# Joanne Caniglia, Ph.D

Associate Professor TLC jcanigl1@kent.edu

ducation	
Ph.D., Curriculum and Instruction	1994
Kent State University	
The Transformation and Enactment of Teachers Pedagogical, Cont	ent, and Personal Practical Knowledge.
M.Ed., Mathematics Education	1983
Youngstown State University	
B.S., Mathematics	1977
John Carroll University	
ligher Education Work Experience	00/0000
Associate Professor Kent State University	08/2008 - present
Professor	08/1994 - 08/2008
Eastern Michigan University	
Full Time, Temporary Instructor	1993 - 1994
Kent State University, Kent, OH.	
Research Assistant	1991 - 1993
Kent State University, Kent, OH	

# Teacher, Department Chair

Volume 1 (2).

1983 - 1987

St. Vincent- St. Marys High School, Akron, OH.

Teacher 1980 - 1983

Our Lady of the Elms High School, Akron, OH.

Teacher 08/1977 - 08/1990

Niles City Schools, Our Lady of the Elms, St. Vincent St. Mary's

Publications	
Ganter, S., Caniglia, J., & Haver, W. (January 2012). <i>Mathematics and the arts—A Report of a CRAFTY Initiative</i> . MAA Publications: Washington DC. Publication: <i>Book Chapters</i>	2012
Caniglia, J.C. (September, 2012). Math circles circumscribe Ohio. <i>Ohio Journal of Mathematics</i> . Publication: <i>Journal Articles, Refereed</i>	2012
McKeny, T., & Caniglia, J.C. (May 2012). Sol LeWitt and mathematics. Mathematical Lenses, May 2012 Mathematics Teacher.  Publication: Journal Articles, Refereed	2012
Caniglia, J. C. (in process - manuscript to be published in the Fall). MAA Voices from the Partner Disciplines II. Publication: <i>Journal Articles, Refereed</i>	2009
Caniglia, J. C., Leapard, B., and Richard, E. (accepted - to be published). Math club: An elementary school-university, <i>Connect</i> .  Publication: <i>Journal Articles, Refereed</i>	2009
Caniglia, J., & Leapard, B. (accepted). Analyzing the world population: Using population pyramids and If the World Were a Village. <i>Teaching Statistics</i> .  Publication: <i>Journal Articles, Refereed</i>	2009
Hoffman, E. & Caniglia, J. (February 2009). NCLB and the Teaching of Mathematics, Mathematics Teacher, NCTM.  Publication: Journal Articles, Refereed	2009
Caniglia, J. C., Paladino, J., Orr, A., & Richard, E., (2007). Interdisciplinary lesson planning: Integrating special education and mathematics content, <i>Equals Journal</i> . Publication: <i>Journal Articles, Refereed</i>	2007
Paladino, J., Orr, A., Caniglia, J., Richard, E. (2007). Validating inclusive math practices:  Administrative leadership implication. <i>The John Ben Sheppard Journal of Practical Leadership</i> .	2007

