

Julie Clare McNamara
Curriculum Vitae

California State University, East Bay
Department of Teacher Education
25800 Carlos Bee Boulevard
Hayward, CA 94542
julie.mcnamara@csueastbay.edu

1442 Delaware Street
Berkeley, CA 94702
510-841-9753
510-334-3865
juliemcmath@gmail.com

EDUCATION

Ph.D.	2006	University of California, Berkeley, Graduate School of Education. <i>Development in Mathematics and Science</i>
M.A.	2000	University of California, Berkeley, Graduate School of Education. <i>Development in Mathematics and Science</i>
Teaching Credential	1986	University of California, Berkeley, Graduate School of Education. Multiple Subject Credential (CLAD Certification, 1996)
B.A.	1982	San Diego State University, San Diego, California. Psychology

CURRENT POSITION

Assistant Professor	2014- present	CSU East Bay. Hayward, CA. Assistant Professor of mathematics teacher education.
------------------------	------------------	---

PROFESSIONAL DEVELOPMENT AND UNIVERSITY TEACHING EXPERIENCE

Mathematics Specialist	2012- present	TeachingWorks, University of Michigan, Ann Arbor, Michigan. Design materials and present professional development to support and inform the training of K-12 classroom teachers.
Development Specialist	2010- 2012	Math Solutions, Sausalito, CA. Design and provide professional development and classroom coaching for K-8 mathematics teachers, coaches, and administrators throughout the United States
BAMP Associate	2009-2010	Bay Area Mathematics Project, Lawrence Hall of Science, University of California, Berkeley. Provide professional development and classroom coaching for K-8 mathematics teachers throughout the San Francisco Bay Area
Academic Coordinator	2008- 2009	Graduate School of Education, University of California, Berkeley. Developmental Teacher Education Program EDUC 235: Elementary Teaching in Mathematics EDUC 393: Preparation for the Completion of the Elementary Performance Assessment for California Teachers (PACT) Other responsibilities: PACT Coordinator for Multiple Subject and Single Subject Credential Programs

Lecturer	2006-2008	Graduate School of Education, University of California, Berkeley. Developmental Teacher Education Program EDUC 235: Elementary Teaching in Mathematics EDUC 298: PACT (Performance Assessment for California Teachers) Preparation EDUC 390: Supervised Teaching
Graduate Student Instructor	2000-2006	Graduate School of Education, University of California, Berkeley. Developmental Teacher Education Program EDUC 235: Elementary Teaching in Mathematics EDUC 298: PACT (Performance Assessment for California Teachers) Preparation EDUC 112: Reforms in Elementary Education
Graduate Student Instructor	2001-2002	Graduate School of Education, University of California, Berkeley. Developmental Teacher Education Program Field Supervisor
Lecturer	Spring 2000	University Extension, University of California, Davis. Fundamentals of Mathematics for Elementary and Middle School Teachers
Lecturer	Winter 2008 Spring 2007, 1998-2002	School of Education, Saint Mary's College, Moraga, California. Multiple Subject Credential Program MSTE 224: Technology in the Classroom II: Preparation for the Completion of the Elementary Mathematics Performance Assessment for California Teachers ELCD 320: Student Teaching II Seminar ELCD 347: Curriculum and Instruction: Math and Science
Assistant Professor	1996-1998	School of Education, Saint Mary's College, Moraga, California. Multiple Subject Credential Program ELCD 320: Student Teaching II Seminar ELCD 347: Curriculum and Instruction: Math and Science
Field Supervisor	1994-1996	School of Education, Saint Mary's College, Moraga, California. Multiple Subject Credential Program

UNIVERSITY EXPERIENCE (OTHER)

Graduate Student Researcher	2002-2003	Graduate School of Education, University of California, Berkeley. Participated in research focused on investigating teachers' views of students' understanding of fraction concepts. Principal investigators: Geoffrey Saxe and Maryl Gearhart.
-----------------------------	-----------	--

ELEMENTARY TEACHING EXPERIENCE

Classroom Teacher	Summers 2001-2009	University of California, Berkeley. Academic Talent and Development Program Applying Mathematics, students entering 3 rd grade
Classroom Teacher	2000-2001	Malcolm X Elementary School, Berkeley, California. 4 th grade
Classroom Teacher	1989-1996	Cooper Elementary School, Vallejo, California. 3 rd , 4 th , and 5 th grades
Classroom Teacher	1988-1989	El Portal Elementary School, San Pablo, California. Physical education, 1 st through 6 th grades

