

CURRICULUM VITA

NAME: Christa Jackson

CURRENT POSITION: Associate Professor in Mathematics Education

EDUCATION:

2010	Ph.D.	University of Missouri-Columbia	Curriculum and Instruction, Emphasis in Mathematics Education
2003	M.S.Ed.	Missouri State University	Secondary Education, Natural Science
1995	B.S.	Evangel University	Elementary Education

CERTIFICATION AND LICENSURE:

Missouri State Licensed Teacher of Elementary School, Mathematics and Science, Grades 1 – 9

DISSERTATION TITLE:

A Study of Elementary Mathematics Teachers' Knowledge of Equity
 Committee: Kathryn Chval (Advisor), Frances Arbaugh, Óscar Chávez, John Lannin, David Bergin, and Juanita Simmons

POSITIONS HELD:

2017–present	Associate Professor of Mathematics Education, School of Education, Iowa State University, Ames, IA
2014–2017	Assistant Professor of Mathematics Education, School of Education, Iowa State University, Ames, IA
2010–2014	Assistant Professor of Mathematics Education, Department of STEM Education, University of Kentucky, Lexington, KY
2006–2014	Graduate Research assistant and teaching assistant; Learning, Teaching, and Curriculum, College of Education and College of Engineering, University of Missouri-Columbia, Columbia, MO
1995–2006	Teacher, Springfield Public Schools District R12, Springfield, MO
2003–2006	Adjunct Faculty, Department of Education and Department of Mathematics, Evangel University, Springfield, MO.
2001–2005	Adjunct Faculty, Department of Mathematics, Ozark Technical Community College, Springfield, MO

PROFESSIONAL RESPONSIBILITIES (%)

Year	Teaching	Research	Professional Service	Institutional Service
2016–2017	30	40	10	20
2015–2016	40	40	10	10
2014–2015	40	40	20*	
2013–2014 ⁺	52.5	32.5	15*	
2012–2013 ^{<}	50.8	38.4	10.8*	
2011–2012 ^{>}	51	37.75	11.25*	
2010–2011	40	40	20*	

Note: 2010–2014 was at the University of Kentucky; 2014–2016 was at Iowa State University

*Service responsibilities (professional and institutional) were collapsed

⁺2013–2014 represents an average of two versions that was completed during this academic year

<2012–2013 represents an average of three versions that was completed during this academic year

>2011–2012 represents an average of two versions that was completed during this academic year

MAJOR FIELDS OF TEACHING AND SCHOLARLY EMPHASIS:

Mathematics Education (Elementary and Middle School), Equity, Teacher Education, Students who struggle in Mathematics, Informal Learning Environments, STEM, STEM Literacy

UNDERGRADUATE COURSES TAUGHT at IOWA STATE:

(*Redesigned Course for a Mathematics Clinic)

Course Title	Catalog#	Credit Hours	Average Number of Students per Class	Number of Semesters Taught	Years Taught
*Teaching Mathematics in the Primary Grades	CI 438	2	14	1	2017
*Pre-Student Teaching Experience I: Secondary Education	CI 280L/CI 280J	1	8	3	2016, 2017, 2018
*Teaching Children Mathematics	CI 448	3	26	3	2014, 2015

GRADUATE COURSES TAUGHT at IOWA STATE:

(*Redesigned Course)

Course Title	Catalog#	Credit Hours	Average Number of Students per Class	Number of Semesters Taught	Years Taught
*Teaching Mathematics to Struggling Elementary Learners	CI 523	3	18	1	2016
*Geometry for K-12 Teachers	CI 509	3	18	4	2015, 2016, 2017

COURSES TAUGHT at UNIVERSITY OF KENTUCKY, LEXINGTON, KY (2010-2014)

*Curricular Creations, +Curricular Revisions

Undergraduate Courses:

- (1) *See Blue Mathematics Clinic
- (2) +Teaching Mathematics in the Elementary School
- (3) *Methods of Teaching Mathematics in the Middle School,
- (4) *Applications of Teaching Mathematics in the Middle School
- (5) Experiential Education

Graduate Courses:

- (1) *See Blue Mathematics Clinic
- (2) *Equity in STEM Education
- (3) +Advanced Studies in Teaching Elementary School Mathematics

COURSES TAUGHT at UNIVERSITY OF MISSOURI-COLUMBIA (2006-2010)

College of Education:

Learning and Teaching Number and Operation in the Elementary Classroom

College of Engineering:

- (1) Preparing Engineering Faculty and Professionals I
- (2) Preparing Engineering Faculty and Professionals II

COURSES TAUGHT at EVANGEL UNIVERSITY, SPRINGFIELD, MO (2003-2006)

Department of Education:

- (1) Methods of Teaching Elementary Mathematics
- (2) Methods of Teaching Middle School Mathematics

Department of Mathematics:

Intermediate Algebra

COURSES TAUGHT at OZARK TECHNICAL COMMUNITY COLLEGE, SPRINGFIELD, MO (2001-2005)

Mathematics Department:

- (1) Intermediate Algebra
- (2) Basic Mathematics
- (3) Basic Technology Mathematics
- (4) Technical Mathematics I

SCHOLARLY TEACHING ACTIVITIES:

Funded projects (\$60,000)

Iowa State University College of Human Science Innovative Teaching Initiative Grant. Developing an online course for teaching mathematics to ELLs. **Role: Co-PI.** Principal Investigator: Ji Yeong I. Total Award Amount: \$25,000. January 2016–December 2017.

Iowa State University Innovative Teaching Grant. Using virtual worlds to prepare pre-service teachers to teach mathematics and science in culturally responsive ways. **Role: PI** Total Award Amount: \$29,000. November 2014–October 2015.

University of Kentucky SB1Subgrant. Middle School Teacher Education Syllabus. **Role: PI.** Total Award Amount: \$3,000. May 2011–August 2011.

University of Kentucky SBI Subgrant. Redesign of Undergraduate Middle School Education. **Role: Co-PI.** Principal Investigator: Susan Wood. Total Award Amount: \$3,000. May 2011–August 2011.

Workshops/Seminars Taught

New York City Algebra for All. The National Council of Teachers of Mathematics, New York, NY. July/August 2018. Role: Facilitator

New York City Algebra for All. The National Council of Teachers of Mathematics, New York, NY. May 2018. Role: Facilitator.

Expressions and Equations. Weeks Middle School, Des Moines, IA. February 2018. Role: Facilitator.

New York City Algebra for All. The National Council of Teachers of Mathematics, Brooklyn, NY. October 2017. Role: Facilitator.

New York City Algebra for All. The National Council of Teachers of Mathematics, Queens, NY. July 2017. Role: Facilitator.

New York City Algebra for All. The National Council of Teachers of Mathematics, Queens, NY. May 2017. Role: Facilitator.

New York City Algebra for All. The National Council of Teachers of Mathematics, Brooklyn, NY. October 2016. Role: Facilitator.

NCTM Algebra Readiness for Every Student: An NCTM Interactive Institute for Grades 6–8. The National Council of Teachers of Mathematics, Chicago, IL. July 2015. Role: Facilitator.

NCTM Algebra Readiness for Every Student: An NCTM Interactive Institute for Grades 6–8. The National Council of Teachers of Mathematics, Denver, CO. July 2016. Role: Facilitator.

Materials developed

Richardson Bruna, K., **Jackson, C.**, Hamilton, K. (2016). DAVinCI flight: Design challenge camp curriculum.

RESEARCH AND SCHOLARLY/CREATIVE PROJECTS FUNDED:

Extramural Support – Funded (\$1,730,459)

Institute of Education Sciences Department of Education Small Business Innovation Research. Design environment for Educator – Student Collaboration Allowing Real-Time Engineering-centric STEM (DESCARTES)

exploration in middle grades Phase II. **Role: PI at Iowa State University.** Awarded as a subcontract from Parametric Studio. Award Amount: \$310,475. (Full project amount: \$900,000). May 2017–April 2019.

Iowa Mathematics and Science Partnerships. Effectively Supporting all Students to be Successful in Algebra (ES³A). **Role: PI.** Total Award Amount: \$254,872. Amended Funding amount of \$95,341 for a Total Award Amount: \$350,213. April 2017–September 2018.

National Science Foundation. Engineering Design Instruction Software for implementing Objectives of Next (EDISON) Generation Standards in K-12. **Role: PI at Iowa State University.** Awarded as a subcontract from Parametric Studio. Award Amount: \$107,226 (Full project amount: \$225,000). July 2016–June 2017.

Institute of Education Sciences Department of Education Small Business Innovation Research. Design environment for Educator – Student Collaboration Allowing Real-Time Engineering-centric STEM (DESCARTES) exploration in middle grades. **Role: PI at Iowa State University.** Awarded as a subcontract from Parametric Studio. Award Amount: \$49,813 (Full project amount: \$149,740). May 2016–December 2016.

University of Northern Iowa Center for Educational Transformation. Using Mathematically-Focused Text Messages to Improve Connections between Linguistically-Diverse Parents and Their Child’s Classroom Learning. **Role: Co-PI.** Principal Investigator: Mollie Appelgate. Total Award Amount: \$31,000. May 2016–July 2017.

Kentucky Department of Education (MSP). Timely Math Intervention at the Classroom Level (TMI). **Role: Co-PI.** Principal Investigator: Kim Zeidler-Watters, PIMSER, University of Kentucky. Total Award Amount: \$320,000. January 2014–September 2015.

Mentors & Meals. Students’ Understanding Research in Realistic Explorations in Astronomical Learning (SURREAL). **Role: Co-PI.** Principal Investigator: Jennifer Wilhelm. Total Award Amount: \$8,200. December 2013–July 2014.

National Science Foundation (EPSCoR Track 3). Utilizing STEM Camps and STEM Clubs to increase interest in STEM fields among females and students of color. **Role: PI.** Total Award Amount: \$749,999. October 2013–August 2014.

National Science Foundation (EPSCoR Track 3). Utilizing STEM Camps and STEM Clubs to increase interest in SmmSTEM fields among females and students of color. **Role: Co-PI.** Principal Investigator: Margaret Mohr-Schroeder. Total Award Amount: \$749,999. September 2014–August 2018.

Center for the Study of Mathematics Curriculum. Mathematics Teacher Educators promoting the Common Core State Standards of Mathematics in elementary teacher preparation courses. **Role: PI.** Total Award Amount: \$10,700. November 2012–May 2013.

Center for the Study of Mathematics Curriculum. Meeting the Foci: Enactment of Common Core State Standards of Mathematics Priority Research Agenda. **Role: PI.** Total Award Amount: \$10,260. November 2012–May 2013.