Caniglia, J., & Leapard, B. J. (September 2005). Say it, do it, draw it! Teaching conic sections. Mathematics Teacher: National Council of Teachers of Mathematics, NCTM: Reston, VA. Publication: Journal Articles, Refereed	2005
Duranczyk, I. M., Leapard, B., Caniglia, J. & Richard, E. (2005). <i>Math in the city: Connecting mathematics and culture</i> . (a monograph chapter that was invited, peer reviewed, and appears on the website of the International Study Group on Ethnomathematics http://www.rpi.edu/~eglash/isgen.dir?NASGEm/ncm04/Duranczyk, Irene Math in City.pdf) Publication: <i>Journal Articles, Refereed</i>	2005
Caniglia, J. C. (2004). Math in the city: Experiencing professional development. <i>Journal of Experiential Learning</i> , Summer.  Publication: <i>Journal Articles, Refereed</i>	2004
Leapard, B. J. & Caniglia, J. (2004). Teaching outside the lines: After school mathematics, ENC FOCUS ONLINE.  Publication: <i>Journal Articles, Refereed</i>	2004
Caniglia, J. C. & Leapard, B. J. (2003). The value of Pi, Low and High Tech, <i>Ohio Journal of Mathematics</i> .  Publication: <i>Journal Articles, Refereed</i>	2003
Caniglia, J., Duranczyk, I. M., Leapard, B., & Richards, E. (2003). Story Living and Mathematics: The underground railroad, materials developed under a grant awarded by the Michigan Department of Education, Detroit Historical Museum.  Publication: Journal Articles, Refereed	2003
Caniglia, J., Duranczyk, I. M., Leopard, B., & Richards, E. (2003). Story living and mathematics: music and culture, materials developed under a grant awarded by the Michigan Department of Education, Detroit Historical Museum.  Publication: Journal Articles, Refereed	2003
Caniglia, J., Duranczyk, I. M., Leopard, B., & Richards, E. (2003). Story living and mathematics: The great fire of 1805, materials developed under a grant awarded by the Michigan Department of Education, Detroit Historical Museum.  Publication: Journal Articles, Refereed	2003
Duranczyk, I. M., Leapard, B., Richards, E., & Caniglia, J. (2003). Rising starts. In T Armington (Eds.), <i>Best practices in developmental education:</i> Vol. 2. (pp. 41-43). Findlay, OH: National Association for Developmental Education.  Publication: <i>Journal Articles, Refereed</i>	2003
Caniliga, J. (2002). Making mathematics in Michigan meaningful: An After-School Math Club. <i>Michigan Principal.</i> Publication: <i>Journal Articles, Refereed</i>	2002
Caniglia, J. (2002). Summary of Mathematician/Mathematics Education Partnerships Working Together: One Example. In The Mathematical Preparation of Elementary Teachers: <i>Proceedings of the Michigan Mathematics Forum</i> , Lansing, Michigan.	2002

Publication: Journal Articles, Refereed

Bradley, L. & Caniglia, J. (Summer 2001). Appealing mathematics: Going beyond traditional testing. Eisenhower National Clearinghouse's <i>FOCUS</i> .  Publication: <i>Journal Articles, Refereed</i>	2001
Caniglia, J. C. & Buckeye, D. (1999). Lusona: Where mathematics and storytelling meet. Factorial, Fall.  Publication: Journal Articles, Refereed	1999
Caniglia, J. C. & Duranczyk, I. M. (1999). Understanding mathematics backwards. In the <i>National Association of Departmental Educators 1999 Monograph</i> .  Publication: <i>Journal Articles, Refereed</i>	1999
Duranczyk, I. M. & Caniglia, J. C. (1998). Student beliefs, learning theories, and developmental mathematics: New challenges in preparing successful college students. In <i>Developmental Education: Preparing Successful College Students</i> . Jeanne L. Higbee and Patricia L. Dwinell (Eds.).  Publication: <i>Journal Articles, Refereed</i>	1998
Procontations	
Presentations 	
Research Council for Mathematics and Learning. Presentation of an ODE Projectthe KSU/Warren G. Harding's Evolution of a Teacher Communities.  Type: National Refereed	2011
Type. Ivalional Netered	
Ohio Council of Teachers of Mathematics. Akron, Ohio Type: State Refereed	2010
Type. State Notereed	
Meeting the needs of ALL students in Mathematics.  Type: State Refereed	2010
Caniglia, J. & Contis, E. (accepted). The Traveling Salesman Solves a Meals on Wheels Problem: Utilizing Academic Service Learning in an Integrated Algebra and Computer Science Sourse. Athens, Greece, June.	2009
Type: International Refereed	
Ganter, S., Caniglia, J., and Haver, W. (accepted). <i>Mathematics and the arts - A Report of a CRAFTY Initiative</i> . MAA/AMS Joint Annual Meeting: Washington, DC.  Type: <i>National Refereed</i>	2009
Caniglia, J. C. (accepted). <i>Spring mathematics: The role of leadership</i> . National Council of Supervisors of Mathematics. Washington D.C.  Type: <i>National Refereed</i>	2009
Hoft, H., & Caniglia, J. Mathematics on the Horizon of Art. Paper presented at the Bridges International Conference, July, Germany.  Type: International Refereed	2008

