

## CURRICULUM VITA

Kent State University  
College of Education, Health and  
Human Services  
Room 401 White Hall  
Kent, Ohio 44423

### EDUCATION

- Ph.D.** Kent State University **1994**  
College of Education  
Curriculum and Instruction, Mathematics Education Concentration
- M.Ed.** Youngstown State University **1983**  
College of Education, Secondary Education with Mathematics  
Concentration  
Youngstown, Ohio
- B.S.** John Carroll University **1977**  
Mathematics  
University Heights, Ohio

### ACADEMIC AND PROFESSIONAL POSTITIONS

- August 2008 **ASSOCIATE PROFESSOR**  
– Present Kent State University,  
Teaching, Learning, and Curriculum Studies
- August 2008 **PROFESSOR**  
August 2002 Eastern Michigan University  
Department of Mathematics  
Ypsilanti, MI
- August 2002 **ASSOCIATE PROFESSOR**  
August 1998 Eastern Michigan University  
Department of Mathematics  
Ypsilanti, MI
- August 1998 **ASSISTANT PROFESSOR**  
August 1994 Eastern Michigan University  
Department of Mathematics  
Ypsilanti, MI

1993-1994	<b>FULL TIME, TEMPORARY INSTRUCTOR</b> Kent State University Kent, Ohio
1991-1993	<b>RESEARCH ASSISTANT</b> Kent State University Kent, Ohio
1989-1991	<b>ASSISTANT PRINCIPAL, TEACHER</b> Our Lady of the Elms High School Akron, Ohio
1983-1989	<b>TEACHER, DEPARTMENT CHAIR</b> St. Vincent-St. Mary's High School Akron, Ohio
1980-1981	<b>TEACHER</b> Our Lady of the Elms High School Akron, Ohio
1977-1980	<b>TEACHER</b> Edison Junior High School Niles, Ohio

## **GRANTS AND AWARDS**

### **Grant Awards Pending**

Martens, M.A, Caniglia, J.C. & Rinnehart, G. (Round 2: Request for Revision, 2018)  
USAID Grant: Nigeria.

Mupinga, D. & Caniglia (In Review). Get Real! Creating a Financial Literacy  
Simulation for Middle School Students in Portage County, Martha Holden  
Jennings.

Caniglia, J. C. (Round 2: Request for Revision, 2019) A Family-School Program for  
Students who are Deaf and Hard of Hearing: Zimbabwe. Hear the World  
Foundation.

### **Funded Awards:**

Caniglia, J. & Shelly, A. (2019-2020) Reading Cuddle Time to Support the Reed  
Memorial Library and King Kennedy Center, Shalom Fund, Dominican Sisters of  
Peace (\$2,100).

Soprunova, J & Caniglia J. (2018-2019), Choose Ohio First Grant, in Mathematics, Mathematics Education, and Computer Science. (Funded, \$250,000)

Caniglia, Kent State University Teaching Scholar Award, (2018) Creating a Poverty Simulation Curriculum (\$3,000, Course Release).

Caniglia, J. & Aguirila, R, (2018) NASA Engineering Design Challenge, (Funded: \$2,750).

Caniglia, J. Borgerding, L & Rozner. (2017-2018). Engaging English Language Learners in STEM Classrooms. Ohio Higher Education Department (Funded \$133,000).

Soprunova, J & Caniglia J. (2017-2018), Choose Ohio First Grant, in Mathematics, Mathematics Education, and Computer Science. (Funded, \$250,000)

Caniglia, J., Borgerding, L, Judge, J. (2016-2017) Engaging English Language Learners in STEM Classrooms. OHED (Funded: \$127,000)

Borgerding, L. & Caniglia, J. (2010-2017). Robert E. Noyce Scholarship Grant, National Science Foundation, (Funded, \$1.08 Million)

Caniglia, J., NASA Space Grant, Super Science Saturday, September 2015-June 2016. (Funded \$5,250.)

2015 (PI) Boggess Foundation  
Supplemental Funds for Building on the Foundation of SUCCESS  
(Funded \$2,750).  
<http://faculty.kent.edu/jcanigl1/tenure/Boggess.pdf>

2013- (CoPI) Ohio Department of Education  
2014 The Warren G. Harding/Kent State University Math and Science Partnership  
(Funded) \$253,000.

2010- (PI) Ohio Department of Education,  
2013 The Warren G. Harding/Kent State University Math and Science Partnership,  
(Funded) \$238,000.  
<http://faculty.kent.edu/jcanigl1/reappointment/MSP.pdf>

2011- (PI) Ohio Board of Regents  
2012 Math in the City/Akron Funded \$138,000.

2010- Ohio Board of Regents  
2011 (PI) Building on the Foundation of Project SUCCESS: Making Mathematics

- Accessible for ALL Students. A Kent State University/ Akron Public Schools Partnership. <http://faculty.kent.edu/jcanigl1/tenure/Building.pdf> (Funded, \$115,000).
- 2008-2011 Ohio Mathematics Coaching Grant (Senior Personnel), Facilitator of eight coaches, Warren City Schools <http://faculty.kent.edu/jcanigl1/tenure/OhioMathCoachingProgram.pdf> (KSU received \$48,000).
- 2009-2010 Ohio Board of Regents <http://faculty.kent.edu/jcanigl1/reappointment/ProjectSUCCESS.pdf> Project SUCCESS: Making Mathematics Accessible to ALL Students. A Kent State University/Akron Public Schools Partnership (Funded \$122,000).
- 2008 Texas Instruments Expenses paid for professional development and sets of TI-Nspire calculators for methods classes. <http://faculty.kent.edu/jcanigl1/tenure/TIAcceptance.pdf> (\$5,000).
- 2008 Ypsilanti Foundation, Mini Grants <http://faculty.kent.edu/jcanigl1/reappointment/NSpiring.pdf> Wrote the grant and worked with Ypsilanti High School with TI-Nspire workshops and materials (\$500).
- 2008 Ypsilanti Foundation, Mini Grants <http://faculty.kent.edu/jcanigl1/reappointment/AfterSchoolMath.pdf> Wrote the grant and worked with Ypsilanti Elementary Schools with Service by the Numbers (\$500).
- 2007-2009 Michigan Campus Compact, Campus Youth Partnerships <http://faculty.kent.edu/jcanigl1/reappointment/CampusPartnersCaniglia.pdf> To work with Young Detroit Builders in GED preparation and College Transitions (\$27,000 per year).
- 2005-2010 Creative Scientific Inquiry Experiences <http://faculty.kent.edu/jcanigl1/reappointment/NSFCSIEGrantAnnualReport.pdf> DUE, STEP, National Science Foundation Co-PI Responsible for Seminars of Faculty and Creator of two CSIE Seminars (\$1,400,000).
- 2004-2006 Michigan Department of Education Teacher Quality Grant Paladino, J., Orr, A., Caniglia., & Richards, E. (Oct 2004-Dec. 2006)