OTHER PROFESSIONAL EXPERIENCE

Independent Consultant	Ongoing	Work with K-12 classroom teachers to implement content and practices aligned with the Common Core State Standards for Mathematics
CA Teacher Performance Assessment (TPA) Task 1 Assessor Trainer	Fall 2006	Participated in training of trainers administered by CTC for Task 1 of the CA Teacher Performance Assessment.
Consultant to PACT (Performance Assessment for California Teachers) Consortium	2003-2007	Participated in initial elementary mathematics development team and initial scorer training. Trainer of trainers for PACT scoring. Identified and updated benchmarks.

PUBLICATIONS

Category A: International or National Refereed Journals, Invited Chapters in Book from a National Publisher, or Books

- McNamara, J., Franz, D., Fernandez, M. (2019). Why the switch to PR??. In W. G. Martin, B. R. Lawler, A. Lischka, & W. Smith (Eds.). *The power of a networked improvement community to transform secondary mathematics teacher preparation*. Charlotte, NC: Information Age.
- McNamara, J. (2017). Return of the Tug-of-War. *Mathematics teaching in the middle school*, 23,1, 40-47.
- McNamara, J. (2016). Supporting math at home and Games and books for mathematics. In Ramirez, L. (Ed.) *No Estás Solo: Recetas Para Obtener Éxito, De Padres Para Padres* (translation: *You Are Not Alone: Recipes for Success, Stories from Parents to Parents*) El Monte, CA: Velazquez Press.
- McNamara, J. (2015). *Beyond invert and multiply: Making sense of fraction computation*. Sausalito, CA: Math Solutions Publications.
- McNamara, J. & Shaughnessy, M. (2015). *Beyond pizzas and pies: 10 essential strategies for supporting fraction sense, 2nd edition..* Sausalito, CA: Math Solutions Publications.
- McNamara, J. & Shaughnessy, M. (2011). Student errors: What can they tell us about what students do understand? *NCSM spring newsletter*. 28-31.
- McNamara, J. (2010). Two of everything. *Teaching children mathematics*, 17, 3, 132-136.

Category B: State, Regional Refereed Journals, or Author of Accepted, Refereed Externally Funded Grant Proposals

- Supporting Excellence, Effectiveness, & Diversity in STEM Teacher Education. NSF Robert Noyce Teacher Scholarship Program, \$1,199,976. **(Under review.)** Co-Principal Investigator.
- Summer Math Bridge. Warriors Community Foundation, \$25,000. **(Under review.)** Co-Principal Investigator.
- Video as a tool for reflecting on and improving classroom practice. CSUEB Faculty Support Grant, \$5,232. **(Under review.)** Principal Investigator.
- Summer Math Bridge. Warriors Community Foundation, \$25,000. 2017. Co-Principal Investigator.
- Teaming for Effectiveness and Equity in Mathematics. California Department of Education, Elementary Mathematics and Science Professional Learning Initiative. \$490,582. 2016-2017. Principal investigator.
- McNamara, J. (2010). Two of everything or the magic pot. *CMC Communicator*, 34, 3. 46-49.
- McNamara, J. & Shaughnessy, M. (2008). Understanding fractions through measurement. *CMC Communicator*, 13, 30-32.

