

RAYMOND JOHNSON

School of Education, UCB 249, Boulder, CO 80309

(720) 310-5520; raymond.johnson@colorado.edu; mathed.net

Education

Ph.D., Education (in progress), Fall 2010 – Present

University of Colorado Boulder, Boulder, Colorado

- Emphasis in Curriculum and Instruction in Mathematics Education, David C. Webb, Advisor
- Comprehensive exam completed Fall 2012; Committee: David Webb, William Penuel, and Derek Briggs

Graduate Coursework, Education, Fall 2009 – Summer 2010

University of Colorado Boulder, Boulder, Colorado

- Emphasis in Curriculum and Instruction in Mathematics Education

Program Certificate in Cartography and Geographic Information Systems (GIS), 2002

University of Northern Iowa, Cedar Falls, Iowa

- Emphases: Alpine Geography, Land Cover Analysis, Data Storage and Distribution

B.A., Mathematics, 1999

University of Northern Iowa, Cedar Falls, Iowa

- Emphasis in Secondary Mathematics Teaching, Bonnie Litwiller, Advisor
- Presidential Scholar (Awarded to top 15 of approximately 3,000 incoming freshmen)
- Presidential Scholar Senior Thesis: *Math Wars: The Politics of Curriculum*, advised by Edward Rathmell

Professional Positions

Graduate Part-Time Instructor, Fall 2011 – Present

University of Colorado Boulder

Graduate Research Assistant, Fall 2010 – Summer 2011, Fall 2012 – Present

University of Colorado Boulder

High School Mathematics Teacher, Fall 2006 – Spring 2009

South Park High School, Park County School District Re-2, Fairplay, Colorado

High School Mathematics Teacher, Fall 2003 – Spring 2006

Florence High School, Fremont School District Re-2, Florence, Colorado

Substitute Teacher, Fall 2002 – Spring 2003

North Central Iowa

Graduate Assistant, Spring 2000 – Spring 2002

Department of Geography, University of Northern Iowa

Courses Taught

University of Colorado Boulder

EDUC 3013 School in Society		Sp12, Sp13
EDUC 4716 Basic Statistical Methods		Fa11, Fa12
EDUC 2030 CU Teach: Step 2	Co-taught	Fa11, Sp12
EDUC 2020 CU Teach: Step 1	Co-taught	Fa11, Sp12

University of Northern Iowa

Inaugural Presidential Scholars Think Tank	Co-directed with UNI President Robert Koob	Fa00
Physical Geography	TA under Dr. Dennis Dahms	Fa00
Introduction to Statistics	TA under Dr. Mark Ecker	Su99

Professional Activities

Blogging, Social Media, and Outreach

Blogger at MathEd.net (October 2009 – Present) and [MathEd.net Links](http://MathEd.net/Links) (November 2011 – Present). Notable posts:

RYSK: Gravemeijer's Local Instruction Theories as Means of Support for Teachers in Reform Mathematics Education (2004).

Constructivism and the Khan Academy.

RYSK: Erlwanger's Benny's Conception of Rules and Answers in IPI Mathematics (1973).

2004-2006: My adventures in standards-based grading (and why I stopped).

Patterns of patterns.

Active member of mathematics education and communities on Twitter (<https://twitter.com/MathEdnet>) since October 2009 and Google+ (<https://plus.google.com/+RaymondJohnson>) since July 2011.

Strauss, V. (2012, August 2). *Khan Academy: Readers weigh in*. Op-ed for the Washington Post's *Answer Sheet* written with Frederick Peck.

Johnson, R. (2011, October 29). *The publication paradox*. Blog post for the 2011 Open Access Week.

Conference Presentations and Workshops

Johnson, R. & Thomas, S. (2013, April). *Statistical Reasoning in the Middle School*. Gallery workshop at the 2013 NCTM Annual Meeting and Exposition, Denver, CO.

