

CYNTHIA E. TAYLOR
Professor
Mathematics

Millersville University of Pennsylvania, Department of Mathematics
P.O. Box 1002
Millersville, PA 17551-0302

cynthia.taylor@millersville.edu
717.871.7317 (office)
717.871.7948 (fax)

ACADEMIC BACKGROUND

- 2007—2011 Doctor of Philosophy, Curriculum and Instruction (Mathematics Education)
University of Missouri, Columbia, MO
Dissertation: Taylor, C. E. (2011). *Facilitating the Development of Prospective Teachers' Pedagogical Content Knowledge: A Case Study of a Mathematics Teacher Educator's Actions and Purposes*. University of Missouri. *ProQuest Dissertations and Theses*,
<https://search.proquest.com/openview/9464e33ca002a2a4159799588797ec3d/1?pq-origsite=gscholar&cbl=18750&diss=y>
- 2005—2006 Supervisory Certification for Pennsylvania
Millersville University of Pennsylvania, Millersville, PA
- 2000—2002 Master of Science, Mathematics Concentration
Rensselaer Polytechnic Institute, Troy, NY
- 1994—1998 Bachelor of Science in Mathematics Education
Indiana University of Pennsylvania, Indiana, PA

PROFESSIONAL EXPERIENCE

- 2011—Present Millersville University of Pennsylvania, Millersville, PA
- Professor in Department of Mathematics (Aug. 2022 – Present)
 - Associate Professor in Department of Mathematics (Aug. 2016—Aug. 2022)
 - Assistant Professor in Department of Mathematics (Aug. 2011—Aug. 2016)
- 2007—2011 University of Missouri, Columbia, MO
- Graduate Research Assistant
 - Graduate Teaching Assistant
- 1999—2007 Ephrata Area School District, Ephrata, PA
- High School Mathematics Teacher
- 2005—2006 Harrisburg Area Community College, Lancaster, PA
- Adjunct Mathematics Instructor
- 2003—2004 South Charnwood High School, Markfield, England
- Fulbright Teacher Exchange Scholarship Recipient
 - Mathematics Teacher, 10 – 14 year olds
- 1999 Cornwall Lebanon School District, Lebanon, PA
- High School Mathematics Teacher

AWARDS AND SCHOLARSHIPS

- 2015 Scholarly Inquiry and Practices (SIP) Conference for Mathematics Education Methods Funded Participant, NSF
- 2014—2015 STEM-UP PA Advancing Academic Women Program Fellow, NSF
- 2012—2013 Service Teaching and Research (STaR) Program Fellow, NSF
- 2010—2011 Walter Scott Monroe Research Fellowship, Univ. of MO
- 2007—2011 Center for the Study of Mathematics Curriculum (CSMC) Fellow, Univ. of MO
- 2007—2011 Curriculum and Instruction Scholarship, Univ. of MO
- 2007—2011 Mathematics Education Fellowship, Univ. of MO
- 2010 John D. Bies International Travel Scholarship, Univ. of MO
- 2009 Graduate Student Association Travel Award, Univ. of MO
- 2008 High Flyer Excellence in Teaching Award, Univ. of MO
- 2007—2008 Laura Brandt Education Scholarship, Univ. of MO
- 2007—2008 M. J. McCormick Graduate Student Fellowship, Univ. of MO
- 2003—2004 Fulbright Teacher Exchange Scholarship to England, Washington, DC
U.S. Department of State's Bureau of Educational and Cultural Affairs

TEACHING AND ADVISEMENT

MILLERSVILLE UNIVERSITY OF PENNSYLVANIA

Undergraduate

Courses Taught

MATH 070: Essential Mathematics

Elective course for students who need to improve their computational and problem-solving skills needed to prepare them for the mathematical prerequisites in their chosen fields of study.

MATH 090: Basic Mathematics

Elective course for students who need additional preparation before taking a college mathematics course. Remedial in nature and not applicable toward the science/math requirement.

MATH 101: College Algebra

Elective course for students who need to improve their algebraic skills before taking a higher-level course such as business calculus or precalculus.

MATH 102: Math in Non-European Cultures

Elective course for non-math or science majors; a survey of mathematical ideas developed by non-European cultures including culture and specific examples from the following areas of mathematics: number theory, topology, probability, group theory, and logic.

MATH 104: Fundamentals of Mathematics I

Required course for elementary/early childhood and middle school education majors.

MATH 105: Fundamentals of Mathematics II

Required course for elementary/early childhood education majors.

MATH 110: Trigonometry

Elective course for students preparing to take calculus who need additional background in trigonometry.

MATH 151: Calculus for the Management, Life, and Social Sciences

Elective course for business students: content includes elementary calculus and its applications in business, economics, life, and social sciences.

MATH 160: Precalculus

Elective course for students preparing to take Calculus I who need additional background.

MATH 205: Geometry for the Middle Level Teacher

Required course for middle level teacher certification majors.

MATH 230: Data Analysis and Probability for the Middle Level Teacher

Required course for middle level teacher certification majors.

MATH 301/301H: History of Mathematics

Elective “Perspectives” course. Course Honors College Students may take for Honors College credit.

MATH 405: The Teaching of Mathematics in Secondary Schools

Required course for secondary mathematics education majors.

MDLV 456: Teaching Middle Level Mathematics

Required course for middle level education majors.

UNIV 103: First Year Seminar—From pi to e through i

Elective course for first semester freshmen to examine, study, and analyze mathematics through a variety of mathematical lenses (applied, pure math, statistics, and education).

University Supervisor:

EDMA 461: Student Teaching in Mathematics I

Fall 2023—Supervisor of 1 student teacher

Spring 2023—Supervisor of 5 student teachers

Spring 2022—Supervisor of 5 student teachers

Fall 2021—Supervisor of 2 student teachers

Spring 2019—Supervisor of 9 student teachers

Fall 2017—Supervisor of 2 student teachers
Fall 2016—Supervisor of 3 student teachers
Spring 2014—Supervisor of 10 student teachers
Fall 2013—Supervisor of 7 student teachers
Fall 2012—Supervisor of 10 student teachers
Spring 2012—Supervisor of 10 student teachers

Student Research

Committee Member of Honors College Thesis for Brian Fodale, Fall 2022

Thesis Title: *Changes and perceptions experienced by secondary -level mathematics teachers during the COVID-19 pandemic*

Chair of Honors College Thesis for Alyssa Ames, Spring 2020

Thesis Title: *Instructional strategies mathematics classroom teachers use to intrinsically motivate secondary school students*

Chair of Honors College Independent Study Student Research Project for Alyssa Ames, Fall 2019. Project Title: *Literature review of educational systems*

Chair of Honors College Thesis for Jamie Wittick, Spring 2019

Thesis Title: *Historical overview of mathematical content in workbooks from 1833 to present*

Committee Member of Honors College Thesis for Noelle Shellenberger, Spring 2019

Thesis Title: *Classical and transformational approaches to triangle center theorems*

Co-Chair of Honors College Thesis for Nicholas Heil, Spring 2015

Thesis Title: *Ethnomathematics: Maya arithmetic in vigesimal and chronological mathematics systems*

Committee Member of Honors College Thesis for Chelsea Leber, Summer 2014

Thesis Title: *Perspectives on women in mathematics: Past, present, and future*

Undergraduate Advising at Millersville University:

2022—2023: Seven (7) mathematics/secondary mathematics education students

2021—2022: Eleven (11) mathematics/secondary mathematics education students

2020—2021: Fifteen (15) mathematics/secondary mathematics education students

2019—2020: Eighteen (18) mathematics/secondary mathematics education students

2018—2019: Fourteen (14) mathematics/secondary mathematics education students

2017—2018: Thirteen (13) mathematics/secondary mathematics education students

2016—2017: Fourteen (14) mathematics/secondary mathematics education students

2015—2016: Thirteen (13) secondary mathematics education students

2014—2015: Fourteen (14) secondary mathematics education students

2013—2014: Five (5) secondary mathematics education students

Graduate

Courses Taught:

MATH 604: Ethnomathematics

Elective course for master's of mathematics education students.

MATH 697: Topics in Mathematics Education: Development and Use of Manipulative Materials in Teaching Mathematics

Elective course for master's of mathematics education students.

Student Research

Chair of MEd Thesis for Andrea Mast, Spring 2019.

Thesis Title: *The mathematical learning experience for sheltered mathematics classroom teachers*

Chair of MEd Independent Study Student Research Project for Andrea Mast, Spring 2018. Project Title: *The mathematical learning experience for ELL high school students*

Chair of MEd Thesis for Lindsay Eisenhut, June 2015.

Thesis Title: *In-class practices of flipped mathematics educators*

Chair of MEd Independent Study Student Research Project for Lindsay Eisenhut, Fall 2014. Project Title: *Flipped classrooms at the secondary level*

Co-chair of MEd Independent Study Student Research Project for Megan Rehm, Spring 2013—Fall 2013. Project Title: *Maya calendars: Ethnomathematics in the classroom*

Chair of MEd Thesis for Brianna Pezzato, Spring 2013—Fall 2013.

Thesis Title: *Secondary mathematics teachers' experiences with Edmodo*

Graduate Advising at Millersville University:

2021—2022: Program advisor of two (2) master of education in mathematics program participants

2020—2021: Program advisor of three (3) master of education in mathematics program participants

2019—2020: Program advisor of four (4) master of education in mathematics program participants

2018—2019: Program advisor of five (5) master of education in mathematics program participants

2017—2018: Program advisor of seven (7) master of education in mathematics program participants

2016—2017: Program advisor of four (4) master of education in mathematics program participants

2015—2016: Program advisor of five (5) master of education in mathematics program participants

participants

2014—2015: Program advisor of four (4) master of education in mathematics program participants

2013—2014: Program advisor of four (4) master of education in mathematics program participants

2012—2013: Program advisor of four (4) master of education in mathematics program participants

SCHOLARLY ACTIVITY

PUBLICATIONS

Books Authored

Jackson, C., **Taylor, C. E.**, Jurgenson, K., & Stagg, J. (in press). *Powerful Mathematicians who Changed the World Agnes Meyer Driscoll 6-8 Grade Band Book 1*. National Council of Teachers of Mathematics.

