

## CURRICULUM VITA

**Scott A. Courtney, Ph.D.**

**Associate Professor**

Kent State University  
School of Teaching, Learning and Curriculum Studies  
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### EDUCATIONAL BACKGROUND

Ph.D.	Arizona State University, Tempe, AZ Major: Curriculum & Instruction (Mathematics Education) Cognate Areas: Mathematics Dissertation: <i>Exploring Teachers' Capacity to Reflect on their Practice: An Investigation into the Development of Mathematical Knowledge for Teaching</i>	2010
M.Ed.	Northern Arizona University, Flagstaff, AZ Major: Secondary Education Concentration: Mathematics	2004
B.S.	University of Arizona, Tucson, AZ Major: Astronomy Minor: Physics	

### ACADEMIC EXPERIENCE

2017- Present	Associate Professor, Mathematics Education, School of Teaching, Learning and Curriculum Studies, Kent State University, Kent, OH
2010- 2017	Assistant Professor, Mathematics Education, School of Teaching, Learning and Curriculum Studies, Kent State University, Kent, OH

### PROFESSIONAL EXPERIENCE

2007-2010	Graduate Research Associate, Arizona State University, Tempe, AZ
2008-2010	Adjunct Mathematics Faculty, Scottsdale Community College, Scottsdale, AZ
2000-2008	High School Mathematics Instructor, Arizona School for the Arts, Phoenix, AZ
1999-2000	High School Mathematics Instructor, Cave Creek Unified School District, Cave Creek, AZ
1998-1999	High School Mathematics Instructor, Paradise Valley Unified School District, Phoenix, AZ

### RESEARCH

#### **Publications – National and International Refereed**

Gueudet, G., Pepin, B., **Courtney, S.**, Kock, Z.-J., Misfeldt, M., & Tamborg, A. (2021). Digital platforms for teacher documentation work: Affordances and constraints for teacher curriculum design. In A. Clark-Wilson et al. (Eds.), *Mathematics Education in the Digital Age: Learning, Practice and Theory*. London: Routledge.

- Courtney, S. A., & Caniglia, J.** (in-press). Comparing the mathematical practices pre-service teachers and mathematics teacher educators identified as relevant to problems and tasks. *International Journal of Research in Education and Science*. (Accept. Rate: 6%; 70%)
- Loisy, C, Hussein, S., & **Courtney, S. A.** (2019). Analyzing teachers' work with resources: Methodological issues (pp. 257-268, 310-321). In L. Trouche, G. Gueudet, & B. Pepin (Eds.), *The 'resources' approach to mathematics education*. Cham, Switzerland: Springer.
- Glasnović Gracin, D., & **Courtney, S. A.** (2019). The role of resources in lesson planning: Institutional and methodological issues (pp. 281-291). In L. Trouche, G. Gueudet, & B. Pepin (Eds.), *The 'resources' approach to mathematics education*. Cham, Switzerland: Springer.
- Courtney, S. A., & Benjamin, J.** (2018). A reflective rubric-creating activity that enhances teachers' mathematical habits of mind. *Issues and Ideas in Education*, 6(2), 153-171. (Accept. Rate: ; 75%)
- Courtney, S. A., Longanecker, Z., Duncan, S., Metzger, C., & Olszewski, D.** (2018). Vetting online resources that support teachers' promotion of mathematical habits of mind. *Ohio Journal of School Mathematics*, 79, 11-18. (Accept. Rate: variable; 60%)
- Courtney, S. A. (2018). Teacher educator-embedded professional learning model. *International Electronic Journal of Mathematics Education*, 13(3), 103-123. (Accept. Rate [Mathematics]: 14%)
- Caniglia, J., 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. (Accept. Rate: 30%; 35%)
- Courtney, S. (2017). What teachers understand of model lessons. *Cogent Education*, 4(1). Retrieved from <https://www.cogentoa.com/article/10.1080/2331186X.2017.1296528.pdf>
- Courtney, S. A., & Gibson, J.** (2016). What is your time worth: A meaningful project in algebra. *Journal of Instructional Pedagogies*, 18. (Accept. Rate: 40%; 60%)
- Frederick, M., & **Courtney, S. A.** (2015). Mentoring teachers: There's an app for that! *Ohio Journal of School Mathematics*, 71. (Accept. Rate: variable; 40%)
- May, V., & **Courtney, S. A.** (2015). Developing meaning in trigonometry. *Illinois Mathematics Teacher*. (Accept. Rate: editors' note; 60%)
- Frederick, M., **Courtney, S.**, & Caniglia, J. (2014). With a little help from my friends: Scaffolding techniques in problem solving. *Investigations in Mathematics Learning*, 7(2), pp. 21-32. (Accept. Rate: 20%; 35%)
- Courtney, S. (2014). Moving the Standards for Mathematical Practice beyond bullet points. *Comprehensive Journal of Educational Research*, 2(5), 70-87. (UFI 0.9217)
- Courtney, S. (2014). Do we need to show our work through our meanings and reasoning? *National Teacher Education Journal*, 7(1), 5-15. (Accept. Rate: 55%)
- Courtney, S., Caniglia, J., & Singh, R.** (2013). *Investigating the impact of field trips on teachers' mathematical problem posing*. *Journal for Experiential Education*, 36(3), 1-16. (Accept. Rate: 21-25%; 60%)
- Caniglia, J. & **Courtney, S.** (2013, April). A review of financial literacy programs for K-12 students with intellectual disabilities: Utilizing the principles of Universal Design for Learning. *The Practical Teacher*. Retrieved from <https://www.naset.org/3738.0.html> (40%)