Mentors & Meals. Informal STEM Learning the REAL Way. **Role: Co-PI.** Principal Investigator: Jennifer Wilhelm. Total Award Amount: \$7,000. December 2012–June 2013.

NASA Kentucky Space Grant Consortium. Research to Compare Informal & Formal Environments towards Understanding how Middle Level Students Learn Math & Science. **Role: Co-PI.** Principal Investigator: Jennifer Wilhelm. Total Award Amount: \$10,101. January 2013–December 2013.

Kentucky Center of Mathematics. See Blue Mathematics Clinic and STEM Camp: A P20 STEM Education Lab Initiative. **Role: Co-PI.** Principal Investigator: Margaret Mohr-Schroeder. Total Award Amount (Renewal): \$50,059. August 2012–June 2013.

NASA Kentucky Space Grant Consortium. Researching Equity in STEM Classrooms as Middle Level Students Experience the NASA-based Realistic Explorations in Astronomical Learning Curriculum. **Role: Co-PI.** Principal Investigator: Jennifer Wilhelm. Total Award Amount: \$10,101. January 2012–December 2012.

National Science Foundation. REU Site: Supporting Undergraduate Research Fellows in Timely STEM Education Research via the University of Kentucky’s STEM Educational Research Laboratory. **Role: Senior Personnel.** Principal Investigator: Molly Fisher. Total Award Amount: \$316,000. August 2012–July 2015.

Kentucky Center of Mathematics. See Blue Mathematics Clinic and STEM Camp: A P20 STEM Education Lab Initiative. **Role: Co-PI.** Principal Investigator: Margaret Mohr-Schroeder. Total Award Amount: \$50,000. August 2011–June 2012.

Extramural Support – Pending

Institute of Education Sciences. Instruments for Quantification of Understanding, Identify, and Reasoning in Engineering Focused STEM (InQUIRES). **Role: PI.** Total Amount: \$1,400,000. Submitted August 2018 (Resubmission).

Institute of Education Sciences. Iowa Mathematics Partnership Project for Algebra: Create a Team (IMPACT). **Role:**

Co-PI. Principal Investigator: Anne Foegen. Total Amount Requested: \$400,000. Submitted August 2018.
 National Science Foundation. Collaborative Research: SPReAD: Broadening Participation Research: Increasing Opportunity and Access for Underrepresented Learners in STEM **Role: PI at Iowa State University.**
 Collaborative Proposal. Total Amount Requested: \$375,000. (Full project amount requested: \$1,997,618).
 Submitted August 2018.

National Science Foundation. SBIR Phase II: Engineering Design Instruction Software for implementing Objectives of Next (EDISON) Generation Standards in K-12. **Role: PI at Iowa State University.** Subcontract from Parametric Studio, Inc. Total Amount Requested: \$220,000 (Full project amount requested: \$750,000).
 Submitted February 2018.

Extramural Support – Not Funded

CPM Educational Program Research Grants for Mathematics Education. Curricular Supports for ELLs in Understanding Ratios and Proportions. **Role: Co-PI.** Principal Investigator: Ji Yeong I. Total Amount: \$49,945. Submitted January 2018.

Institute of Education Sciences Department of Education Small Business Innovation Research. PreK-2 Augmented-Reality Storytelling for teaching Coding, Algorithmic-Thinking, and Literacy (PASCAL) Phase I. **Role: PI at Iowa State University.** Subcontract from Parametric Studio, Inc. Total Amount Requested: \$33,333 (Full Project Amount Requested: \$200,000). Submitted February 2018.

National Science Foundation. SBIR Phase I: Novel PreK-2 Engineering Workspaces for Tinkering with Objects in Notional Frames in Augmented Reality (NEWTON-AR). **Role: PI at Iowa State University.** Subcontract from Parametric Studio, Inc. Total Amount Requested: \$36,759 (Full project amount requested: \$225,000).
 Submitted December 2017.

National Science Foundation. Research in Service to Practice: Informal STEM Learning through DAVinCI Club and Camp. **Role: PI.** Total Amount Requested: \$1,419,458. Submitted November 2017.

Institute of Education Sciences. Authentic Algebra Partnership Project for Success (AAPPS). **Role: Co-PI.** Principal Investigator: Anne Foegen. Total Amount Requested: \$400,000. Submitted August 2017.

National Science Foundation. Collaborative Research: Broadening Participation Research: Increasing Opportunity and Access for Underrepresented Learners in STEM. **Role: PI at Iowa State University.** Subcontract from University of Kentucky. Total Amount: \$395,429. (Full project amount: \$1,800,921). Submitted November 2017.

Institute of Education Sciences. Instruments for Quantification of Understanding, Identify, and Reasoning in Engineering Focused STEM (InQUIRES). **Role: PI.** Total Amount: \$1,400,000. Submitted August 2017.

Spencer Foundation. Noticing the Unseen. **Role: PI.** Total Amount: \$49,999. Submitted February 2017.

CPM Educational Program Research Grants for Mathematics Education. Curricular Supports for ELLs in Understanding Ratios and Proportions. **Role: Co-PI.** Principal Investigator: Ji Yeong I. Total Amount: \$50,000. Submitted January 2017.

National Science Foundation. Research in Service to Practice: DAVinCI Design Challenge Club and Camp (D²C³). **Role: PI.** Total Amount: \$770,539. Submitted November 2016.

National Science Foundation. Strategies: Using Game-based Instruction to Broaden the *Playing* Field in STEM. **Role: PI.** Total Amount: \$1,096,274. Submitted August 2016.

Institute of Education Sciences. Authentic Algebra Partnership Project for Success. **Role: Co-PI.** Principal Investigator: Anne Foegen. Total Amount Requested: \$400,000. Submitted August 2016.

CPM Educational Program Research Grants for Mathematics Education. Curricular Treatments of Proportion in US and South Korean School Mathematics Textbooks. **Role: Co-PI.** Principal Investigator: Ji Yeong I. Total Amount Requested: \$45,938. Submitted May 2016.

National Science Foundation. Strategies: Using Game-based Instruction to Broaden the *Playing* Field in STEM. **Role: PI.** Total Amount: \$1,074,089. Submitted November 2015.

William T. Grant Foundation. Exemplar Mathematics Teaching. **Role: PI.** Total Amount: \$24,995. Submitted August 2015.

Spencer Foundation. Community-based Mathematics Education. **Role: PI.** Total Amount: \$399, 917. Submitted June 2015.

National Science Foundation. collaborate2create (c2c): A STC for Optimizing Transdisciplinary STEM Efforts in Research, Teaching and Learning, and Outreach/Engagement. **Role: PI** at Iowa State University; Host Institution PI: Margaret Mohr-Schroeder University of Kentucky. Total Amount Requested: \$21,771,927. Submitted December 2014.

National Science Foundation. GLEAMS. **Role: Co-PI.** Principal Investigator: Keisha Love. Total amount: \$1,465,979. Submitted February 2014.

Best Buy Children's Foundation (Community Partnership Grants). See Blue STEM Camp & Robotics Club Initiative. **Role: Co-PI.** Principal Investigator: Margaret Mohr-Schroeder. Total Amount: \$8,590. Submitted July 2013.

National Science Foundation. Evaluating Middle School Students' Spatial-Scientific Performance in Earth-Space Science: A Realistic Explorations in Astronomical Learning (REAL) Project. **Role: Co-PI.** Principal Investigator: Jennifer Wilhelm. Total Amount: \$450,000. Submitted December 2013.

Time Warner Cable. Increasing middle level students' interest in STEM fields via STEM camps and STEM clubs. **Role: PI.** Total Amount: \$81,059. Submitted August 2013.

National Science Foundation (EHR Core Research). STEM PLUS: Producing Leaders for Urban/rUral Schools-A Program Evaluation. **Role: Co-PI.** Principal Investigator: Margaret Mohr-Schroeder. Total Amount: \$300,000. Submitted July 2013.

NASA. Teachers Experience Project-based STEM: Curriculum, Research, and Networks. **Role: Co-PI.** Principal Investigator: Jennifer Wilhelm. Total Amount: \$500,000. Submitted December 2012.

Spencer Foundation. Exemplary Mathematics Teaching for African American Students. **Role: PI.** Total Amount: \$38,393. Submitted February 2013.

Spencer Foundation. Exemplary Mathematics Teaching for African American Students. **Role: PI.** Total Amount: \$38,560. Submitted May 2013.

Spencer Foundation. Proportion, Ratio, and the Core: Teachers' Interacting with Curricular Elements (PRaCTICE). **Role: Senior Personnel.** Principal Investigator: Lorraine Males. Total Amount: \$49,096. Submitted May 2013.

National Science Foundation. Incorporating STEM in Informal Learning Environments. **Role: PI.** Total Amount: \$1,847,596. Submitted January 2013.

National Science Foundation. STEM PLUS: Producing Leaders for rural/suburban/Urban Schools. **Role: Co-PI.** Principal Investigator: Margaret Mohr-Schroeder. Total Amount: \$6,141,184. Submitted December 2012.

National Science Foundation (TUES). Collaborative Research: Measuring Pre-Service Teachers' Beliefs, Attitudes, and Dispositions Toward Equity and Diversity in Mathematics Education. **Role: PI.** Total Amount: \$99,976. Submitted May 2012.

National Science Foundation (MSP). STEM Plus- Producing leaders for rUral/Urban/sUrban schools. **Role: Senior Personnel.** Principal Investigator: Margaret Mohr-Schroeder. Total Amount: \$7,777,159. Submitted March 2012.

Boston University. The Intersection of Equity Research in Mathematics: A Literature Review. **Role: PI.** Total Amount: \$19,621. Submitted February 2012.

Spencer Foundation. Middle School Teachers' Knowledge of Equity in Teaching Mathematics to African American Students. **Role: PI.** Total Amount: \$39,734. Submitted July 2011.

National Science Foundation. Researching Spatial Development by Gender via ERP and fMRI Measures Pre and Post Pedagogical Intervention. **Role: Co-PI.** Principal Investigator: Jennifer Wilhelm. Total Amount: \$1,153,328. Submitted November 2010.

NASA Kentucky Space Grant Consortium. Researching Equity in STEM Classrooms as Middle Level Students Experience the NASA-based Realistic Explorations in Astronomical Learning Curriculum. **Role: Co-PI.** Principal Investigator: Jennifer Wilhelm. Total Amount: \$14,999. Submitted October 2010.

Intramural Support (Funded: \$18,029)

Iowa State University Foreign Travel Grant. Travel to ICME in Hamburg, Germany. Total Award Amount: \$1,029. July 2016.

