

## **Elizabeth Kersey**

Post Doctoral Research Associate  
Math and Science Teaching (MAST) Institute  
University of Northern Colorado

### **1. CONTACT INFORMATION**

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Campus Box 123

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(970) 351-3019

### **2. EDUCATION**

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**PhD in Mathematics Education** – August 2018

Purdue University, West Lafayette, IN

Dissertation Chair: Rachael Kenney

**Master of Science in Mathematics** – August 2013

Purdue University, West Lafayette, IN

**Bachelor of Science in Mathematics, Minor in Theatre Arts** – May 2010

University of Puget Sound, Tacoma, WA –*Summa Cum Laude, Honors in Mathematics*

### **3. RESEARCH INTERESTS**

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Gender in STEM education, particularly transgender issues; feminism, queer theory, and other critical perspectives; equity; equity in mathematics curricula; philosophy and history of mathematics; sociological perspectives on mathematics and mathematics education

### **4. AWARDS**

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Bilsland Dissertation Fellowship – Spring 2018

Mike Keedy Scholarship in Mathematics Education – 2016-7 academic year

Honorable Mention, Annual Graduate Student Educational Research Symposium (AGSERS) – March 3, 2015

Outstanding Assisted Living Volunteer Award, Westminster Village – April 24, 2014

## 5. PUBLICATIONS

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Mintos, A., Hoffman, A., Kersey, E., Newton, J., & Smith, D. (2018). Learning about issues of equity in secondary mathematics teacher education programs. *Journal of Mathematics Teacher Education*. [https://link.springer.com/epdf/10.1007/s10857-018-9398-2?author\\_access\\_token=zk4j\\_7ZHngGVv-S1ILhPz\\_e4RwlQNchNByi7wbcMAY7G9hGZCgjj03pw7\\_rKxt-anM1h1Uj7Vy3VeZoR8mliZwGuuy-WS3WoLwsJ88OR1fQ\\_nIa-2oy\\_ioXGS3ZRFEDBhFnj4ecNsuI9cuwL-t9rg%3D%3D](https://link.springer.com/epdf/10.1007/s10857-018-9398-2?author_access_token=zk4j_7ZHngGVv-S1ILhPz_e4RwlQNchNByi7wbcMAY7G9hGZCgjj03pw7_rKxt-anM1h1Uj7Vy3VeZoR8mliZwGuuy-WS3WoLwsJ88OR1fQ_nIa-2oy_ioXGS3ZRFEDBhFnj4ecNsuI9cuwL-t9rg%3D%3D)

Kersey, E. (2017). Discourse analysis of South African openly licensed mathematics textbooks. In E. Galindo & J. Newton (Eds.), *Proceedings of the 39<sup>th</sup> annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 160-163). Indianapolis, IN: Hoosier Association of Mathematics Teachers Educators.

Kersey, E. (2017). Feminist and queer perspectives on mathematics and its teaching and learning. *HAMTE Crossroads*, 7(1). 5-10.

Kersey, E. (2016). Learning from transgender individuals in STEM education. In M. B. Wood, E. E. Turner, M. Civil, & J. A. Eli (Eds.), *Proceedings of the 38<sup>th</sup> annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 1103-1106). Tucson, AZ: The University of Arizona.

Kersey, E., Max, B., Akarsu, M., Bloome, L., Suazo, E., & Hoffman, A. (2015). Use of written curriculum in applied calculus. In T. G. Bartell, K. N. Bieda, R. T. Putnam, K. Bradfield, & H. Dominguez (Eds.), *Proceedings of the 37<sup>th</sup> annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 112-115). East Lansing, MI: Michigan State University.

## 6. PRESENTATIONS

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Note: Excludes those listed in proceedings above

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- Kersey, E. (2018). Conducting Narrative Inquiry with Transgender Participants. In panel discussion *Implementing narrative inquiry studies in mathematics education: Tensions, challenges, and joys*, at the Congress of Qualitative Inquiry, Urbana-Champaign, IL.
- Kersey, E. (2018). Refracting gender: Transgender students in postsecondary STEM education. Presented at the Annual Graduate Student Educational Research Symposium, West Lafayette, IN.
- Kersey, E. (2018). Refracting gender: Being transgender in STEM fields. Presented at Indiana Mathematics Education Research Symposium, Indianapolis, IN.
- Kersey, E. (2017). Transgender students' experiences in postsecondary STEM education. Presented at the School Science and Mathematics Association Convention, Lexington, KY.
- Kersey, E. (2017). Queer perspectives on math and science education. Panel discussion at the School Science and Mathematics Association Convention, Lexington, KY.
- Kersey, E. (2017). Feminist and queer perspectives on mathematics and its teaching and learning. Panel discussion at Indiana Mathematics Education Research Symposium, Indianapolis, IN.
- Kersey, E. (2016). Learning from transgender individuals in STEM education. Presented at Indiana Mathematics Education Research Symposium, Indianapolis, IN.
- Kersey, E. (2016). Learning from transgender individuals in STEM education. Presented at the Annual Graduate Student Educational Research Symposium, West Lafayette, IN.
- Hoffman, A. J., He, J., Mintos, A. S., Newton, J. A., Kersey, E., Beckley, J., & Maeda, Y. (2015). Learn to teach algebra: Opportunities in secondary teacher education. Presented at American Education Research Association Annual Meeting, Chicago, IL.
- Kersey, E., Max, B., Akarsu, M., Bloome, L., Suazo, E., & Hoffman, A. (2015). Use of written curriculum in applied calculus. Presented at Indiana Mathematics Education Research Symposium, Indianapolis, IN.