### **Publications – National and International Refereed Conference Papers and Proceedings**

- Courtney, S. A. (2019). Utilizing the task progressions framework to support lesson design. In P. Drijvers, K. M. Clark, & S. Rezat (Eds.), *Proceedings of Contemporary Themes in Education (CTE) Conference: New Challenges in Mathematics Teaching*. Zagreb, Croatia: Faculty of Teacher Education University of Zagreb. [https://www.ufzg.unizg.hr/wp-content/uploads/2021/01/matematika\\_stoo\\_rev3.pdf](https://www.ufzg.unizg.hr/wp-content/uploads/2021/01/matematika_stoo_rev3.pdf)
- Courtney, S. A. (2019). Digital sharing and learning spaces: The Ohio mathematics teacher hubs project. In P. Drijvers, K. M. Clark, & S. Rezat (Eds.), *Proceedings of the Third International Conference on Mathematics Textbook Research and Development* (pp. 93-98). Paderborn, Germany: Universitätsbibliothek Paderborn. <https://digital.ub.uni-paderborn.de/doi/10.17619/UNIPB/1-768>
- Courtney, S. A., & Glasnović Gracin, D.** (2019). Developing the task progressions framework. In U. T. Jankvist, M. Van den Heuvel-Panhuizen, & M. Veldhuis (Eds.), *Proceedings of the*