Jackson, C., **Taylor, C. E.**, Buchheister, K., Jurgenson, K., Stagg, J., & Kaaba, V. (in press). *Powerful Mathematicians who Changed the World from A to Z*. National Council of Teachers of Mathematics.

Peer-reviewed journal articles

Jackson, C., Buchheister, K., & **Taylor, C. E.** (2023). A planning framework foregrounding equity in mathematics teaching and learning. *Investigations in Mathematics Learning*, 15(2), p. 103-117. <https://doi.org/10.1080/19477503.2022.2150462>

Buchheister, K. W., Jackson, C., & **Taylor, C. E.** (2023). Fostering cultural community wealth: Using community centered phenomena to develop paramount tasks. *Science and Children*, 60(4), p. 59-63.

Taylor, C. E., Jackson, C., & Buchheister, K. (2022). Planning paramount tasks from culturally rich literature. *Mathematics Teacher: Learning and Teaching PK-12*, 115(7), p. 502-506. <https://doi.org/10.5951/MTLT.2021.0172>

Buchheister, K., Jackson, C., & **Taylor, C. E.** (2021). Using the what-how-who structure to plan an equitable mathematics lesson. *Teaching Equity and Excellence in Mathematics*, 12(2), 16-24.

- Appova, A. & **Taylor, C. E.** (2020). Providing opportunities to develop prospective teachers' pedagogical content knowledge. *The Mathematics Enthusiast*, 17(2 & 3), 673-724.
<https://doi.org/10.54870/1551-3440.1501>
- Taylor, C. E.** & Smith, R.C. (2019). Secondary mathematics teacher educators' interpretations of the situative perspective. *The Mathematics Educator*, 28(2), 52-75.
- Appova, A. & **Taylor, C. E.** (2019). Expert mathematics teacher educators' practices for providing prospective teachers with opportunities to develop pedagogical content knowledge in content courses. *Journal of Mathematics Teacher Education*, 22(2), 179-204. <https://doi.org/10.1007/s10857-017-9385-z>
- Buchheister, K., Jackson, C., & **Taylor, C. E.** (2019). "Sliding" into an equitable lesson. *Teaching Children Mathematics*, 25(4), 224-231.
<https://doi.org/10.5951/teacchilmath.25.4.0224>
- Buchheister, K., Jackson, C., & **Taylor, C. E.** (2019). What, how, who: Developing mathematical discourse. *Mathematics Teaching in the Middle School*, 24(4), 202-208.
<https://doi.org/10.5951/mathteachmidscho.24.4.0202>
- Buchheister, K., Jackson, C., & **Taylor, C. E.** (2017). Maths games: A universal design approach to mathematical reasoning. *Australian Primary Mathematics Classroom*, 22(4), 7-12.
- Eisenhut, L. & **Taylor, C. E.** (2015). In class purposes of flipped mathematics educators. *Journal of Mathematics Education at Teachers College* 6(2), 17-25.
<https://doi.org/10.7916/jmetc.v6i2.615>
- Taylor, C. E.**, Rehm, M., & Catepillán, X. (2015). Maya calendars in the classroom. *Mathematics Teaching in the Middle School*, 21(2), 106-113.
<https://doi.org/10.5951/mathteachmidscho.21.2.0106>
- Buchheister, K., Jackson, C., & **Taylor, C.** (2015). An inside track: Fostering mathematical practices. *Teaching Children Mathematics*, 22(1), 28-35.
<https://doi.org/10.5951/teacchilmath.22.1.0028>
- Buchheister, K., Jackson, C., & **Taylor, C. E.** (2014). Integrating universal design and response to intervention in methods courses for general education mathematics teachers. *Journal of Mathematics Education at Teachers College*, 5(2), 63-71.
- Taylor, C.**, Buchheister, K., & Jackson, C. (2014). Problem Solvers: Solutions: What is the best option? *Teaching Children Mathematics*, 21(4), 203-206.
<https://doi.org/10.5951/teacchilmath.21.4.0203>

Taylor, C., Buchheister, K., & Jackson, C. (2013). What is the best option? *Teaching Children Mathematics*, 20(4), 216-220. <https://doi.org/10.5951/teacchilmath.20.4.0216>

Lannin, J. K., Webb, M., Arbaugh, F., Chval, K. B., Hicks, S., **Taylor, C.** & Bruton, R. (2013). The development of beginning mathematics teacher pedagogical content knowledge. *Journal of Mathematics Teacher Education*, 16(6), 403-426. <https://doi.org/10.1007/s10857-013-9244-5>

Wilburne, J. W. & **Taylor, C. E.** (2013). The common core mathematics classroom: Essential student practices. *Pennsylvania Educational Leadership*, 32(2), 7-18.

Jackson, C., **Taylor, C. E.**, & Buchheister, K. (2013). Bingo! Select games for mathematical thinking. *Mathematics Teaching in the Middle School*, 18(7), 424-429. <https://doi.org/10.5951/mathteacmiddscho.18.7.0424>

Van Zoest, L. R., Stockero, S. L., & **Taylor, C. E.** (2012). The durability of professional and sociomathematical norms intentionally fostered in an early pedagogy course. *Journal of Mathematics Teacher Education*, 15(4), 293-315. <https://doi.org/10.1007/s10857-011-9183-y>

Book Chapters

Jackson, C., **Taylor, C. E.**, & Buchheister, K. (2018). *Seeing mathematics through different eyes: An equitable approach to use with prospective teachers*. In T. Bartell (Ed), *Toward equity and social justice in mathematics education* (pp. 263-285). Cham, Switzerland: Springer.

Smith, R. C., **Taylor, C. E.**, & Shin, D. (2018). *Theoretical perspectives, goals, and activities for secondary mathematics education methods courses*. In S. Kastberg, A. M. Tyminski, A. Lischka, & W. Sanchez (Eds.), *Building support for scholarly practices in mathematics methods* (pp. 311-324). Charlotte, NC: Information Age Publishing.

Taylor C. E., Rehm, M., & Catepillán, X. (2018). Maya calendars: Mathematics and culture mixed in the classroom. In S. McMillen, E. Friedland, and P. del Prado Hill (Eds.), *Integrating Math across the K-6 Curriculum*. Reston, VA: NCTM.

Buchheister, K., Jackson, C., & **Taylor, C. E.** (2017). Defining effective learning tasks for all. In C. Martin & D. Polly (Eds.), *Handbook of research on teacher education and professional development* (pp. 561-581). IGI Global.

Editor-reviewed journal articles

Taylor, C. E. (2022). Preservice teacher day at Millersville University. *PCTM Magazine*, LX(2/3), 6 – 7.

Taylor, C. E. (2018). Preservice teacher day at Millersville University. *PCTM Magazine*, LVI(2), 34.

Taylor, C. E. (2018). Preservice teacher day at Millersville University. *Pennsylvania Association of Mathematics Teacher Educators Newsletter* (pp. 4-5), Winter 2018.

Taylor, C. E., Blum, D., & Falci, C. (2013). Factoring trinomials using the ARCH method. *PCTM Magazine*, LII(1), 9-10.

Newsletter articles

Taylor, C. E. (2020). President's message. *Pennsylvania Association of Mathematics Teacher Educators Newsletter* (pp. 1), Winter 2020.

Taylor, C. E. (2019). President's message. *Pennsylvania Association of Mathematics Teacher Educators Newsletter* (pp. 1-2), Summer 2019.

Taylor, C. E. (2019). President's message: Answering why. *Pennsylvania Association of Mathematics Teacher Educators Newsletter* (pp. 1), Winter 2019.

Taylor, C. E. (2018). President's message: Addressing the mathematics teacher shortage: What can we do to recruit future teachers?. *Pennsylvania Association of Mathematics Teacher Educators Newsletter* (pp. 1), Summer 2018.

Peer-reviewed published conference proceedings

*Jackson, C., Buchheister, K., & **Taylor, C. E.** (2021). Becoming aware: An equity noticing framework. In Olanoff, D., Johnson, K., & Spitzer, S. (eds.). *Proceedings of the forty-third Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 153 - 158). Philadelphia, PA.

*Welder, R. M., Appova, A., Olanoff, D., **Taylor, C. E.**, & Kulow, T. (2016). Improving preservice elementary teacher education through the preparation and support of elementary mathematics teacher educators. In Wood, M.B., Turner, E.E., Civil, M., & Eli, J.A. (Eds.). *Proceedings of the 38th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 1713-1722). Tucson, AZ: The University of Arizona.

*Jackson, C., **Taylor, C. E.**, & Buchheister, K. (2015). What is equity? Ways of seeing. In Bartell, T.G., Beida, K.N., Putnam, R.T., Bradfield, K., & Dominguez, H. (Eds.). *Proceedings of the 37th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 510-517). East Lansing, MI: Michigan State University.