Abels, M., Matassa, M. S., & Johnson, R. (2013, April). *Making Sense of Algebra with Realistic Mathematics Education*. Gallery workshop at the 2013 NCTM Annual Meeting and Exposition, Denver, CO.

Johnson, R. (2011, November). *Efficient Polynomial Multiplication, Division, Factoring, and Completing the Square*. Gallery workshop for the 2011 NCTM Regional Conference & Exposition, Albuquerque, NM.

Johnson, R. (2011, September). *A Learning Progression for Multiplying, Dividing, and Factoring Polynomials*. Presentation for the 3rd International Realistic Mathematics Education Conference, Boulder, CO.

Johnson, R. & Thomas, S. (2011, April). *What's the Probability of Teaching Statistics?* Poster presented at the 2011 Spring Qualitative Methods Class Poster Session, School of Education, University of Colorado, Boulder, CO.

Research Activities

Research assistant to William Penuel and Tamara Sumner for Inquiry Hub project (Fall 2012 – Present).

PI on independent research with Susan Thomas, “Middle School Mathematics Teachers’ Perceptions of the Common Core State Standards in Statistics” (Spring 2011 - Present).

Research assistant to Finbarr Sloane (Fall 2010 – Summer 2011).

Service Activities

Reviewer for *Educational Measurement: Issues and Practice*.

PhET Interactive Simulations (phet.colorado.edu) Mathematics Advisory Group (Fall 2012 – Present).

Mendeley Advisor for University of Colorado Boulder (April 2011 – Present).

School of Education learning sciences lab design participant (Fall 2011 – Spring 2012).

Memberships

National Council of Teachers of Mathematics

American Education Research Association

Graduate Coursework

Mathematics Education

EDUC 8165	Topics in Math Ed: Curriculum, Culture, and Achievement	Edd Taylor	Sp13
EDUC 8165	Topics in Math Ed: Theories of Math and Science Learning	Vicki Hand	Sp12
EDUC 8165	Topics in Math Ed: Research in the Learning of Algebra	David Webb	Fa11
EDUC 6925	Readings in Math Ed (Program Area Seminar)	Various	Fa11–Present
EDUC 6804	Student Centered Secondary Mathematics	Webb/van der Kooij	Su11
EDUC 5820	Teaching of Mathematics: Algebraic Thinking	Thomas Sullivan	Su10
EDUC 5810	Teaching of Mathematics: Number Sense	Michael Matassa	Su10
EDUC 5317	Nature of Mathematics and Mathematics Education	David Webb	Fa09

Assessment and Measurement

EDUC 8740	Advances in the Assessment of Student Learning	Erin Furtak	Fa12
EDUC 8720	Advanced Topics in Measurement	Derek Briggs	Sp12
EDUC 8710	Measurement in Survey Research	Derek Briggs	Fa11
EDUC 5706	Assessment of Mathematics and Science Education	David Webb	Sp10

Other

EDUC 8615	Language Issues in Education Research	G. Solano-Flores	Sp13
EDUC 8145	Research on Teaching and Learning to Teach	Liston/Whitcomb	Sp13
EDUC 8014	Multicultural Education	Linda Mizell	Fa11
EDUC 8260	Qualitative Methods II	Susan Jurow	Sp11
EDUC 8240	Quantitative Methods II	Gregory Camilli	Sp11
EDUC 8220	Introduction to Education Research and Policy	Ken Howe	Sp11
EDUC 8250	Qualitative Methods I	Margaret Eisenhart	Fa10
EDUC 8230	Quantitative Methods I	Gregory Camilli	Fa10
EDUC 8210	Perspectives on Classrooms, Teaching, and Learning	Elizabeth Dutro	Fa10
EDUC 7446	Policy Issues in Education	Kevin Welner	Sp10
EDUC 6325	Culture and Ethnography in Education	Margaret Eisenhart	Sp10
EDUC 6804	Ethics in Education	Ken Howe	Fa09