- Eleventh Congress of the European Society for Research in Mathematics Education* (pp. 4186-4193). Utrecht, the Netherlands: Freudenthal Group & Freudenthal Institute, Utrecht University and ERME. Retrieved from [http://www.mathematik.uni-dortmund.de/~prediger/ERME/CERME11\\_Proceedings\\_2019.pdf](http://www.mathematik.uni-dortmund.de/~prediger/ERME/CERME11_Proceedings_2019.pdf)
- Courtney, S. A.**, & Longanecker, Z., Duncan, S., Metzger, C., & Olszewski, D. (2018). Vetting digital resources that support teachers' promotion of mathematical habits of mind during instruction and assessments. In H.-G. Weigand, A. C. Wilson, A. D. Todorova, E. Faggiano, N. Grønbaek & J. Trgalova (Eds.), *Proceedings of the Fifth Topic Congress on Mathematics Education in the Digital Age (MEDA)* (pp. 303-304). Copenhagen, Denmark: University of Copenhagen & ERME. Retrieved from [https://www.math.ku.dk/english/research/conferences/2018/meda/proceedings/MEDA\\_2018\\_Proceedings.pdf](https://www.math.ku.dk/english/research/conferences/2018/meda/proceedings/MEDA_2018_Proceedings.pdf)
- Courtney, S. A. (2018). Preparing to teach mathematics: Results from a survey on mathematics teacher resources in the United States. In V. Gitirana, T. Miyakawa, M. Rafalska, S. Soury-Lavergne, & L. Trouche (Eds.), *Proceedings of the Re(s)ources 2018 Conference* (pp. 151-154). Lyon, France: Ecole Normale Supérieure de Lyon. Retrieved from [https://resources-2018.sciencesconf.org/data/Proceedings\\_Re\\_s\\_source\\_2018.pdf](https://resources-2018.sciencesconf.org/data/Proceedings_Re_s_source_2018.pdf)
- Courtney, S. A. (2017). Introducing mathematical literacy PDSAs into a partnership team. In W. M. Smith, B. R. Lawler, J. Bowers, & L. Augustyn (Eds.), *Proceedings of the Sixth Annual Mathematics Teacher Education Partnership Conference* (pp. 84-87). Washington, DC: Association of Public and Land-grant Universities. Retrieved from <http://www.aplu.org/projects-and-initiatives/stem-education/mathematics-teacher-education-partnership/mtep-conferences-meetings/mtep6-materials/6thAnnualMTE-PartnershipConferenceProceedings.pdf>
- Courtney, S. A. (2017). Supporting teachers' practices: A teacher educator-embedded professional development model. In T. Dooley & G. Gueudet (Eds.), *Proceedings of the Tenth Congress of the European Society for Research in Mathematics Education* (pp. 3028-3029). Dublin, Ireland: DCU Institute of Education & ERME. Retrieved from [http://www.mathematik.uni-dortmund.de/~prediger/ERME/CERME10\\_Proceedings\\_2017.pdf](http://www.mathematik.uni-dortmund.de/~prediger/ERME/CERME10_Proceedings_2017.pdf)
- Courtney, S. A.**, Eliustaoglu, E., & Crawford, A. (2015). *Examining the role lesson plans play in mathematics education. Proceedings of the 37th Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA 2015)*. (Accept. Rate: 64%; 60%)
- Courtney, S. A.**, Kosko, K. W., & McMahon, L. (2015). In the eye of the beholder: Mathematics teacher educators' interpretations of the Standards for Mathematical Practice. *Online Paper Repository American Educational Research Association (AERA)*. (40%)
- Courtney, S. (2013). Prospective teachers' developing conceptions of the Standards for Mathematical Practice. *Proceedings of the Fortieth Annual Meeting of the Research Council on Mathematics Learning*, 7-15. Retrieved from <http://web.unlv.edu/RCML/RCML%20Proceedings%202013.pdf>
- Mikusa, M., Caniglia, J., & **Courtney, S.** (2013). The path of reform in secondary mathematics classrooms: Some issues and some hope. *Proceedings of the Fortieth Annual Meeting of the Research Council on Mathematics Learning*, 116-124. Retrieved from <http://web.unlv.edu/RCML/RCML%20Proceedings%202013.pdf> (35%)
- Courtney, S. (2011). Characterizing an orientation toward learning and teaching mathematics that constrains reflection. *Proceedings of the Thirty-eighth Annual Meeting of the Research Council on Mathematics Learning*, 167-174. Retrieved from <http://web.unlv.edu/RCML/Proceedings11.pdf>
- Courtney, S. (2010). Exploring teachers' capacity to reflect on their practice. *Proceedings for the Thirteenth SIGMAA on Research in Undergraduate Mathematics Education Conference*. Retrieved from <http://sigmaa.maa.org/rume/crume2010/Abstracts2010.htm>
- Revise and Resubmit Peer-Reviewed Journal Publication**
- Mucha, A., & **Courtney, S. A.** (revise and resubmit). Using simulations to support students' development of statistical concepts. *Teaching Statistics*. (Accept. Rate: 30%; 60%)

**Courtney, S. A.,** Crawford, A., Eliustaoglu, E., & Gibson, J. (under review). Exploring the role formal lesson plans play in mathematics teachers' practices. *The Teacher Educator*. (Accept. Rate: 21-30%; 40%)

### **Under Review – National and International Refereed**

**Courtney, S. A.,** & Armstrong, B. (under review). Promoting geometric reasoning through constructions. *Journal of Mathematics and Art*. (50%)

Speakman, M. J., & **Courtney, S. A.** (under review). Exploring matrix multiplication with manipulatives. *Illinois Mathematics Teacher*. (40%)

### **Grants (\$1,477,130 funded as PI or Co-PI)**

Principal Investigator (submitted). Spencer Foundation Large Research Grant on Education: *Mathematical Thinking and Reasoning in Rural Communities Project* (\$380,684, three-year total).