- ***Taylor, C. E.** & Appova, A. (2015). Mathematics teacher educators' purposes for K-8 content courses. In Beswick, K., Muir, T., & Wells, J. (Eds.), *Proceedings of the 39th Psychology of Mathematics Education conference*, Vol. 4, pp. 241-248. Hobart, Australia: PME.
- ***Taylor, C. E.** (2013). Facilitating prospective teachers' knowledge of student understanding: The case of one mathematics teacher educator. In Lindmeier, A. M. & Heinze, A. (Eds.), *Proceedings of the 37th Conference of the International Group for the Psychology of Mathematics Education*, Vol. 4, pp. 273-280. Kiel, Germany: PME.
- *Stockero, S. L., Van Zoest, L. R., & **Taylor, C. E.** (2010). Characterizing pivotal teaching moments in beginning mathematics teachers' practice. In Brosnan, P., Erchick, D. B., & Flevares, L. (Eds.), *Proceedings of the 32nd annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, Vol. VI, pp. 1403-1410. Columbus, OH: The Ohio State University.
- *Van Zoest, L. R., Stockero, S. L., & **Taylor, C. E.** (2010). Professional and sociomathematical norms exhibited by prospective and beginning teachers. In M. F. Pinto & T. F. Kawaski (Eds.), *Proceedings of the 34th Conference of the International Group for the Psychology of Mathematics Education*, Vol. 4, pp. 265-272. Belo Horizonte, Brazil: PME.
- *Van Zoest, L. R., Stockero, S. L., & **Taylor, C. E.** (2009). Durability of professional and sociomathematical norms fostered in a mathematics methods course. In S. L. Swars, D. W. Stinson & S. Lemons-Smith (Eds.), *Proceedings of the 31st annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, Vol. 5, pp. 1236-1243. Atlanta, GA: Georgia State University.

Unpublished White Paper

Taylor, C. E., Marcum-Dietrich, N., Ramos-Sepulveda, L., Washington, T., Yalda, S., & Williams, A. (2023). Building capacity to identify and address the needs and challenges of STEM education majors [White paper].

Manuscripts under review and in preparation

Jackson, C., Buchheister, K. W., & **Taylor, C. E.** (accepted June 20, 2023). Attending to what prospective teachers notice about students' intersecting identities. *School Science & Mathematics*.

Jackson, C., Buchheister, K., & **Taylor, C. E.** (accepted June 5, 2023). Interpreting prospective teachers' responses to inequities in a written vignette: A plan for action. *School Science & Mathematics*.

Jackson, C., **Taylor, C. E.**, Jurgenson, K., & Goldstein, D. (under development). *Powerful Mathematicians who Changed the World Doris Schattschneider 6-8 Grade Band Book 2*. National Council of Teachers of Mathematics.

INVITED TWITTER CHATS

Buchheister, K. E., Jackson, C. & **Taylor, C. E.** (2018, January). *What-how-who: Developing mathematical discourse*. National Council of Teachers of Mathematics Twitter Chat *Mathematics Teaching in the Middle School*.

Buchheister, K. E., Jackson, C. & **Taylor, C. E.** (2018, January). “*Sliding*” into an equitable lesson. National Council of Teachers of Mathematics Twitter Chat for *Teaching Children Mathematics*.

PRESENTATIONS

* Peer Referred

Invited

Taylor, C. E., Primus-Smith, N., & Thyrum, E. (2022, February). *Honors College Pane: What’s involved with advising an Honors Thesis? Everything you want to know*. Presentation to MU faculty interested in mentoring Honors College Students. Millersville, PA.

Bondurant, L., **Taylor, C. E.**, & DuCloux, K. K. (2019, February). *How do affiliates apply problem solving processes to current issues in mathematics?* Invited presentation at the annual meeting of the Association of Mathematics Teacher Educators (AMTE). Orlando, FL.

Taylor, C. E., Buchheister, K. E., & Jackson, C. (2018, April). *Through the looking glass—Using literature as windows into equity in early mathematics*. Invited Reflection Cove speaker at the annual meeting of the National Council of Teachers of Mathematics, Washington D.C.

***Taylor, C. E.** & Evitts, T. (2017, May). *Standards for preparing teachers of mathematics*. Presentation at the annual meeting of the Pennsylvania Association of Mathematics Teacher Educators (PAMTE). Shippensburg, PA.

Taylor, C. E. (2015, March). *Mathematics teacher educator actions*. Presentation at the Collaborative Mathematics Education Research Group sponsored by Saint Joseph’s University. Philadelphia, PA.

International

***Taylor, C. E.** (2021, December). *Algunos conceptos matemáticos en el primer triángulo Shongo* (Some mathematical concepts in the first Shongo triangle). Presentation (virtual) at the 89th annual meeting of the Chilean Mathematical Society.

- ***Taylor, C. E.** & Appova, A. (2015, July). *Mathematics teacher educators' purposes for K-8 content courses*. Paper presented at the International Group for the Psychology of Mathematics Education (PME). Hobart, Australia.
- ***Taylor, C. E.** (2013, August). *Facilitating prospective teachers' knowledge of student understanding: The case on one mathematics teacher educator*. Paper presented at the International Group for the Psychology of Mathematics Education (PME). Kiel, Germany.
- *Van Zoest, L. R., Stockero, S. L., & **Taylor, C. E.** (2010, July). *Professional and sociomathematical norms exhibited by prospective and beginning teachers*. Paper presented at the International Group for the Psychology of Mathematics Education (PME). Belo Horizonte, Brazil.

National

- *Buchheister, K. W., Jackson, C., & **Taylor, C. E.** (2024, February, accepted August 11, 2023). *The power of paramount tasks in mathematics teaching and learning*. Presentation at the annual meeting of the Association of Mathematics Teacher Educators Annual Meeting (AMTE). Orlando, FL.
- *Jackson, C., **Taylor, C. E.** & Buchheister, K. (2023, February). *What-how-who: A lesson planning framework*. Presentation at the annual meeting of the Association of Mathematics Teacher Educators Annual Meeting (AMTE). New Orleans, LA.
- *Buchheister, K., Jackson, & **Taylor, C. E.** (2022, September). *(En)visioning mathematical tasks through culturally-rich, content-invisible literature*. Presentation at the annual meeting of the National Council of Teachers of Mathematics (NCTM). Los Angeles, CA.
- *Jackson, C., Buchheister, K., & **Taylor, C. E.** (2022, February). *Using a written vignette as a tool to build prospective teachers' equitable noticing*. Presentation at the annual meeting of the Association of Mathematics Teacher Educators Annual Meeting (AMTE). Las Vegas, NV.
- * **Taylor, C. E.**, Jackson, C., & Buchheister, K. (2021, October). *An equity noticing framework: Becoming aware*. Presentation at the annual meeting of the School Science and Mathematics Association (SSMA). Virtual Conference.
- *Jackson, C., Buchheister, K., & **Taylor, C. E.** (2021, October). *Becoming aware: An equity noticing framework*. Paper presented at the annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Philadelphia, PA.
- ***Taylor, C. E.** & White, J. A. (2021, September). *Peer mentor leadership development for secondary mathematics education majors*. Presentation at the annual meeting of the

- National Council of Teachers of Mathematics (NCTM). Atlanta, GA. (Conference canceled)
- ***Taylor, C. E.** & White, J. A. (2021, May). *Mentoring for the retention of future secondary mathematics teachers*. Presentation at the virtual annual meeting of the National Council of Teachers of Mathematics (NCTM).
- *Jackson, C., **Taylor, C. E.**, & Buchheister, K. (2021, April). *Using children's literature to plan culturally rich mathematical tasks*. Presentation at the virtual annual meeting of the National Council of Teachers of Mathematics (NCTM).
- *Jackson, C., Roberts, T., **Taylor, C. E.**, & Buchheister, K. (2021, April). *Using classroom vignettes to reveal what prospective teachers notice*. Presentation at the virtual annual meeting of the American Educational Research Association (AERA).
- *Jackson, C., **Taylor, C. E.**, & Buchheister, K. E. (2020, April). *Conceptualization of an equity noticing framework*. Presentation at the annual meeting of the American Educational Research Association (AERA). San Francisco, CA. (Conference canceled)
- ***Taylor, C. E.**, Buchheister, K. E., & Jackson, C. (2020, April). *A framework to open dialogue and self-reflection on equitable mathematics instruction*. Presentation at the annual meeting of the National Council of Teachers of Mathematics (NCTM). Chicago, IL. (Conference canceled)
- *Buchheister, K. E., Jackson, C. & **Taylor, C. E.** (2020, March). *Starting the conversation: Using video cases to reflect on equitable mathematics instruction*. Presentation at the annual meeting of the National Council of Supervisors of Mathematics (NCSM). Chicago, IL. (Conference canceled)
- *Jackson, C., **Taylor, C. E.**, & Buchheister, K. E. (2020, February). *Equity noticing framework—A tool for mathematics teacher educators*. Presentation at the annual meeting of the Association of Mathematics Teacher Educators Annual Meeting (AMTE). Phoenix, AZ.
- *Buchheister, K. E., Jackson, C., & **Taylor, C. E.** (2019, November). *Using children's literature as a foundation for rigorous mathematics tasks*. Presentation at the annual meeting of the School Science and Mathematics Association (SSMA). Salt Lake City, UT.
- *Jackson, C., Buchheister, K. E., & **Taylor, C. E.** (2019, April). *Identifying equitable mathematics instruction*. Presentation at the annual meeting of the National Council of Teachers of Mathematics (NCTM). San Diego, CA.
- ***Taylor, C. E.**, Jackson, C., & Buchheister, K. E. (2019, April). *What-how-who: Structuring mathematical discourse*. Presentation at the annual meeting of the National Council of Teachers of Mathematics (NCTM). San Diego, CA.