Iowa State University Untenured Faculty Seed Grant. Mathematics Teaching for African American Students (MTA²). **Role: PI.** Total Award Amount: \$10,000. May 2015–September 2016.

University of Kentucky Summer Faculty Research Fellowship. Conceptualizing Elementary Teachers' Knowledge of Equity in Teaching Mathematics. **Role: PI.** Total Award Amount: \$7,000. May 2011 – August 2011.

Intramural Support – Not Funded

Iowa State University Human Sciences Extension and Outreach and the College of Human Sciences Engaged Scholarship Funding Program. Broadening Students of Color and Females STEM Literacy via a STEM Club. **Role: PI.** Total Award Amount Requested: \$49,976. Submitted October 2015.

University of Kentucky Support Grant. A case study of three middle school mathematics teachers' knowledge of equity in teaching. **Role: PI.** Total Amount: \$17,300. Submitted March 2013.

University of Kentucky Support Grant. A case study of two middle school mathematics teachers' knowledge of equity in teaching. **Role: PI.** Total Amount: \$11,700. Submitted March 2012.

University of Kentucky SBI Subgrant. Advanced Prep Teacher Leader Program. **Role: Co-PI.** Primary Investigator: Susan Wood. Total Amount: \$3,000. Submitted May 2011.

PUBLICATIONS:

Peer-reviewed Journal Papers – Published

+ indicates work with graduate student(s); ^ indicates work with undergraduate student(s)

- Jackson, C.,** & Mohr-Schroeder, M. J. (2018). Increasing STEM literacy via an informal learning environment. *Journal of STEM Teacher Education, 53*(1), 43-52.
- ⁺**Jackson, C.,** Mohr-Schroeder, M. J., Cavalcanti, M., Albers, S., Poe, K., Delaney, A., Chadd, E., Williams, M. & Roberts, T. (2018). Prospective mathematics teacher preparation: Exploring the use of service learning as a field experience. *Fields Mathematics Education Journal, 3*(5), <https://doi.org/10.1186/s40928-018-0010-5>
- Appelgate, M. H., **Jackson, C.,** Jurgenson, K., & Delaney, A. (2018). Introducing mathematics concepts using STEM connections. *Teaching Children Mathematics, 24*(6), 394-397.
- Mohr-Schroeder, M., Bush, S., & **Jackson, C.** (2018). K12 STEM Education: Why does it matter and Where are we now? *Teachers College Record, <http://www.tcrecord.org>*
- Jackson, C.,** & Jong, C. (2017). Reading and reflecting: Elementary preservice teachers' conceptions about teaching mathematics for equity. *Mathematics Teacher Education and Development, 19*(1), 66-81.
- Jackson, C.,** & Roberts, S. (2017). Dimensions of equity within preservice teachers' responses to equity quotes. *Teaching Excellence and Equity in Mathematics, 8*(1), 6-14.
- Buchheister, K., **Jackson, C.,** Taylor, C. E. (2017). Maths games: A universal design approach to mathematical reasoning. *Australian Primary Mathematics Classroom, 22*(4), 7-12.
- ⁺Mohr-Schroeder, M. J., **Jackson, C.,** Cavalcanti, M., Jong, C., Schroeder, D.C., & Speler, L. (2017). Parents' attitudes toward mathematics and their influence on their students' attitudes towards mathematics: A quantitative study. *School Science and Mathematics, 117*(5), 214-222.
- Jong, C., & **Jackson, C.** (2016). Teaching mathematics for social justice: Examining preservice teachers' conceptions. *Journal of Mathematics Education at Teachers College, 7*(1), 27-34.
- ⁺**Jackson, C.,** Wilhelm, J., Lamar, M., & Cole, M. (2015). Gender and racial differences: Development of sixth grade students' geometric spatial visualization within an earth/space unit. *School Science and Mathematics, 115*(7), 330-343.
- Buchheister, K., **Jackson, C.,** & Taylor, C. (2015). An inside track: Fostering mathematical practices. *Teaching Children Mathematics, 22*, 28-35.
- ⁺**Jackson, C.,** Mohr-Schroeder, M. J., & Little, D. L. (2014). Using informal learning environments to prepare preservice teachers. *Teacher Education & Practice, 27*(2/3), 445-463.
- Buchheister, K., **Jackson, C.,** & Taylor, C. (2014). Integrating universal design and response to intervention in methods courses for general education mathematics teachers. *Journal of Mathematics Education at Teachers College, 5*(2), 63-71.
- ⁺Mohr-Schroeder, M. J., **Jackson, C.,** Schroeder, D., Miller, M., Walcott, B., Little, D., Speler, L., & Schooler, W. (2014). Developing middle school students' interests in STEM via summer learning experiences: The See Blue STEM Camp. *School Science and Mathematics, 114*(6), 291-301.
- Kasten, S. E., Austin, C., & **Jackson, C.** (2014). Am I a mathematics teacher who teaches middle grades or a middle grades teacher who teaches mathematics? Untangling the multiple identities of preservice teachers? *Middle Grades Research Journal, 9*(2), 127-140.
- Taylor, C., Buchheister, K., & **Jackson, C.** (2014). What is the best option? *Teaching Children Mathematics, 21*(4), 203.
- Jackson, C.** (2013). Elementary mathematics teachers' knowledge of equity pedagogy. *Current Issues in Education, 16*(1), 1-14.
- Jackson, C.,** Taylor, C., & Buchheister, K. (2013). Bingo! Select games for mathematical thinking. *Mathematics Teaching in the Middle School, 18*(7), 424-429.
- ⁺Wilhelm, J., **Jackson, C.,** Sullivan, A., & Wilhelm, R. (2013). Examining differences between pre-teen groups' spatial-scientific understandings: A quasi-experimental study. *Journal of Educational Research, 106*(5), 337-351.
- Taylor, C., Buchheister, K., & **Jackson, C.** (2013). What is the best option? *Teaching Children Mathematics, 20*(4), 216-220.
- van Garderen, D., Scheuermann, A., & **Jackson, C.** (2013). Examining how students of diverse abilities use diagrams to solve mathematics word problem. *Learning Disability Quarterly, 36*(3), 145-160.

- Lannin, J.K., van Garderen, D., Switzer, J. M., Buchheister, K., Hill, T., & **Jackson, C.** (2013). The mathematical development in number and operation for struggling first graders. *Investigations in Mathematical Learning*, 6(2), 19–47.
- Jackson, C.** (2012). Elementary teachers' beliefs about African Americans in the mathematics classroom. *Journal of Mathematics Education at Teachers College*, 3(2), 90–96.
- van Garderen, D., Scheuermann, A., & **Jackson, C.** (2012). Developing representational ability in mathematics for students with disabilities: A content analysis of sixth and seventh grade textbooks. *Learning Disability Quarterly*, 35(1), 24–38.
- Mohan, A., Merle, D., **Jackson, C.**, Lannin, J., & Nair, S. (2009). Professional skills in engineering curriculum. *IEEE Transactions on Education*, 53(4), 562–571.
- van Garderen, D., Scheuermann, A., **Jackson, C.**, & Hampton, D. (2009). Supporting the collaboration of special educators and general educators to teach students who struggle with mathematics: An overview of the research. *Psychology in the Schools*, 46(1), 56–77.

Peer-reviewed Article Length Proceedings

+ indicates work with graduate student(s); ^ indicates work with undergraduate student(s)

- +**Jackson, C.**, Appelgate, M., Delaney, A., & Jurgenson, K. (2018). Influence of integrated STEM curricula on instruction. Proceedings to be included in T. Hodges, G. Roy, & A. Tyminski (Eds.), *Proceedings of the 40th annual meeting of the North American Chapter of the International Groups for the Psychology of Mathematics Education*. Greenville, SC: South Carolina University.
- +Appelgate, M., **Jackson, C.**, Jurgenson, K., & Delaney, A. (2018). Using text messages to connect linguistically diverse families with their child's mathematics classroom learning. Proceedings to be included in T. Hodges, G. Roy, & A. Tyminski (Eds.), *Proceedings of the 40th annual meeting of the North American Chapter of the International Groups for the Psychology of Mathematics Education*. Greenville, SC: South Carolina University.
- +Delaney, A., Calvalcanti, M., **Jackson, C.**, & Mohr-Schroeder, M. (2017). Opening access to all students: STEMing self-efficacy. Proceedings to be included in J. Newton, & E. Calindo (Eds.), *Proceedings of the 39th annual meeting of the North American Chapter of the International Groups for the Psychology of Mathematics Education*. Indianapolis, IN: Purdue University.
- +Delaney, A., **Jackson, C.**, & Mohr-Schroeder, M. (2017). Developing STEM literacy via an informal learning environment. Proceedings to be included in J. Newton, & E. Calindo (Eds.), *Proceedings of the 39th annual meeting of the North American Chapter of the International Groups for the Psychology of Mathematics Education*. Indianapolis, IN: Purdue University.
- +**Jackson, C.**, & Delaney, A. (2016, November). Teachers' beliefs: How they are enacted in the classroom. Proceedings to be included in M. Wood, E. Turner, & M. Civil (Eds.), *Proceedings of the 38th annual meeting of the North American Chapter of the International Groups for the Psychology of Mathematics Education*. Tucson, AZ: University of Arizona.
- Jackson, C.**, Austin, C., & Kasten, S. (2016, November). Preservice teachers use of mathematical explanations. Proceedings to be included in M. Wood, E. Turner, & M. Civil (Eds.), *Proceedings of the 38th annual meeting of the North American Chapter of the International Groups for the Psychology of Mathematics Education*. Tucson, AZ: University of Arizona.
- Jackson, C.**, Appelgate, M., Seiler, G., Sheth, M., & Nadolny, L. (2016, November). Using a virtual environment to uncover biases, assumptions, and beliefs and implications for mathematics teaching. Proceedings to be included in M. Wood, E. Turner, & M. Civil (Eds.), *Proceedings of the 38th annual meeting of the North American Chapter of the International Groups for the Psychology of Mathematics Education*. Tucson, AZ: University of Arizona.
- Jackson, C.**, & Mohr-Schroeder, M. (2016, July). Increasing STEM Literacy via an Informal Learning Environment. Proceedings paper presented at the 13th International Congress on Mathematical Education, ICME13, Hamburg, Germany.
- Jackson, C.**, Taylor, C. E., & Buchheister, K. (2015, November). What is equity? Ways of seeing. In T. G. Bartell, K. N. Bieda, R. T. Putnam, K. Bradfield, & H. Dominguez (Eds.), *Proceedings of the 37th annual meeting of the North American Chapter of the International Groups for the Psychology of Mathematics Education*, (pp. 510–517). East Lansing, MI: Michigan State University.
- Appelgate, M., **Jackson, C.** (2015, November). Using a virtual environment to prepare prospective teachers to teach equitably. In T. G. Bartell, K. N. Bieda, R. T. Putnam, K. Bradfield, & H. Dominguez (Eds.), *Proceedings of the 37th annual meeting of the North American Chapter of the International Groups for the Psychology of*