Principal Investigator (June 15, 2020 - June 14, 2022). Education, Health, and Human Services (EHHS) Internal Seed Grant: *Professional Learning and Collaborative Inquiry Project* (\$5,000).

Principal Investigator (submitted, not awarded). Spencer Foundation Large Research Grant on Education: *Rural Mathematics Teachers Online Communities of Inquiry Project* (\$411,852, three-year total).

Principal Investigator (submitted, not awarded). CPM Educational Program Extensive Research Grant: *Examining Verbal and Written Instantiations of Students' and Teachers' Expressions and Interpretations of Meaning and Reasoning* (\$237,802, three-year total).

Principal Investigator (submitted, not awarded). James S. McDonnell Foundation (JSMF) Teachers as Learners Grant Program: *Northeast Ohio Mathematics Teacher Collaborative (NEOMTC) Project* (\$1,128,086, five-year total).

Principal Investigator (August 16, 2015-August 15, 2017). Ohio Department of Education, Office of Curriculum and Assessment, Mathematics and Science Partnerships (MSP) Program Grant: *Northeast Ohio Mathematics Learning Community Project* (\$632,921, two-year total).

Principal Investigator (August 2014-August 2015). Ohio Department of Education, Office of Curriculum and Assessment, Mathematics and Science Partnerships (MSP) Program Grant: Kent State University Mathematics Study Group Partnership (\$283,549).

Principal Investigator (submitted, not awarded). National Science Foundation, Division of Undergraduate Education, Improving Undergraduate STEM Education. *Collaborative Research: Developing Knowledge for Teaching Tasks in Calculus*. (\$276,965).

Principal Investigator (July 2013-August 2014). Ohio Department of Education, Office of Curriculum and Assessment, Mathematics and Science Partnerships (MSP) Program Grant: *Warren City Schools-Kent State University Mathematics Study Group Partnership* (\$201,383).

Principal Investigator (August 2012-July 2013). Ohio Department of Education, Office of Curriculum and Assessment, Mathematics and Science Partnerships (MSP) Program Grant: *Warren City Schools-Kent State University Mathematics Partnership* (\$235,759).

Principal Investigator (April 2012-March 2013). Education, Health, and Human Services (EHHS) Internal Seed Grant: *Exploring the Development of Powerful Mathematical Meanings for Teaching in the Common Core Era* (\$5,000).

Senior Personnel (PIs: J. Arhar, S. Olson, and K. Moore, February 2012-June 2014). Ohio Department of Education, High School and Higher Education Alignment Project, *Minding the Gap: A K-16 Partnership to Align High School, College, and Career Technical Education Curriculum in Math and English/Language Arts in Northeast Ohio* (\$106,000).

Co-Principal Investigator (with J. Caniglia, January 2011-May 2012). Ohio Board of Regents, Improving Teacher Quality State Grants Program: Math in the City/Akron (\$118,518).

Senior Personnel (PI: L. Donnelly, September 2011-August 2016). National Science Foundation Robert Noyce Teacher Scholarship Program Grant: *Kent State University Noyce Scholars Program*. (\$1.08 million).