Contis, E. & Caniglia, J. Attracting and Retaining STEM Majors: A Creative Scientific Inquiry Experience Program, AACU Conference in Providence RI, November 5 through 8.  Type: State Non-Refereed	2008
Speaker, <i>Meals on wheels meets College Algebra and the traveling salesman problem</i> , MAA/AMS Joint Meeting, January, New Orleans, LA.  Type: <i>National Refereed</i>	2007
Speaker, If you build it, they will come! Michigan Council of Teachers of Mathematics, October, Detroit, MI.  Type: State Refereed	2005
Speaker, Shadow geometry. Michigan Council of Teachers of Mathematics, October, Detroit, MI. Type: State Refereed	2005
Speaker, Alignment of Michigan's Grade Level Content Expectations and Everyday Mathematics Series, Grade Level Meetings. October.  Type: Regional Refereed	2004
Speaker, <i>Mathematical Literacy</i> , Ann Arbor Middle School Teachers of Mathematics, January 25 through February 2.  Type: <i>Regional Refereed</i>	2004
Speaker, Ethnomathematics: Connecting Mathematics and Culture, Philadelphia, PA.  Type: National Refereed	2004
Poster Session, Research Pre-session, AfterMath: An After School Math Program: Research Results. National Council of Teachers of Mathematics, Philadelphia, PA.  Type: National Refereed	2004
Speaker, Joint Meeting of MAA and AMS, Appealing Mathematics, Evaluation Web Sites for Educators, and Math in the City, January.  Type: National Refereed	2003
Caniglia, J., Duranczyk, I. M., Leapard, B., and Richards E. (January) MAA Poster Session on Projects Supported by the NSF Division of Undergraduate Education. Joint Mathematics Meeting. Baltimore, MD.  Type: National Refereed	2003
Duranczyk, I. M., Leapard, B., Richards, E., and Caniglia, J. (January) Math in the City: Teacher Professional Development through Black Historic Sites. <u>Joint Mathematics Meeting</u> . Baltimore, MD.  Type: <i>National Refereed</i>	2003
Speaker, NCTM, Regional Meeting, <i>Come on Down! Using the Price is Right in the Classroom.</i> Columbus, OH, September 29. Type: State Non-Refereed	2001

Speaker, <i>Using the Black Historic Sites Tour as a Model for Professional Development</i> , African American Child Symposium: Creating a Learning Environment for Self Determination, Detroit, MI, May 5.	2001
Type: State Non-Refereed	
Speaker, Critical Issues in Professional Development in VISIT. Geographic Information Systems (GIS) ESRI Conference. San Diego, CA, July 8.  Type: National Refereed	2001
Speaker, Where the Sidewalk Ends: Mathematics Begins NCTM Annual Meeting, Chicago, IL, April.  Type: State Non-Refereed	2000
Invited Plenary Speaker, OCTM Meeting, <i>Falling up over mathematics,</i> Toledo, OH, October.  Type: <i>State Invited</i>	2000
Speaker, Multicultural Mathematics in Metro Detroit, DACTM, Canton Plymouth Schools, November 6.  Type: Regional Refereed	1999
Speaker, <i>Developmental mathematics students' beliefs</i> , MAA Annual Meeting, January, Baltimore MD.  Type: <i>National Refereed</i>	1998
Caniglia & Duranczyk. Student Belief, Learning Theories, and Developmental Mathematics. The Joint Mathematics Conference. Baltimore, MD. Type: <i>Regional Non-Refereed</i>	1998
Speaker, Shel Silverstein in the early childhood classroom, MCTM Annual Meeting, Lansing, MI, October 3.  Type: State Non-Refereed	1997
Speaker, <i>Using the CBL in the Middle School Classroom</i> , NCTM, Minneapolis, MN.  Type: <i>National Refereed</i>	1997
Speaker, Conference on Research on Undergraduate Mathematics Education, <i>Understanding mathematics and physical concepts with calculator based laboratory measurement tools</i> , Central Michigan University, Mt. Pleasant, MI, September 8.  Type: <i>National Refereed</i>	1996
Speaker, <i>Using the CBL in the undergraduate mathematics classroom,</i> Siena, MI, May 6.  Type: <i>State Refereed</i>	1996
Speaker, Ohio Council of Teachers of Mathematics, <i>Linking manipulatives and meaning</i> . Cleveland, OH, November 8 and 9.  Type: State Non-Refereed	1996