- Mathematics Education*, (pp. 989). East Lansing, MI: Michigan State University.
- Huey, M., & **Jackson, C.** (2015, November). A framework for analyzing informal inferential reasoning tasks in middle school textbooks. In T. G. Bartell, K. N. Bieda, R. T. Putnam, K. Bradfield, & H. Dominguez (Eds.), *Proceedings of the 37th annual meeting of the North American Chapter of the International Groups for the Psychology of Mathematics Education*, (pp. 431–438). East Lansing, MI: Michigan State University.
- Thomas, J., **Jackson, C.**, & Kasten, S. (2015, November). Teachers' perceptions of mathematics standards: A comparison of PSSM and CCSSM. In T. G. Bartell, K. N. Bieda, R. T. Putnam, K. Bradfield, & H. Dominguez (Eds.), *Proceedings of the 37th annual meeting of the North American Chapter of the International Groups for the Psychology of Mathematics Education*, (pp. 126). East Lansing, MI: Michigan State University.
- +**Jackson, C.**, Cavalcanti, M., Mohr-Schroeder, M., & Schroeder, C. (2015, October). Bolstering teachers' STEM literacy via informal learning experiences. In Mohr-Schroeder, M., & Thomas, J. (Eds.), *Proceedings of the 2015 annual meeting of the School Science and Mathematics Association*. Oklahoma City, OK.
- Jackson, C.**, & Mohr-Schroeder, M. (2014, July). Preparing prospective mathematics teachers to work with students who struggle. In Liljedahal, P., Nicol, C., Oesterle, S., & Allan, D. (Eds.), *Proceedings of the 38th Conference of the International Group for the Psychology of Mathematics Education and the 36th Annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, (pp. 112). Vancouver, Canada: PME.
- Wilhelm, J., & **Jackson, C.** (2014, July). STEM education in formal and informal environments: The REAL way. In Liljedahal, P., Nicol, C., Oesterle, S., & Allan, D. (Eds.), *Proceedings of the 38th Conference of the International Group for the Psychology of Mathematics Education and the 36th Annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, (pp. 412). Vancouver, Canada: PME.
- +**Jackson, C.**, Wilhelm, J., Peake, J. (2013, November). Gender differences: Examining sixth grade students' understanding of geometric spatial visualization. In Martinez, M. & Castro Superfine, A (Eds.). *Proceedings of the 35th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, (pp. 560). Chicago, IL: University of Illinois at Chicago.
- Jong, C., & **Jackson, C.** (2013, November). Examining preservice teachers' conceptions about teaching mathematics for social justice. In Martinez, M. & Castro Superfine, A (Eds.). *Proceedings of the 35th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, (pp. 789–792). Chicago, IL: University of Illinois at Chicago.
- Salinas, A., **Jackson, C.**, Roberts, S. (2013, November). Preservice teachers' emergent conceptions of equity. In Martinez, M. & Castro Superfine, A (Eds.). *Proceedings of the 35th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, (pp. 865–868). Chicago, IL: University of Illinois at Chicago.
- +Russey, C., Wilhelm, J., & **Jackson, C.** (2013, November). Middle school students' mathematical comprehension of latitude and longitude. In Martinez, M. & Castro Superfine, A (Eds.). *Proceedings of the 35th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, (pp. 222). Chicago, IL: University of Illinois at Chicago.
- +Cole, M., Wilhelm, J., **Jackson, C.**, & Yang, H. (2013, November). Exploring the relationships between student moon observations and spatial-scientific reasoning. In Martinez, M. & Castro Superfine, A (Eds.). *Proceedings of the 35th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, (pp. 217). Chicago, IL: University of Illinois at Chicago.
- Jackson, C.**, Roberts, S., & Salinas, A. (2012, November). Secondary pre-service mathematics teachers' conceptions of equity. In L.R. Van Zoest, J.J. Lo, & J. L. Kratky (Eds.), *Proceedings of the Thirty-fourth Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 363–366). Kalamazoo, MI: Western Michigan University.
- +**Jackson, C.**, Wilhelm, J., Sullivan, A., & Wilhelm, R. (2012, November). Gender differences of high and low performing students' spatial reasoning. In L.R. Van Zoest, J.J. Lo, & J. L. Kratky (Eds.), *Proceedings of the Thirty-fourth Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 1041). Kalamazoo, MI: Western Michigan University.
- +Wilhelm, J., **Jackson, C.**, Sullivan, A., & Wilhelm, R. (2012, November). Factors influencing middle school students' spatial mathematics development while participating in an integrated STEM unit. In L.R. Van Zoest, J.J. Lo, & J. L. Kratky (Eds.), *Proceedings of the Thirty-fourth Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 311–318). Kalamazoo, MI: Western Michigan University.
- Jackson, C.** (2011, October). Mrs. Thomas: A case conceptualizing a teacher's knowledge of equity in teaching

mathematics. In the *Proceedings of the Thirty-Third Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 938–946). Reno, NV: University of Nevada, Reno.

Peer-reviewed Journal Papers – Accepted

- ⁺[^]Roberts, T., **Jackson, C.**, Mohr-Schroeder, M., Bush, S., Maiorca, C., Cavalcanti, M., Schroeder, C., Delaney, A., Putnam, L., & Cremeans. (accepted). Students' perceptions of STEM learning after participating in a summer informal learning experience. Submitted to *Journal of STEM Education*.
- Buchheister, K., **Jackson, C.**, & Taylor, C. E. (accepted). What-how-who: Developing mathematical discourse. *Mathematics Teaching in the Middle School*.
- Buchheister, K., **Jackson, C.**, & Taylor, C. E. (accepted). “Sliding” into an equitable lesson. *Teaching Children Mathematics*.
- Buchheister, K. **Jackson, C.**, & Taylor, C. E. (accepted). Reflections in children's literature--Creating equitable tasks in early mathematics. *Teaching Young Children*.

Peer-reviewed Journal Papers – Submitted for Review

⁺ indicates work with graduate student(s); [^] indicates work with undergraduate student(s)

Peer-reviewed Book Chapters–Published

* indicates invited; ⁺ indicates work with graduate student(s); [^] indicates work with undergraduate student(s)

- ***Jackson, C.**, Taylor, C. E., & Buchheister, K. (2018). Seeing mathematics through different eyes: An equitable approach to use with prospective teachers. In T. G. Bartell (Ed), *Toward Equity and Social Justice in Mathematics Education*. Switzerland: Springer.
- ⁺Mohr-Schroeder, M. J., **Jackson, C.**, Cavalcanti, M., & Delaney, A. (2018). Gaining valuable field experience through the use of informal learning environments. In Marilyn E. Strutchens, Rongjin Huang, Despina Potari, & Leticia Losano. (Eds.). *Educating Prospective Secondary Mathematics Teachers* (pp. 63-82). ICME-13 Monographs. Springer, Cham. doi: https://doi.org/10.1007/978-3-319-91059-8_5
- *⁺**Jackson, C.**, & Delaney, A. (2017). Mindsets and practices: Shifting to an equity-centered paradigm. In A. Fernandes, S. Crespo, & M. Civil (Eds.), *Access and Equity: Promoting high quality mathematics in grades 6-8* (pp. 143-155). Reston, VA: National Council of Teachers of Mathematics.
- Buchheister, K., **Jackson, C.**, & Taylor, C. (2017). Defining effective learning tasks for all. In C. Martin & D. Polly (Eds.), *Handbook of Research on Teacher Education and Professional Development* (pp. 561-581). Hershey, PA: IGI Global. doi:10.4018/978-1-5225-1067-3
- ⁺van Garderen, D., Poch, A., **Jackson, C.**, & Roberts, S. (2017). Teaching mathematics to students with disabilities from diverse backgrounds. In M. T. Hughes & E. Talbott (Eds.), *The Handbook of Research on Diversity in Special Education* (pp. 209-230). West Sussex, PO198SQ, UK: John Wiley & Sons.
- ***Jackson, C.** (2016). Equitable mathematics teaching for *all* students—A commentary on Crespo's case. In D. White, S. Crespo, & M. Civil. (Eds.), *Cases for teacher educators: Facilitating conversations about inequities in mathematics classrooms* (pp. 75-78). Charlotte, NC: Information Age Publishing.

Peer-reviewed Book Chapters–In press

* indicates invited; ⁺ indicates work with graduate student(s); [^] indicates work with undergraduate student(s)

- Mohr-Schroeder, M. J., **Jackson, C.**, Schroeder, D. C., & Wilhelm, J. (in press). Developing a STEM Education teacher preparation program to help increase STEM Literacy amongst preservice teachers. In P. Jenlink (Ed.), *STEM teaching and Common Core Standards: An interdisciplinary approach*. Lanham, Maryland: Rowman & Littlefield.

Peer-reviewed Book Chapters–Submitted for Review

* indicates invited; ⁺ indicates work with graduate student(s); [^] indicates work with undergraduate student(s)

Other Publications

- Whitmer, C. E., **Jackson, C.**, & Appelgate, M. (2017). " Engineering Design Instruction Software for implementing Objectives of Next generation standards (EDISON), NSF STTR Phase I Final Report (#IIP-1622875)."
- Whitmer, C. E., **Jackson, C.**, & Appelgate, M. (2016). "Design Environment for Educator-Student Collaboration Allowing Real-Time Engineering-centric, STEM (DESCARTES) Exploration in Middle Grades". Department of Education SBIR Phase I Final Report (#ED-IES-16-C-0010).

Manuscripts in Preparation

+ indicates work with graduate student(s); ^ indicates work with undergraduate student(s)

- Jackson, C.**, Kasten, S., & Austin, C. (in preparation). Productive mathematical explanations. Planned submission to *Mathematics Teacher Educator*.
- +**Jackson, C.**, Mohr-Schroeder, M., Delaney, A., Calvacanti, M., & Chadd, E. (in preparation). Teacher preparation and service learning: A communal partnership. Planned submission to *Advances in Teacher Education*.
- Huey, M., **Jackson, C.**, Males, L. (in preparation). Informal inferential reasoning tasks in 7th grade textbooks. Planned submission to *Mathematics Thinking and Learning*.
- +Mohr-Schroeder, M., **Jackson, C.**, Calvacanti, M., Delaney, A., & Chadd, E. (in preparation). Middle level students' perception of STEM. Planned submission to *International Journal of Science and Mathematics Education*.
- +Delaney, A., von Gillern, S., **Jackson, C.** (in preparation). Promoting mathematical discourse with twine. Planned submission to *Mathematics Teaching in the Middle School*.