### Scholarly Presentations – Refereed

- Courtney, S. A., (accepted). *The Impact of Remote Instruction on Mathematics Teachers' Practices*. 16th International Conference of The Mathematics Education for the Future Project, Building on the Past to Prepare for the Future. Cambridge, UK. August 8-13, 2022.
- Courtney, S. A., (2020). *Supporting teachers' attempts to create and maintain productive remote learning environments*. The Ohio Confederation of Teacher Education Organizations (OCTEO) Fall 2020 Conference. Online. October 22-23.
- Courtney, S. A. (2019). *Utilizing the task progressions framework to support lesson design*. Contemporary Themes in Education (CTE). Zagreb, Croatia. November 15-19.
- Gueudet, G., Pepin, B., **Courtney, S. A.**, Tamborg, A. L., Misfeld, M., & Kock, Z.-J. (2019). *Symposium: Digital platforms and mathematics teachers' documentation work*. Third International Conference on Mathematics Textbooks (ICMT 3). Paderborn, Germany. September 16-19.
- Courtney, S. A.**, & Glasnović Gracin, D. (2019). *Developing the task progressions framework*. The Eleventh Congress of the European Society for Research in Mathematics Education. Utrecht, The Netherlands. February 5-10.
- Courtney, S. A. (2018). *Vetting digital resources that support teachers' promotion of mathematical habits of mind during instruction and assessments*. The Fifth Topic Congress on Mathematics Education in the Digital Age (MEDA). Copenhagen, Denmark. September 5-7.
- Courtney, S. A. (2018). *Preparing to teach mathematics: Results from a survey on mathematics teacher resources in the United States*. Re(s)ources 2018 International Conference. Lyon, France. May 28-30.
- Courtney, S. A. (2017). *Mathematical literacy plan-do-study-act cycles*. The Sixth Annual Mathematics Teacher Education Partnership (MTEP) Conference. New Orleans, LA. June 25-27.
- Courtney, S. A. (2017). *Supporting teachers' practices: A teacher educator-embedded professional development model*. The Tenth Congress of the European Society for Research in Mathematics Education (CERME). Dublin, Ireland. February 1-5.
- Courtney, S. A.**, Edwards, M. T., Bailey, J. (2016). *What Types of Courses and Workshops Would Practices Mathematics Teachers Find Most Beneficial to Their Practices?* The Sixty-sixth Annual Conference of the Ohio Council of Teachers of Mathematics (OCTM). Sandusky, OH. October 27-28.
- Courtney, S. A.**, & Singh, R. (2016). *Perspectives on Formal Lesson Plans in Teacher Education*. Poster Session, American Educational Research Association 2016 Annual Meeting (AERA). Washington, DC. April 8-12.
- Courtney, S. A.**, Eliustaoglu, E., & Crawford, A. (2015). *Examining the role lesson plans play in mathematics education*. 37th Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA 2015). East Lansing, MI, November 5–8.
- Cavey, L., & **Courtney, S. A.** (2015). *Evidence-based approaches to the mathematical preparation of secondary teachers*. Themed Contributed Paper Session, MAA MathFest 2015. Washington, DC, August 5-8.
- Courtney, S. A.**, & Kosko, K. W., & McMahon, L. (2015). *In the eye of the beholder: Mathematics teacher educators' interpretations of Standards for Mathematical Practice*. Roundtable Presentation, American Educational Research Association 2015 Annual Meeting (AERA). Chicago, IL. April 16-20.
- Courtney, S. A.**, & Kosko, K. W. (2015). *Forecasting the impact and lifespan of the Common Core's Standards for Mathematical Practice*. The Nineteenth Annual Conference of the Association of Mathematics Teacher Educators (AMTE). Orlando, FL. February 12-14.
- Courtney, S. A.**, Graham, T., & Caniglia, J. (2014). *Our kid's can't do that: Differentiating between real and perceived impediments to teaching and learning the Common Core State Standards*