- ***Taylor, C. E.**, Jackson, C., & Buchheister, K. E. (2019, February). *Oh, say can you see? A vision of equitable instruction*. Presentation at the annual meeting of the Association of Mathematics Teacher Educators Annual Meeting (AMTE). Orlando, FL.
- *Jackson, C., Buchheister, K. E., & Taylor, C. E. (2018, October). *Do you see what I see? Developing a new frame of reference*. Presentation at the annual meeting of the School Science and Mathematics Association (SSMA). Little Rock, AK.
- ***Taylor, C. E.**, Buchheister, K. E., & Jackson, C., (2018, April). *Through the looking glass—Using literature as windows into equity in early mathematics*. Presentation at the annual meeting of the National Council of Teachers of Mathematics (NCTM). Washington, DC.
- * White, J., **Taylor, C. E.**, & Wismer, M. (2018, February). *Three Courses Designed to Develop and Expand Middle Level Preservice Teachers' Mathematical Content Capacities*. Presentation at the annual meeting of the Association of Mathematics Teacher Educators Annual Meeting (AMTE). Houston, TX.
- * Smith, R. C., **Taylor, C. E.**, & Shin, D. (2018, February). *Secondary Mathematics Methods Course Goals and Activities*. Presentation at the annual meeting of the Association of Mathematics Teacher Educators Annual Meeting (AMTE). Houston, TX.
- *Sanchez, W., Fox, R., **Taylor, C.**, Kastberg, S., Lischka, A., Tyminski, A., Casey, S., & Smith, R. (2017, April). *Variation and intentionality in teaching mathematics methods courses*. Presentation at the annual meeting of the National Council of Teachers of Mathematics 2017 Research Conference. San Antonio, TX.
- *Jackson, C., Buchheister, K. E., & **Taylor, C. E.** (2017, February). *Seeing what was once unseen*. Presentation at the annual meeting of the Association of Mathematics Teacher Educators Annual Meeting (AMTE). Orlando, FL.
- * **Taylor, C. E.**, Smith, R. C., & Shin, D. (2017, February). *Secondary Mathematics Teacher Educators' Methods Course Goals, Tasks, and Perspectives*. Presentation at the annual meeting of the Association of Mathematics Teacher Educators Annual Meeting (AMTE). Orlando, FL.
- *Welder, R. M., Appova, A., Olanoff, D., **Taylor, C. E.**, & Kulow, T. (2016, November). *Improving preservice elementary teacher education through the preparation and support of elementary mathematics teacher educators*. Working group presentation at the Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. Tucson, AZ.
- *Moss, E. R. & **Taylor, C. E.** (2016, April). *Exploring regrouping across multiple contexts*. Presentation at the annual meeting of the National Council of Teachers of Mathematics (NCTM). San Francisco, CA.

- *Buchheister, K. E., **Taylor, C. E.**, Jackson, C. (2016, April). *Discerning geometric patterns and structure through games*. Presentation at the annual meeting of the National Council of Teachers of Mathematics (NCTM). San Francisco, CA.
- ***Taylor, C. E.**, Jackson, C., & Buchheister, K. E. (2016, April). *Visualizing instructional equity*. Presentation at the annual meeting of the National Council of Teachers of Mathematics (NCTM). San Francisco, CA.
- ***Taylor, C. E.**, Appova, A., Welder, R. M., & Feldman, Z. (2016, January). *Supporting mathematics teacher educators' work with prospective elementary teachers: A look through multiple perspectives*. Presentation at the annual meeting of the Association of Mathematics Teacher Educators Annual Meeting (AMTE). Irvine, CA.
- *Jackson, C., **Taylor, C. E.**, & Buchheister, K. E. (2015, November). *What is equity? Ways of seeing*. Paper presented at the Psychology of Mathematics Education – North American Chapter Conference (PME~NA). East Lansing, MI.
- *Rehm, M. R., **Taylor, C. E.**, & Catepillán, X. (2015, August). *Maya calendars*. Presentation at the annual summer meeting of the Mathematical Association of America (MAA). Washington, DC.
- *Appova, A. & **Taylor, C. E.** (2015, February). *Instructional practices of experienced mathematics teacher educators teaching K-8 content courses*. Presentation at the annual meeting of the Association of Mathematics Teacher Educators Annual Meeting (AMTE). Orlando, FL.
- ***Taylor, C. E.** (2015, January). *Shongo networks—A sand graph*. Presentation at the annual Joint Meetings of the Mathematical Association of America (MAA) and the American Mathematical Society (AMS). San Antonio, TX.
- ***Taylor, C. E.** (2014, August). *Mathematics teacher educators' practices in K-8 content courses*. Poster session presented at the annual summer meeting of the Mathematical Association of America (MAA). Portland, OR.
- *Catepillán, X. & **Taylor, C. E.** (2014, August). *An Ethnomathematics graduate course*. Presentation at the annual summer meeting of the Mathematical Association of America (MAA). Portland, OR.
- *Appova, A. & **Taylor, C. E.** (2014, April). *Mathematics teacher educators' classroom practices from K-8 mathematics content courses*. Paper presented at the Research Pre-session of the annual meeting of National Council of Teachers of Mathematics (NCTM). New Orleans, LA.
- *Buchheister, K. E., Jackson, C., & **Taylor, C. E.** (2014, April). *Developing prospective teachers' awareness of the Common Core in elementary methods and content courses*.

Paper presented at the annual meeting of the American Educational Research Association (AERA). Philadelphia, PA.

*Appova, A. & **Taylor, C. E.** (2014 April). *Mathematics teacher educators' classroom practices: K-8 mathematics content courses*. Paper presented at the annual meeting of the American Educational Research Association (AERA). Philadelphia, PA.

***Taylor, C. E.**, Buchheister, K. E., & Jackson, C. (2014, February). *Actions elementary mathematics teacher educators use to develop prospective teachers' awareness of the CCSSM*. Presentation at the annual meeting of the Association of Mathematics Teacher Educators Annual Meeting (AMTE). Irvine, CA.

Catepillán, X. & **Taylor, C. E.** (2014, January). *A Kin Relations Lesson in Ethnomathematics: A Tribute to Marcia Ascher*. Presentation at the annual Joint Meetings of the Mathematical Association of America (MAA) and the American Mathematical Society (AMS). Baltimore, MD.

Taylor, C. E., Jackson, C. & Buchheister, K. E. (2013, September). *E²M²T²EP: Examining elementary mathematics methods teacher educators' practices*. Presentation at the Center for the Study of Mathematics Curriculum (CSMC) Research Conference: Studying Implementation and Impact of Common Core State Standards for Mathematics. Atlanta, GA.

***Taylor, C. E.** (2013, April). *Actions a math teacher educator employs during whole group instruction*. Presentation at the Research Pre-session of the annual meeting of the National Council of Teachers of Mathematics (NCTM). Denver, CO.

***Taylor, C. E.** (2013, January). *Actions a mathematics teacher educator uses to enhance prospective teachers' knowledge of instructional strategies*. Presentation at the annual meeting of the Association of Mathematics Teacher Educators Annual Meeting (AMTE). Orlando, FL.

Taylor, C. E., Buchheister, K. E., & Jackson, C. (2013, January). *Mathematics teacher educators promoting the CCSSM in elementary teacher preparation courses*. Poster session presented at the annual meeting of the Association of Mathematics Teacher Educators Annual Meeting (AMTE). Orlando, FL.

*Lannin, J., Chval, K. B., Arbaugh, F., Langrall, C., **Taylor, C. E.**, Webb, M., Hicks, S., & Bruton, R. (2012, April). *Investigating secondary mathematics teacher PCK across the professional continuum*. Presentation at the Research Pre-session of the annual meeting of the National Council of Teachers of Mathematics (NCTM). Philadelphia, PA.

*Arbaugh, F., **Taylor, C. E.**, Bruton, R., Chval, K. B., & Webb, M. (2012, April). *Examining expert secondary mathematics teachers' thinking about mathematics instruction*. Poster session presented at the annual meeting of the American Educational Research Association (AERA). Vancouver, BC.

- *Lannin, J. K., Webb, M., Chval, K. B., Arbaugh, F., **Taylor, C. E.**, & Bruton, R. (2012, April). *The development of beginning mathematics teacher pedagogical content knowledge*. Paper presented at the annual meeting of the American Educational Research Association (AERA). Vancouver, BC.
- ***Taylor, C. E.** (2012, February). *Actions a mathematics teacher educator uses to develop prospective teachers' pedagogical content knowledge*. Presentation at the annual meeting of the Association of Mathematics Teacher Educators Annual Meeting (AMTE). Fort Worth, TX.
- *Van Zoest, L. R., Stockero, S. L., & **Taylor, C. E.**, (2012, February). *Supporting generative teacher learning by cultivating productive sociomathematical norms in mathematics teacher education*. Presentation at the annual meeting of the Association of Mathematics Teacher Educators Annual Meeting (AMTE). Fort Worth, TX.
- *Stockero, S. L., Van Zoest, L. R., & **Taylor, C. E.** (2011, January). *Pivotal teaching moments*. Presentation at the annual meeting of the Association of Mathematics Teacher Educators Annual Meeting (AMTE). Irvine, CA.
- *Stockero, S. L., Van Zoest, L. R., & **Taylor, C. E.** (2010, October). *Characterizing pivotal teaching moments in beginning mathematics teachers' practice*. Paper presented at the Psychology of Mathematics Education – North American Chapter Conference (PME~NA). Columbus, OH.
- *Van Zoest, L. R., Stockero, S. L., **Taylor, C. E.**, & Strom, D. (2010, April). *Pivotal moments in beginning mathematics teachers' practice*. Poster session presented at the Research Pre-session of the annual meeting of National Council of Teachers of Mathematics (NCTM). San Diego, CA.
- *Van Zoest, L. R., Stockero, S. L., **Taylor, C. E.**, Mumme, J., & Elliott, R. (2010, January). *The role of sociomathematical and professional norms in mathematics teacher education*. Presentation at the annual meeting of the Association of Mathematics Teacher Educators Annual Meeting (AMTE). Irvine, CA.
- *Van Zoest, L. R., Stockero, S. L., & **Taylor, C. E.** (2009, September). *Durability of professional and sociomathematical norms fostered in a mathematics methods course*. Paper presented at the Psychology of Mathematics Education – North American Chapter Conference (PME~NA). Atlanta, GA.
- *Stockero, S. L., Van Zoest, L. R., **Taylor, C. E.**, Mumme, J., Carroll, C., Santagata, R., Linsenmeier, K., & Sherin, M. G. (2009, April). *Studying and supporting video-based learning for teachers*. Presentation at the Research Pre-session of the annual meeting of National Council of Teachers of Mathematics (NCTM). Washington, DC.