Coordinate, Knotting Mathematics and Art Conference  Type: University	2007 - 200
Type: Cital	
Type: State	
Reviewer, Ohiorc, Columbus, Ohio	2008 - 201
Type: Regional	2000 - 200
Editor, SumMore, Summer Math Activities for Children of Michigan	2008 - 200
Coordinate, Mathematics Coaching Program, Ohio State University  Type: University	2008 - presen
Type: State	
Co-chair, Ohio Council of Teachers Annual Meeting	2010 - 201
ervice	
Speaker, A Historical Approach to PreCalculus The Regional Meeting of the National Council of Teachers of Mathematics. Columbus, OH, October.  Type: National Refereed	199
Type. Neglonal Non Neloloca	
Speaker, Winter Mathematics Conference, Greater Akron Teachers of Mathematics and Greater Canton Teachers of Mathematics, Akron, OH. Visualization in Mathematics, February.  Type: Regional Non-Refereed	199
Type. Neglonal Non-Neleleeu	
Speaker, Mathematics Symposium, Stark County Teachers, <i>Problem solving in grades 5-8, December 11.</i> Type: Regional Non-Refereed	199
Type. Neglonal Non Neloreed	
Speaker, Midwest Conference on the History of Mathematics, <i>Visualizing summation formula: A historical perspective</i> . Indianapolis, October.  Type: <i>Regional Non-Refereed</i>	199
Type: State Non-Refereed	
The Ohio Council of Teachers of Mathematics, Toledo, OH, <i>A Study of mathematical expertise</i> , October.	199
Type: State Non-Refereed	

Type: College

Reviewer, Mathemathics, NCATE	2005 - present
Type: University	•
Consulting, Alignment with Everyday Mathematics, Connected Mathematics, and Core Plus Mathematics with the Washtenaw Intermediate School District	2004 - 2004
Type: Regional	
Reviewer, National Science Foundation, NOYCE Scholarship Program	2004 - 2004
Type: National	
Type. National	
Reviewer, Graduate School	2004 - 2004
Wayne State University. Materials for Tenure and Promotion: Jeremy Zingermann, January 5, 2004, Kent State University.	Michael Mikusa,
Type: University	
Judge, Engineering Society of Detroit	2004 - 2004
Type: University	
Speaker, Engineering Society of Detroit	2003 - 2003
Type: University	
Coordinate, Pi Day	2002 - 2003
March 14, 2002 and March 14, 2003	2002 2000
Type: University	
Coordinate, Outreach in Mathematics: A Service to Students, Faculty, and the Community, Eastern Michigan University	2002 - 2002
Type: University	
Co-chair, Science Olympiad	2001 - 2007
Region 9, Washtenaw Community College, March 17, 2001, March 18, 2002, March 20, 2004 to 2003	7.
Type: University	
Workshops, GIS for Teachers, Eastern Michigan University	2001 - 2001
	2001 - 2001
Type: University	
Chair, Fourth Rock from the Sun: A Summer Workshop for Science and Mathematics Teachers	2001 - 2001
Type: Regional	

Reviewer, Program Review and Program Evaluation of University Mathematics

Michigan Department of Education, Undergraduate Programs

Type: State

1999 - present

2000 - 2006

Type: University

Chair, College of Arts and Sciences Secondary Methods Faculty

1998 - 2008

Type: College

**Chair, National Council of Teachers of Mathematics** 

1997 - 1997

Extended Sessions Committee

Type: National

**Consulting, Gross Pointe Schools** 

1996 - present

Type: State

Coordinate, Mathematics Secondary Education, NCATE Accreditation Eastern Michigan

1995 - present

University

Type: University

Consulting, Detroit Public Schools, Ypsilanti, Ann Arbor, Willow Run, Washtenaw Intermediate School, Wayne Intermediate School District, Gross Point.

