

## Kate R. Johnson, Ph.D.

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Department of Mathematics Education  
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### ACADEMIC POSITIONS

Associate Professor, Brigham Young University	Fall 2019 – present
Assistant Professor, Brigham Young University	Fall 2013 – Summer 2019

### EDUCATION

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

### 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.** (2020). Eternal graffiti: Using poetry to develop social justice educators. In C. K. Clausen & S. R. Logan (Eds.), *Integrating Social Justice Education in Teacher Preparation Programs* (pp. 245-275). Hershey, PA: IGI Global Publishing. doi: 10.4018/978-1-7998-5098-4.ch012

**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.** (2017). *Mathematics discourse in secondary classrooms: A practice-based resource for professional learning*. Sausalito, CA: Math Solutions.

### **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.

## **PRESENTATIONS**

### **Refereed**

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

**Johnson, K. R.**, Holdaway, E., & Ross, A. S. (2020, October). “*We Are All Children of God*”: White Christian Teachers Discussing Racism. Presentation at the annual meeting of the Mormon Social

Science Association (MSSA)/Society for the Scientific Study of Religion and the Religious Research Association (SSSR), Pittsburgh, PA (conference canceled).

- Johnson, K. R.** (2019, February). *Engaging social justice conversations in limited time*. Presentation at the annual meeting of the Association of Mathematics Teacher Educators, Orlando, FL (session canceled).
- Johnson, K. R.,** & Belliston, A. C. (2017, April). *Illuminating teacher educator identities: A heuristic*. Presentation at the annual meeting of the American Educational Research Association, San Antonio, TX.
- 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. C. (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.** (2018, September). Teaching mathematics for social justice: Pedagogy and research. Presentation, part of the Chocolate Milk Discussion series for the University Honors Program. Brigham Young University, Provo, UT.
- Johnson, K. R.** (2016, September). *Pedagogy of the heart*. Presentation, part of the Power of Teaching

Lecture Series in the McKay School of Education, Brigham Young University, Provo, UT.

**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. Brakoniecki) 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 GRANTS

#### NSF CAREER, July 2017

*CAREER: Seeking Equitable Education: Developing Prospective Mathematics Teachers' Identities as Advocates*

Submitted to DUE-IUSE: Exploration and Design: Engaged Student Learning

\$576,589  
Not funded

### TEACHING

**Associate Professor**, Brigham Young University

Department of Mathematics Education

MTHED 276: *Exploration of Mathematics Teaching.*

- 3 semesters: WS20, FS20, WS21

MTHED 305: *Basic Concepts of Mathematics.*

- 2 semesters: FS19, FS20

MTHED 377: *Mathematics Teaching in Public Schools.*

- 1 semester: WS20

MTHED 378: *Practicum in Mathematics Education.*

- 1 semester: WS20

MTHED 590: *Foundational Issues in Learning Mathematics.*

- 1 semester: FS19

MTHED 591: *Scholarly Inquiry in Mathematics Education.*

- 1 semesters: WS21

2019-present

**Assistant Professor**, Brigham Young University

Department of Mathematics Education

MTHED 276: *Exploration of Mathematics Teaching.*

- 2 semesters: FS17, WS18

MTHED 305: *Basic Concepts of Mathematics.*

- 3 semesters: WS17, FS17, FS18

MTHED 377: *Mathematics Teaching in Public Schools.*

- 7 semesters: FS13, WS14, FS14, FS18, WS15, WS18, WS19

2013-2019

MTHED 378: *Practicum in Mathematics Education*.

- 7 semesters: FS13, WS14, FS14, FS18, WS15, WS18, WS19

MTHED 590: *Foundational Issues in Learning Mathematics*.

- 2 semesters: FS14, FS15

MTHED 591: *Scholarly Inquiry in Mathematics Education*.