- for Mathematics*. The Sixty-fourth Annual Conference of the Ohio Council of Teachers of Mathematics (OCTM). Columbus, OH. November 5-7.
- Frederick, M., & **Courtney, S. A.** (2014). *How might Common Core assessments impact classroom instruction?* The Sixty-fourth Annual Conference of the Ohio Council of Teachers of Mathematics (OCTM). Columbus, OH. November 5-7.
- Courtney, S.**, Caniglia, J., & Graham, T. (2014). *Supporting Teachers to Transform 'Our Kids Can't Do That' Ways of Thinking*. The U.S. Department of Education - Mathematics and Science Partnerships (MSP) Program 2014 National Conference. Poster Session. Washington, DC. September 30-October 1.
- Ronau, B., Schroeder, M., & **Courtney, S. A.** (2014). *Developing knowledge for teaching tasks in calculus*. Mathematics Teacher Education Partnership (MTEP) Annual Conference. Milwaukee, WI. June 6-8.
- Courtney, S.**, Caniglia, J., & Graham, T. (2013). *Warren City Schools-Kent State University mathematics partnership*. The U.S. Department of Education - Mathematics and Science Partnerships (MSP) Program 2013 National Conference. Poster Session. Washington, DC. September 10-11.
- Mikusa, M., & **Courtney, S.** (2013). *Secondary PD: What are impediments standing in the way of substantive teacher change?* Fortieth Annual Meeting of the Research Council on Mathematics Learning. Tulsa, OK. February 28-March 2.
- Courtney, S. (2013). *Supporting PSTs' development of practical conceptions of the mathematical practices*. Fortieth Annual Meeting of the Research Council on Mathematics Learning. Tulsa, OK. February 28-March 2.
- Lee, J. S., Roberts, S. A., **Courtney, S. A.**, & Cochran, J. A. (2013). *Developing practical images of the Standards for Mathematical Practice to support preservice teachers*. The Seventeenth Annual Conference of the Association of Mathematics Teacher Educators (AMTE). Orlando, FL. January 24-26.
- Courtney, S.**, Caniglia, J., & Singh, R. (2012). *Mathematical field trips that promote rich problem formulation*. The Fortieth Annual International Conference of the Association for Experiential Education (AEE). Poster Session. Madison, WI. November 1-4.
- Courtney, S.**, & Caniglia, J. (2012). *Mathematical field trips: Making the most of out-of-school experiences*. The Sixty-second Annual Conference of the Ohio Council of Teachers of Mathematics (OCTM). Columbus, OH. October 18-19.
- Courtney, S. (2012). *The role of model lessons in mathematics teacher education*. Thirty-ninth Annual Meeting of the Research Council on Mathematics Learning. Charlotte, NC. February 23-25.
- Courtney, S. (2012). *A framework for the design and implementation of model lessons in mathematics teacher education*. AMTE Presession. STaR Poster Session. Ft. Worth, TX. February 9-11.
- Courtney, S. (2011). *Characterizing an orientation toward learning and teaching mathematics that constrains reflection*. Thirty-eighth Annual Meeting of the Research Council on Mathematics Learning. Cincinnati, OH. March 10-12.
- Courtney, S. (2010). *Difficulties of reflection: Why change is difficult for some teachers despite their best intentions*. National Council of Teachers of Mathematics (NCTM) Research Pre-session to the Annual Meeting and Exposition. San Diego, CA. April 19-21.
- Courtney, S. (2010). *Exploring teachers' capacity to reflect on their practice*. Special Interest Group of the Mathematical Association of America on Research in Undergraduate Mathematics Education (SIGMAA on RUME) Thirteenth Conference on Research in Undergraduate Mathematics Education. Raleigh, NC. February 25-28.

### **Scholarly Presentations – Invited**

- Courtney, S. A. (2020). *Building community in a remote learning environment*. Vacca Office of Student Services, Student Success Events, Kent State University. Online. October 2.
- Frederick, M., & **Courtney, S.** (2015). *Classroom instruction and the Common Core assessments*. Greater Akron Mathematics Educators Society (G.A.M.E.S.) Annual Mini-Conference. Akron, OH. February 7.

Courtney, S. (2015). *University Introductory Calculus Courses: Addressing Students Prior Knowledge and Skills Regarding Limits*. Choose Ohio First: Success in Math Meeting. Kent State University. Kent, OH. November 12.

### **Conference Participant – Invited**

*Mathematics Teacher Education Partnership (MTEP) Conference* (2015). Association of Public and Land-Grant Universities (APLU), Science and Mathematics Teacher Imperative. Fullerton, CA. June 22-25.

*Mathematics Teacher Education Partnership (MTEP) Conference* (2014). Association of Public and Land-Grant Universities (APLU), Science and Mathematics Teacher Imperative. Milwaukee, WI. June 6-8.

*Mathematics Teacher Education Partnership (MTEP) Conference* (2013). Association of Public and Land-Grant Universities (APLU), Science and Mathematics Teacher Imperative. St. Louis, MO. June 7-9.

*Epistemic Algebraic Students Conference* (2013). Department of Mathematics and Science Education at the University of Georgia and WISDOMe of the University of Wyoming. Athens, GA. June 2-4.

*Mathematics Teacher Education Partnership (MTEP) Conference* (2012). Association of Public and Land-Grant Universities (APLU), Science and Mathematics Teacher Imperative Atlanta, GA. June 7-9.

### **Partnerships**

Team Leader (2011-2019). *Kent State University Partnership*. Mathematics Teacher Education (MTE)-Partnership. Association of Public and Land-Grant Universities (APLU), Science and Mathematics Teacher Imperative.

