



College of Education, Health, & Human Services

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Joanne Caniglia, Ph.D

Associate Professor

TLC

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Education

Ph.D., Curriculum and Instruction 1994

Kent State University

The Transformation and Enactment of Teachers Pedagogical, Content, and Personal Practical Knowledge.

M.Ed., Mathematics Education 1983

Youngstown State University

B.S., Mathematics 1977

John Carroll University

Higher Education Work Experience

Associate Professor 08/2008 - present

Kent State University

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

Other Professional Experience

Assistant Principal, Teacher 1987 - 1991

Our Lady of the Elms High School, Akron, OH

Teacher, Department Chair 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

Caniglia, J. C. (in process - manuscript to be published in the Fall). MAA Voices from the Partner Disciplines II. 2009

Publication: *Journal Articles, Refereed*

Caniglia, J. C., Leopard, B., and Richard, E. (accepted - to be published). Math club: An elementary school-university, *Connect*. 2009

Publication: *Journal Articles, Refereed*

Caniglia, J., & Leopard, B. (accepted). Analyzing the world population: Using population pyramids and If the World Were a Village. *Teaching Statistics*. 2009

Publication: *Journal Articles, Refereed*

Hoffman, E. & Caniglia, J. (February 2009). NCLB and the Teaching of Mathematics, *Mathematics Teacher*, NCTM. 2009

Publication: *Journal Articles, Refereed*

Caniglia, J. C., Paladino, J., Orr, A., & Richard, E., (2007). Interdisciplinary lesson planning: Integrating special education and mathematics content, *Equals Journal*. 2007

Publication: *Journal Articles, Refereed*

Paladino, J., Orr, A., Caniglia, J., Richard, E. (2007). Validating inclusive math practices: Administrative leadership implication. *The John Ben Sheppard Journal of Practical Leadership. Volume 1 (2)*. 2007

Publication: *Journal Articles, Refereed*

Caniglia, J., & Leopard, B. J. (September 2005). Say it, do it, draw it! Teaching conic sections. *Mathematics Teacher: National Council of Teachers of Mathematics*, NCTM: Reston, VA. 2005

Publication: *Journal Articles, Refereed*

Duranczyk, I. M., Leopard, B., Caniglia, J. & Richard, E. (2005). *Math in the city: Connecting mathematics and culture*. (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: *Journal Articles, Refereed*

- Caniglia, J. C. (2004). Math in the city: Experiencing professional development. *Journal of Experiential Learning*, Summer. 2004
Publication: *Journal Articles, Refereed*
- Leopard, B. J. & Caniglia, J. (2004). Teaching outside the lines: After school mathematics, ENC FOCUS ONLINE. 2004
Publication: *Journal Articles, Refereed*
- Caniglia, J. C. & Leopard, B. J. (2003). The value of Pi, Low and High Tech, *Ohio Journal of Mathematics*. 2003
Publication: *Journal Articles, Refereed*
- Caniglia, J., Duranczyk, I. M., Leopard, 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. 2003
Publication: *Journal Articles, Refereed*
- 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. 2003
Publication: *Journal Articles, Refereed*
- 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. 2003
Publication: *Journal Articles, Refereed*
- Duranczyk, I. M., Leopard, B., Richards, E., & Caniglia, J. (2003). Rising starts. In T Armington (Eds.), *Best practices in developmental education: Vol. 2.* (pp. 41-43). Findlay, OH: National Association for Developmental Education. 2003
Publication: *Journal Articles, Refereed*
- Caniglia, J. (2002). Making mathematics in Michigan meaningful: An After-School Math Club. *Michigan Principal*. 2002
Publication: *Journal Articles, Refereed*
- Caniglia, J. (2002). Summary of Mathematician/Mathematics Education Partnerships Working Together: One Example. In *The Mathematical Preparation of Elementary Teachers: Proceedings of the Michigan Mathematics Forum*, Lansing, Michigan. 2002
Publication: *Journal Articles, Refereed*
- Bradley, L. & Caniglia, J. (Summer 2001). Appealing mathematics: Going beyond traditional testing. Eisenhower National Clearinghouse's *FOCUS*. 2001
Publication: *Journal Articles, Refereed*
- Caniglia, J. C. & Buckeye, D. (1999). Lusona: Where mathematics and storytelling meet. *Factorial*, Fall. 1999
Publication: *Journal Articles, Refereed*

- Caniglia, J. C. & Duranczyk, I. M. (1999). Understanding mathematics backwards. In the *National Association of Departmental Educators 1999 Monograph*. 1999
 Publication: *Journal Articles, Refereed*
- Duranczyk, I. M. & Caniglia, J. C. (1998). Student beliefs, learning theories, and developmental mathematics: New challenges in preparing successful college students. In *Developmental Education: Preparing Successful College Students*. Jeanne L. Higbee and Patricia L. Dwinell (Eds.). 1998
 Publication: *Journal Articles, Refereed*