(\$213,000)  
Title: Enhancing Mathematics for Diverse Learners.  
Linking Mathematics and Special Education Teachers

- 2002-  
2004 National Science Foundation Grant  
Hoffman E., & Caniglia, J., (July 2002-2005) (\$400,000)  
Title: National Digital Library for Middle School Teachers
- 2001-  
2003 Michigan Department of Education Eisenhower Higher Education Grant  
Duranczyk, Caniglia, Leopard, & Richards (Oct 2001- Dec 2002)  
(\$74,631) Title: MATH IN THE CITY: A Teacher Preparation Model  
Introducing Michigan Benchmarks to Pre-Service Elementary Teachers
- 2000-  
2002 Michigan Department of Education Eisenhower Higher Education Grant  
Caniglia, Duranczyk, Leopard, & Richards (Oct 2001-Dec 2002) (\$38,825)  
Title: MATH IN THE CITY: A Professional Development Model Linking  
Teachers with the Michigan Curriculum Framework.
- 2001 Michigan Campus Compact Grant.  
Caniglia, J.C. (September 1, 2001).  
Title: Building on a Dream of Geometry. (\$2,000).  
<http://faculty.kent.edu/jcanigl1/tenure/BUILDDream.pdf>
- 2000-  
2002 Michigan Department of Education Eisenhower Higher Education Grant  
Duranczyk, Caniglia, Zopf, & Rubenstein. (Oct 2000- Dec 2001) (\$82,000)  
Title: Southeast Educators' Alliance of Mathematics Linking Emerging  
Student Scholars (Project SEAMLESS II): A Model for Mentoring across the  
Continuum of Teacher Development.  
<http://faculty.kent.edu/jcanigl1/reappointment/SEAMLESS.pdf>
- 1999-  
2002 National Science Foundation  
Caniglia & Duranczyk, (Aug 1999- Aug 2002) (\$97,355) Title: Preparing  
elementary mathematics teachers for success: Implementing a research-  
based mathematics curricula.  
<http://faculty.kent.edu/jcanigl1/tenure/CCLI.pdf>
- 1999-  
2001 Michigan Department of Education Eisenhower Higher Education Grant  
Caniglia, Duranczyk, Zopf, & Rubenstein. (Oct 1999- Dec 2000) (\$84,000)  
Title: Southeast Educators' Alliance of Mathematics Linking Emerging  
Student Scholars (SEAMLESS).  
<http://faculty.kent.edu/jcanigl1/tenure/SEAMLESS.pdf>
- 1994-  
1997 National Science Foundation  
Environmental Summer Science Camp  
Caniglia, Liggitt, & Richards (\$227,000).

Title: Summer Science Camp at Eastern Michigan University.  
<http://faculty.kent.edu/jcanigl1/tenure/HenryFord.pdf>

## **BOOKS**

Teaching Financial Literacy through the Lens of Self-Determination: A Resource Book for Teachers of Students with Intellectual and Developmental Disabilities (In Review). Caniglia, Michali, Kenyon, and Miller

Strengthening Classroom Practice using Data Analysis, (2017) Giancola, J., Caniglia, J., Paulus, L., Gates, J. Wheatmark Publishing.

## **CHAPTERS**

Caniglia, J. (2016). Writing to Learn Mathematics through Formulating Problems. In *Pump It Up* (pp. 105-109). Sense Publishers.

Caniglia, J. (2014). Getting to Know You: A Simulation to Understand School Context Activity 16. *From the Margins to the Mainstream: Enhancing Social Awareness in the Social Studies Classroom*.

## **EDITED RESOURCE BOOKS**

Caniglia, J. (2006) Grade 1: SumMore Math, Mathematics Activity Workbook Grade 1. Michigan Council of Teachers of Mathematics.

Rice, D.L., Hurst, K. & Caniglia, J. (Eds.). (August 2001). Learning with a purpose: Academic service-learning curriculum. Ypsilanti, MI: Eastern Michigan University.

## **ARTICLES in REFEREED JOURNALS**

### **National and International Journals:**

Davison, & Caniglia (Revision Requested). Students' Reflections on the Benefits of a Financial Simulation Through Thank You Notes, *Clearing House*.

Caniglia, J. & Meadows, M. (In Review). Teaching the Engineering Design Process Through NASA's Engineering Classroom Challenges, *Journal of Pre-College Engineering Education Research*