Category C: Presentations

- McNamara, J. You want students to talk? Give them something to talk about! Workshop to be presented at the California Mathematics Council Annual Conference (North), Pacific Grove, CA, December, 2018.
- McNamara, J., Why do rational numbers make me feel so irrational? Invited keynote address to be presented at the North Carolina Council of Teachers of Mathematics Annual Conference, Greensboro, NC, November, 2018.
- McNamara, J., Franz, D., & Fernandez, M. Program Recruitment and Retention (PR²) Conference Working Group Report. Proceedings of the 7th Annual MTE-Partnership Conference, August, 2018.
- McNamara, J. Blast from the past: return of the tug of war. Workshop presented at the National Council of Teachers of Mathematics Annual Conference, Washington, DC, April 2018.
- Hann, K. & McNamara, J. Recruiting highly-qualified and diverse STEAM students into K-12 teaching. Roundtable presented at the California STEAM Symposium, San Francisco, CA, December 2017.
- McNamara, J. Blast from the past: return of the tug of war. Workshop presented at the California Mathematics Council Annual Conference (North), Pacific Grove, CA, December, 2017.
- McNamara, J., Franz, D., & Fernandez, M. Program Recruitment and Retention (PR²) Conference Working Group Report. Proceedings of the 6th Annual MTE-Partnership Conference, October 2017.
- McNamara, J. & Khalsa, A. Free online tools for guiding discourse in rich math tasks. Workshop presented at the National Council of Teachers of Mathematics Annual Conference, San Antonio, TX, April, 2017.
- Khalsa, A. & McNamara, J. Unraveling whole numbers and fractions on the number line. Workshop presented at the National Council of Teachers of Mathematics Annual Conference, San Antonio, TX, April, 2017.
- McNamara, J. For your eyes only: Video as a tool for personal self-reflection. Talk presented at the Association of Mathematics Teacher Educators' Annual Conference, Orlando, FL, February, 2017.
- McNamara, J. Beyond invert and multiply: Making sense of fraction computation. Workshop presented at the California Mathematics Council Annual Conference (North), Pacific Grove, CA, December, 2016.
- McNamara, J. For your eyes only: Video as a tool for personal self-reflection. Talk presented at the California Mathematics Council Annual Conference (North), Pacific Grove, CA, December, 2016.

- Khalsa, A. & McNamara, J. Digital tools and three-act tasks: Marriages made in the cloud. Workshop presented at the California Mathematics Council Annual Conference (North), Pacific Grove, CA, December, 2016.
- McNamara, J. Beyond invert and multiply: Making sense of fraction computation. Workshop presented at the California Mathematics Council Annual Conference (South), Palm Springs, CA, November, 2016.
- McNamara, J. Beyond invert and multiply: Making sense of fraction computation. Workshop presented at the National Council of Teachers of Mathematics Annual Conference, San Francisco, CA, April, 2016.
- McNamara, J., Olkin, J., Eldridge, A., Hill, L. Co-Teaching across the pipeline: Encouraging discourse among students, teachers, and prospective teachers. Talk presented at the Association of Mathematics Teacher Educators' Annual Conference, Irvine, CA, January, 2016.
- Shaughnessy, M., Garcia, N., Ball, D., McNamara, J., & Willis, A. Professional learning for leading mathematics discussions. Talk presented at the Association of Mathematics Teacher Educators' Annual Conference, Irvine, CA, January, 2016.
- Khalsa, A. & McNamara, J. The magnitude of whole numbers and fractions on the number line. Workshop presented at the National Council of Supervisors of Mathematics Annual Conference, Boston, MA, April, 2015.
- McNamara, J. Digging into fraction division. Workshop presented at the National Council of Teachers of Mathematics Annual Conference, Boston, MA, April, 2015.
- McNamara, J. Beyond invert and multiply: Making sense of fraction computation. Workshop presented at the National Council of Supervisors of Mathematics Annual Conference, Boston, MA, April, 2015.
- McNamara, J. Digging into fraction division. Workshop presented at the California Mathematics Council Annual Conference, Palm Springs, CA, October, 2014.
- McNamara, J. Understanding fraction computation by applying and extending previous understandings. Workshop presented at the National Council of Teachers of Mathematics Annual Conference, New Orleans, LA, April 2014.
- McNamara, J. & Shaughnessy, M. Eliciting student thinking: Exploring common patterns and designing instructional responses. Talk presented at the Association of Mathematics Teacher Educators' Annual Conference, Irvine, CA, February, 2014.
- McNamara, J. Examining/Developing practice via live laboratory teaching . Talk presented at the California Mathematics Council Annual Conference, Monterey, CA, December, 2013.
- McNamara, J. Fraction computation: Building on previous understandings. Talk presented at the California Mathematics Council Annual Conference, Palm Springs, CA, November, 2013.
- McNamara, J. Using representations to support students' development of number sense. Invited Keynote for Connecting Number And Operations In The Classroom, NCTM Extended Online Professional Development - Grades Pk-5. August, 2013.
- McNamara, J. & Gray, L. Fractions: What's there to talk about? Workshop presented at the California Mathematics Council Annual Conferences, Palm Springs, CA, November, 2012 and Monterey, CA, December, 2012.
- McNamara, J. Helping teachers transition to the common core: What they need to know now. Workshop presented at the National Council of Supervisors of Mathematics Annual Conference, Philadelphia, PA, April 2012.
- McNamara, J. Beyond invert & multiply: Making sense of fraction computation. Workshop presented at the National Council of Teachers of Mathematics Annual Conference, Philadelphia, PA, April 2012.
- McNamara, J. & Shaughnessy, M. Fraction sense: What, why, and how? Workshop presented at the National Council of Teachers of Mathematics Annual Conference, Indianapolis, IN, April, 2011.