*Van Zoest, L. R., Stockero, S. L., **Taylor, C. E.**, & Kratky, J. (2009, February). *Durability of learning outcomes from preservice experiences with practice-based video materials*. Presentation at the annual meeting of the Association of Mathematics Teacher Educators Annual Meeting (AMTE). Orlando, FL.

*Arbaugh, F., Smith, M. S., Steele, M., & **Taylor, C. E.** (2009, February). *Cases of reasoning and proving (CORP): Materials for secondary mathematics teacher education*. Presentation at the annual meeting of the Association of Mathematics Teacher Educators Annual Meeting (AMTE). Orlando, FL.

Taylor, C. E. (2009, February). *Cases of reasoning and proving in secondary mathematics (CORP)*. Poster session presented at research meeting of the Center for the Study of Mathematics Curriculum (CSMC). Phoenix, AZ.

Taylor, C. E. (2009, February). *Durability of preservice teacher learning from using a video curriculum in a methods course*. Poster session presented at research meeting of the Center for the Study of Mathematics Curriculum (CSMC). Phoenix, AZ.

Taylor, C. E. (2008, May). *Elementary preservice teacher summative assessment beliefs*. Presentation at the doctoral student retreat of the Center for the Study of Mathematics Curriculum (CSMC). East Lansing, MI.

Taylor, C. E. (2008, February). *Cases of reasoning and proving in secondary mathematics (CORP)*. Poster session presented at research meeting of the Center for the Study of Mathematics Curriculum (CSMC). Phoenix, AZ.

Regional

***Taylor, C. E.** (2015, October). *Algebra by paper folding*. Presentation at the National Council of Teachers of Mathematics (NCTM) regional conference and exposition. Atlantic City, NJ.

Taylor, C. E. (2013, October). *Careers in Mathematics*. Panel member for the 2013 Eastern Pennsylvania and Delaware (EPaDel) Section of the Mathematical Association of America (MAA) Careers in Mathematics Conference. Philadelphia, PA.

Taylor, C. E. (2013, April). *Examining elementary mathematics teacher educators' practices*. Presentation at the Eastern Pennsylvania and Delaware Section of the Mathematical Association of America Spring Meeting (EPaDel). Carlisle, PA.

State

Taylor, C. E., Dick, L., Hummer, J., Wolbert, R., & Long, V. (2023, May). *Recruitment and retention efforts across Pennsylvania*. Presentation at the annual meeting of the

Pennsylvania Association of Mathematics Teacher Educators (PAMTE). Shippensburg, PA.

Foletta, G. M., Zbiek, R. M., Heid, M. K., Nagle, C., & **Taylor, C. E.** (2022, May). *Sharing session – The Robert Noyce teacher scholarship program*. Presentation at the annual meeting of the Pennsylvania Association of Mathematics Teacher Educators (PAMTE). Shippensburg, PA.

Taylor, C. E. & White, J. (2021, May). *Returning to F2F: What Instructional Strategies Will You Retain?* Presentation at the virtual annual meeting of the Pennsylvania Association of Mathematics Teacher Educators (PAMTE).

Taylor, C. E., White, J., & Wismer, M. (2020, May). *Leadership Development for Mathematics Major Mentors*. Presentation at the annual meeting of the Pennsylvania Association of Mathematics Teacher Educators (PAMTE). Shippensburg, PA. (Conference canceled)

Brent, K., Gochenauer, D., Kennedy, D., & **Taylor, C. E.** (2020, May). *Special Presidents' Session*. Presentation at the annual meeting of the Pennsylvania Association of Mathematics Teacher Educators (PAMTE). Shippensburg, PA. (Conference canceled)

Taylor, C. E. (2018, October). *Using Children's Literature in Early Mathematics in an Equitable Way*. Presentation at the 2nd annual PreService Mathematics Teacher Day Conference. Philadelphia, PA.

***Taylor, C. E.** & White, J. (2018, May). *Recruitment—What works?* Presentation at the annual meeting of the Pennsylvania Association of Mathematics Teacher Educators (PAMTE). Shippensburg, PA.

* **Taylor, C. E.**, Washington, T., & Columba, L. (2017, August). *First time attendees*. Presentation at the annual meeting of the Pennsylvania Council of Teachers of Mathematics (PCTM). Harrisburg, PA.

* **Taylor, C. E.**, Washington, T., & Columba, L. (2016, August). *First time attendees*. Presentation at the annual meeting of the Pennsylvania Council of Teachers of Mathematics (PCTM). Seven Springs, PA.

***Taylor, C. E.** (2016, May). *Secondary mathematics methods course instructors' theoretical perspectives, goals, and tasks*. Presentation at the annual meeting of the Pennsylvania Association of Mathematics Teacher Educators (PAMTE). Shippensburg, PA.

*Rehm, M.A., **Taylor, C. E.**, & Catepillán, X. (2015, August). *Maya calendars in the classroom*. Presentation at the annual meeting of the Pennsylvania Council of Teachers of Mathematics (PCTM). Lancaster, PA.

- * **Taylor, C. E.**, & Washington, T. (2015, August). *Writing for the PCTM magazine*. Presentation at the annual meeting of the Pennsylvania Council of Teachers of Mathematics (PCTM). Lancaster, PA.
- Washington, T. & **Taylor, C. E.** (2015, May). *Writing for PCTM magazine*. Presentation at the annual meeting of the Pennsylvania Association of Mathematics Teacher Educators (PAMTE). Shippensburg, PA.
- ***Taylor, C. E.** (2014, November). *Geometry concepts by paper folding*. Presentation at the annual meeting of the Pennsylvania Council of Teachers of Mathematics (PCTM). Harrisburg, PA.
- ***Taylor, C. E.** (2013, November). *A fun and exciting way to teach factoring trinomials*. Presentation at the annual meeting of the Pennsylvania Council of Teachers of Mathematics (PCTM). Seven Springs, PA.
- ***Taylor, C. E.** (2012, October). *Selecting games that enhance mathematical understanding*. Presentation at the annual meeting of the Pennsylvania Council of Teachers of Mathematics (PCTM). Camp-Hill, PA.
- ***Taylor, C. E.** (2009, December). *Introducing a plethora of geometric information through paper folding*. Presentation at the annual meeting of the Missouri Council of Teachers of Mathematics (MCTM). Columbia, MO.
- *Jackson, C., Buchheister, K., & **Taylor, C. E.** (2009, December). *Selecting games: Things to consider*. Presentation at the annual meeting of the Missouri Council of Teachers of Mathematics (MCTM). Columbia, MO.
- *Hicks, S., & **Taylor, C. E.** (2008, December). *Working with 3-D models: Investigating the levels of abstraction*. Presentation at the annual meeting of the Missouri Council of Teachers of Mathematics (MCTM). Columbia, MO.
- *Jackson, C., **Taylor, C. E.**, & Buchheister, K. (2008, December). *Product bingo*. Presentation at the annual meeting of the Missouri Council of Teachers of Mathematics (MCTM). Columbia, MO.
- ***Taylor, C. E.** (2008, December). *Starting (or ending) your math class with a bang!* Presentation at the annual meeting of the Missouri Council of Teachers of Mathematics (MCTM). Columbia, MO.
- *Reys, R., Nevels, N., & **Taylor, C. E.** (2007, December). *A doctorate in mathematics education: A shortage exists and reflections from former mathematics teachers pursuing a Ph.D.* Presentation at the annual meeting of the Missouri Council of Teachers of Mathematics (MCTM). Columbia, MO.

Local

- Taylor, C. E.** (2023, June). *Ethnomathematics*. Presentation to Millersville University School of Science and Mathematics 36th Annual Summer Science Training Program (SSTP). Millersville, PA.
- Taylor, C. E.** (2022, June). *Ethnomathematics*. Presentation to Millersville University School of Science and Mathematics 35th Annual Summer Science Training Program (SSTP). Millersville, PA.
- Taylor, C. E.** (2020, February). *Move the cone challenge*. Presentation to members of Mathematics Educators at Millersville University (MEMU). Millersville, PA.
- Taylor, C. E.** (2019, November). *Texas Instruments robot challenge*. Presentation to members of Mathematics Educators at Millersville University (MEMU). Millersville, PA.
- Taylor, C. E.** (2019, April). *Coding with Texas Instruments innovator rover: Educational robotic vehicle*. Presentation to members of Mathematics Educators at Millersville University (MEMU). Millersville, PA.
- Taylor, C. E.,** Primus-Smith, N., & Thyrum, E. (2019, March). *Beyond MU: Preparing for graduate school now*. Presentation to MU students interested in attending graduate school. Millersville, PA.
- Taylor, C. E.** (2018, November). *Tangrams*. Presentation to members of Mathematics Educators at Millersville University (MEMU). Millersville, PA.
- Taylor, C. E.** (2018, October). *Coding a Digital Mood Ring*. Presentation to members of Mathematics Educators at Millersville University (MEMU). Millersville, PA.
- Taylor, C. E.** (2018, July). *Ethnomathematics*. Presentation to Millersville University School of Science and Mathematics 32nd Annual Summer Science Training Program (SSTP). Millersville, PA.
- White, J. W. & **Taylor, C. E.** (October, 2017). *Early career math teacher seminar*. Presentation to novice teachers in Lancaster and York county. Millersville, PA
- Taylor, C. E.** (2017, July). *Ethnomathematics*. Presentation to Millersville University School of Science and Mathematics 31st Annual Summer Science Training Program (SSTP). Millersville, PA.
- Taylor, C. E.** (2016, July). *Ethnomathematics*. Presentation to Millersville University School of Science and Mathematics 30th Annual Summer Science Training Program (SSTP). Millersville, PA.