- Caniglia J.C. & Davison, (In Review). Middle School Students' Experiences of a Financial Literacy Simulation, *Journal of Financial Education*.
- Meadows, M., Micalli Y, & Caniglia, J, (In Review) What Parents Tell Their Children of Financial Literacy, Career Development, Transition for Exceptional Students Journal
- Meadows, M. & Caniglia, J (In Review). That Was Then, This is Now, Research in Mathematics Education Journal.
- Meadows, M. & Caniglia J.C. (Accepted, 2019) PhET Simulations in the Mathematics Classroom, *Mathematics Teacher*.
- Caniglia, J., & Meadows, M. (2018). Pre-Service Mathematics Teachers' Use of Web Resources. *International Journal for Technology in Mathematics Education*, 25(3).
- Meadows M.M & Caniglia, (Accepted, 2018) Malcolm Swan: A Designer of Meaningful Mathematics. A Tribute from American Educators. *Mathematics Teaching*.
- Meadows, M & Caniglia J.C. (Accepted, 2018). *Where is the Math in Science Olympiad?* Science Educator.
- Caniglia, J.C. (Accepted, 2018). Teaching Functional Mathematics Skills to Refugees: The importance of expanding a single story, *Adults Learning Mathematics*, Special Issue.
- Caniglia, J. C., & Meadows, M. (2018). An Application of the Solo Taxonomy to Classify Strategies Used by Pre-Service Teachers to Solve "One Question Problems". *Australian Journal of Teacher Education*, 43(9), 75-89.
- Caniglia, J.C. & Borgerding (Accepted, 2018). Give Me a Break! A STEM Winter Break Bag That Is! A Strategy to Encourage Home Communication of STEM Content for English Language Learners. *TESL Reporter*.
- Caniglia J. C. & Michalli, Y (2018). A Financial Literacy Course for Students in Postsecondary Transition Program. *International Journal of Postsecondary Transition*.
- Meadows, M. L., & Caniglia, J. (2018). Co-teacher noticing: implications for professional development. *International Journal of Inclusive Education*, 22(12), 1345-1362.
- Caniglia, J. C. (2018). Weaving Mathematical Concepts through Native American Baskets. *Mathematics Teaching in the Middle School*, 23(6), 352-352.

- Caniglia, J. C. Meadows, M. (2018). Taxing problems, *Teaching Mathematics in Middle School*
- Courtney, S. A., & Caniglia, J. (Spring 2018). Comparing the mathematical practices pre-service teachers and mathematics teacher educators identified as relevant to problems and tasks. *The Professional Educator*.
- Caniglia, J. C., Borgerding, L., & Meadows, M. (2017). Strengthening Oral Language Skills in Mathematics for English Language Learners Through Desmos® Technology. *International Journal of Emerging Technologies in Learning (iJET)*, 12(05), 189-194.
- Borgerding, L. A., & Caniglia, J. (2017). Service learning within a secondary math and science teacher education program: Preservice MAT teachers' perspectives. *School Science and Mathematics*, 117(1-2), 63-75.
- Caniglia, J.C. (2017). Prove That! Teaching Proof to ALL Students, *Mathematics in Schools*.
- Caniglia, J. C., Borgerding, L., & Courtney, S. (2017). AHA Moments of Science and Mathematics Pre-service Teachers. *The Clearing House: A Journal of Educational Strategies, Issues and Ideas*, 90(2), 53-59.
- McConnell, M., & Caniglia, J. (2016). Math Rocks! *Mathematics Teaching in the Middle School*, 21(6), 384-387.
- Caniglia, J. (2016). Euclid, the Game! for Virtual Mathematics Teams. *North American GeoGebra Journal*, 5(1).
- Frederick, M. L., Courtney, S., & Caniglia, J. (2014). With a little help from my friends: scaffolding techniques in problem solving. *Investigations in Mathematics Learning*, 7(2), 21-32.
- Caniglia, J.C. & Frederick, M.L. (2013). Scaffolding techniques that support special needs students. Proceedings: Psychology of Mathematics Education, North America. Chicago, IL.
- Caniglia J.C. (2012). Visualizing mathematics by importing Images to Geogebra, *MathAMATYC Educator*  
<http://faculty.kent.edu/jcanigl1/tenure/Visualizing.pdf>  
<http://faculty.kent.edu/jcanigl1/tenure/GeogebraAcceptance.pdf>



Iafelice, M., Rudolph E. and Caniglia J.C (2011). *Finger Exercises and Brain Gymnastics: The Art and Mathematics of M.C. Escher*. Akron, Art Museum, Akron, Ohio (Invited)

Caniglia, J.C. (Fall, 2010). The Arts. CRAFTY Curriculum Foundations Project, Mathematics Association of America. Invited.

<http://faculty.kent.edu/jcanigl1/tenure/CRAFTY.pdf>

Caniglia, J., & Leopard, B. (2012). Get Real: Teaching Financial Literacy Through Internet Sites. *Meridian*, 12(2).

<http://www.ncsu.edu/meridian/summer2009/index.html>

Caniglia, J., & Leopard, B. (Spring, 2010). Analyzing the world population: Using population pyramids using *If the World Were a Village*. *Teaching Statistics*. 32 (2), 41-45.

<http://faculty.kent.edu/jcanigl1/tenure/TeachingStatistics.pdf>

Hoft, H, & Caniglia, J. (Aug/Sept. 2009). The mathematics and the art project: The Curriculum Foundations Workshop. *MAA Focus* 8-9.

<http://www.maa.org/pubs/augsept09pgs8-9.pdf> (Invited)

Caniglia, J.C., Leopard, B., & Richards, E. (January-February 2009). Math club: An elementary school-university partnership within a mathematics methods class, *Connect*. 11-14.

<http://faculty.kent.edu/jcanigl1/reappointment/Math Club.pdf>

Hoffman, E. & Caniglia, J. (2009). In their own words: Good mathematics teachers in the era of NCLB *Mathematics Teacher*, 102(6): 468-473.

<http://faculty.kent.edu/jcanigl1/tenure/InTheirOwnWords.pdf>

Hoffman, E., & Caniglia, J. (2009). In their own words: Good mathematics teachers in the era of NCLB. *Virginia Mathematics Teacher*, 36(1): 12-16. Requested by the Virginia Council of Teachers of Mathematics.

[http://www.vctm.org/Archived%20Journals/VCTM\\_Fall09.pdf](http://www.vctm.org/Archived%20Journals/VCTM_Fall09.pdf)

Caniglia, J. C, Paladino, J., Orr, A., & Richards, E. (2007). Interdisciplinary lesson planning: Integrating special education and mathematics content, *Equals Journal*. 13(2:) 18-

2624 <http://faculty.kent.edu/jcanigl1/tenure/Interdisciplinary.pdf>

Paladino, J., Orr, A., Caniglia, J., & Richards, E. (2007) Validating inclusive math practices: Administrative leadership implication. *The John Ben Sheppard Journal of Practical Leadership*. Volume 1(2).117-126.