- 2 semesters: WS16, WS17

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

- 2 semesters: FS16, WS19

*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

Recipient of 2016 JRLE Best Article Award from the University Council for Educational Administration. Awarded for the article: 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

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

Graduate Coordinator Chair, Graduate Committee; other members: Steven Jones, Dawn Teuscher Department of Mathematics Education, Brigham Young University	Fall 2020 – present
Department Coordinator, Student Research Conference Representative to the College of Physical and Mathematical Sciences SRC Committee, Brigham Young University	Fall 2016-present
Member, College Curriculum Committee Chair: Jennifer Nielson College of Physical and Mathematical Sciences, Brigham Young University	Winter 2020- Summer 2020
STaR Program Writing Mentor Invited by Marta Civil Description: STaR is a program for early career mathematics educators held yearly and run by more senior scholars in the field. It is held in Park City, UT. As such, some BYU faculty are invited to facilitate small group discussions about manuscripts submitted by early career participants to supplement the senior scholar team and keep writing groups small enough for productive individualized discussions. STaR is funded by the Association of Mathematics Teacher Educators	Summer 2020
Member, Graduate Committee Chair: Daniel Siebert, other members: Steven Jones Department of Mathematics Education, Brigham Young University	Fall 2019- Summer 2020
MERG/ORCA Reviewer College of Physical and Mathematical Sciences, Brigham Young University	Fall 2016- Summer 2020
Chair, Department Equity Committee Other members: Amy Tanner, Daniel Siebert, Steven Williams Department of Mathematics Education, Brigham Young University	Winter 2016- Winter 2018
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- Summer 2018
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: Scott Hendrickson, other members: Doug Corey, Amy Tanner Previous Chairs: Dawn Teuscher, Steven Williams, other members: Bob Wadley	Fall 2014- Summer 2019

Department of Mathematics Education, Brigham Young University

Secretary  
Utah Association of Mathematics Teacher Educators Winter 2014-  
Winter 2016

Reviewer, Journal 2014-present  
*Mathematics Teacher Educator*  
*Journal for Research in Mathematics Education*  
*Journal of Research on Leadership Education*  
*Journal of Teacher Education*  
*Educational Studies in Mathematics*  
*Journal of Mathematics Teacher Education*  
*Anthropology and Education Quarterly*

Invited Facilitator, Lunch Discussion Table February 2014  
The Job Search Process: Preparing for Job Talks  
Annual Meeting of Association of Mathematics Teacher Educators, Irvine, CA

Member, Graduate Committee Fall 2013-  
Chair: Doug Corey, other members: Steven Jones Summer 2014  
Department of Mathematics Education, Brigham Young University

Coordinator, Departmental Weekly Writing Meeting Fall 2013-  
Department of Mathematics Education, Brigham Young University Summer 2016

Member, Research Practicum Committee Fall 2012-  
Jillian Cavanna (Program in Mathematics Education) Summer 2013  
Michigan State University

Reviewer, Annual Conference 2012-present  
American Educational Research Association  
Psychology of Mathematics Education (North America)  
Association of Mathematics Teacher Educators

Member, Committee Fall 2010  
Graduate Student Selection Committee  
Department of Teacher Education, Michigan State University

Member, Committee Fall 2010 -  
Teacher Education Department Faculty Advisory Coordinating Committee Spring 2011  
Department of Teacher Education, Michigan State University

## Graduate Student Advising

### Advisor

- Carol Wise (completed: Fall 2015)
- Kathleen Smith (withdrew from program: Spring 2016)
- Natascha Faux Lauzon (withdrew from program: Winter 2017)
- Dawn Barson (completed: Winter 2018)
- Cassie McBride Job (completed: Fall 2018)
- Amy Ross (completed: Summer 2019)
- Emma Holdaway (completed: Spring 2020)



- Emily Adams (expected completion: Spring 2021)
- Navy Dixon (expected completion: Winter 2022)

**Thesis Committee Member**

- Ashley Hulet (completed: Summer 2015)
- Rachel Gunn (completed: Summer 2017)
- Joelle Keliiliki (completed: Summer 2017)
- Joe Wytiaz (completed: Summer 2019)
- Linlea West (completed: Summer 2020)
- Katelyn Pfyer (expected completion: Summer 2021)
- Brittany Hopper (expected completion: Winter 2021)
- Lauren Rigby (expected completion: Winter 2022)
- Kamalani Kaluhiokalani (expected completion: Winter 2022)
- Rachel Hansen (expected completion: Winter 2022)

**Doctoral Dissertation Committee Member**

- Alisa Belliston, University of Wisconsin-Madison (completed: August 2017)

**Undergraduate and Graduate 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 Fall 2016)
- Amy Ross, graduate student (Spring/Summer 2018)
- Emma Holdaway, graduate student (Spring/Summer 2019)

**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.