- Taylor, C. E.** (2015, July). *Magic squares*. Presentation to Millersville University School of Science and Mathematics 29th Annual Summer Science Training Program (SSTP). Millersville, PA.
- Taylor, C. E.** (2015, July). *Shongo networks*. Presentation to Millersville University School of Science and Mathematics 29th Annual Summer Science Training Program (SSTP). Millersville, PA.
- Taylor, C. E.** (2015, May). *Shongo networks: Tracings in the sand*. Presentation to MA102—Mathematics of Non-European Cultural students. Millersville, PA.
- Taylor, C. E.** (2015, February). *Shongo networks: Tracings in the sand*. Presentation to MA102—Mathematics of Non-European Cultural students. Millersville, PA.
- Taylor, C. E.** (2014, October). *Principles to actions*. Presentation at the Joint Mathematics Colloquium of Millersville University and Franklin & Marshall College. Millersville, PA.
- Taylor, C. E.** (2014, September). *Shongo networks: Tracings in the sand*. Presentation to MA102—Mathematics of Non-European Cultural students. Millersville, PA.
- Taylor, C. E.** (2014, July). *Geometric problem solving*. Presentation to Millersville University School of Science and Mathematics 28th Annual Summer Science Training Program (SSTP). Millersville, PA.
- Taylor, C. E., Moss, E., & Washington, T.** (2013, November). *The mathematical education of teachers II*. Presentation at the Joint Mathematics Colloquium of Millersville University and Franklin & Marshall College. Millersville, PA.

INTERNAL FUNDING—GRANTS

Millersville University College of Science and Technology

College of Science and Technology (formally the School of Science and Mathematics)
Robertson Release Time Grant—3 credit hours—To support research project titled *Actions Mathematics Teacher Educators' Demonstrate to Develop Prospective Teachers' Pedagogical Content Knowledge*, Spring 2013. Awarded April 2012.

Millersville University Grants—Funded

Special Academic and Administration Activities Grant—To attend the Annual Pennsylvania Association of Mathematics Teacher Educators Symposium, May, 2023 for which I am the AMTE representative. Total Award: \$225.69. Awarded April 2023.

Travel-to-Present Grant—To present presentation titled *(En)visioning mathematical tasks through culturally-rich, content-invisible literature*, National Council of Teachers of

Mathematics Annual Conference, September 2022. Total Award: \$500. Awarded December 2022.

Special Academic and Administration Activities Grant—To attend the Annual Association of Mathematics Teachers Conference, February, 2023 for which I am a secretary. Total Award: \$500. Awarded December 2022.

Travel-to-Present Grant—To present presentation titled *Sharing session – The Robert Noyce teacher scholarship program*, Annual Meeting of the Pennsylvania Association of Mathematics Teacher Educators (PAMTE), May 2022. Total Award: \$206.14. Awarded July 2022.

Travel-to-Present Grant—To present presentation titled *An equity noticing framework: Becoming aware*, Annual Meeting of the School Science and Mathematics Association (SSMA), October 2021. Total Award: \$200. Awarded November 2021.

Special Academic and Administration Activities Grant—To attend the Annual Association of Mathematics Teachers Conference, February, 2022 for which I am a secretary. Total Award: \$500. Awarded November 2021.

Travel-to-Present Grant—To present presentation titled *Becoming aware: An equity noticing framework*, Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, October 2021. Total Award: \$500. Awarded July 2021.

Special Academic and Administration Activities Grant—To attend the Mathematical Association of American Math Fest 2021 Virtual Conference, August, 2021 for which I was a Themed Contributed Paper Session Organizer. Total Award: \$199. Awarded July 2021.

Travel-to-Present Grant—To present presentation titled *Using classroom vignettes to reveal what prospective teachers notice*, Annual Meeting of the American Educational Research Association, April 2021. Total Award: \$185. Awarded April 2021.

Special Academic and Administration Activities Grant—To attend the Annual Association of Mathematics Teachers 2021 Virtual Conference, February, 2021 for which I am a secretary. Total Award: \$150. Awarded November 2020.

Mentorship Support Fund Award—To support the *Leadership Development Program for Mathematics Major Mentors* Spring 2020. Total Award: \$1000. Awarded January 2020.

Travel-to-Present Grant—To present presentation titled *Equity noticing framework—A tool for mathematics teacher educators*, Association of Mathematics Teacher Educators Annual Conference, February 2020. Total Award: \$350. Awarded November 2019.

Travel-to-Present Grant—To present presentation titled *Using children's literature as a foundation for rigorous mathematics tasks*, School Science and Mathematics Association Annual Conference, November 2019. Total Award: \$300. Awarded July 2019.

Millersville University UNIV 103 Grants—*Preservice Teacher Day Event*—To support the travel expenses of UNIV 103.M05 students to attend the Pre-Service Teacher Day Conference at West Chester University on Saturday, October 19th, 2019. Requested: \$500. Total Award: \$500. Awarded July 2019.

- Travel-to-Present Grant—To present presentation titled *What-how-who: Structuring mathematical discourse*, National Council of Teachers of Mathematics Annual Conference, April 2019. Total Award: \$250. Awarded April 2019.
- Travel-to-Present Grant—To present presentation titled *Oh, say can you see? A vision of equitable instruction*, Association of Mathematics Teacher Educators Annual Conference, February 2019. Total Award: \$275. Awarded November 2018.
- Millersville University Noonan Endowment Award—*Preservice Teacher Day Event*—To support the travel expenses of secondary BSE mathematics majors to attend the Preservice Teacher Day at Saint Joseph's University on Saturday, October 20th, 2018. Requested: \$500. Total Award: \$450. Awarded October 2018.
- Millersville University UNIV 103 Grants—*Undergraduate Mathematics Conference*—To support the travel expenses of UNIV 103.M05 students to attend the EPaDel Undergraduate Conference of the MAA at West Chester University on Saturday, November 3rd, 2018. Requested: \$500. Total Award: \$500. Awarded July 2018.
- Millersville University UNIV 103 Grants—*Preservice Teacher Day Event*—To support the travel expenses of UNIV 103.M06 students to attend Preservice Teacher Day at Saint Joseph's University on Saturday, October 20th, 2018. Requested: \$500. Total Award: \$500. Awarded July 2018.
- Special Academic Activities Grant—To attend the Pennsylvania Council of Teachers of Mathematics 2018 Summer Conference, August 2018 for which I am a program co-chair. Total Award: \$250. Awarded July 2018.
- Special Academic Activities Grant—To attend the Pennsylvania Association of Mathematics Teacher Educators 2018 Annual Conference, May 2018, for which I am president elect of the organization. Total Award: \$72.50. Awarded April 2018.
- Travel-to-Present Grant—To present presentation titled *Secondary Mathematics Methods Course Goals and Activities*, Association of Mathematics Teacher Educators, February 2018. Total Award: \$250. Awarded April 2018.
- Research Grant—To support research project titled *Mathematics Education Methods Syllabus Study*. Requested: \$1000. Total Award: \$850. Awarded November 2017. Project dates: December 2017—August 2018.
- Travel-to-Present Grant—To present presentation titled *Through the looking glass—Using literature as windows into equity in early mathematics*, National Council of Teachers of Mathematics Annual Conference, April 2018. Total Award: \$425. Awarded November 2017.
- Group Travel-to-Present Grant—To present presentation titled *Three Courses Designed to Develop and Expand Middle Level Preservice Teachers' Mathematical Content Capacities*, Association of Mathematics Teacher Educators, February 2018. Total Award: \$350. Awarded November 2017.
- Special Academic Activities Grant—To attend the Pennsylvania Council of Teachers of Mathematics 2017 Summer Conference, August 2017 for which I was a program co-chair. Total Award: \$270. Awarded July 2017.

- Travel-to-Present Grant—To present presentation titled *Variation and intentionality in teaching mathematics methods courses*, National Council of Teachers of Mathematics Research Conference, April 2017. Total Award: \$175. Awarded April 2017.
- Research Grant—To support research project titled *Mathematics Education Methods Syllabus Study*. Requested: \$986. Total Award: \$246.50. Awarded December 2016. Project dates: January 2017—December 2017.
- Released Time Grant—3 credit hours for Fall 2017 to work on the project titled *Mathematics Education Methods Syllabus Study*. Awarded December 2016.
- Travel-to-Present Grant—To present presentation titled *Seeing what was once unseen*, Association of Mathematics Teacher Educators, February 2017. Total Award: \$325. Awarded December 2016.
- Special Academic Activities Grant—To attend the Pennsylvania Council of Teachers of Mathematics 2016 Summer Conference, August 2016 for which I was a program co-chair. Total Award: \$200. Awarded July 2016.
- Travel-to-Present Grant—To present presentation titled *Supporting mathematics teacher educators' work with prospective elementary teachers: A look through multiple perspectives*, Association of Mathematics Teacher Educators, January 2016. Total Award: \$325. Awarded April 2016.
- Group Travel-to-Present Grant—To present presentation titled *Exploring regrouping across multiple contexts*, National Council of Teachers of Mathematics Annual Meeting, April 2016. Total Award: \$350. Awarded November 2015.
- Travel-to-Present Grant—To present presentation titled *Algebra by Paper Folding*, National Council of Teachers of Mathematics, October 2015. Total Awarded: \$350. Awarded November 2015.
- Overseas Travel-to-Present Grant—To present paper titled *Mathematics teacher educators' purposes for K-8 content courses*, International Group for the Psychology of Mathematics Education, July 2015. Total Award: \$472.50. Awarded July 2015.
- Group Travel-to-Present Grant—To present presentation titled *An animation of the Tzolkin calendar*, Mathematical Association of America Math Fest Annual Summer Meeting, August 2015. Total Award: \$315. Awarded July 2015.
- Travel-to-Present Grant—To present presentation titled *Shongo networks—A sand graph*, Joint Mathematics Meeting, January 2015. Total Award: \$340. Awarded April 2015.
- Travel-to-Present Grant—To present presentation titled *Instructional practices of experienced mathematics teacher educators teaching K-8 content courses*, Association of Mathematics Teacher Educators, February 2014. Total Award: \$310. Awarded November 2014.
- Travel-to-Present Grant—To present presentation titled *Mathematics teacher educators' classroom practices from K-8 mathematics content courses*, National Council of Teachers of Mathematics, April 2014. Total Award: \$250. Awarded April 2014.