JURIED SCHOLARLY PRESENTATIONS AT PROFESSIONAL MEETINGS:

Regional, National or International

+ indicates work with graduate student(s); ^ indicates work with undergraduate student(s)

- Jackson, C.**, Buchheister, K., & Taylor, Cynthia E. (2019, April). *Identifying equitable mathematics instruction*. Paper presented at the annual meeting of the National Council of Teachers of Mathematics, San Diego, CA.
- Taylor, C. E., **Jackson, C.**, & Buchheister, K. (2019, April). *What-how-who: Structuring mathematical discourse*. Paper presented at the annual meeting of the National Council of Teachers of Mathematics, San Diego, CA.
- +Delaney, A., & **Jackson, C.** (2019, April). *Coding and logic: Play-based spatial reasoning and computational thinking in PK-2*. Gallery workshop presented at the annual meeting of the National Council of Teachers of Mathematics, San Diego, CA.
- Jackson, C.**, Buchheister, K., & Taylor, C. (2018, October). *Do you see what I see? Developing a new frame of reference*. Paper presented at the annual convention of the School Science and Mathematics Association, Little Rock, AK.
- +**Jackson, C.**, Cavalcanti, M., Dueber, D., Maiorca, C., Roberts, T., Delaney, A., Bush, S., Mohr-Schroeder, M., & Schroeder, D. C. (2018, October). *Operationalizing equity-based STEM literacy in designing quantitative surveys*. Paper presented at the annual convention of the School Science and Mathematics Association, Little Rock, AK.
- +Schroeder, D. C., Maiorca, C., **Jackson, C.**, Roberts, T., Delaney, A., Bush, S., Cavalcanti, M., & Mohr-Schroeder, M. (2018, October). *Motivating and inspiring elementary and middle level students' interest in STEM*. Paper presented at the annual convention of the School Science and Mathematics Association, Little Rock, AK.
- Roberts, T., & **Jackson, C.** (2018, February). *Preservice elementary teachers' conceptions of equitable math teaching*. Presentation at the annual meeting of the Research Council on Mathematics Learning, Baton Rouge, LA.
- Jackson, C.**, Appelgate, M., Whitmer, C., Delaney, A., & Jurgenson, K. (2018, April). *Why boats float: It speaks volumes about mathematics*. Gallery workshop presented at the annual meeting of the National Council of Teachers of Mathematics, Washington D.C.
- +Appelgate, M., **Jackson, C.**, Jurgenson, K., & Delaney, A. (2018, April). *Using mathematically-focused text messages to communicate with parents*. Presentation at the National Council of Teachers of Mathematics Research Conference, Washington D.C.
- +I, J., Martinez, R., & **Jackson, C.** (2018, April). *Preservice teachers' perceptions on mathematical modeling used for emergent bilinguals*. Paper presented at the annual meeting of American Educational Research Association, New York, NY.
- Taylor, C., Buchheister, K., & **Jackson, C.** (2018, April). *Through the looking glass—Using literature as windows*

- into equity in early mathematics*. Presentation presented at the annual meeting of the National Council of Teachers of Mathematics, Washington D.C.
- Whitmer, C.E., **Jackson, C.**, Appelgate, M., & Robideau, D. (2018, January). *The Development and Pilot Testing of DESCARTES an Engineering Instruction, Project, and Curricula Platform for STEM Instruction in Grades 3-6*. Poster Session for IES PI Conference, Washington DC.
- [†]Cavalcanti, M., Mohr-Schroeder, M., **Jackson, C.**, Maiorca, C., Delaney, A., & Roberts, T. (2018, February). *Going beyond the framework: Operationalizing an equity framework in designing quantitative surveys*. Paper to be presented at the annual Association of Mathematics Teacher Educators, Houston, TX.
- [†]Delaney, A., & **Jackson, C.** (2018). *The STEM princess: engaging young females in STEM*. Workshop presented at the annual convention of the School Science and Mathematics Association, Lexington, KY.
- Mohr-Schroeder, M. J., **Jackson, C.**, & Schroeder, D. C., Thomas, J. N. (2017, April). *Connecting the "M" in STEM*. Gallery workshop presented at the annual meeting of the National Council of Teachers of Mathematics, San Antonio, TX.
- Jackson, C.**, Buchheister, K., & Taylor, C. (2017, January). *Seeing what was once seen*. Paper presented at the annual Association of Mathematics Teacher Educators, Orlando, FL.
- Appelgate, M., & **Jackson, C.** (2017, January). *Using preservice teacher designed video lessons to promote conceptual understanding and collaboration with middle-grade students*. Paper presented at the annual Association of Mathematics Teacher Educators, Orlando, FL.
- [†]Mohr-Schroeder, M. J., **Jackson, C.**, Cavalcanti, M., & Delaney, A. (2017, January). *Increasing STEM literacy of preservice and inservice teachers via an informal learning environment*. Paper presented at the annual Association of Mathematics Teacher Educators, Orlando, FL.
- [†]Schroeder, C., **Jackson, C.**, Mohr-Schroeder, M., Calvacanti, M., & Williams, M. (2016, October). *Motivating and inspiring students' interest in STEM*. Paper presented at the annual convention of the School Science and Mathematics Association, Phoenix, AZ.
- Taylor, C. E., **Jackson, C.**, & Buchheister, K. E. (2016, April). *Visualizing instructional equity*. Presentation at the annual meeting of the National Council of Teachers of Mathematics, San Francisco, CA.
- Buchheister, K. E., Taylor, C. E., **Jackson, C.** (2016, April). *Discerning geometric patterns and structure through games*. Presentation at the annual meeting of the National Council of Teachers of Mathematics, San Francisco, CA.
- [^]Albers, S., Williams, M., Mohr-Schroeder, M., & **Jackson, C.** (2016, April). *A summer in STEM: Increasing middle school students' interest and engagement in STEM through a one-week summer camp*. Paper presented at the annual meeting of the National Council for Undergraduate Research, Asheville, NC.
- Mohr-Schroeder, M., & **Jackson, C.** (2016, January). *Informal learning environments: Unique approaches to preparing preservice teachers*. Paper presented at the annual meeting of the Association of Mathematics Teacher Educators, Irvine, CA.
- Huey, M., **Jackson, C.**, & Males, L. (2016, January). *A framework for increasing teachers' knowledge needed to teach statistics through analyzing grade 7 tasks*. Paper presented at the annual meeting of the Association of Mathematics Teacher Educators, Irvine, CA.
- Jackson, C.**, Sheth, M., Seiler, G., Appelgate, M., & Nadolny, L. (2015, October). *Using virtual worlds to prepare preservice teachers to teach mathematics and science in culturally responsive ways*. Presentation at the annual meeting of the National Association of Multicultural Education. New Orleans, LA.
- Mohr-Schroeder, M. J., **Jackson, C.**, Schroeder, D. C., Cavalcanti, M., Blyman, K., Roberts, O., & Lemmon, M. (2015, October). *Bolstering preservice teachers' STEM literacy via informal learning experiences*. Paper presented at the annual convention of the School Science and Mathematics Association, Oklahoma City, OK.
- Jackson, C.**, & Schroeder, M. (2015, May). *Using informal learning environments to prepare preservice teachers to work with struggling mathematics learners*. Paper presented at the annual meeting of the Association of Mathematics Teacher Educators, Orlando, FL.
- Jackson, C.**, Roberts, S., & Salinas, A. (2015, May). *Prospective mathematics teachers' conceptions of equitable mathematics teaching*. Paper presented at the annual meeting of the Association of Mathematics Teacher Educators, Orlando, FL.
- Jackson, C.**, Safi, Farshid, S., Yee, S., & Jansen, M. (2015, May). *STaR panel question and answer session*. Presentation at the STaR follow-up session prior to annual meeting of the Association of Mathematics Teacher Educators, Orlando, FL.
- Reys, R., Dollard, C., **Jackson, C.**, Krupa, E., Moore, K., Spangler, D., Wanko, J. (2015, May). *An opportunity for new doctorates and something senior mathematics educators should know about*. Presentation at the annual meeting of the Association of Mathematics Teacher Educators, Orlando, FL.