Presentations

- 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 Course*. Athens, Greece, June. 2009
 Type: *International Refereed*
- Ganter, S., Caniglia, J., and Haver, W. (accepted). *Mathematics and the arts - A Report of a CRAFTY Initiative*. MAA/AMS Joint Annual Meeting: Washington, DC. 2009
 Type: *National Refereed*
- Caniglia, J. C. (accepted). *Spring mathematics: The role of leadership*. National Council of Supervisors of Mathematics. Washington D.C. 2009
 Type: *National Refereed*
- Hoft, H., & Caniglia, J. Mathematics on the Horizon of Art. Paper presented at the Bridges International Conference, July, Germany. 2008
 Type: *International Refereed*
- Contis, E. & Caniglia, J. *Attracting and Retaining STEM Majors: A Creative Scientific Inquiry Experience Program*, AACU Conference in Providence RI, November 5 through 8. 2008
 Type: *State Non-Refereed*
- Speaker, *Meals on wheels meets College Algebra and the traveling salesman problem*, MAA/AMS Joint Meeting, January, New Orleans, LA. 2007
 Type: *National Refereed*
- Speaker, *If you build it, they will come!* Michigan Council of Teachers of Mathematics, October, Detroit, MI. 2005
 Type: *State Refereed*
- Speaker, *Shadow geometry*. Michigan Council of Teachers of Mathematics, October, Detroit, MI. 2005
 Type: *State Refereed*
- Speaker, *Alignment of Michigan's Grade Level Content Expectations and Everyday Mathematics Series*, Grade Level Meetings. October. 2004
 Type: *Regional Non-Refereed*

<p>Speaker, <i>Mathematical Literacy</i>, Ann Arbor Middle School Teachers of Mathematics, January 25 through February 2. Type: <i>Regional Non-Refereed</i></p>	2004
<p>Speaker, <i>Ethnomathematics: Connecting Mathematics and Culture</i>, Philadelphia, PA. Type: <i>National Refereed</i></p>	2004
<p>Poster Session, Research Pre-session, AfterMath: An After School Math Program: Research Results. National Council of Teachers of Mathematics, Philadelphia, PA. Type: <i>National Refereed</i></p>	2004
<p>Speaker, Joint Meeting of MAA and AMS, <i>Appealing Mathematics, Evaluation Web Sites for Educators, and Math in the City</i>, January. Type: <i>National Refereed</i></p>	2003
<p>Caniglia, J., Duranczyk, I. M., Leopard, B., and Richards E. (January) MAA Poster Session on Projects Supported by the NSF Division of Undergraduate Education. Joint Mathematics Meeting. Baltimore, MD. Type: <i>National Refereed</i></p>	2003
<p>Duranczyk, I. M., Leopard, 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></p>	2003
<p>Speaker, NCTM, Regional Meeting, <i>Come on Down! Using the Price is Right in the Classroom</i>. Columbus, OH, September 29. Type: <i>State Non-Refereed</i></p>	2001
<p>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. Type: <i>State Non-Refereed</i></p>	2001
<p>Speaker, Critical Issues in Professional Development in VISIT. Geographic Information Systems (GIS) ESRI Conference. San Diego, CA, July 8. Type: <i>National Refereed</i></p>	2001
<p>Speaker, <i>Where the Sidewalk Ends: Mathematics Begins</i> NCTM Annual Meeting, Chicago, IL, April. Type: <i>State Non-Refereed</i></p>	2000
<p>Invited Plenary Speaker, OCTM Meeting, <i>Falling up over mathematics</i>, Toledo, OH, October. Type: <i>State Invited</i></p>	2000
<p>Speaker, <i>Multicultural Mathematics in Metro Detroit</i>, DACTM, Canton Plymouth Schools, November 6. Type: <i>Regional Non-Refereed</i></p>	1999