<http://faculty.kent.edu/jcanigl1/tenure/Validating.pdf>

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. Volume 99, (3), 152-157.

<http://faculty.kent.edu/jcanigl1/reappointment/DrawItWriteItDoItNCTMArticle.pdf>

Duranczyk, I. M., Leopard, B., Caniglia, J., & Richards, 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://faculty.kent.edu/jcanigl1/tenure/Mathinthecity2.pdf>

Leopard B. J. & Caniglia, J. (2004). Teaching outside the lines: After school mathematics, *ENC FOCUS ONLINE*

<http://faculty.kent.edu/jcanigl1/tenure/OutsideLines.pdf>

Duranczyk, I. M., Leopard, B., Richards, E., & Caniglia, J. (2003). Rising stars. In T. Armington (Ed.), *Best practices in developmental education*: Vol. 2, 41-43(Invited). Findlay, OH: National Association for Developmental Education.

<http://faculty.kent.edu/jcanigl1/tenure/bp2a.pdf>

Caniglia, J.C. (2003). Math in the city: Experiencing mathematics through visiting black historic sites *Journal of Experiential Education*, 26 (2), 70-74.

<http://faculty.kent.edu/jcanigl1/tenure/MathintheCity.pdf>

Caniglia, J. C. & Leopard, B. J. (2003). The value of pi, low and high tech, *Ohio Journal of Mathematics*.

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

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

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

Caniglia, J. (2002). Making mathematics in Michigan meaningful: An After-School Math Club. *Michigan Principal*, p.1, 15. Invited.

<http://faculty.kent.edu/jcanigl1/tenure/MakingMathMeaningful.pdf>

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.  
<http://faculty.kent.edu/jcanigl1/tenure/TeacherExchangeProgram.pdf>

Bradley, L. & Caniglia, J. (Summer 2001). Dear Mrs. B., Please Reconsider.... Eisenhower National Clearinghouse's *FOCUS*, 8 (3), 16-18.  
<http://faculty.kent.edu/jcanigl1/tenure/AppealingMath.pdf>

Caniglia, J. C. & Buckeye, D. (1999). Lusona: Where mathematics and storytelling meet. *Factorial*, Fall. 25-28.

Caniglia, J.C. & Kasten, P. (1999). Multicultural Mathematics: A university/K-12 museum partnership. *Mathematics teacher*, 92 (4), 376.

Caniglia, J. C. & Duranczyk, I.M. (1999) Understanding mathematics backwards. In the *National Association of Developmental Educators 1999 Monograph*.  
<http://faculty.kent.edu/jcanigl1/tenure/Backwards.pdf>

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.).  
<http://faculty.kent.edu/jcanigl1/tenure/TeacherBeliefs.pdf>

#### **PUBLISHED CONFERENCE PROCEEDINGS (PEER REVIEWED)**

Meadows, M & Caniglia (2018) Using SOLO taxonomy with preservice teachers in solving problems. *Proceedings of the 39<sup>th</sup> annual meeting of the North American Chapter for the Psychology of Mathematics Education, Indianapolis IN*.

Caniglia, J. C. (2018) Teaching Immigrant and Refugee Women Basic Functional Mathematics. *Proceedings of the Adults Learning Mathematics Conference*,

Caniglia, J.C. (2016) Beliefs and Perceptions of Personal Finance Among Students with Intellectual Disabilities and Their Parents, *Academy of Business Education*.

Mikusa, M. Caniglia, J, & Courtney, S. (2013). The path of reform in secondary mathematics classrooms, Some Issues and Some Hope. In Reeder, S. L. and Matney, G. T. (Eds.). *Proceedings of the 40th Annual Meeting of the Research Council on Mathematics Learning*. Tulsa, OK

## **PROFESSIONAL PRESENTATIONS (PEER-REVIEWED):**

### **INTERNATIONAL (Peer Reviewed):**

Caniglia, J. (2017). Teaching Refugee Adults Functional Mathematics, Adults Learning Mathematics Conference, The Netherlands, July 2017.

Caniglia, J (2017). Scaffolding Techniques with Adult GED Students. Adults Learning Mathematics, The Netherlands, July 2017.

Caniglia, J. & Contis, E. *The Traveling Salesman Solves a Meals on Wheels Problem: Utilizing Academic Service Learning in an Integrated Algebra and Computer Science Course. ATINER International Mathematics Conference, Athens, Greece, June 2009.*

<http://faculty.kent.edu/jcanigl1/tenure/ATINERInternationalMathematicsConference.pdf>

Hoft, H., & Caniglia, J. Mathematics on the Horizon of Art. Paper presented at the Bridges International Conference. Germany, July 2008.

<http://faculty.kent.edu/jcanigl1/tenure/BRIDGESLEEWARDEN.pdf>

### **NATIONAL (Peer Reviewed):**

Caniglia, J.C. (2018). Examining the Effectiveness of a Financial Literacy Course for students with Disabilities, Council of Economic Education, Atlanta, Georgia.

Caniglia, J.C. & Borgerding, L, (2018). The Impact of Service Learning Through the Service Providers Perceptions, National Science Foundation. Washington DC.

Caniglia J.C. & Borgerding, L (2018) Noyce Intern Panel, National Science Foundation, Wahsington, DC Panelist.

Caniglia, J.C. (2018) Financial Literacy through the Lens of Self Determination Council of Economic Education Annual Conference (Atlanta, GA,)

Caniglia, J.C. (2018). Teaching Academic Language through Technology, National Council of Teachers of Mathematics. Washington D.C.

Caniglia, J.C. (2017). Financial Literacy for Youth with Disabilities (National Conference of Finance Educators, Savannah, Georgia.

Caniglia, J.C. & M. Meadows (2017). Psychology of Mathematics Education-North America. Inclusion Specialists and Teacher Noticing.