1995 - 2007

Type: Regional

**Chair, Ohio Council of Teachers of Mathematics** 

1994 - 1997

Type: State

**Grants** 

PI, Math in the City 2011 - 2012

This grant will promote problem solving through field-based mathematics experiences.

Collaboration with: Joanne Caniglia and Scott Courtney

Submitted: \$131,000.00 Status: Awarded

Awarded: \$122,000.00 (1 2011)
Ohio Board of Regents - Training

Co PI, DUE, STEP, National Science Foundation

2010 - 2010

Responsible for Seminars of Faculty and Creator of two CSIE Seminars

Awarded: \$1,500,000.00 (01 2010)
Creative Scientific Inquiry Experience

PI, BUilding on a Foundation of SUCCESS

2010 - 2011

Collaboration with: Joanne Caniglia

Submitted: \$115,000.00 Status: Awarded

Awarded: \$115,000.00 (1 2010)

Ohio Board of Regents

PI, The Kent State University/Warren G. Harding HS Math and Science Partnership

2010 - 2012

Collaboration with: Joanne Caniglia & Michael Mikusa

Submitted: \$218,000.00 Status: Awarded

Awarded: \$218,000.00 (1 2010)
Ohio Department of Education

## Faculty Associate, Campus Youth Partnerships

2009 - 2009

To work with Young Detroit Builders in GED preparation and College Transitions(\$27,000.00 per year).

Awarded: \$27,000.00 Michigan Campus Compact

PI, Project SUCCESS 2009 - 2010

Collaboration with: Joanne Caniglia, Steve Miller

Submitted: \$122,000.00 Status: Awarded

Awarded: \$122,000.00 (1 2009)

Ohio Board of Regents

PI, Texas Instrument 2008 - 2009

Expenses paid for professional development and sets of TI-Nspire calculators for methods classes.

Awarded: \$5,000.00 (0 0)

## PI, Ypsilanti Foundation, Mini Grants

2008 - 2008

Work with Ypsilanti Elementary Schools with Service by the Numbers.

Awarded: \$500.00 (0 0)

#### Faculty Associate, Ypsilanti Foundation, Mini Grants

2008 - 2008

To work with Ypsilanti High school with TI-Nspire workshops and materials.

Awarded: \$500.00

# Co PI, Michigan Department of Education Quality Grant

2004 - 2006

Titile: Enhancing Mathematics for ALL Students Linking Mathematics and Special Education Teachers.

Collaboration with: Paladino, J., Orr, A., Caniglia, J., & Richard, E.

Awarded: \$213,000.00

#### Co PI, National Science Foundation Grant

2002 - 2004

Title: National Digital Library for Middle School Teachers.

Collaboration with: Hoffman E., & Caniglia, J.

Awarded: \$4,000,000.00

## Co PI, Michigan Department of Education Eisenhower Higher Education Grant

2001 - 2002

Title: MATH IN THE CITY: A Teacher Preparation Model Introducing Michigan Benchmarks to Pre-Service Elementary Teachers.

Collaboration with: Duranczyk, I.M., Caniglia, J., Leapard, B.J., and Richard E.

Awarded: \$74,631.00

# Co PI, Michigan Department of Education Eisenhower Higher Education Grant

2000 - 2002

Title: MATH IN THE CITY: A Professional Development Model Linking Teachers with the Michigan Curriculum Framework.

Collaboration with: Caniglia, J., Duranczyk, I.M., Leapard, B.J., and Richard, E.

Awarded: \$38,825.00

## Co PI, Michigan Department of Education Eisenhower Higher Education Grant

2000 - 2002

Title: Southeast Educators' Alliance of Mathematics Linking Emerging Student Scholars (Project SEAMLESS II): A Model for Mentoring across the Continuum of Teacher Development.

Collaboration with: Duranczyk, Caniglia, Zopf, and Rubenstein

Awarded: \$82,000.00

## Co PI, National Science Foundation

1999 - 2002

Title: Preparing Elementary Mathematics Teachers for Success: Implementing a research-based mathematics curricula.

Collaboration with: Caniglia, J., & Duranczyk, I.M.

Awarded: \$97,355.00

# PI, Math in the City Akron

0 - present