

## Kate R. Johnson, Ph.D.

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Department of Mathematics Education  
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### ACADEMIC POSITIONS

Assistant Professor, Brigham Young University

Fall 2013 –  
present

### EDUCATION

- Michigan State University, College of Education, East Lansing, MI. 2013  
Ph.D. Curriculum, Instruction, and Teacher Education.  
Areas of Specialty: Mathematics Education, Teaching and Teacher Education  
*Dissertation: Illuminating the Identities of Mathematics Teachers and Mathematics Teacher Educators. Directed by Beth Herbel-Eisenmann and Tonya Bartell.*
- University of Pittsburgh, School of Education, Pittsburgh, PA. 2004  
Master of Education. Education of Students Who Are Deaf and Hard of Hearing.
- Miami University, Oxford, Ohio. 2002  
Bachelor of Science. Mathematics.

### PUBLICATIONS

#### Refereed

#### *Articles in Research Journals*

- Johnson, K. R.** (2016). Enduring positions: Religious identity in discussions about critical mathematics education. *Religion and Education*, 43(2), 230-245. doi: 10.1080/15507394.2016.1147916
- Herbel-Eisenmann, B. A., **Johnson, K. R.**, Otten, S., Cirillo, M., & Steele, M. D. (2015). Mapping talk about the mathematics register in a secondary mathematics teacher study group. *Journal of Mathematical Behavior*, 40, 29-42. doi: 10.1016/j.jmathb.2014.09.003
- Steele, M. D., **Johnson, K. R.**, Otten, S., Herbel-Eisenmann, B. A., & Carver, C. L. (2015). Improving instructional leadership through the development of leadership content knowledge: The case of principal learning in algebra. *Journal of Research on Leadership Education*, 10(2), 127-150. doi: 10.1177/1942775115569353
- Herbel-Eisenmann, B. A., Wagner, D., **Johnson, K. R.**, Suh, H. & Figueras, H. (2015). Positioning in mathematics education: Revelations on an imported theory. *Educational Studies in Mathematics*, 89(2), 185-204. doi: 10.1007/s10649-014-9588-5

Bartell, T. G., & **Johnson, K. R.** (2013). Making unseen privilege visible in mathematics education research. *Journal of Urban Mathematics Education*, 6(1), 35-44.

### ***Peer-reviewed Chapters in Edited Books***

**Johnson, K. R.** (2016). Reconceptualizing “activism”: Developing a socially conscious practice with prospective White mathematics teachers. In N. M. Joseph, C. M. Haynes, & F. Cobb (Eds.), *Interrogating Whiteness and Relinquishing Power: White Faculty’s Commitment to Racial Consciousness in STEM Classrooms* (pp. 171-187). New York, NY: Peter Lang Publishing.

### ***Articles in Peer-Reviewed Conference Proceeding Publications***

Herbel-Eisenmann, B. A., **Johnson, K. R.**, Otten, S., & Cirillo, M. (2013, November). Secondary teachers’ expanding understanding of the mathematics register. In A. C. Superfine & M. Martinez (Eds.), *Proceedings of the 35th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 613-620). Chicago, IL: University of Illinois at Chicago.

**Johnson, K. R.**, Steele, M. D., Herbel-Eisenmann, B. A., Leatham, K. R., Peterson, B. E., Stockero, S. L., et al. (2013, November). Classroom mathematics discourse: Broadening perspectives by integrating tools for analysis. In A. C. Superfine & M. Martinez (Eds.), *Proceedings of the 35th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. Chicago, IL: University of Illinois at Chicago.

### **Professional Development Curriculum**

Herbel-Eisenmann, B., Cirillo, M., Steele, M. D., Otten, S., & **Johnson, K. R.** (in press). Mathematics discourse in secondary classrooms: A case-based professional development curriculum.

### **Invited Reviews**

Leatham, K. R., **Johnson, K. R.**, & Jones, S. R. (2015). An introduction to research in mathematics education (book review). *Journal for Research in Mathematics Education*, 46(4), 497-504.

### **Under Review & In Preparation**

**Johnson, K. R.** (under review). Preparing to teach for social justice: Discourse of a White, middle-class teacher.

## **PRESENTATIONS**

### **Refereed**

#### ***International & National Presentations***

Joseph, N. R., **Johnson, K. R.**, & Spencer, J. (2016, January). *Exploring racial consciousness and faculty behavior in STEM classrooms*. Presentation at the annual meeting of the Association of Mathematics Teacher Educators, Irvine, CA.