- Caniglia, J.C. (2016). Mathematical modeling in service of community, or teaching without answers in the back of the book. Joint Meeting of the Mathematical Mathematics Association of America and the American Mathematics Society. Seattle WA: January 6-10, 2016.
- Caniglia, J. C. (2015). Review of Materials of Financial Literacy. Council of Economic Education. St. Petersburg, FL. October 8-10.
- Caniglia, J.C (April 2010) The role of a mathematics coaching in context, *National Council of Teachers of Mathematics Research Pre-session*, San Diego, CA, <http://faculty.kent.edu/jcanigl1/tenure/NCTMPreSessionAbstract.pdf>
- Caniglia, J.C. (February, 2010). But it isn't fair! Pre-service mathematics teachers' beliefs toward inclusion. *Research in Undergraduate Mathematics Education*: Raleigh NC. <http://faculty.kent.edu/jcanigl1/tenure/RUME.pdf>
- Caniglia, J.C. (January, 2010). *A Picture is Worth a Thousand Words—In Geogebra*. MAA/AMS Joint Annual Meeting: San Francisco, CA. <http://faculty.kent.edu/jcanigl1/tenure/AMSMeetingAbstract.pdf>
- Caniglia, J.C. (February, 2010): *The role of experiential education in terms of retention: Does it really work?* Lilly Foundation Los Angeles, CA. <http://faculty.kent.edu/jcanigl1/tenure/LILLY.pdf>
- Caniglia, J. C. (April 2009). *NSpiring mathematics: The role of leadership* National Council of Supervisors of Mathematics. Washington D.C. <http://faculty.kent.edu/jcanigl1/tenure/NCSM.pdf>
- Ganter, S., Caniglia, J., & Haver, W. (January, 2009). *Mathematics and the arts—A Report of a CRAFTY Initiative*. MAA/AMS Joint Annual Meeting: Washington DC. <http://faculty.kent.edu/jcanigl1/tenure/MAAAMJointMeeting2009.pdf>
- Contis, E. & Caniglia J. (2007). *Attracting and retaining STEM Majors: A Creative Scientific Inquiry Experience Program*, AACU Conference in Providence RI, November 5-8<sup>th</sup>.
- Contis, Ellene Tratras, Joanne Caniglia, and Kathleen Stacey. "CHED 131-Creative scientific inquiry experience: Developing an integrated science curriculum." *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY*. Vol. 232. 1155 16TH ST, NW, WASHINGTON, DC 20036 USA: AMER CHEMICAL SOC, 2006.

Caniglia, J. C., (2005). *Ethnomathematics: Connecting Mathematics and Culture*, National Council of Supervisors of Mathematics, Philadelphia, PA.

Caniglia, J. C., (2004) Joint Meeting of MAA and AMS, *Appealing Mathematics, Evaluating Web Sites for Educators, and Math in the City*. San Diego, CA.

Duranczyk, I.M., Leopard, B., Richards, E., & Caniglia, J. (January 2003) Math in the City: Teacher Professional Development through Black Historic Sites. Joint Mathematics Meeting. Baltimore, MD.

Caniglia, J. C., Duranczyk, I.M., Leopard, B., & Richards E., (January 2003) MAA Poster Session on Projects Supported by the NSF Division of Undergraduate Education. Joint Mathematics Meeting. Baltimore, MD.

Caniglia, J. C., (July 8, 2001) *Critical Issues in Professional Development in VISIT. Geographic Information Systems (GIS)* ESRI Conference. San Diego, CA,

Caniglia, J. C., (April, 2000) *Where the Sidewalk Ends: Mathematics Begins*, NCTM Annual Meeting, Chicago, IL.

Caniglia J.C., & Duranczyk. (1998). Student Belief, Learning Theories, & Developmental Mathematics. The Joint Mathematics Conference. Baltimore, Maryland,

Caniglia, J.C., (1997) Speaker, *Using the CBL in the Middle School Classroom*, NCTM, Minneapolis, MN.

Caniglia, J. C., (September 8, 1996) Conference on Research on Undergraduate Mathematics Education, *Understanding mathematics and physical concepts with calculator based laboratory measurement tools*, Central Michigan University, Mt. Pleasant, MI,

Caniglia, J.C. (October, 1994) Conference on the History of Mathematics, *Visualizing summation formulae: A historical perspective*. Indianapolis, IN.

## **STATE and REGIONAL**

Caniglia, J.C. (Nov. 2018). Strategies for English Language Learners. (Invited). Cleveland Multilingual/Multicultural Conference.

Caniglia, J.C. (October 19, 2018). Community Engagement from The Perspective of The Nonprofit Agency. Refereed Roundtables. University Teaching Council Conference.

Caniglia, J.C. (October 19, 2018). Got Online Tools (for Learning and Teaching)!