- [^]Mohr-Schroeder, M. J., Schroeder, D. C., Walcott, B., **Jackson, C.**, Evans, M., & Cavalcanti, M. (2015, May). *Informal STEM learning communities to broaden participation of underrepresented populations in STEM*. Poster presented at the annual Kentucky EPSCoR Conference, Lexington, KY.
- ⁺Schroeder, D. C., **Jackson, C.**, Mohr-Schroeder, M. J., Powers, L. B., Albers, S., Poe, K., Roberts, O. T., Blyman, K., & Cavalcanti, M. (2015, April). *Tapping the potential of struggling learners of mathematics: Instructional strategies*. Gallery workshop presented at the annual meeting of the National Council of Teachers of Mathematics, Boston, MA.
- Jackson, C.**, Mohr-Schroeder, M., Schroeder, C., Powers, B., & Jackson, M. (2014, April). *Instructional strategies for students who are struggling in mathematics*. Presentation at the annual meeting of the National Council of Teachers of Mathematics, New Orleans, LA.
- Roberts, S., **Jackson, C.**, Salinas, A. (2014, April). *Defining and characterizing worthwhile equitable pedagogies in mathematics tasks*. Presentation at the annual meeting of the American Educational Research Association, Philadelphia, PA.
- Taylor, C. E., **Jackson, C.**, & Buchheister, K. (2014, April). *Actions addressing the Common Core in elementary methods/content courses*. Poster presented at the Research Pre-session of the annual meeting of National Council of Teachers of Mathematics, New Orleans, LA.
- Taylor, C., **Jackson, C.**, Buchheister, K. (2014, April). *Developing prospective teachers' awareness of the common core in elementary methods and content courses*. Presentation at the annual meeting of the American Educational Research Association, Philadelphia, PA.
- [^]Cameron, S., Pardee, R., & **Jackson, C.** (2014, April). *Questioning and mathematical classroom discourse in three middle level science classroom*. Paper presented at the 2014 National Conference on Undergraduate Research (NCUR), Lexington, KY.
- Reys, R., Glasgow, R., & **Jackson, C.** (2014, April). *Doctorates in mathematics education: Jobs available in higher education institutions*. Presentation at the annual meeting of the National Council of Teachers of Mathematics, New Orleans, LA.
- ⁺Wilhelm, J., Toland, M., **Jackson, C.**, Cole, M. (2014, April). *How instruction, gender, and race affect students' spatial-scientific learning*. Presentation at the annual meeting of National Association for Research in Science Teaching, Pittsburgh, PA.
- ⁺**Jackson, C.**, Mohr-Schroeder, M., & Schroeder, C., Roberts, O., Blyman, K., & Cavalcanti, M. (2014, February). *Preparing teachers to work with students who struggle in mathematics*. Paper presented at the annual convention of the School Science and Mathematics Association, Jacksonville, FL.
- Salinas, A., **Jackson, C.**, & Roberts, S. (2014, February). *Evolving prompts to elicit preservice teachers' conceptions of equity in mathematics education*. Paper presented at the annual meeting of the Association of Mathematics Teacher Educators, Irvine, CA.
- ⁺Schroeder, C., **Jackson, C.**, Mohr-Schroeder, M., Blyman, K., Roberts, O., & Cavalcanti, M. (2014, February). *Motivating and inspiring middle level students' interest in STEM via STEM Camp*. Paper presented at the annual convention of the School Science and Mathematics Association, Jacksonville, FL.
- [^]Speler, L., Schooler, W., **Jackson, C.**, Mohr-Schroeder, M. (2014, February). *Getting middle school students interested in STEM*. Paper presented at the 2014 National Conference on Undergraduate Research, Lexington, KY.
- Taylor, C., Buchheister, K., & **Jackson, C.** (2014, February). *Actions elementary mathematics teacher educators use to develop prospective teachers' awareness of the CCSSM*. Paper presented at the annual meeting of the Association of Mathematics Teacher Educators, Irvine, CA.
- ⁺Bean, W., Peake, J. R., Wilhelm, J., & **Jackson, C.** (2014, February). *Impact of student motivation on learning mathematics in an informal setting*. Paper presented at the annual convention of the School Science and Mathematics Association, Jacksonville, FL.
- Jackson, C.**, Mohr-Schroeder, M., Schroeder, C. (2013, November). *Tapping the mathematical potential of students who struggle: Instructional Strategies*. Presentation at the regional meeting of the National Council of Teachers Mathematics, Louisville, KY.
- [^]**Jackson, C.**, Mohr-Schroeder, M., Schroeder, C., Powers, B., Speler, L., & Schooler, W. (2013, November). *Tapping the mathematical potential of students who struggle: Instructional strategies*. Gallery workshop presentation at the regional meeting of the National Council of Teachers of Mathematics, Louisville, KY.
- ⁺Jong, C., **Jackson, C.**, & Miller, M. (2013, November). *Understanding preservice teachers' conceptions about teaching mathematics for social justice*. Presentation at the regional meeting of National Council of Teachers of Mathematics, Louisville, KY.
- ⁺Mohr-Schroeder, M., **Jackson, C.**, Schroeder, D. C., & Little, D. (2013, November). *Informal learning environments in STEM education*. Paper presented at the annual convention of the School Science and Mathematics

Association, San Antonio, TX.

- +Jong, C., **Jackson, C.**, & Miller, M. (2013, November). *Understanding Preservice Teachers' Conceptions about Teaching Mathematics for Social Justice*. Presentation at the regional meeting of the National Council of Teachers Mathematics, Louisville, KY.
- +Wilhelm, J., **Jackson, C.**, Toland, M. D., Cole, M., & Wilhelm, R. (2013, June). *Evaluating middle school students' spatial-scientific performance in Earth-space science*. Paper presented at the 222nd meeting of the American Astronomical Society, Indianapolis, Indiana.
- +Cole, M., Wilhelm, J., **Jackson, C.**, Hongwei, Y., & Wilhelm, R. (2013, June). *Exploring the relationships between student moon observations and spatial-scientific reasoning*. Poster presented at the 222nd meeting of the American Astronomical Society, Indianapolis, Indiana.
- +**Jackson, C.**, Wilhelm, J., Sullivan, A., Peake, J., & Wilhelm, R. (2013, April). *Gender differences: Development of sixth grade students' geometric spatial visualization within an Earth/space unit*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Puerto Rico.
- Reys, R., Glasgow, R., & **Jackson, C.** (2013, April). *Doctorates in mathematics education: A shortage continues and jobs exist*. Presented at the annual meeting of the National Council of Teachers of Mathematics, Denver, CO.
- Jackson, C.**, & Jong, C. (2013, January). *Preservice elementary teachers' understanding of equity in teaching mathematics*. Presentation at the annual meeting of the Association of Mathematics Teacher Educators, Orlando, FL.
- +Mohr-Schroeder, M., **Jackson, C.**, & Little, D. (2012, November). *Tapping the potential of struggling mathematics learners: The See Blue Mathematics Clinic*. Presentation at the annual convention of the School Science and Mathematics Association, Birmingham, AL.
- +**Jackson, C.**, Wilhelm, J., DeMore, A., & Wilhelm, R. (2012, April). *Gender differences of high and low performing students' spatial reasoning and understanding of lunar phases*. Paper presented at the annual meeting of the American Educational Research Association, Vancouver, British Columbia, Canada.
- +Wilhelm, J., **Jackson, C.**, DeMore, A., & Wilhelm, R. (2012, April). *Exploring variables that affect students' scientific and spatial understanding as they engage in earth-space science*. Paper presented at the annual meeting of the American Educational Research Association, Vancouver, British Columbia, Canada.
- Reys, R., Glasgow, R., & **Jackson, C.** (2012, April). *A doctorate in mathematics education: A shortage continues and jobs exist*. Presentation at the annual meeting of the National Council of Teachers of Mathematics, Philadelphia, PA.
- Reys, R., & **Jackson, C.** (2012, February). *STaR-Service, Teaching and Research- An opportunity for new doctorates in mathematics education*. Presentation at the annual meeting of the Association of Mathematics Teacher Educators, Fort Worth, TX.
- Jackson, C.**, & Kasten, S. (2012, February). *A comparative analysis of verb use and voice between the common core standards for mathematics and the principles and standards for school mathematics*. Poster presented at the annual meeting of the Association of Mathematics Teacher Educators, Fort Worth, TX.
- Jackson, C.**, Roberts, S., & Salinas, A. (2012, February). *Assessing pre-service teachers' understanding of equity in the teaching of mathematics*. Poster presented at the annual meeting of the Association of Mathematics Teacher Educators, Fort Worth, TX.
- Jackson, C.** (November, 2011). *Conceptualizing mathematics teachers' knowledge of equity in teaching*. Presentation at the annual meeting of the Appalachian Association of Mathematics Teacher Educators, Huntington, WV.
- Jackson, C.** (October, 2011). *Teachers' knowledge of equity in teaching mathematics*. Presentation at the regional meeting of the National Council of Teachers of Mathematics, St. Louis, MO.
- Reys, R., Glasgow, R., & **Jackson, C.** (October, 2011). *Are you interested in a Ph.D in mathematics education? An acute shortage and jobs exist!* Presentation to the regional meeting of the National Council of Teachers of Mathematics, St. Louis, MO.
- van Garderen, D., Scheuermann, A., & **Jackson, C.** (2011, April). *How students of diverse abilities use diagrams to solve problems*. Poster presented at the Research Pre-session of the annual meeting of the National Council of Teachers of Mathematics, Indianapolis, IN.
- Reys, R., Glasgow, R., & **Jackson, C.** (2011, April). *A doctorate in mathematics education: An acute shortage exists, and jobs are available*. Presentation at the annual meeting of the National Council of Teachers of Mathematics, Indianapolis, IN.
- Jackson, C.**, van Garderen-Anderson, D., Scheuermann, A. (2011, March). *How students of diverse abilities solve mathematics problems*. Presentation at the annual meeting of the Research Council on Mathematics Learning, Cincinnati, OH.

- Switzer, J. M., Lannin, J., van Garderen, D., Buchheister, K., Davis, J., **Jackson, C.** (2010, July). *First-grade student misconceptions with cardinality and ordinality*. Poster presentation at the annual meeting of the Mathematics Education Research Group of Australasia (MERGA) 33: Fremantle, WA, Australia.
- van Garderen, D., Scheuermann, A., & **Jackson, C.** (2010, April). *Understanding how students of diverse abilities use diagrams to solve mathematics problems*. Presentation at the annual meeting of the American Educational Research Association, Denver, CO.
- Arbaugh, F., Chval, K., Lannin, J., **Jackson, C.**, Webb, M., & Hicks, S. (2010, April). *Delineating the pedagogical content knowledge of beginning secondary mathematics teachers*. Presentation at the Research Pre-session of the annual meeting of the National Council of Teachers of Mathematics, San Diego, CA.
- van Garderen, D., Lannin, J., **Jackson, C.**, Buchheister, K., Switzer, J.M. (2009, April). *Assessing mathematical understanding of struggling learners in number and operations*. Presentation at the annual meeting of the National Council of Mathematics Teachers, Washington, DC.
- Lannin, J., van Garderen, D., **Jackson, C.**, Buchheister, K., Switzer, J.M. (2009, April). *The numeric development of struggling first grade students*. Poster presented at the Research Pre-session of the annual meeting of the National Council of Teachers of Mathematics, Washington, DC.
- Arbaugh, F., Chval, K., **Jackson, C.**, Webb, M., & Regis, T. (2009, April). *The growth mathematics teachers' knowledge related to instruction*. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- Lannin, J. K., van Garderen, D., **Jackson, C.**, Buchheister, K., Switzer, J. M. (2009, April). *The mathematical development of struggling first grade students*. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- Pomerence, S., Webb, M. M., **Jackson, C.**, Regis, T. P., & Chval, K. B. (2008, January). *Examining and discussing preservice mathematics teachers' orientations*. Presentation at the annual meeting of the Association of Mathematics Teacher Educators, Tulsa, OK.
- Chval, K. B., Lannin, J. K., Sutter, A. D., Regis, T. P., & **Jackson, C. D.** (2007, January). *Using video and written cases to prepare future mathematics teacher educators*. Presentation at the annual meeting of the Association of Mathematics Teacher Educators, Irvine, CA.