## **TEACHING, ADVISING AND SUPERVISION**

### **Courses Taught at Kent State University**

MCED 30001	Teaching Math Middle Years I (F12, F11, F10)
MCED 40001	Teaching Math Middle Years II (S13, S12, S11)
ADED 32268	Secondary School Mathematics Curriculum (S11)
ADED 42268	Teaching of Mathematics in Secondary Schools (F11)
ADED 42292	Field Work Practicum: Integrated Mathematics (F19)
ADED 52267	Improving Mathematics Instruction for ADED (F13, F12)
ADED 62191	Seminar in Secondary Education (S21)
ADED 62198	Research in Secondary Education (S21)
CI 6/77002	Curriculum Leadership (S21)
CI 6/77224	Teaching Mathematics Using Computers and Calculators (F19, F18, F17, F16, F15, F14, F10)
CI 6/77225	Research in Mathematics Education (F20, F18, F17, F16, F15, F14)
CI 67226	Improving Mathematics Instruction in Middle Childhood (S13, S12)
CI 6/77791	Seminar in Mathematics Education (S20, S19, S18, S16, S15, S14, S12)
CI 67095	Algebra 1: A Focus on Knowledge for Teaching (SSI18)
CI 67095	Differentiation in Mathematics: Meeting the Needs of All Students (S19, S18)
CI 67095	Middle Grades Mathematics: A Focus on Knowledge for Teaching (S18)
CI 80089	Residency I (F20, F19)
CI 80090	Residency II (F20)
CI 77096	Individual Investigation in Curriculum and Instruction (S21)
ECED 67296	Individual Investigation in Early Childhood Education (S21)
MATH 67098	Research (F18, S18)

## **Graduate Student Advising**

Ph.D. Dissertation Committee Member

Ph.D. Dissertation Committee Member

Ph.D. Dissertation Committee Member

Ph.D. Dissertation **Chair**

Ph.D. Dissertation Committee Member

Ph.D. Dissertation **Co-Chair**

Ph.D. Dissertation **Co-Chair**

Ph.D. Dissertation Committee Member

Ph.D. Dissertation Committee Member

Ph.D. Dissertation Committee Member

Ph.D. Dissertation Committee Member

M.Ed. Thesis **Chair**

M.A. Thesis Committee

Ph.D. Comprehensive Exam Committee Member

Ph.D. Comprehensive Exam Committee Member

Ph.D. Comprehensive Exam Committee Member

Ph.D. Comprehensive Exam Committee Member

Ph.D. Comprehensive Exam Committee Member

Ramadan El-Sharif (2020: *The Average of Some Irreducible Character Degrees*)

David Costanzo (2020: *Central Camina Pairs*)

Anita Alexander (2019: *The perceptions of alignment between Advanced Placement Calculus AB and College Calculus I: A mixed methods study of instructional strategies, curriculum, and assessment*)

Amy Crawford (2017: *Self-Determination Theory and Middle School Mathematics Teachers: Understanding the Motivation to Attain Professional Development*)

Casey Wynn (2017: *Supercharacter Theories of Solvable Groups*)

Michelle Frederick (2016: *A Case Study on Co-Teacher Noticing Within a Seventh Grade Mathematics Classroom*)

Peggy Slavik (2015: *Students' Attitudes Toward Mathematics in a Spreadsheet-Based Learning Environment*)

Michael Doyle (2015: *Partitioning the Set of Subgroups of a Finite Group Using Thompson's Generalized Characters*)

Wendy Samford (2013: *Exploring Sustained Change in Teachers' Beliefs After Professional Development*)

Mark Hogue (2012: *A Phenomenological Study of Mathematics Teacher Educators' Experiences Related to and Perceptions of Statistics*)

Sean Yee (2012: *Students' Metaphors for Mathematical Problem Solving*)

Esra Eliustaoglu (completed 2016)

Anita Alexander (completed 2014)

Amy Crawford (2015)

Lauren McMahon (2014)

Jennifer Curry (2013)

Tatjana Hrubik-Vulanovic (2012)

Peggy Slavik (2012)