- Released Time Grant—3 credit hours for Spring 2015 to work on the project titled *Actions Mathematics Teacher Educators Use to Improve Prospective Teachers' Pedagogical Content Knowledge*. Awarded November 2013.
- Group Travel-to-Present Grant—To present presentation titled *A Kin Relations Lesson in Ethnomathematics: A Tribute to Marcia Ascher*, Joint Mathematics Meeting, January 2014. Total Award: \$350. Awarded November 2013.
- Travel-to-Present Grant—To present presentation titled *Actions elementary mathematics teacher educators use to develop prospective teachers' awareness of the CCSSM*, Association of Mathematics Teacher Educators, February 2014. Total Award: \$250. Awarded November 2013.
- Overseas Travel-to-Present Grant—To present paper titled *Facilitating prospective teachers' knowledge of student understanding: The case on one mathematics teacher educator*, International Group for the Psychology of Mathematics Education, July 2013. Total Award: \$375. Awarded July 2013.
- Research Grant—To support research project titled *Mathematics Teacher Educator Actions Used to Develop Prospective Teachers Pedagogical Content Knowledge*. Requested: \$1000. Total Award: \$500. Awarded April 2013. Project dates: August 2013-July 2014.
- Travel-to-Present Grant—To present presentation titled *Actions a math teacher educator employs during whole group instruction*, National Council of Teachers of Mathematics, April 2013. Total Award: \$350. Awarded April 2013.
- Travel-to-Present Grant—To present presentation titled *Actions a mathematics teacher educator uses to develop prospective teachers' pedagogical content knowledge*, Association of Mathematics Teacher Educators, January 2013. Total Award: \$450. Awarded November 2012.
- Research Grant—To support research project titled *Actions Mathematics Teacher Educators' Use to Develop Prospective Teachers Pedagogical Content Knowledge*. Requested: \$1000. Total Award: \$300. Awarded April 2012. Project dates: August 2012—July 2013.
- Travel-to-Present Grant—To present a poster titled *Examining expert secondary mathematics teachers' thinking about mathematics instruction*, American Educational Research Association, April 2012. Total Award: \$350. Awarded April 2012.
- Millersville University Theme Committee—*Scholars in the Classroom Project*—To support the travel expenses of guest speaker Dr. Don Balka, Professor Emeritus in the Mathematics Department at Saint Mary's College, Notre Dame, IN, in MA 697 Summer 2012. Requested: \$500. Total Award: \$500. Awarded November 2011. Project dates: Summer II 2012.
- Travel-to-Present Grant—To present presentation titled *Actions a mathematics teacher educator uses to develop prospective teachers' pedagogical content knowledge*, Association of Mathematics Teacher Educators, February 2012. Total Award: \$300. Awarded November 2011.

Millersville University Noonan Endowment Award—*Preservice Teacher Day Event*—To support the travel expenses of secondary BSE mathematics majors to attend the Preservice Teacher Day at West Chester University on Saturday, October 19th, 2019. Requested: \$500. Applied September 2019.

Group Travel-to-Present Grant—To present presentation titled *An Ethnomathematics Graduate Course*, Mathematical Association of America Math Fest Annual Summer Meeting, August 2014. Applied Summer 2014.

Released Time Grant—3-credit hours for Spring 2014 to work on the project titled *Actions Mathematics Teacher Educators Use to Improve Prospective Teachers' Pedagogical Content Knowledge*. Applied Fall 2012.

EXTERNAL FUNDING—GRANTS

Funded

National Science Foundation: Building Capacity to Identify and Address the Needs and Challenges of STEM Education Majors. PI: **Cynthia Taylor**. Co-PI: Nanette Marcum-Dietrich, Laura Ramos-Sepulveda, Tyrone Washington, and Sepideh Yalda. Total requested: \$74,965. Awarded March 2022. Project Dates: May 2022—April 2023.

College Assistance Migrant Program (CAMP) from the USDOE Office of Elementary and Secondary Education (CFDA 84.149A). PI. George Drake. Project Team Members: Damaso Albino; Persida Himmele; Len Litowitz; Erin Moss; Elizabeth Powers-Costello; Johanne Shutter; **Cynthia Taylor**. Total Requested: \$1.7 million. Awarded August 2016. Project dates: August 2016—July 2021.

PASSHE—Faculty Professional Development Council (FPDC) Annual Grant. *Mathematics Teacher Educator Actions*. PI: **Cynthia Taylor**. Co-PI: Ania Appova, The Ohio State University. Total Requested: \$9,406. Awarded April 2014. Project dates: July 2014—June 2015.

Center for the Study of Mathematics Curriculum Funding—Meetings of a Research Group Grant—To support travel for in-person meetings (with Dr. Christa Jackson [University of Kentucky] and Dr. Kelley Buchheister [University of South Carolina]) to develop a grant for *Meeting the Foci: Enactment of Common Core State Standards of Mathematics Priority Research Agenda*. Requested: \$10,700. Total Award: \$10,700. Awarded October 2012. Project dates: November 2012—September 2013.

Not Funded

National Science Foundation: Engaging Mathematical Minds: Positioning Literature as Opportunities for Investigations (EMMPIOI). PI: Christa Jackson (Saint Louis University). Co-PI: **Cynthia Taylor** and Kelley Buchheister (University of Nebraska-Lincoln). Requested: \$2,117,180. Applied October, 2022. [Declined February 2023].

Spencer Foundation: Positioning Read-Alouds to Optimize Mathematics through Paramount Tasks. PI: Christa Jackson (Saint Louis University). Co-PI: **Cynthia Taylor** and Kelley

Buchheister (University of Nebraska-Lincoln). Requested: \$49,999. Applied November, 2021. [Declined April 2022].

National Science Foundation: Engaging Mathematical Minds: Positioning Literature as Opportunities for Investigations. PI: Christa Jackson (Saint Louis University). Co-PI: **Cynthia Taylor** and Kelley Buchheister (University of Nebraska-Lincoln). Requested: \$2,102,142. Applied October, 2021. [Declined April 2022].

National Science Foundation: Mathematics Teacher Noyce Scholars Project. PI: Tyrone Washington. Co-PI: Kimberly Heilshorn, Timothy Mahony, Erin R. Moss, and **Cynthia Taylor**. Requested: \$1,197,455. Applied August, 2021. [Declined November 2021]

National Science Foundation: Mathematics Teacher Noyce Scholars Project. PI: Tyrone Washington. Co-PI: Matthew Prigel, Kimberly Heilshorn, **Cynthia Taylor**, and Janet White. Requested: \$1,445,723. Applied August, 2020. [Declined February 2021]

National Science Foundation: Mathematics Teacher Noyce Scholar Program. PI: Tyrone Washington. Co-PI: Kimberly Heilshorn, Erin Moss, Matthew Prigel, and **Cynthia Taylor**. Requested: \$1,449,947. Applied August, 2019. [Declined November 2019]

National Science Foundation: Millersville University Mathematics Teacher Noyce Scholars Project. PI: Tyrone Washington. Co-PI: Kimberly Heilshorn, Erin Moss, **Cynthia Taylor** and Janet White. Requested: \$1,449,278. Applied August, 2018. [Declined February 2019]

Spencer Foundation: Noticing the Unseen. PI: Christa Jackson (Iowa State University). Co-PI: **Cynthia Taylor** and Kelley Buchheister (University of Nebraska-Lincoln). Requested: \$49,999. Applied January, 2017. [Declined May 2017]

PROFESSIONAL SERVICE

NATIONAL AND STATE

Associate Vice-President Elect/President/Past President for the Conference Committee.

Association of Mathematics Teacher Educators (AMTE). February 2023-February 2024; February 2024-2026; February 2026-2027.

Secretary. Association of Mathematics Teacher Educators (AMTE). February 2020-February 2023.

President Elect/President/Past President. Pennsylvania Association of Mathematics Teacher Educators (PAMTE). May 2017-May 2018; May 2018-2020; May 2020-2021.

Book Reviewer: Reviewed "Teaching Secondary and Middle School Mathematics (for 6th edition)" by Daniel J. Brahier: June 2018.

Conference Proceedings **Proposal Reviewer.** International Group for the Psychology of Mathematics Education (PME): February 2018.

Reviewer for Journal of Mathematics Teacher Education (JMTE).

Reviewer for Teaching and Teacher Education (T&TE).

Reviewer for Teaching Children Mathematics (TCM).

Program Chair. Preservice Teacher Day Conference (Sponsored by PCTM and PAMTE).
November 2016-October 2017.

AMTE Affiliate Representative. Pennsylvania Association of Mathematics Teacher Educators
(PAMTE). May 2016-May 2018; May 2022-May 2023.