<p>Speaker, <i>Developmental mathematics students' beliefs</i>, MAA Annual Meeting, January, Baltimore MD.</p> <p>Type: <i>National Refereed</i></p>	1998
<p>Caniglia & Duranczyk. Student Belief, Learning Theories, and Developmental Mathematics. The Joint Mathematics Conference. Baltimore, MD.</p> <p>Type: <i>Regional Non-Refereed</i></p>	1998
<p>Speaker, <i>Shel Silverstein in the early childhood classroom</i>, MCTM Annual Meeting, Lansing, MI, October 3.</p> <p>Type: <i>State Non-Refereed</i></p>	1997
<p>Speaker, <i>Using the CBL in the Middle School Classroom</i>, NCTM, Minneapolis, MN.</p> <p>Type: <i>National Refereed</i></p>	1997
<p>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.</p> <p>Type: <i>National Refereed</i></p>	1996
<p>Speaker, <i>Using the CBL in the undergraduate mathematics classroom</i>, Siena, MI, May 6.</p> <p>Type: <i>State Refereed</i></p>	1996
<p>Speaker, Ohio Council of Teachers of Mathematics, <i>Linking manipulatives and meaning</i>. Cleveland, OH, November 8 and 9.</p> <p>Type: <i>State Non-Refereed</i></p>	1996
<p>Speaker, <i>Escher-type figures in a LOGO environment</i>, MAA Section Meeting, Grand Valley State University, May.</p> <p>Type: <i>State Non-Refereed</i></p>	1995
<p>The Ohio Council of Teachers of Mathematics, Toledo, OH, <i>A Study of mathematical expertise</i>, October.</p> <p>Type: <i>State Non-Refereed</i></p>	1994
<p>Speaker, Midwest Conference on the History of Mathematics, <i>Visualizing summation formula: A historical perspective</i>. Indianapolis, October.</p> <p>Type: <i>Regional Non-Refereed</i></p>	1994
<p>Speaker, Mathematics Symposium, Stark County Teachers, <i>Problem solving in grades 5-8</i>, December 11.</p> <p>Type: <i>Regional Non-Refereed</i></p>	1993
<p>Speaker, Winter Mathematics Conference, Greater Akron Teachers of Mathematics and Greater Canton Teachers of Mathematics, Akron, OH. <i>Visualization in Mathematics</i>, February.</p> <p>Type: <i>Regional Non-Refereed</i></p>	1992

Speaker, *A Historical Approach to PreCalculus* The Regional Meeting of the National Council of Teachers of Mathematics. Columbus, OH, October.

1992

Type: *National Non-Refereed*

Service

Co-chair, Ohio Council of Teachers Annual Meeting

2010 - 2010

Type: *State*

Coordinate, Mathematics Coaching Program, Ohio State University

2008 - present

Type: *University*

Editor, SumMore, Summer Math Activities for Children of Michigan

2008 - 2009

Type: *Regional*

Reviewer, OhioRC, Columbus, Ohio

2008 - 2011

Type: *State*

Coordinate, Knotting Mathematics and Art Conference

2007 - 2007

Type: *University*

NCATE

2006 - present

Type: *College*

Reviewer, Mathematics, 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*

Reviewer, Graduate School

2004 - 2004

Wayne State University. Materials for Tenure and Promotion: Jeremy Zingermann, January 5, 2004, Michael Mikusa, Kent State University.

Type: *University*

Judge, Engineering Society of Detroit

2004 - 2004

Type: *University*

Speaker, Engineering Society of Detroit	2003 - 2003
Type: <i>University</i>	
Coordinate, Pi Day	2002 - 2003
<i>March 14, 2002 and March 14, 2003</i>	
Type: <i>University</i>	
Coordinate, Outreach in Mathematics: A Service to Students, Faculty, and the Community, Eastern Michigan University	2002 - 2002
Type: <i>University</i>	
Co-chair, Science Olympiad	2001 - 2007
<i>Region 9, Washtenaw Community College, March 17, 2001, March 18, 2002, March 20, 2004 to 2007.</i>	
Type: <i>University</i>	
Workshops, GIS for Teachers, Eastern Michigan University	2001 - 2001
Type: <i>University</i>	
Chair, Fourth Rock from the Sun: A Summer Workshop for Science and Mathematics Teachers	2001 - 2001
Type: <i>Regional</i>	
Michigan Department of Education, Undergraduate Programs	2000 - 2006
Type: <i>State</i>	
Reviewer, Program Review and Program Evaluation of University Mathematics	1999 - present
Type: <i>University</i>	
Chair, College of Arts and Sciences Secondary Methods Faculty	1998 - 2008
Type: <i>College</i>	
Chair, National Council of Teachers of Mathematics	1997 - 1997
<i>Extended Sessions Committee</i>	
Type: <i>National</i>	
Consulting, Gross Pointe Schools	1996 - present
Type: <i>State</i>	
Coordinate, Mathematics Secondary Education, NCATE Accreditation Eastern Michigan University	1995 - present
Type: <i>University</i>	
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

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

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

Faculty Associate, Texas Instrument

2008 - 2009

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

Awarded: \$5,000.00

Faculty Associate, Ypsilanti Foundation, Mini Grants

2008 - 2008

Work with Ypsilanti Elementary Schools with Service by the Numbers.

Awarded: \$500.00

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

Title: 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., Leopard, 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., Leopard, 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

Co PI, Michigan Department of Education Eisenhower Higher Education Grant **1999 - 2000**

Title: Southeast Educators' Alliance of Mathematics Linking Emerging Student Scholars

Collaboration with: Caniglia, Duranczyk, Zopf, and Rubenstein.

Awarded: \$84,000.00



EXCELLENCE *in Action*