educators, Tulsa, OK.
- Schultz, K. T. (2007, April). *Where am I? The mathematics of global positioning systems*. National Council of Teachers of Mathematics, Atlanta, GA.

Refereed, Regional, State, and Local

- Schultz, K. T. (2016, March). *Representing the ambiguous case: SSA can be AOK?* Virginia Council of Teachers of Mathematics, Stafford, VA.
- Schultz, K. T. (2014, November). *Adventures in probability: From fraction rainbows to striking umpires*. To be presented at the Eastern Regional Conference of the National Council of Teachers of Mathematics, Richmond, VA.
- Schultz, K. T. (2014, March). *Developing probabilistic thinking: Big ideas from unlikely places*. Virginia Council of Teachers of Mathematics, Harrisonburg, VA.
- Schultz, K. T. (2012, March). *Using geometric patterns to develop students' algebraic thinking*. Virginia Council of Teachers of Mathematics, Roanoke, VA.
- Schultz, K. T., & Lintner, J. P. (2011, March). *Pivotal questions: Open-ended tasks for Virginia high school mathematics*. Virginia Council of Teachers of Mathematics, Richmond, VA.
- Schultz, K. T., & Brown, R. E. (2010, October). *Making sense of fraction division representations used by preservice and inservice middle school mathematics teachers*. Eastern Regional Conference of the National Council of Teachers of Mathematics, Baltimore, MD.
- Schultz, K. T. (2010, March). *Using numerical relationships to develop students' conceptions of proof*. Virginia Council of Teachers of Mathematics, Harrisonburg, VA.
- Schultz, K. T. (2006, October). *Transforming lines and planes into circles and spheres: An introduction to geometric inversion*. Georgia Council of Teachers of Mathematics, Rock Eagle, GA.
- Schultz, K. T. (2005, October). *Small solutions to colossal problems: The power of pattern and function*. Eastern Regional Conference of the National Council of Teachers of Mathematics, Hartford, CT.

Invited

- Schultz, K. T. (2017, June). *Is it math, or is it us? Examining beliefs and strengthening relationships*. James Madison University Content Teaching Academy, Harrisonburg, VA.
- Schultz, K. T. (2016, June). *Co-assessment: Gathering and responding to formative assessment data in the co-taught classroom*. James Madison University Content Teaching Academy, Harrisonburg, VA.
- Schultz, K. T. (2016, August). *Using geometric patterns to develop students' algebraic thinking*. Culpeper Public Schools Professional Development Day, Culpeper, VA.
- Schultz, K. T. (2016, June). *Honoring students' mathematical thinking: A study in eagles and cheese*. James Madison University Content Teaching Academy, Harrisonburg, VA.
- Schultz, K. T., Laughlin, E., & Smith, T. (2016, June). *Co-assessment in mathematics*. James Madison University Content Teaching Academy, Harrisonburg, VA.
- Schultz, K. T. (2015, June). *Big ideas in probability*. James Madison University Content Teaching Academy, Harrisonburg, VA.
- Schultz, K. T. (2015, February). *From arithmetic to algebra: Developing students' abstract reasoning*. James Madison University STEM Educator's Workshop, Harrisonburg, VA.
- Schultz, K. T. (2014, August). *Moving towards student-centered mathematics: Strategies for secondary teachers*. Paul D. Camp Community College Mathematics Symposium, Franklin, VA.
- Schultz, K. T. (2014, July). *Supporting students' fluency with basic facts: Using reasoning as the foundation*. Virginia Region 5 Training and Technical Assistance Center's Special Education Program Improvement Institute, Harrisonburg, VA.
- Schultz, K. T. (2014, July). *Developing students' algebraic thinking through pattern and problem solving*. Virginia Region 5 Training and Technical Assistance Center's Special Education Program Improvement Institute, Harrisonburg, VA.
- Schultz, K. T. (2014, June). *It will grow on you: Cultivating students' algebraic thinking*. James Madison University Content Teaching Academy, Harrisonburg, VA.
- Schultz, K. T. (2014, June). *Fostering students' probabilistic thinking: Big ideas and connections*. MathScience Innovation Center, Richmond, VA.
- Schultz, K. T. (2011, January). *Designing conceptually focused mathematical tasks to address state high school standards* (Poster). STaR pre-session of the Association of Mathematics Teacher Educators, Irvine, CA.
- Lintner, J. P., & Schultz, K. T. (2010, November). *Mathematics pivotal questions: Open-ended questions about SOL content*. Valley of Virginia Council of Teachers of Mathematics, Harrisonburg, VA.
- Schultz, K. T. (2010, June). *Using algebraic ideas to develop high school students' conceptions of proof*. James Madison University Content Teaching Academy, Harrisonburg, VA.
- Schultz, K. T. (2010, June). *Using algebraic ideas to develop middle school students' conceptions of proof*. James Madison University Content Teaching Academy, Harrisonburg, VA.
- Schultz, K. T. (2010, March). *Shaping policy in science and mathematics education*. James Madison University Center for STEM Education and Outreach brown bag series, Harrisonburg, VA.
- Schultz, K. T. (2005, October). *Power and creativity in mathematics: Using open-ended problems in the mathematics classroom*. Colloquium for the Mathematics Education Student Association of the University of Georgia, Athens, GA.

Invited service as a discussant

Schneider, C., Williams, W. V., Schultz, K. T., Peterson, W., & Speer, W. (2008, January). *Developing future leaders through NCTM student affiliates*. Panel presentation, Association of Mathematics Teacher Educators, Tulsa, OK.