Kersey, E. (2015). Analysis of a South African openly-licensed mathematics textbook and its evolution. Presented at the Annual Graduate Student Educational Research Symposium, West Lafayette, IN.

Kersey, E. (2014). *Sociomathematical norms and engagement in small-group interactions*. Presented at the Indiana Mathematics Education Research Symposium, Indianapolis, IN.

Kersey, E. (2014). *Sociomathematical norms and engagement in small-group interactions*. Poster presented at the Annual Graduate Student Educational Research Symposium, Lafayette, IN.

## 7. PROFESSIONAL EXPERIENCE

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**Post Doctoral Research Associate**, University of Northern Colorado, MAST Institute, College of Natural and Health Sciences, 2018 – present

Conduct independent research; collaborate on research projects with faculty; contribute to HHMI Inclusive Excellence program; teach mathematics content courses for preservice elementary teachers

**E-Portfolio Coordinator**, Purdue University, Education IT, College of Education, 2014 – 2018

Provide support for the university education community in the use of TaskStream, including creating programs, implementing rubrics, evaluating work, uploading work, and handling account issues

**Tutor**, Purdue University, Athletic Department, 2014

Provide assistance to student athletes in mathematics and statistics courses in one-on-one tutoring

**Co-Instructor**, Purdue University, Mathematics Education, Department of Curriculum and Instruction, 2013-2014

Collaborate on lesson planning; lead classes on select topics; facilitate discussions; grade assignments.

### Courses Taught:

*Teaching of Mathematics in Middle School* (EDCI 426)

*Teaching of Mathematics in Secondary Schools* (EDCI 425/512)

**Graduate Teaching Assistant**, Purdue University, Mathematics Department, 2010 –2013

Teach undergraduate courses in calculus and algebra; prepare and deliver lectures; write, administer, and grade quizzes and midterm exams; hold office hours.

Courses Taught:

*Introductory Analysis I* (MA 223) – Differential calculus with applications to management and economics

*Plane Analytic Geometry and Calculus I* (MA 161) – Introduction to differential and integral calculus of one variable, with applications

*Introductory Analysis II* (MA 224) – Integral calculus; partial derivatives; differentials; introduction to differential equations. Applications to management and economics

*Algebra and Trigonometry I* (MA 153) – Exponents and radicals; algebraic and fractional expressions; equations and inequalities; systems of linear equations; polynomial, exponential, and logarithmic functions

*Multivariate Calculus* (MA 261) – Planes, lines, and curves in three dimensions; differential calculus of several variables; multiple integrals; introduction to vector calculus

**Mathematics Tutor**, University of Puget Sound, Center for Writing, Learning, and Teaching, 2009-2010

**Mathematics Tutor**, University of Puget Sound, Mathematics Department, 2008-2010

## 8. SERVICE

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**College of Education Diversity Committee**, Purdue University, 2017- 2018

Student Representative

**PME-NA 2017**, National Conference, Indiana, IN – 2017

Volunteer for the Local Organizing Committee

**PME-NA**, Reviewer, 2016-7

Reviewed conference proposals

**MATHCOUNTS**, Indiana State Competition, 2017

Graded exams and ran slideshow for final Countdown Round

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**School Science and Mathematics**, Reviewer, 2016-present

Reviewed journal submissions

**Mathematics Education Social Committee**, Purdue University, 2015-2016

**Westminster Village**, Assisted Living Facility, 2012-2015

Volunteered weekly to help with movie nights and bingo nights

## 9. PROFESSIONAL MEMBERSHIPS

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National Council of Teachers of Mathematics (NCTM)

American Educational Research Association (AERA)

North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA)

School Science and Mathematics Association (SSMA)

## 10. REFERENCES

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Rachael Kenney, Ph.D., [rhkenney@purdue.edu](mailto:rhkenney@purdue.edu), (765)464-4868

Associate Professor, Mathematics Education, Department of Curriculum and Instruction, Department of Mathematics, Purdue University

Brenda Capobianco, Ph.D., [bcapobia@purdue.edu](mailto:bcapobia@purdue.edu), (765)494-9635

Professor, Science Education, Department of Curriculum and Instruction, Purdue University

Laura Bofferding, Ph.D., [lbofferding@purdue.edu](mailto:lbofferding@purdue.edu), (765)494-0491

Associate Professor, Mathematics Education, Department of Curriculum and Instruction, Purdue University

Jill Newton, Ph.D., [jnewton@purdue.edu](mailto:jnewton@purdue.edu), (269)214-0103

Associate Professor, Mathematics Education, Department of Curriculum and Instruction, Purdue University