## **CITIZENSHIP AND SERVICE**

### **Kent State University Service and Community Outreach**

*Program (School)*

*Member*, Fall 2019-Spring 2020, Adult and Adolescent Education Program

*Member*, Fall 2011-present, Masters of Arts in Teaching Program

*Member*, Fall 2010-present, Curriculum and Instruction Program

*Member*, Fall 2020-present TLC Scholarship Committee

*Member*, Fall 2020-present Technology Advisory Committee

*Member*, Fall 2018-2019, Student Academic Complaint Committee

*Member, Fall 2010-Spring 2014, Adult and Adolescent Education Program*  
*Member, Fall 2010-Spring 2013, Middle Childhood Education Program*

#### *College*

*Member, Fall 2020-present Communications Committee*  
*Member, Fall 2019-present Technology Advisory Committee*  
*Member, Fall 2019, Adolescent Literacy Education Search Committee*  
*Chair, Fall 2017-2018, Research Advisory Council*  
*Member, Fall 2016-2017, Research Advisory Council*  
*Member, Fall 2014-Spring 2015, Mathematics Education Search Committee*  
*Member, Fall 2011-Spring 2013, Technology Advisory Committee*  
*Member, Fall 2011-Spring 2012, Mathematics Education Search Committee*  
*Member, Fall 2010, Mathematics Education Search Committee*

#### *University*

*Member, Spring 2021, Faculty Senate Committee*  
*Member, Fall 2020-present, Research Infrastructure Subcommittee of the Science/Data Analysis Committee*  
*Alternate Member, Fall 2020-Spring 2021, Survey of Student Instruction Review Committee*  
*Member, Fall 2019-Spring 2020, Provost's Advisory Council Promotion Advisory Board*  
*Member, Spring 2017 University Research Council (URC) Review Panel for the Research Seed Funding Competition*  
*Member, Fall 2013-Spring 2014 Faculty Professional Development Center (FPDC) Re-Design Steering Committee Advisory Board*  
*Member, Fall 2011-Spring 2014, University Teaching Council*

#### *Profession*

*Judge - Mathematics Education Projects, Spring 2021, Choose Ohio First (COF) Remote Conference*  
*Journal Editor, 2018-on-going, International Electronic Journal of Mathematics Education*  
*Symposium Scientific Committee, 2019, Contemporary Themes in Education (CTE) - New Challenges in Mathematics Teaching. Zagreb, Croatia.*  
*Coordinator, 2018, Re(s)ources 2018 International Conference. Lyon, France*  
*Co-Facilitator, 2015-on-going, Ohio Council of Teachers of Mathematics (OCTM) PD Working Group: Methods Courses/In-Service Workshops*  
*KSU Faculty Planning Team, 2012-2014, Kent Education Excellence Partnership (KEEP) Mathematics and English/ Language Arts Academy*  
*Manuscript Reviewer, 2016-on-going, Cogent Education*  
*Manuscript Reviewer, 2015-on-going, Mathematics Teacher (MT)*  
*Manuscript Reviewer, 2015-on-going, The Teacher Educator*  
*Manuscript Reviewer, 2014-on-going, Mathematical Thinking and Learning*  
*Manuscript Reviewer, 2014-on-going, Ohio Journal of School Mathematics*  
*Manuscript Reviewer, 2014-on-going, Journal for Research in Mathematics Education (JRME)*  
*Manuscript Reviewer, 2013-going, Mathematics Teacher Educator (MTE)*  
*Manuscript Reviewer, Fall 2012, Research Council on Mathematics Learning (RCML), Proceedings of the 40<sup>th</sup> Annual Meeting*  
*Conference Proposal Reviewer, Summer 2012, Seventeenth Annual Association of Mathematics Teacher Educators (AMTE) Conference*  
*Manuscript Reviewer, Fall 2011, Research Council on Mathematics Learning (RCML), Proceedings of the 39<sup>th</sup> Annual Meeting*

### **HONORS AND RECOGNITION**

2011                      Fellow, Service, Teaching, and Research, (STaR) for Early Career Mathematics Educators.

2010	SIGMAA on Research in Undergraduate Mathematics Education Prejournal Award
2008	Flinn Foundation Distinguished Educator Award

### **PROFESSIONAL AFFILIATIONS**

Association of Mathematics Teacher Educators  
National Council of Supervisors of Mathematics  
National Council of Teachers of Mathematics  
Ohio Council of Teachers of Mathematics  
Research Council on Mathematics Learning