Workshops

Schultz, K. T., Barron, K. E., Wormington, S. V., Stevens, J., & Wilborn, S. (2017, July). *Mathematics lesson planning and evaluation*. Rural Math Innovation Network Summer Institute. Roanoke, VA. (3 sessions, 5 hours total)

Schultz, K. T. (2015, October). *Fractions: Understanding beyond algorithms (grades 3–8)*. The Virginia School University Partnership, Charlottesville, VA. (6-hour session)

Schultz, K. T., Tyler, E. (2014, October). *Fall 2014 mathematics SOL institutes: Algebra 1*. Virginia Department of Education, Wytheville and Roanoke, VA. (6-hour session at each location)

Schultz, K. T., Lintner, J. P., Chuang, S., & Traylor, M. (2011, September). *Fall 2011 mathematics SOL institutes: Grade band 9–12*. Virginia Department of Education, Abingdon and Roanoke, VA. (6-hour session at each location)

h. Consulting projects

Mathematics Professional Developer (Grades 3–12), Fredericksburg City Schools, 2018.

Mathematics Content Specialist, *Rural Math Innovation Network*, Virginia Advanced Study Strategies, Inc., 2017–present.

Mathematics Content Specialist, ONPAR, Institute for Innovative Assessment, 2015–present.

Elementary Mathematics Professional Developer, Nelson County Public Schools, 2015–2016.

Mathematics Assessment Task Writer, Discovery Education, 2014–2015.

i. Journal, grant proposal, and conference proposal reviewing**Journal reviewer**

Mathematics Teacher Educator, 2011–present

Mathematics Teaching in the Middle School, 2011–present.

The Mathematics Educator, 2005–present

Mathematics Teacher, 1997–present

Grant proposal reviewer

Virginia Department of Education Mathematics Science Partnership Grants, 2013

Conference proposal reviewer

National Council of Teachers of Mathematics Research Conference, 2014–2016, 2018

Virginia Council of Teachers of Mathematics, 2010, 2014, 2017

Association of Mathematics Teacher Educators, 2010–2012, 2014

Self-Study of Teacher Education Practices, 2011

4. Public Service**a. Service to the profession**

University of Louisville Geometry Assessments for Secondary Teachers
Partner Faculty, 2012–2013.

Valley of Virginia Council of Teachers of Mathematics
 Past President, 2013–2014.
 President, 2011–2013.
 President Elect, 2010–2011.

Virginia Council of Teachers of Mathematics
 Chair, 2017–18 Scholarship Committee
 Co-Chair, 2017 Conference Program Committee
 Chair, 2014 Conference Program Committee
 Member, 2010 Conference Program Committee

Virginia Department of Education
 Participant, 2017 STEM Education Retreat

Mathematics Education Student Association at the University of Georgia
 NCTM Representative, 2007–2008.

National Council of Teachers of Mathematics
 Member, Learning, Teaching, Curriculum, and Assessment Committee, 2003–2005.
 Member, Instructional Issues Advisory Committee, 2002–2003.

b. Service to schools, community

James Madison University Content Teaching Academy
 Chair, Augmenting Mathematics Special Education Teams Academy, 2016–2018.
 Chair, 6–12 Mathematics Academy, 2011, 2012.

Guest Speaker, Eastern Mennonite High School AP Mathematics Classes, 2016, 2017.

Judge, Augusta County and V²CTM Regional “24” tournaments, 2011, 2012.

5. Service to the University of Mary Washington

a. College of Education

Faculty Affairs Committee, 2018–present
 Accreditation Steering Committee, 2017–present
 Accreditation Subcommittee (CAEP Standard 1), 2017–present
 Curriculum and Assessment Committee, 2017–present

6. Service to James Madison University

a. University

Facilitator, Madison Collaborative Ethical Reasoning Program, 2014–2015
 Advisor, Mathematics Teacher Student Organization, 2010–2011.

b. College of Education

Accreditation Steering Committee, 2015–2017
 Advisory Council, 2015–2017
 Professional Education Coordinating Committee, 2015–2017
 Faculty Awards Committee, Chair, 2015–2017
 Student Teaching Reference Guide Revision Committee (Mathematics), 2016
 Curriculum Development, Implementation, and Review Committee, 2014–2015
 Scholarship Committee, 2013–2014
 Intercultural Practicum Workgroup, 2012–2014
 Faculty Development and Support Committee, 2011–2012

c. Department of Middle, Secondary, and Mathematics Education

Faculty Performance and Evaluation Work Group, Chair, 2016–2017
Graduate Program Coordinator, Middle Education and Secondary Education, 2015–2017
Program Coordinator, Middle Education and Secondary Education, 2015–2017
Teacher Work Sample Work Group, Chair, 2015
Personnel Advisory Committee, 2014–2015
Early Opportunities for Content-Specific Pedagogy Workgroup, Chair, 2014
Search Committees, 2011, 2014
High School Practicum Committee, 2011–2012
Website Committee, Chair, 2010–2012
Admission, Retention, and Exit Appeals Committee, 2013
Library Liaison, 2010–2014

d. Department of Mathematics

Search Committee, 2015

6. Professional Memberships

American Association of University Professors
Association for Middle Level Education
Association of Mathematics Teacher Educators
National Council of Teachers of Mathematics
Virginia Association of Mathematics Teacher Educators
Virginia Council of Teachers of Mathematics