**Johnson, K. R.**, & Belliston, A. (2016, January). *Facing resistance in the preparation of critical*

- mathematics teachers*. Presentation at the annual meeting of the Association of Mathematics Teacher Educators, Irvine, CA.
- Bartell, T. G., Perry, A., Wilson, J., & **Johnson, K. R.** (2015, April). *Centering voices of marginalized researchers in mathematics education*. Presentation at the annual meeting of the National Council of Teachers of Mathematics—Research Conference, Boston, MA.
- Otten, S., Herbel-Eisenmann, B., & **Johnson, K. R.** (2014, April). *Using tools from discourse analysis to understand change in a teacher study group*. Presentation at the annual meeting of the American Educational Research Association, Philadelphia, PA.
- Bartell, T. G., & **Johnson, K. R.** (2014, February). *Unpacking privilege in mathematics education research: Implications for mathematics teacher educators*. Presentation at the annual meeting of the Association of Mathematics Teacher Educators, Irvine, CA.
- Herbel-Eisenmann, B., Cirillo, M., Steele, M. D., **Johnson, K. R.**, & Cavanna, J. (2014, February). *Facing the multiplicity of selves as designers, researchers, and teacher educators focused on classroom discourse*. Presentation at the annual meeting of the Association of Mathematics Teacher Educators, Irvine, CA.
- Herbel-Eisenmann, B. A., **Johnson, K. R.**, Otten, S., & Cirillo, M. (2013, November). Secondary teachers' expanding understanding of the mathematics register. Paper submitted to *35th Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education*. Chicago, Illinois.
- Johnson, K. R.**, Steele, M. D., Herbel-Eisenmann, B. A., Leatham, K. R., Peterson, B. E., Stockero, S. L., et al. (2013, November). Classroom mathematics discourse: Broadening perspectives by integrating tools for analysis. Working group submitted to *35th Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education*. Chicago, Illinois.
- González, G., Herbel-Eisenmann, B., DeJarnette, A., Gerardo, J., Gutiérrez, R., **Johnson, K. R.**, Lande, E., Mesa, V., Otten, S., Pimm, D. (2013, April). *Mathematics education research using Systemic Functional Linguistics*. Symposium at the research pre-session of the annual meeting of the National Council of Teachers of Mathematics, Denver, CO.
- Herbel-Eisenmann, B., Steele, M., Otten, S., & **Johnson, K. R.** (2013, April). *Mathematics discourse in secondary classrooms: Productive teacher moves and empowered students*. Presentation at the annual meeting of the National Council of Supervisors of Mathematics, Denver, CO.
- Herbel-Eisenmann, B., **Johnson, K. R.**, Cirillo, M., & Suh, H. (2013, January). *Elaborating how tasks shape classroom discourse*. Presentation at the annual meeting of the Association of Mathematics Teacher Educators, Orlando, FL.
- Johnson, K. R.**, Otten, S., Herbel-Eisenmann, B. A., Cirillo, M., & Steele, M. D. (2012, February). *Teacher discourse moves in context*. Preconference presentation at the annual meeting of the Association of Mathematics Teacher Educators, Fort Worth, TX.
- Johnson, K. R.** (2011, April). *I believe, I am: Teacher beliefs as an expression of teacher identity*. Paper presented at the annual meeting of American Education Research Association, New Orleans, LA.
- Steele, M. D., **Johnson, K. R.**, Herbel-Eisenmann, B., & Carver, C. (2010, October). *Leadership content*

*knowledge: A case of principal learning in algebra.* Poster presented at the annual meeting of North American Chapter of the International Group for the Psychology of Mathematics Education, Columbus, OH.

**Johnson, K. R.** (2010, May). *Deaf, not silent: Deaf culture and culturally relevant teaching.* Paper presented at the annual meeting of American Education Research Association, Denver, CO.

**Johnson, K. R.** (2009, July). *Creating an experience-based mathematics classroom.* Presentation at the Council of the American Instructors of the Deaf, Washington, DC.

