

## Dr. Kelly Darke

### EDUCATION

- 2010            DA            University of Illinois at Chicago, Chicago, IL; Major: Mathematics Thesis Title: An Examination of the Questioning Interactions of Prospective Teachers during Mathematical Discussions
- 2004            M.A.T        Michigan State University, East Lansing, MI; Masters of Arts for Teachers in Mathematics
- 2000            BA            State University of New York College at Potsdam, Potsdam, NY Majors: Mathematics, Education

### PROFESSIONAL EXPERIENCE

- 2021-present    Lecturer, *Teacher Development and Educational Studies*, Oakland University
- 2020            Reviewer, *CryptoClub Professional Development Resources created by STEM Ed Team at University of Chicago*
- 2019-2022-     Private Mathematics Tutor, *Middle/High School Math*
- 2019            Adjunct Lecturer, *Northwestern University*
- 2018            Subject Matter Expert, *Curriculum Review Project*, Aptara Corporation
- 2016            Writer, *Everyday Mathematics Curriculum*, University of Chicago
- 2014-2016     Visiting Assistant Professor, *Department of Mathematics (MSCS)*, University of Illinois at Chicago
- 2012            Writer, *Everyday Mathematics Curriculum*, University of Chicago
- 2010-2012     Lecturer, *Department of Mathematics*, University of Illinois at Chicago
- 2008-2009     Assistant Professor, *Department of Mathematics*, Saint Xavier University
- 2007-2008     Teaching Assistant, *University of Illinois at Chicago*

- 2006 Instructor, *DePaul University*, Quantitative Reasoning
- 2005-2007 Research Assistant, *Math Trailblazers Curriculum: Institute of Mathematics and Science Education*, University of Illinois at Chicago
- 2005-2006 Research Assistant, *UIC Teacher Content Knowledge-NCLB Grant*, University of Illinois at Chicago
- 2004-2005 Research Assistant, *Center for the Study of Mathematics Curriculum*, A Center for Learning and Teaching funded by the National Science Foundation
- 2004 Research Assistant, *Knowledge for Teaching Algebra Project*, Michigan State University
- 2002-2005 Research Assistant, *Connected Mathematics Project*, Mathematics, Department, Michigan State University
- 2002-2003 Mathematics Tutor, *Erickson Learning Center*, East Lansing, MI
- 2001-2002 Teaching Assistant, *University at Albany*, Mathematics Department
- 2001 High School Mathematics Teacher, *Shaker High School*, Loudonville, New York

## PROFESSIONAL WRITINGS

Lappan, G. and Rivette, K. (2004) Mathematics Teacher Education: At a Crossroad. In Denise Thompson and Tad Watanabe (Eds.) *The Work of Mathematics Teacher Educators: Exchanging Ideas for Effective Practice*, AMTE Monograph 1 ( pp. 1- 19) San Diego, CA: Association of Mathematics Teacher Educators.

Grant, Y. Ludema, H. Rickard, A. & Rivette, K. (2003) *Connected Mathematics Project: Research and Evaluation Summary*. New Jersey: Prentice Hall.

## PRESENTATIONS

(2008, January)(w. Superfine, A.) Questioning in Elementary Mathematics Classrooms. Presented at the Metropolitan Mathematics Conference of Workshops, Lemont, IL.

(2007, March) (w. Beal, S & Canty, R) Whole Number Understanding and Its Assessment in School Mathematics. Presented at the 39th Annual NCSM Conference, Atlanta, GA.

(2007, January)(w. Canty, R) The Development and Use of Cognitive Assessment Tools for Research, Learning, and Teaching of Math Trailblazers. Presented at the Eleventh Annual Conference for the Association of Mathematics Teacher Educators. Irvine, CA.

(2006, March) (w. Beal, S., Canty, R., Pitvoric, K., & Ditto, C.) Investigation of Teaching and Learning in Elementary School Mathematics using Math Trailblazers The 8<sup>th</sup> annual Symposium series: Excellence in Teaching Mathematics and Science: Research and Practice, Loyola University, Chicago, IL.

(2004)(w. Stewart, J.) Grade Level Breakout Sessions , 8<sup>th</sup> Grade Connected Mathematics Phase II: 7th Annual CMP Users' Conference, East Lansing, MI.

(2004) (w. Sword, S.) Things I wish I knew when I learned Algebra: CMPII Field Site Workshop, East Lansing, MI.

(2003) (w. Sword, S.) Growing, Growing, Growing, 8<sup>th</sup> grade unit on Exponential functions): 6th Annual CMP Users' Conference, East Lansing, MI.

### **MATH COURSES TAUGHT (FREQUENCY)**

Math for Elementary Teachers (Number and Algebra)	8
Math for Elementary Teachers (Geometry and Statistics)	8
Euclidean Geometry for HS Teachers	3
Special Topics: A course of Functions for Prospective HS teachers	3
Finite Math for Business course	2
Precalculus	2
History of Math Course for Teachers	1
Number Theory for Teachers	1
Methods Course for Elementary Teachers (Number and Operations/Fractions)	5
Master's Content Course for Elementary Teachers	1
Quantitative Reasoning for College Freshman	2
High School Math (Algebra)	3
High School Math (Trigonometry)	2
High School Math (Precalculus)	1

## **AWARDS/ CERTIFICATIONS**

Michigan Temporary Teaching Certificate EX (6-12), MI Department of Education, Issued 10/22

New York State, Provisional Teaching Certificate (6-12), Issued 2000.

Junior Mathematics Award, State University at Potsdam, 1999.

Pi Mu Epsilon Senior Award (for Mathematical Excellence), State University at Potsdam, 2000.

Susan Dewitt Kaiser Award (in Mathematics Education), State University at Potsdam, 2000.

5 years of service, University of Illinois-Chicago

## **MATH LEARNING BLOGS**

I write about learning and sharing math through picture books, problems, activities, projects with my children at [www.mathbookmagic.com](http://www.mathbookmagic.com) and [www.fairymathmother.com](http://www.fairymathmother.com).

## **COACHING EXPERIENCE**

2022 Girls Soccer, St. Hugo of the Hills School

2000 Freshman Boys Soccer, Averill Park High School