- Poster Session. University Teaching Council Conference.
- Meadows, M. & Caniglia, J.C. (October, 2018) Flipping Your Mathematics Classroom Using TedEd. Ohio Council of Teachers of Mathematics, Akron, Ohio.
- Caniglia, J.C. (October 10, 2018). Differentiation with Questions, Cleveland Multicultural/Multilingual Center for Cleveland Metropolitan Schools. (Invited)
- Caniglia, J.C. (2018) Desmos and the Ohio Test in Mathematics, Canton Local Schools (invited),
- Caniglia, J.C. and Hubert, S. (2018) Academic Language Research and Practice, Multilingual, Multicultural Conference, Cleveland Metropolitan School District, Cleveland, February 16, 2018
- Caniglia, J.C. & Meadows (2018) Using TedEd for 3-Act Tasks. Ohio Council of Teachers of Mathematics.
- Meadows, M.L. & Caniglia, J.C. (2018) Using TedEd for Flipping the Classroom, Tiffin University Research on Teaching Conference.
- Caniglia, J.C. (2017). Using Barrier Games in the ELL Classroom. Multilingual, Multicultural Cleveland Metropolitan Schools Conference.
- Caniglia, J.C. (2017). The Use of Technology for the Development of Academic Language in Mathematics, Ohio Council of Teachers.
- Caniglia, J.C. (2016) Strategies for English Language Speakers. Ohio Council of Teachers of Mathematics, Sandusky, Ohio
- Caniglia, J.C. (2016) The Importance of Being Fluent in Mathematics, Greater Akron Mathematics Educators Association, Keynote Speaker.
- Caniglia, J.C., (October 12, 13, 14, 2010). Special Interest Group, Math and Special Education, OCTM, Facilitator, Joanne Caniglia.
- Caniglia, J.C., (August 11,12, 2010). Invited Speaker. KEEP Summer Academy, Stow Munroe Falls High School.
- Caniglia J. C. (October 29, 2009): *Funding Initiatives for Service Learning: University of Akron*. Conference on Service Learning.
- Caniglia, J.C. (October, 2009). *Ideas and activities for the TI Nspire*. Ohio Council of Teachers of Mathematics, Cincinnati Ohio.
- Caniglia, J. C., (January 2009). *Where the sidewalk ends, math begins: Shel Silverstein in the mathematics classroom*. Invited Keynote Speaker, Greater Akron Mathematics Educators Society.
- Caniglia, J. C., (January 2009). *How Difficult Can This Be: Teaching ALL Children in*

*Mathematics.* Greater Akron Mathematics Educators Society.

Caniglia, J.C. (October 2005). *If you build it, they will come!* Michigan Council of Teachers of Mathematics, Detroit, MI.

Caniglia, J. C., (October 2005). *Shadow geometry.* Michigan Council of Teachers of Mathematics, Detroit, MI.

Caniglia, J. C., (October, 2004). *Alignment of Michigan's Grade Level Content Expectations and Everyday Mathematics Series,* Grade Level Meetings.

Caniglia, J. C., (January 25, 2004). *Mathematical Literacy,* Ann Arbor Middle School Teachers of Mathematics,

Caniglia, J. C., NCTM, (October, 2003). Regional Meeting, *Come on Down! Using the Price is Right in the Classroom.* Columbus, Ohio,

Caniglia, J. C., (May 5, 2001). *Using the Black Historic Sites Tour as a Model for Professional Development,* African American Child Symposium: Creating A Learning Environment for Self-Determination, Detroit, MI.

Caniglia, J. C., (October 19, 2000). Invited Plenary Speaker, OCTM Meeting, *Falling up over mathematics,* Toledo, OH,

Caniglia, J. C., (November 6, 1999). *Multicultural mathematics in Metro Detroit,* DACTM, Canton Plymouth Schools,

Caniglia, J. C., (October 1998). *A Historical Approach to PreCalculus,* The Regional Meeting of the National Council of Teachers of Mathematics. Columbus, Ohio,

Caniglia, J.C., (Oct. 3, 1997). *Shel Silverstein in the early childhood classroom,* MCTM Annual Meeting, Lansing Michigan.

Caniglia, J. C., (May 6, 1996). *Using the CBL in the undergraduate mathematics classroom,* Siena, MI,

Caniglia, J. C., (Nov. 8-9, 1996). Ohio Council of Teachers of Mathematics, *Linking manipulatives and meaning.* Cleveland, Ohio,

Caniglia, J. C., (May 1995). *Escher-type figures in a LOGO environment,* MAA Section Meeting, Grand Valley State University,

Caniglia, J. C., (October, 1994). The Ohio Council of Teachers of Mathematics, Toledo, Ohio, *A Study of mathematical expertise,*



Caniglia, J. C., Mathematics Symposium, Stark County Teachers, *Problem solving in grades 5-8*, December 11, 1993

Caniglia, J. C., Winter Mathematics Conference, Greater Akron Teachers of Mathematics and Greater Canton Teachers of Mathematics, Akron, Ohio. *Visualization in Mathematics*, February, 1992.

### **Courses Taught**

#### **Kent State University**

Improving Mathematics for Secondary Teachers –ADED 52268

Mathematics Methods for Secondary Teachers I—ADED 32268  
<http://faculty.kent.edu/jcanigl1/tenure/ADED32268Syllabus.pdf>

Mathematics Methods for Secondary Teachers II—ADED 42268  
<http://faculty.kent.edu/jcanigl1/tenure/ADED42268.pdf>

Field Practicum-ADED 42292  
<http://faculty.kent.edu/jcanigl1/tenure/Practicum.pdf>

Inquiry Seminar—ADED 49525

Differentiating Instruction—Summer Course for Akron Teachers

Teaching Mathematics in the Elementary and Middle Schools. C&I 4/54071

#### **Eastern Michigan University**

Mathematics for Elementary Teachers I—Math 108  
**Mathematics Methods for Elementary Teachers –Math 381/581**

Mathematics Methods for Secondary Teachers—Math 306/506

Geometry for Elementary Teachers—Math 240/540

Algebra for Elementary Teachers—Math 210/510

Computers and Calculators for Teachers—Math 382/582

Graduate Course: Methods and Content in Secondary Mathematics—Math 588

Graduate Course: Mathematics Enrichment—Math 587  
Graduate Course: Geometry for Secondary Teachers—Math 589

Graduate Advisor: Numerous Independent Studies

Interdisciplinary Team: Life's a Risk (Then You Die!)-- CAS 179

**Dissertation Committees:** (NOTE: EMU does not have a Ph.D. Program in Mathematics nor Mathematics Education, only Leadership and Technology—Caniglia was the graduate representative from Mathematics).

## **DISSERTATION**

Kenyon, Cynthia (2018) CAN DIRECT INSTRUCTION AND VIDEO MODELING INCREASE THE LITERACY AND UNDERSTANDING OF SELF DETERMINATION IN STUDENTS WITH INTELLECTUAL DISABILITIES? (Outside Member.