### ***Regional & State Presentations***

**Johnson, K. R.,** Theakston, A., Otten, S., Steele, M. D., Cirillo, M., & Herbel-Eisenmann, B. A. (2011, August). *Facilitating lesson planning with new teachers.* Presentation at the annual meeting of the Michigan Council of Teachers of Mathematics, Macomb, MI.

Otten, S., Theakston, A., **Johnson, K. R.,** Herbel-Eisenmann, B. A., Cirillo, M., & Steele, M. D. (2011, August). *Comparing area and perimeter: What do students have to say?* Presentation at the annual meeting of the Michigan Council of Teachers of Mathematics, Macomb, MI.

Muirhead, F., **Johnson, K. R.,** Theakston, A., Herbel-Eisenmann, B., Cirillo, M., & Steele, M. (2011, February). *How might classroom discourse position secondary students as learners of mathematics?* Presentation given at the Math in Action conference of Grand Valley State University, Allendale, MI.

Otten, S., Bosman, H. M., **Johnson, K. R.,** & Males, L. M. (2010, August). *Using math talk moves to promote rich mathematical discussions.* Presentation at the annual meeting of the Michigan Council of Teachers of Mathematics, Macomb, MI.

### **Invited**

**Johnson, K. R.** (2015, February). *How do mathematics, discourse, and culture intersect?* Presentation to Discipline Specific Literacy Course (Professor: A. Case) at Gonzaga University, Spokane, WA.

**Johnson, K. R.** (2014, November). *Teaching mathematics for social justice.* Presentation to Algebra Teaching Course (Instructor: A. Brakoniec) at Boston University, Boston, MA.

Herbel-Eisenmann, B. A., Steele, M. D., **Johnson, K. R.,** & Theakston Musselman, A. (2012, August). *Powerful and productive classroom discourse.* Michigan Council of Teachers of Mathematics, Preconference Workshops, Traverse City, MI.

**Johnson, K. R.** (2012, May). *Paulo Freire meets mathematics: Using mathematics as a tool to read and write the world.* Presentation, Office of Diversity and Pluralism in the College of Agriculture and Natural Resources, Michigan State University, East Lansing, MI.

## **RESEARCH AND DEVELOPMENT ACTIVITIES**

### **Principal Investigator**

*Researcher Positionality in Mathematics Education Research*

Investigated positionality statements in mathematics education research. Anticipated dissemination of findings.

Graduate student supervised: Ashley Hulet (Summer 2015)

**Principal Investigator**

*Prospective Teacher Learning about Critical Pedagogy in the Context of a Book Club Assignment.*

Developed and implemented a Book Club assignment in a secondary mathematics methods course. Studied the identities of the prospective teachers as well as the influence of the assignment on prospective teacher understanding of critical pedagogy. Anticipated dissemination of findings.

Summer  
2014-present

**Principal Investigator**

*Illuminating Identities and Understanding Perspectives of Equity.* Co-Investigator: Daniel Siebert.

Participated in development and implementation of a graduate course on race and gender in mathematics education research. Studied the influence of identities of participants on discussions as well as the evolution of understandings of equity issues in mathematics education research. Anticipated dissemination of findings.

Undergraduate student supervised: Yaeri Lim (Summer 2014)

Winter 2014-  
present

**Graduate Assistant**

*Mathematics Discourse in Secondary Classrooms: A Case-Based Professional Development Curriculum.* Principal Investigators: Beth Herbel-Eisenmann, Michael Steele, Michelle Cirillo.

Funded by National Science Foundation.

Participated in the design and implementation of a case-based professional development curriculum about promoting productive and powerful discourse in secondary mathematics classrooms. Studied the impact of the curriculum and disseminate findings.

Fall 2010-  
Summer  
2013

**Graduate Assistant**

*Building Math Readiness: Parent as Partners (MR:PP).* Principal Investigators: Claudia Pagliaro, Karen Kritzer.

Funded by the U.S. Department of Education, Institute of Educational Sciences.

Assisted in preparing materials for use in educating parents. Conducted fidelity checks on sessions with parents. Coded data in preparation for dissemination of findings.

Summer  
2010

**Graduate Assistant**

*The PILI Project: Pacific Island Learning Initiative in Deaf Education.* Supervisors: Claudia Pagliaro, Harold Johnson.