- McNamara, J. Beyond pizzas and pies: Supporting fraction sense. Workshop presented at the California Mathematics Council Annual Conferences, Palm Springs, CA, November, 2010 and Monterey, CA, December, 2010.
- Shaughnessy, M. & McNamara, J. Addressing students' difficulties with fractions: Pre- and inservice teachers' strategies. Talk presented at the Association of Mathematics Teacher Educators' Annual Conference, Irvine, CA, January, 2010.
- McNamara, J. & Shaughnessy, M. Fractions: Unpacking the myths. Workshop presented at the National Council of Teachers of Mathematics Annual Conference, Washington, DC, April, 2009.
- McNamara, J. Measuring Ruby: Understanding fractions through measurement. Workshop presented at the California Mathematics Council Annual Conference, Monterey, CA, December, 2008.
- Shaughnessy, M. & McNamara, J. (2008). Making sense of fraction representations: A measurement model. Workshop presented at the National Council of Teachers of Mathematics Annual Conference, Salt Lake City, UT, April, 2008.
- McNamara J. (2008). Using a measurement model to support fifth graders' development of fraction understanding. Poster presented at the American Educational Research Association Annual Conference, New York, NY, March, 2008.
- McNamara J. (2007). Multiple subject TPAs: Issues, strategies, solutions, and suggestions. Paper presented at the California Mathematics Council Annual Conference, Monterey, CA, November, 2007.
- McNamara, J. (2007). Supporting students' part/whole understanding with a measurement model: A case study. Paper presented at the National Council of Teachers of Mathematics Annual Conference, Atlanta, GA, March, 2007.
- McNamara J. (2006). Exploring the open number line. Paper presented at the California Mathematics Council Annual Conference, Monterey, CA, December, 2006.
- McNamara, J. (2006). PACT at UC Berkeley: Linking coursework and the Teaching Event. Paper presented at the PACT Implementation Conference, Santa Barbara, CA, May, 2006.
- McNamara, J. & Stansbury, K. (2005). PACT in progress: Performance assessment in elementary mathematics. Paper presented at the California Mathematics Council Annual Conference, Monterey, CA, December, 2005.
- Gearhart, M. & McNamara, J. (2004). Teachers' questions and students' opportunities to learn in elementary mathematics classrooms. Paper presented at the American Educational Research Association Annual Conference, San Diego, CA, April 2004.
- McNamara, J. (2003). Fractions: Students' interpretations of the meaning of the digits. Paper presented at the American Educational Research Association Annual Conference, Chicago, IL, April 2003.
- McNamara, J. & Krohn, C. (2000). What's good for the goose: Using cases to improve our practice. Paper presented at the California Council on the Education of Teachers, San Jose, CA, Spring 2000.

Category D: Professional Community

- McNamara, J. Formative assessment with mathematical models. EdWeb webinar presented for conceptuamath.com September 2017.
- Spenser, J., Kinch, D., Brown, K., McNamara, J., & Uy, F. California Association of Mathematics Teacher Educators Position Statement: The standards for mathematical practice for diverse students. (Manuscript in preparation.)

Category E:

California Association of Mathematics Teacher Educators (CAMTE) Board

Conceptua Board

AMTE STaR Fellow 2016 Cohort

Outstanding Graduate Student Instructor Award, 2002-2003.

University Fellowship, 2002-2003, 2000-2001, 1999-2000.

Alpha Delta Kappa Memorial Scholarship for Women, 1985.

DISSERTATION

McNamara, J. (2006). Using a measurement model to support students' development of fraction understanding. (Unpublished dissertation.) Committee: Geoffrey B. Saxe (Chair), Maryl Gearhart, Jonas Langer.

PROFESSIONAL ORGANIZATIONS

Association of Mathematic Teacher Educators (AMTE)

California Association of Mathematics Teacher Educators (CAMTE)

California Mathematics Council (CMC)

National Council of Teachers of Mathematics (NCTM)