Reviewer of a book chapter for the upcoming book: Handbook of Research on Teacher
Education and Professional Development: January 2016.

Silent Auction Coordinator during the Mathematical Association of America (MAA) Eastern
Pennsylvania Delaware (EPaDel) Conference at Delaware Valley University, November,
2016.

Co-Editor. Pennsylvania Council of Teachers of Mathematics (PCTM) Magazine. September
2013—September 2018.

Program Co-Chair. 65th, 66th, and 67th Annual Pennsylvania Council of Teachers of
Mathematics Conference. August 2015-August 2018.

Board Member. Pennsylvania Council of Teachers of Mathematics. September 2013—August
2018.

Board Member-at-Large. Pennsylvania Association of Mathematics Teacher Educators
(PAMTE). May 2013-May 2015; May 2015-May 2017.

Judge at the Undergraduate Student Poster Session at the Joint Meetings of the Mathematical
Association of America (MAA) and the American Mathematical Society (AMS). San
Antonio, TX. January 2015

Reviewer for the NCTM Book: Teaching Ideas from Around the World-PreK-8: February 2013.

Research Presentation **Proposal Reviewer.** Association of Mathematics Teacher Educators
(AMTE): May 2008—May 2014; May 2016—May 2022.

Manuscript Reviewer. Teaching Children Mathematics. Fall 2011—present.

Conference Proceedings Proposal Reviewer. North American Chapter of the International
Group for the Psychology of Mathematics Education (PME~NA): March 2012, April 2021.

Book Reviewer: Reviewed [Pegg, E., Schoen, A. H., & Rodgers, T. (Eds.). (2009). *Mathematical
wizardry for a gardner*. Wellesley, MA: A K Peters, Ltd.]. November 2009. Review
appeared in *Mathematics Teacher*, May 2010, 103(9), p. 700.

Research Presentation Proposal Reviewer. American Educational Research Association:
Division K. September 2008.

PROFESSIONAL DEVELOPMENT FOR MATHEMATICS TEACHERS

Math/Science Partnership (PULSE 2.0—the Partnership to Understand and Lead STEM
Education) is an action-research project designed to measure the impact of targeted STEM
professional development for educators on student learning in math and science. Designed

and implemented a one-day summer professional development workshop for teachers in grades 3 through 8 to enhance their knowledge of the Mathematical Practices of the Common Core Standards for Mathematics. U.S. Department of Education Mathematics-Science Partnership Initiative overseen by the PA Department of Education. July 2017.

Partnership to Lead and Understand STEM Education (PULSE). Summer Institute. Co-Professional Development Facilitator for Lancaster-Lebanon Intermediate Unit 13 middle school and high school teachers. Designed and implemented a one-day summer professional development workshop for middle and high school mathematics, science, and technology education in-service teachers to enhance their content knowledge of data analysis. U.S. Department of Education Mathematics-Science Partnership Initiative. July 2013, July 2014.

Using Manipulatives Grades 6-8. Professional Development Provider for middle school mathematics and special education teachers, Cedar Crest Middle School, Lebanon, PA. Facilitated a three-hour professional development workshop designed to enhance teacher's knowledge of using manipulatives in their classroom. Cornwall Lebanon School District Middle School Mathematics and Special Education Teachers. November 2012.

Achieving Rigor and Relevance in Mathematics and Science (ARRMS) Mathematics. Summer Institute. Co-Professional Development Facilitator for Lancaster-Lebanon Intermediate Unit 13 middle school and high school teachers. Designed and implemented a two-week summer professional development workshop for middle and high school in-service teachers to enhance their content knowledge of functions. U.S. Department of Education Mathematics-Science Partnership Initiative. July 2012.

Investigative Learning in the Mathematics Classroom. Co-Professional Development Provider for middle school mathematics teachers, Long Middle School, St. Louis, MO. Designed and implemented professional development for mathematics department to incorporate inquiry into mathematics program. Missouri Partnership for Educational Renewal (MPER) Grant. 2008-2009.

MILLERSVILLE UNIVERSITY OF PENNSYLVANIA

| <u>Committee/Function</u> | <u>Term</u> | <u>Position</u> |
|-----------------------------------------------------------------|--------------|-----------------------|
| <i>University</i> | | |
| Sabbatical Leave Committee | 2021—2023 | Member |
| | 2022—2023 | Chair |
| Mentorship Advisory Committee | 2019—present | Member |
| Joint Senate-Academic Affairs First-Year Seminar Task Force | 2019 | Member |
| SPA Program Review for Mathematics for University Accreditation | 2017 – 2020 | Primary Author |
| Professional Education Assembly Assessment Committee | 2017—present | Member |
| | 2020—present | Chair |
| MU Foundation Board of Directors | 2017—2022 | Member |

| | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------|
| University Honors College Committee | 2016—2022 | Member |
| Faculty Senate | 2014—2020 | Senator (MATH) |
| Academic Outcomes Assessment Committee | 2014—2017 | Member |
| Mathematics Educators at Millersville University A National Council of Teachers of Mathematics Student Affiliate Charter #432—granted April 2015 | 2013—present | Faculty Co-Advisor |
| Graduate Course and Program Review Committee | Fall 2014, Fall 2016 | Math Depart. Rep. |
| Academic Standards Committee | 2012—2013 | Alternate |

| <u>Committee/Function</u> | <u>Term</u> | <u>Position</u> |
|---------------------------|-------------|-----------------|
|---------------------------|-------------|-----------------|

College of Science and Technology

Program Committee for Women in Mathematics and Science Conference

2013—present Member

Department of Mathematics

Fall Convocation

2020—present **Chair**

Student Mentoring

2020—present **Chair**

Honors Committee

2018—2022 Member
2019—2020 **Chair**

Faculty Evaluation Committees

2016—present Appointed Member

Promotion and Tenure Committee

2018—2019 **Chair**
2016—2017 Member

Undergraduate Curriculum Non-degree courses
Formerly Precalculus Curriculum Committee

2020—present Member
2015—2019 **Chair**

Outcomes Assessment Committee

2015—present **Co-Chair**

Council for the Accreditation of Educator
Preparation (CAEP) Committee

2011—present Member
2018—present **Chair**

Social Committee

2015—2019 Member

Graduate Course and Program Review
Committee Representative

2015—2018 Alternate

Graduate Curriculum Committee

2011—2015 Member

Adjunct Search Committee

Summer 2014 **Chair**
Spring 2013 Member

Permanent Part-Time Instructor Search Committee

January 2014 Member

Teacher Education Council (TEC) Representative

2011—present Alternate

Other Service Activities

- 2019—2020 **Mentor**, STEM-UP PA Advancing Academic Women Program, NSF
- 2018 Mathematics Education representative at the mathematics Department Open Houses
- 2017—2018 **Mentor** for New Faculty Member at Millersville University
- 2017—2018 **Mentor**, STEM-UP PA Advancing Academic Women Program, NSF
- Grader for 5th grade science fair projects at E.R. Martin Elementary School in the Penn Manor School District, February 2015.
- Presented 2-hour and 3-hour session for middle school students at the annual MU Summer Science Training Program (SSTP)—Problem solving. July 2014, July 2015, July 2016, July 2017, July 2018, June 2022, June 2023.
- Mathematics Department Representative at the Graduate School Open House. March 2014, March 2015, March 2017.
- Fall Convocation for the Department of Mathematics—**Organizer**. November 2013—2019.
- Panel member at New Faculty Orientation session—Your First Year at MU: What to Expect. August 2012.
- Fall Convocation for the Department of Mathematics—Closing remarks for the evening session. November 2012.
- Fall Convocation for the Department of Mathematics—Facilitator for the mathematics education breakout session. November 2011.

LOCAL AND MATHEMATICS COMMUNITY

- Math Day at the Lancaster Science Factory. September 2019.
- Millersville University Representative at the Intermediate Unit (IU) 13 Mathematics Networking Meetings. 2012—2013, 2019—2020.
- Moderator for the Women in Mathematics and Science Conference. April 2013, April 2014, April 2015, April 2021.
- Grader for the Millersville University High School Mathematics Contest. March 2013, March 2015, March 2016.
- Countdown Round Judge, MATHCOUNTS (Lincoln Chapter, Pennsylvania Society of Professional Engineers). February 2012, February 2015.
- Written Round Judge, MATHCOUNTS (Lincoln Chapter, Pennsylvania Society of Professional Engineers). February 2013.
- Presentation and discussion with high school teachers on the Common Core State Standards for Mathematics, Math Contest. March 2012.

PROFESSIONAL AFFILIATIONS

- Association of Mathematics Teacher Educators (AMTE)

National Council of Teachers of Mathematics (NCTM)

Pennsylvania Association of Mathematics Teacher Educators (PAMTE)

RELATED ACADEMIC EXPERIENCE

UNIVERSITY OF MISSOURI

Undergraduate Courses Taught

TDP 4310: Learning and Teaching Geometry, Measurement, Probability and Statistics in the Elementary School (Spring 2009; Spring 2010)

TDP 2040: Inquiry into Schools, Communities and Society I (Fall 2007)

Service to University

Preservice Teacher Synthesis Project Evaluator. 2008—2010.

- Middle and Secondary Mathematics Education Synthesis Projects
- Elementary Education Synthesis Projects

Host for Potential Students. 2009—2010.

- Responsible for sharing information about our program, conducting campus tours, etc. for visiting students interested in MU's doctoral program in Mathematics Education

Evaluator for the Teaching Fellows Comprehensive Project. 2008.

Scorer for Comparing Options in Secondary Mathematics Investigating Curriculum (COSMIC). 2008.

HARRISBURG AREA COMMUNITY COLLEGE

Undergraduate Courses Taught

MATH 005: Basic Mathematics (Fall 2005)

MATH 010: PreAlgebra (Fall 2006)