Assisted in administrative tasks, such as preparing materials for use in teaching courses, maintaining paperwork about the budget and admissions, preparing fellowship paperwork, and responding to inquiries about the project.

Summer  
2009

**Graduate Assistant**

*Building Capacity for Algebra Teaching, Learning, and Leadership.* Principal Investigators: Cynthia Carver, Michael Steele, Beth Herbel-Eisenmann.

Funded by the Michigan Department of Education.

Participated in the implementation of professional development with principals and teacher leaders to facilitate algebra reform initiatives. Studied the impact of the study group professional development on principals' understanding of content knowledge, pedagogical content knowledge, and leadership content knowledge and disseminated findings.

Spring 2009-  
Summer  
2010

**Research Practicum** (Directed by Michael Steele)

Spring 2011-

Understanding Teacher Identity as Expressed through Beliefs about Teaching, Mathematics, and Students. Paper presented to AERA, 2011. Spring 2012

## TEACHING

**Assistant Professor**, Brigham Young University 2013-present

Department of Mathematics Education

MTHED 377: *Mathematics Teaching in Public Schools*.

- 4 semesters: FS13, WS14, FS14, WS15

MTHED 378: *Practicum in Mathematics Education*.

- 4 semesters: FS13, WS14, FS14, WS15

MTHED 590: *Foundational Issues in Learning Mathematics*.

- 2 semesters: FS14, FS15

MTHED 591: *Scholarly Inquiry in Mathematics Education*.

- 1 semester: WS16

MTHED 598R: *Special Topics: Equity and Identity in Mathematics Education*.

- 1 semester: FS16

*Supervision of Student Teachers*.

- 3 semesters: WS15, WS16, FS16

**Teaching Assistant**, Michigan State University 2008-2012

Department of Teacher Education

TE 401: *Teaching Subject Matter to Diverse Learners (Elementary Mathematics)*. (1 semester)

TE 402: *Teaching Subject Matter to Diverse Learners (Elementary Mathematics)*. (1 semester)

TE 801: *Professional Roles and Teaching Practice I (Elementary Mathematics)*. (1 semester)

TE 407: *Teaching Subject Matter to Diverse Learners for Secondary Mathematics*. (1 semester)

TE 408: *Crafting Teaching Practice for Secondary Mathematics*. (1 semester)

TE 407/408: *Microteaching experiences*. (1 year)

TE 802: *Reflection & Inquiry in Teaching Practice I (Secondary Mathematics)*. (2 semesters)

TE 804: *Reflection & Inquiry in Teaching Practice II (Secondary Mathematics)*. (2 semesters)

*Field Instructor for Secondary Mathematics*. University Supervision of Interns. (2 years)

**High School Mathematics Teacher** 2004-2008

*Virginia School for the Deaf and the Blind, Deaf Department*

Established pacing guides for, planned and prepared for, and taught high school math courses (personal finance, computer technology, pre-algebra, algebra one, geometry, algebra two).

Maintained and updated annually Individualized Educational Plans for six students per year.

Developed math Present Levels of Performance for at least 20 students per year. Supported teachers in the implementation of a new curriculum in grades PK through 8th. Differentiated instruction for the inclusion of deaf and hard of hearing students with learning disabilities, ADHD, other health impairments, mental retardation, emotional disabilities, primary language disorders, and specific language impairments.

## SELECTED HONORS/AWARDS

Service, Teaching, and Research (STaR) Fellow, 2014. Selected as 1 of 30 participants from 50 applicants for an induction program in mathematics education. Sponsored by the Association of Mathematics Teacher Educators (AMTE).

Dissertation Completion Fellowship (\$6000), Michigan State University, Spring 2013.

Dean's Scholar Fellowship (full tuition and \$8000/year), Michigan State University College of Education, Fall 2008-Spring 2012.

Assistantship under the program, "Strengthening Content Area Preparation at the Secondary Level for Future Teachers of Deaf and Hard-of-Hearing Students," funded by the U. S. Department of Education, Office of Special Education Programs, Fall 2002-Spring 2004.