State and Local

+ indicates work with graduate student(s); ^ indicates work with undergraduate student(s)

- Jackson, C.** (2015, February). *Prospective Mathematics Teachers' Conceptions of Equity*. Presentation at the annual meeting of the Iowa Association of Mathematics Teacher Educators, Cedar Falls, IA.
- +Cole, M., Wilhelm, J., **Jackson, C.**, & Wilhelm, R. (2013, October). *Informal STEM Education: The REAL way*. Poster presented at The EPSCoR Conference, Louisville, KY.
- Wilhelm, J., Fisher, M., **Jackson, C.**, Jong, C., Krall, R., Mohr-Schroeder, M., & Criswell, B. (2013, October). *STEM Education: Bridging disciplines, bridging generations, bridging cultures*. Presentation at the Innovate to Learn Institute, Lexington, KY.
- Kasten, S., **Jackson, C.**, Thomas, J., Austin, C., & Noblitt, B. (2013, February). *Preservice Teacher Preparation (PTP) Working Group*. Presentation at the annual conference at the Kentucky Center for Mathematics, Lexington, KY.
- Mohr-Schroeder, M., **Jackson, C.**, & Schroeder, C. (2013, February). *Tapping the potential of struggling learners*. Presentation at the annual conference at the Kentucky Center for Mathematics, Lexington, KY.
- Jackson, C.** (2012, March). *Games in the middle school: Things to consider*. Presentation at the annual conference at the Kentucky Center for Mathematics, Lexington, KY.
- +Wilhelm, J., **Jackson, C.**, & Sullivan, A. (2012, March). *Investigating students' spatial visualization and scientific development as they engage in an integrated mathematics/science Earth-Space unit*. Presentation at the annual conference at the Kentucky Center for Mathematics, Lexington, KY.
- Fisher, M., Schroeder, M., Wilhelm, J., **Jackson, C.**, & Jong, C. (2012, March). *Pursuing a graduate degree in STEM Education: The facts and myths*. Presentation at the annual conference at the Kentucky Center for Mathematics, Lexington, KY.
- Jackson, C.** (2011, April). *Teachers' knowledge of equity*. Presentation at the annual meeting of the STEM Education Conference at the University of Kentucky, Lexington, KY.
- +**Jackson, C.**, Little, D., & Mohr-Schroeder, M. (2011, April). *UK Mathematics Clinic*. Presentation at the annual meeting of the STEM Education Conference at the University of Kentucky, Lexington, KY.
- Hanley, C., Radcliffe, B., Taylor, K., **Jackson, C.**, and Schnittka, C. (2011, April). *Black males working STEM Academy*. Presentation at the annual meeting of the STEM Education Conference at the University of

Kentucky, Lexington, KY.

- Jackson, C.** (2010, October). *Here to there*. Presentation at the annual meeting of the Kentucky Council of Teachers of Mathematics, Somerset, KY.
- Jackson, C.,** Buchheister, K., & Taylor, C. (2009, December). *Selecting games: Things to consider*. Presentation at the Missouri Council of Teachers of Mathematics, Columbia, MO.
- Jackson, C.,** Taylor, C., & Buchheister, K. (2008, December). *Product Bingo*. Presentation at the Missouri Council of Teachers of Mathematics, Columbia, MO.

INVITED SCHOLARLY PRESENTATIONS:

Regional, National or International

- Taylor, C., Buchheister, K., & **Jackson, C.** (2018, April). *Through the looking glass—Using literature as windows into equity in early mathematics*. Invited Reflection Cove speaker at the annual meeting of the National Council of Teachers of Mathematics, Washington D.C.
- Jackson, C.** (2017, May). *Equity*. Invited speaker for ED 137 Equity and STEM. University of California Santa Barbara.
- Jackson, C.** (2016, May). *What is equity? Ways of seeing*. Invited speaker for ED 137 Equity and STEM. University of California Santa Barbara.
- Jackson, C.,** & Salinas, A. (2013, October). *Secondary preservice teachers' conceptions of equity*. Rethinking mathematics teacher preparation to meet the needs of Latin@ and Native American youth: Integrating mathematics, power, culture, and language. Symposium conducted at the meeting of the Society for Advancement of Hispanics/Chicanos and Native Americans in Science (SACNAS), San Antonio, TX.

State and Local

- Appelgate, M. & **Jackson, C.** (2017, January). *Mathematically-focused texts in kindergarten*. ISU 4U Promise 2nd Annual Mini-Conference. Ames, IA.
- Jackson, C.** (2016, October). ISU 4U Promise Preservice Practica Support Video Series.
https://www.youtube.com/playlist?list=PLka2x1HoGsW_9WsqBDQinF_1CGa2fJMOz
- Jackson, C.** (2016, April). *Preparing prospective mathematics teachers: Seeing mathematics through different eyes*. Iowa State University School of Education Lunch and Learn. Ames, IA.
- Jackson, C.,** & Hamilton, K. (2016, January). *Engaging middle schools students in STEM*. ISU 4U Promise Mini-Conference. Ames, IA.
- Jackson, C.** (2015, November). *What is equity?* State Mathematics Leadership Team. Marshalltown, IA.
- Jackson, C.,** Estapa, A., Tank, K. M., & Appelgate, M. (2015, October). *Supporting girls in math and science*. Women in Science and Engineering: Taking the Road Less Traveled Conference: Ames, Iowa.
- Jackson, C.** (2015, March). *Teaching students who struggle in mathematics*. Iowa State Math Club for Future Teachers. Iowa State University, Ames, IA.
- Jackson, C.** (2014, December). *Using virtual worlds to prepare pre-service teachers to teach math and science in culturally responsive ways*. Iowa State Literacy and STEM Symposium. Iowa State University, Ames, IA.
- Jackson, C.** (2014, August). *Statistics and Probability, Content and Pedagogy, for Secondary Teachers*. Cedar Falls, IA.
- Jackson, C.** (2012, November). *Taking a piece: Strategies to help students understand fractions*. Invited speaker at the Minority Educators Association (MEA)/Kentucky Education Association (KEA) Professional Development, Lexington, KY.
- Jackson, C.** (2012, October). *Diversity in STEM – STEM opportunities for girls of underrepresented groups: Panel member*, Kentucky Girls STEM Collaborative Project, Bowling Green, KY
- Jackson, C.** (2011, November). *Teachers' knowledge of equity in teaching mathematics*. Guest Lecturer in EDC 706: Research in STEM Education, Lexington, KY.
- Jackson, C.** (2011, June). *Applying spatial visualization skills to STEM Education*. Invited speaker at the annual Jessie Clark Middle School STEM Education Camp, Lexington, KY
- Van Garderen, D., Davis, J., & **Jackson, C.** (2010, January). *Dissecting number and operations: Identifying constructs to assess the mathematical understanding of struggling learners*. Workshop presented at Student Council for Exceptional Children Conference, Columbia, MO.
- Jackson, C.** (2009, February). *Diagrams: A tool to solve mathematical word problems*. Poster presented at the Research Meeting of the Center for the Study of Mathematics Curriculum, Phoenix, AZ
- Jackson, C.,** & Buchheister, K. (2008, February). *MARS: Mathematically at-risk students*. Poster presented at the

- Research Meeting of the Center for the Study of Mathematics Curriculum, Phoenix, AZ.
- Pomeranke, S., Webb, M., **Jackson, C.**, Regis, T. P., & Chval, K. (2008, February). *Orientations of mathematics pre-service teachers in alternative certification and traditional programs*. Poster presented at the Research Meeting of the Center for the Study of Mathematics Curriculum, Phoenix, AZ.
- Jackson, C.**, Buchheister, K., Castagno-Dysart, D., Lannin, J., & van Garderen, D. (2008, February). *A trip to MARS (Mathematically at-risk students)*. Workshop presented at the University of Missouri-Columbia Mathematics and Science Colloquium, Columbia, MO.
- Arbaugh, F., Volkmann, M., Abell, S., Pareja, E., Lankford, D., Regis, T., **Jackson, C.**, & Webb, M. (2007, September). *Mathematics and science teachers' prior knowledge of organizing classroom instruction*. Workshop presented at the University of Missouri-Columbia Mathematics and Science Colloquium, Columbia, MO.
- Jackson, C.** (2007, February). *InSite: Integrating science industrial technology and engineering*. Poster presented at the Research Meeting of the Center for the Study of Mathematics Curriculum, Phoenix, AZ.

OTHER SCHOLARLY ACTIVITIES

Ad/Hoc Reviewer

- | | |
|--------------------|---|
| 2016–present | <i>Journal of Teacher Education</i> |
| 2013–present | <i>Mathematics Teacher Educator</i> |
| 2012–present | <i>Current Issues in Education,</i> |
| 2012–present | <i>Mathematics Teaching in the Middle School</i> |
| 2012–present | <i>Teaching Children Mathematics</i> |
| 2011–present | <i>School Science and Mathematics</i> |
| 2011–present | <i>Urban Education</i> |
| 2006, 2012–present | American Educational Research Association (AERA) conference proposals |
| 2015, 2017 | Research Council of Mathematics Learning Proceedings |
| 2015 | International Congress on Mathematics Education (ICME) conference proposals |
| 2015 | <i>Journal of STEM Education</i> |
| 2015 | <i>Mathematics Thinking and Learning</i> |
| 2015 | National Council of Teachers of Mathematics (NCTM) conference proposals |
| 2011, 2015, 2017, | North American Chapter of the International Group for the Psychology of Mathematics |
| 2018 | Education (PME-NA) conference proposals |
| 2015 | <i>Teaching for Excellence in Mathematics Education</i> |
| 2015 | School Science and Mathematics Proceedings |
| 2013, 2014 | National Council on Undergraduate Research Proposals |
| 2013 | <i>Mathematics Teacher</i> |
| 2010 | National Association for Research in Science Teaching (NARST) conference proposals |
| 2006 | Association of Mathematics Teachers Educators (AMTE) conference proposals |

Grant Reviewer

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|------|---|
| 2018 | National Science Foundation Review Panel |
| 2017 | National Science Foundation Review Panel |
| 2017 | Institute of Education Sciences Review Panel |
| 2016 | National Science Foundation CAREER Review Panel |
| 2015 | National Science Foundation DRK12 Review Panel |
| 2012 | National Science Foundation REESE Review Panel |

Book Reviewer

- | | |
|------|---|
| 2016 | <i>Handbook of Teacher Education and Professional Development</i> |
| 2008 | Corwin Press |

Consulting

- | | |
|--------------------------|---|
| 2016 | Minnesota Math Corps (an organization that provides school mathematics tutors support for students in grades 4–8) |
| 1998–2003 &
2007–2009 | Missouri Mathematics Consultant, Missouri Department of Elementary and Secondary Education |