Martin, Karl, (2018). EXPLORING CURRICULUM LEADERSHIP CAPACITY-BUILDING THROUGH BIOGRAPHICAL NARRATIVE: A CURRENT CASE STUDY (Graduate Faculty Representative)

Alsaghiar, Ahmed, A. THE IMPLEMENTATION OF THE COMMUNICATIVE LANGUAGE TEACHING APPROACH ACROSS SIX FOREIGN LANGUAGES (Graduate Representative, 2018)

Fye, Marissa, UNDERSTANDING HOW COUPLES MAINTAIN MONOGAMY: THE DEVELOPMENT OF A THEORY OF PROTECTIVE FACTORS USING GROUNDED THEORY (Graduate Representative, 2018)

Novak, Melissa (2017) CASE STUDIES LISTENING TO STUDENTS USING KINESTHETIC MOVEMENT WHILE LEARNING TO GRAPH LINEAR FUNCTIONS (director, 2017).

Sobolewski-Mcmahon, L. (2017). THE INFLUENCES OF MIDDLE SCHOOL MATHEMATICS TEACHERS' PRACTICAL RATIONALITY ON INSTRUCTIONAL DECISION MAKING REGARDING THE COMMON CORE STATE STANDARDS FOR MATHEMATICAL PRACTICES. (co director, 2017)

Hendrixson, L. (May 2017). CONNECTIONS BETWEEN THE NUMBER OF CONSTITUENTS AND THE DERIVED LENGTH OF A GROUP (Outside Member)

Curry, J. (August, 2016). A QUALITATIVE CASE STUDY OF PEER-TUTRING DEVELOPMENTAL MATHEMATICS AS THE UNIVERSITY LEVEL (Doctoral dissertation, Kent State University).

Meadows, M. (May,2016). A CASE STUDY ON CO-TEACHING WITHIN A SEVENTH- GRADE MATHEMATICS CLASSROOM (Doctoral dissertation, Kent State University).

McConnell, M. K. (December, 2015). SECONDARY MATHEMATICS PRESERVICE TEACHERS' BEGINNING STORY (Doctoral dissertation, Kent State University).

Stone, J. C. (August, 2015). THE FORMATION OF SELF-CONSTRUCTED IDENTITY AS ADVANCED MATHEMATICAL THINKER AMONG SOME FEMALE PH. D HOLDERS IN MATHEMATICS AND THE RELATIONSHIP TO THE "THREE-WORLDS" COGNITIVE MODEL OF ADVANCED MATHEMATICAL THINKING (Doctoral dissertation, Kent State University).

Michali, Y. E. (2014). INCREASING TEACHER AWARENESS OF SELF-DETERMINATION. Kent State University.

Ellen Brook, COMMUNITY COLLEGE STUDENTS' METHODS OF SOLVING PROBLEMS. (KSU, Co-Director with Michael Mikusa, 2010).

Terri Tehran, GIFTED MATHEMATICS STUDENTS AND TRANSACTIONAL WRITING. (KSU, Co-Director with Susan Iverson, 2010).

Sean Yee, PROBLEM SOLVING. (KSU, Co-Director with Anne Reynolds. Started: July 2010.)

Sarah Koebly, TEACHER PROFESSIONAL LEARNING COMMUNITIES IN MATHEMATICS,(KSU, Co-Director with Dr. Joanne Arhar, Started: June 2010).

Cynthia Brennan, Ratio and Proportion in College Aged Students, (KSU, Co-Director with Dr. Michael Mikusa, Started: May 2010).

Ellen Mulqueeny, APOS Theory Applied to Logarithms. (KSU, CoDirecting with Dr.

Michael Mikusa, Started: 2009).

Lee Martin, *Ministers' perceptions of their own death*. (KSU, Defended proposal), Outside member. 2008-2009.

Jo Warner, *Describing innumeracy from developmental mathematics students' perspectives*, Grambling University, 2000-2001.

Lori Zahart, *Program evaluation of high school reform math programs In a Michigan School District*. Eastern Michigan University, 2001-2002.

Marcia Mardis. *A correlation study between science teachers and media specialists*, Eastern Michigan University, 2003-2004.

**Master Thesis:**

Admiraal, Matthew (2007). Incorporating Problem Solving into the Eighth Grade Mathematics Curriculum.

Bateson, Linda (2006). A Presentation to the Wayne Westland School District: Demographic Information

Bjorkland, David (2006). Graphing Calculator Skills for Secondary Teachers and Students.

Dickhoff, Tara (2005). Differentiation of a Fourth Grade Geometry Unit.

Dodge, Jennifer (2005). Review of the Literature on Gender Equity in the Mathematics Classroom.

Elias, Deborah (2004). Eighth Grade Architects.

Feldkamp, John (2003). Effectiveness of PowerPoint in the Math Classroom.

Inosencio, Kelly (2002). Finding a Balance Between Basic Skills and Conceptual Understanding.

Sanders, Anne Marie (2002). Incorporating a Communication Focused Curriculum in Algebra I.

Simpson, J.A. (2000). Incorporating the Internet in the Regular Education Middle School Classroom.

## **SELECTED SERVICE TO THE PROFESSION**

### **National**

Reviewer, National Council of Teachers of Mathematics, Research Pre-session, 2018.

NSF Reviewer, NOYCE, 2017

Lead Reviewer, CAEP, 2014-present.

Reviewer, CAEP, 2008-2014

Reviewer, Psychology in Mathematics Education, 2015-2017

Reviewer, Peer Reviewed Papers for the Research Pre-session of the National Council of Teachers of Mathematics. (August 2010).

Co-organizer, Knotting Mathematics and Art Conference. (November 1-4, 2007).  
University of South Florida.

Member, Board of Directors, Ohio Dominican University 2012-2014.

Member, Board of Trustees, Dominican Academy, NY, NY. 2007-present.

Reviewer, National Science Foundation, NOYCE Scholarship Program. Washington DC, May 13-15, 2004, 2008. 2010.

Chair, Extended Sessions Committee, National Council of Teachers of Mathematics, Regional Conference, Cleveland, OH, Nov. 1997.

### **State and Regional**

Vice President, Ohio Council of Teachers of Mathematics, 2018-2021

Chair of the 2018 OCTM Awards Dinner, Akron, Ohio October 12<sup>th</sup>.