### SERVICE AND ACADEMIC PROFESSIONAL ACTIVITY

MERG/ORCA Reviewer	Fall 2016-present
Department Coordinator, Student Research Conference	Fall 2016-present
Member, Advisory Board National Science Foundation funded project: Facilitating Knowledge Building in Complex Problem Solving Teams with Deaf/Hard of Hearing and Hearing College Students, PI: Mike Stinson, Rochester Institute of Technology	Fall 2015— present
Chair, Website, Communications, and Marketing Sub-committee Member, Local Organizing Committee for 2015 Conference North American Chapter of the International Group for Psychology of Mathematics Education Conference, East Lansing, Michigan, 2015	Winter 2014-Fall 2015
Member, Program Committee Chair: Steven Williams, other members: Bob Wadley Department of Mathematics Education, Brigham Young University	Fall 2014-present
Secretary Utah Association of Mathematics Teacher Educators	Winter 2014- Winter 2016
Reviewer, Journal <i>Mathematics Teacher Educator</i> <i>Journal for Research in Mathematics Education</i> <i>Journal of Research on Leadership Education</i> <i>Journal of Teacher Education</i>	2014-present
Invited Facilitator, Lunch Discussion Table The Job Search Process: Preparing for Job Talks Annual Meeting of Association of Mathematics Teacher Educators, Irvine, CA	February 2014
Member, Graduate Committee Chair: Doug Corey, other members: Steven Jones Department of Mathematics Education, Brigham Young University	Fall 2013- Summer 2014
Coordinator, Departmental Weekly Writing Meeting Department of Mathematics Education, Brigham Young University	Fall 2013- Summer 2016
Member, CPAS Revision Committee Worked with Bob Wadley, Scott Hendrickson, Dawn Teuscher, and Dawn Barson	Fall 2013

to revise the CPAS sub-indicators  
Department of Mathematics Education, Brigham Young University

Member, Research Practicum Committee  
Jillian Cavanna (Program in Mathematics Education)  
Michigan State University

Fall 2012-  
Summer 2013

Reviewer, Annual Conference  
American Educational Research Association  
Psychology of Mathematics Education (North America)  
Association of Mathematics Teacher Educators

2012-present

Member, Committee  
Graduate Student Selection Committee  
Department of Teacher Education, Michigan State University

Fall 2010

Member, Committee  
Teacher Education Department Faculty Advisory Coordinating Committee  
Department of Teacher Education, Michigan State University

Fall 2010 -  
Spring 2011

### **Graduate Student Advising**

#### **Advisor**

- Carol Wise (completed: Fall 2015)
- Kathleen Smith (withdrew from program: Spring 2016)
- Natascha Faux (expected completion: Summer 2017)
- Dawn Barson (expected completion: Winter 2017)

#### **Thesis Committee Member**

- Ashley Hulet (completed: Summer 2015)
- Rachel Gunn (expected completion: Summer 2016)
- Joelle Keliiliki (expected completion: Summer 2017)

#### **Mentored Research**

- Kailie Dean, graduate student (Fall 2013)
- Yaeri Lim, undergraduate student (Summer 2014)
- Ashley Hulet, graduate student (Summer 2015)
- Austin Spreng, undergraduate student (Winter 2016 to present)

#### **Other Mentored Experiences**

- Provided feedback on job application materials including cover letters, teaching philosophy statements, and research statements. Discussed job application process including preparing for phone and on-campus interviews and the research presentation.
  - Lindsay Keazer, post-doctoral student, Michigan State University (Fall 2014)
  - Alexandria Theakston Musselman, doctoral student, Michigan State University (Fall 2014)
  - Eryn Stehr, doctoral student, Michigan State University (Fall 2015)
  - Jillian Cavanna, doctoral student, Michigan State University (Fall 2015)
  - Frances Harper, doctoral student, Michigan State University (Fall 2016)
- Read drafts of dissertation and gave feedback. Provided feedback on job application materials including cover letters, teaching philosophy statements, and research statements. Discussed job application process including preparing for phone and on-campus interviews and the research presentation.
  - Faith Muirhead, doctoral student, Michigan State University (Fall 2013-Fall 2015)



- Sarah Roller, doctoral student, Michigan State University (Fall 2014-Summer 2015)
- Austin Unsicker, undergraduate student (Summer 2015). Met with him regularly (4 times) to discuss assigned articles in the field of mathematics education research.

### **PROFESSIONAL AFFILIATIONS**

Association of Mathematics Teacher Educators, member 2011-present.

American Educational Research Association, member 2009-present.

National Council of Teachers of Mathematics, member 2008-present.