Board of Directors

2018–2021 Association of Mathematics Teacher Educators Board Member at Large
 2016–2019 School Science and Mathematics Association Board Member at Large

Advisory Boards

2012, 2011 Kentucky Department of Education (KDE) Mathematics Content Advisory Committee

Outreach Activities

2017, 2018 STEM InCYte Camp
 2015, 2016 DAVinCI Flight Camp
 2011–present See Blue STEM Camp
 2011–present Family Math Night, Family STEM Night, STEM Day

Doctoral Students Supervised

∠Iowa State University, *Kentucky University

Year Completed	Name	Role	Dissertation Title
In progress	∠Ashley Delaney	Major Professor	TBD
2018	∠Ashley Nashleanas	Major Professor	Graph accessibility and comprehension for the blind: A challenge of its own kind
In progress	∠Hilda Makori	Committee Member	TBD
In progress	∠Ricardo Martinez	Committee Member	TBD
In progress	∠Kari Jurgenson	Committee Member	TBD
In progress	∠Isaiah McGee	Committee Member	TBD
2017	*Thomas Roberts	Committee Member	Classroom influences on third grade African American learners’ mathematics identities
2012	*Kelly Dixon	Committee Member	Social support, socialization, and social cognitive theory: An examination of the graduate teaching assistant

Professional Degree Students Supervised (All at Iowa State University)

Year Completed	Name	Role	Field/Degree
In progress	Teresa Aguilar-Fabian	Major Professor	Secondary Mathematics Education, M.Ed
In progress	Minsook Han	Major Professor	Secondary Mathematics Education, M.Ed
2016	Katharine Thomas	Major Professor	Secondary Mathematics Education, M.Ed
2016	Garrett Patterson	Major Professor	Secondary Mathematics Education, M.Ed
2016	Elizabeth Doebel	Major Professor	Secondary Mathematics Education, M.Ed
2016	Jasmine Stanford	Major Professor	Secondary Mathematics Education, M.Ed
2015	Alexander Thompkins	Major Professor	Secondary Mathematics Education, M.Ed
2015	Rebecca Ehlers	Major Professor	Secondary Mathematics Education, M.Ed
2015	Breanne Maranto	Major Professor	Secondary Mathematics Education, M.Ed
2015	Emily Julin	Major Professor	Secondary Mathematics Education, M.Ed
2015	Debora Masker	Committee Member	Curriculum & Instructional Technology, M.Ed

HONORS AND AWARDS

National/International

2015 PI/Co-PI, National Science Foundation (EPSCoR Track 3), **Utilizing STEM Camps and STEM Clubs to increase interest in STEM fields among females and students of color**

(<http://education.uky.edu/STEM/content/seebluestemcamp>) Grant identified by the National Science Foundation *as one of the top 5 national models for broadening participation in STEM*. Recognized at the 2015 National EPSCoR Conference, Portsmouth, NH.

- 2013 Co-author, Article—Developing representational ability in mathematics for students with learning disabilities: A content analysis of Grades 6 and 7 textbooks **identified as a must read in:** Reed, D. K., Weiser, B. L., Cummings, K. D., & Shapiro, E. (2013). Synthesis of research symposium at CLD’s 34th international conference on learning disabilities: **Must reads for 2012.** *Learning Disability Quarterly*, 36(4), 195-202. doi: 10.1177/0731948713480788
- 2011 STaR Fellow, Service, Teaching, and Research (STaR) in Mathematics Education: Supporting Early Career Professionals

University

- 2006–2010 University of Missouri-Columbia; Gus T. Ridgel Fellowship
 2006–2010 University of Missouri-Columbia; Center for the Study of Mathematics Curriculum (CSMC) Fellow
 2002–2006 Who’s Who Among America’s Teachers
 1995 Presidential Leadership Forum, Washington D.C.
 1995 Outstanding Elementary Student Graduate, Evangel University

MEMBERSHIP IN PROFESSIONAL AND HONOR SOCIETIES:

- American Educational Research Association
 Appalachian Association of Mathematics Teachers Educators
 Association of Mathematics Teachers Educators
 Benjamin Banneker Association
 Iowa Association of Mathematics Teacher Educators
 Iowa Mathematics Leadership Team
 Iowa Success for All Task Team
 Kentucky Council of Teachers of Mathematics
 Kentucky Middle Grades Pre-Service Teacher Preparation (PTP) Collaborative
 Missouri Council of Teachers of Mathematics
 National Association for Multicultural Education
 National Center for Faculty Development & Diversity
 National Council of Teachers of Mathematics
 North American Chapter of the International Group for the Psychology of Mathematics Education
 Research Council on Mathematics Learning
 School Science and Mathematics Association

OFFICES HELD AND COMMITTEE MEMBERSHIPS

- 2018–2020 Program Committee, National Council of Teachers of Mathematics, 2020 Centennial meeting, Chicago, IL
 2017–present Secondary Education Representative, Regents Alternative Pathway Leadership Team
 2013–2016 STaR Program Committee, Association of Mathematics Teacher Educators (AMTE)
 2014–2016 Vice President of Colleges, Kentucky Council for Teachers of Mathematics (KCTM)
 2015–2017 Program Committee, National Council of Teachers of Mathematics, 2017 annual meeting, San Antonio, TX
 2014–2016 Finance Committee, School Science and Mathematics Association
 2014–2015 Program Chair, Research Council on Mathematics Learning, 2015 annual meeting, Las Vegas, NV

UNIVERSITY, COLLEGE, DEPARTMENTAL, AND PUBLIC SERVICE:

University Service at Iowa State University

- 2017 Panelist, ISU Christian Faculty and Staff Forum
 2017 ISU Basketball STEM Day
 2017 Student Evaluation of Teaching Task Force
 2016 Member, Faculty Champions for Graduate Students Gaining Broader Opportunities
 2016 Moderator, Veritas Forum

- 2015 Panelist, Connect Four Student Success Program
- University-level Standing and Ad Hoc Committees at Iowa State University
- 2017–present Faculty Champion, Iowa State University Graduate College
- 2014–present Member, Black Faculty and Staff Association
- 2015–2016 Co-Advisor, Iowa State University Education Association (ISUEA)
- 2015, 2016 Member, 4-H Search Committee for Program Manager I–Educational Opportunities Manager
- 2015 Presenter, Panel on Key Topics for Family Members Orientation
- College of Human Sciences Service at Iowa State University
- 2015–present Member, Education Preparation Coordinating Council
- 2015 Grant Reviewer, College of Human Sciences Innovative Teaching Grant
- 2015 Presenter, Iowa State University Math Club for Future Teachers
- School of Education Service at Iowa State University
- 2018 Third Year Review Committee
- 2018 Secondary Education Major Task Force
- 2017 Recruitment and Retention Task Force
- 2016–present SOE K-12/Secondary Education Program Lead
- 2017 May Teacher Education Cording Ceremony
- 2016 December Teacher Education Cording Ceremony
- 2016 Panelist, School of Education Freshman Learning Community
- 2016 Presenter, ISU 4U Promise Practica Video
- 2015 Presenter, School of Education Professor Panel for Tomorrow’s Teacher’s Learning Community
- School of Education Standing and Ad Hoc Committees at Iowa State University
- 2018–2019 Chair, School of Education Learning Sciences Assistant Professor Search Committee
- 2017–present Panelist, School of Education Faculty for Elementary Education Majors
- 2017–2018 Member, Search Committee, Director School of Education
- 2016–present Panelist, School of Education Faculty for Transfer/Change of Major Students
- 2014–present Member, ISU 4U Promise (formerly King and Moulton Pathways Project)
- 2014–present Member, Education for Social Justice Collective
- 2015–2016 Member, Undergraduate Studies Committee
- 2016 Presenter, School of Education Lunch & Learn
- 2015 Participant, School of Education Ribbon Cutting
- 2014–2015 Member, Center for Excellence in Science, Mathematics and Engineering Education
- 2014, 2015 Member, Search Committee, Associate Director for Educator (Teacher and Administrator) Preparation
- University Service at University of Kentucky
- 2013 Marshall, Undergraduate Commencement Ceremony
- University-level Standing and Ad Hoc Committees at University of Kentucky
- 2012–2014 Member, Underrepresented Girls in STEM
- College of Education Service at University of Kentucky
- 2010–2014 Co-Director, P20 STEM Innovation Lab
- 2011 Judge, STEM Symposium Posters, Second Annual Meeting of STEM Education
- College of Education Standing and Ad Hoc Committees at University of Kentucky
- 2010–2014 Member, Mathematics Education Program Faculty
- 2010–2014 Member, Middle School Teacher Education Program Faculty
- 2010–2014 Supervisor, Elementary and Middle Level Education Practicum Students in Field Placements
- 2012–2014 Member, Task Force on Inclusiveness
- 2012–2014 Co-Advisor, STEM Club

2011–2014 Member, Scholarship Committee
 2011 Chair, Undergraduate Redesign for Middle School Education
 2011 Member, Master Redesign for Middle School Education

Departmental of STEM Education Service at University of Kentucky

2011–2014 Interviewer, Masters with Initial Certification (MIC)
 2013 Scorer, Masters with Initial Certification (MIC)
 2010–2014 Mentor to African American Females in the College of Education

Public Service

2018 Iowa Space Grant 2018-2019 Preservice Scholarship Reviewer
 2017–present Mentor, Cathrine Maiorca California State University Long Beach College of Education
 2017–present Director, STEM InCYte Camp
 2016–present Member, Des Moines Public School District Mathematics Leadership Team
 2015–present Member, Iowa Governor’s STEM Advisory Council on STEM Equity and Access
 2014–present Member, Iowa Mathematics Leadership Team
 2000–2014 Tutor, Mathematics
 2015, 2016 Co-Director, DAVinCI Camp
 2015 Expert Member, Hoover High School Goal–setting Day
 2014 Meal Server, Children and Family Urban Movement (CFUM)
 2012–2014 Member, AdvancED/Diagnostic Review Team
 2012 Member, Kentucky Department of Education Reading/Math Standard Setting & on Demand
 Writing Standard Setting: Math Grades 7, 8
 2006–2009 Member, Learning, Teaching, and Curriculum Graduate Student Association
 2006–2008 Synthesis Project Evaluator, Elementary, Middle, and Secondary Mathematics Education
 Synthesis Projects
 2003–2006 Missouri Mathematics Assessment Program Item Writer, Missouri Department of Elementary and
 Secondary Education
 2003–2006 Missouri Assessment Program Scorer, Missouri Department of Elementary and Secondary
 Education
 2003–2005 Director, Summer Youth Program
 2006 Mathematics Coordinator, Michael Center After School Program