Reviewer, Ohio Educator Assessment, December 2017

Mentor, Goodyear STEM Day, April 2017.

Judge, Akron Public School Science Fair, 2014-2018.

Writer, Educational Materials for the Akron Art Museum, NEOGEO. April 2016.

Invited: Writer, Educational Materials for the Akron Art Museum, 2010-2011, M.C. Escher Display and Kaleidoscope Quilts.

Co-Chair of Program Committee, 2010 Ohio Council of Teachers Annual Meeting.

Facilitator, Mathematics Coaching Program, 2008-2011, Ohio State University.

Member, Board of Trustees, Our Lady of the Elms Schools. 2000 –2007.

Member, the Michigan Council of Teachers of Mathematics, 2004 Conference, Steering Committee, Detroit, MI.

Judge, Engineering Society of Detroit, January 22, 2004, Future City Competition; Speaker, Engineering Society of Detroit, October, 2003.

Trainer, Panel for Periodic Review/Program Evaluation in 2000-2003, Michigan Department of Education, Office of Professional Preparation Services.

Vice President, Ohio Council of Teachers of Mathematics, 1994-1997.

Program Chair, Ohio Council of Teachers of Mathematics, Cincinnati, 1997

### **University**

IRB, Member, 2008-2017

Student Appeals Committee, 2015-2017

Faculty Advisory Council. Teaching, Learning, and Curriculum Studies. 2016-2017

College Advisory Council, 2016-2017.

Faculty Associate, Service Learning, Kent State University, 2009-2012.

Created the Handbook for Service Learning for KSU

<http://faculty.kent.edu/jcanigl1/reappointment/Service Learning Handbook.pdf>

Wrote a Vision Statement for Service-Learning for Kent State

<http://faculty.kent.edu/jcanigl1/Vision of Service.pdf>

Organizer, ADED Poster/Portfolio Session. May 2009 & 2010, Kent State University.

Organizer, Texas Instruments Workshops, 2008/2009. Kent State University.

Coordinator, Mathematics Secondary Education, NCATE Accreditation Eastern Michigan University, 1995-2008.

Writer, Responsible Conduct in Research Instructional Module, *Collaborative research*. Eastern Michigan University Graduate School (online—EMU website). 2004.

Writer and Developer of Secondary Mathematics Graduate Program, Department of Mathematics, 2000.

Coordinator, Pi Day, March 14, 2002, 2003 (1:59pm!). Eastern Michigan University

Member, Search Committee, Department Chair, 2002. Eastern Michigan University

Coordinator, Office of Research and Development's Poster Exhibition, March 2000.

Member, Faculty Center of Instructional Excellence Advisory Board, 1999-2001.

Grader, Michigan Mathematics Exam, Grand Valley State University, Jan. 1995, 1996, 1998, 1999.

Director, Fourth Rock from the Sun: A Summer Workshop for Science and Mathematics Teachers. Eastern Michigan University, July 30-August 2, 2001.

Department Webmaster, 1996-1999.

Writer, NCATE, Full Folio for Secondary Mathematics, September 15, 1996 (Full Accreditation).

Writer, Michigan Department of Education State Report, May 1, 1996 (Full Accreditation).

Chair & Member, College of Arts and Sciences Secondary Methods Faculty, 1998-2008.

Member of the EMU Mathematics Department Scholarship Committee for 2000-2007.

Elected, member of EMU Mathematics Department Personnel Committee, 2000-2008.

Member, Mathematics Department Head Search Committee, appointed by the Dean of Arts and Sciences. October, 2001- March 2002.

## **EDITORIAL, PROFESSIONAL ACTIVITIES**

Reviewer, for Mathematics Research PreSession. November 2018

Reviewer of Dr. Anin Appova, Tenure Review, Ohio State University, Marion Regional Campus, Summer 2018

Reviewer for Ohio AIR Testing, Grade 7 Mathematics, Columbus, Ohio July 2018

Reviewer, RCML Conference, 2018

Reviewer, PME-NA 2017

Reviewer: High School Journal, 2016-present.

Reviewer, Mathematics Teaching and Learning, 2015- Present

Reviewer, NCTM Research Pre-session Papers. August 2010--Present

Invited Editor of SumMore, Summer Math Activities for Children of Michigan, 2008-2010. (Funds provided scholarships to Michigan Mathematics Majors).

Reviewer of Ohiorc, Columbus, Ohio 2008-10.

Reviewer of Michigan Department of Education, Undergraduate programs, 2000-2006.

Reviewer of Teaching Mathematics in the Middle School, 1998-2001.

Reviewer of Ohio Journal of Mathematics, 1998-present.

### **SERVICE TO THE COMMUNITY**

Project SPARK, Consultant and Instructor of Parent Partners, 2018-to present.

Proyecto RAICES, STEM instructor with engineering activities, 2015-to present.

### **PROFESSIONAL MEMBERSHIPS**

Adult Learning Mathematics Association

Mathematical Association of America

National Council of Teachers of Mathematics

Ohio Council of Teachers of Mathematics

Greater Akron Mathematics Educators Society



## **AWARDS**

Kent State, Faculty that Make a Difference, 2017

Volunteer of the Year, PROJECT LEARN, 2015

VISA, Innovative Educator Award, October, 2013.

Finalist, Akron Board of Education, Service Award 2010.

EMU Service Learning Faculty Award, 2008.

Finalist, Ypsilanti Public Schools, Service Award, 2007.

Institutional Values Award, Eastern Michigan University, 2005.

Josephine Nevins Keil Award for Original Research, 1999, 2002

Distinguished Faculty Member, Michigan Association of Governing Boards, 1998.

Distinguished Teaching Award, Eastern Michigan University, 1997.

First Place Recognition, Provost Technology Competition, 1995.

Phi Beta Kappa, Kent State University 1994/ Eastern Michigan 2000

John Carroll University, Outstanding Student Teacher, 1977

John Carroll University, Dean's List, Summa Cum Laude, 1977.