

Jennifer Nickell Lovett
Assistant Professor of Mathematics Education
Department of Mathematical Sciences
Middle Tennessee State University
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EDUCATION

- 2016 **Ph.D., Mathematics Education**
North Carolina State University, Raleigh, NC
Chair: Hollylynne S. Lee
Dissertation: The Preparedness of Preservice Secondary Mathematics Teachers to Teach Statistics: A Cross-Institutional Mixed Methods Study
- 2007 **M.A.T., Mathematics**
Miami University, Oxford, OH
- 2005 **B.S., Mathematics Education 7 – 12**
B.A., Mathematics and Statistics
Miami University, Oxford, OH

UNIVERSITY EXPERIENCE

- 2016 – Present **Middle Tennessee State University, Murfreesboro, TN**
Assistant Professor of Mathematics Education, Department of Mathematical Sciences
- 2013 – 2015 **North Carolina State University, Raleigh, NC**
Mathematics Education Instructor, Department of STEM Education
- 2014 – 2015 Teaching Assistant, Department of Statistics

K – 12 TEACHING EXPERIENCE

- 2007 – 2012 **Lakota West Freshman School, West Chester, OH**
High School Mathematics Teacher
- 2008 – 2012 Associate Mathematics Department Head
Instructional Technology Representative
- 2005 – 2007 **Edgewood Middle School, Trenton, OH**
Middle School Mathematics Teacher

HONORS & AWARDS

- 2018 **National Technology Leadership Initiative (NTLI) Award**, Association of Mathematics Teacher Educators

2017	STaR Fellowship , Association of Mathematics Teacher Educators
2015 – 2016	Friday Institute Graduate Student Fellow , Friday Institute for Educational Innovation, NC State University
2015 – 2016	Norman Anderson – J. Conrad Glass, Jr. Graduate Fellowship , NC State University
2015	National Technology Leadership Initiative (NTLI) Award , Association of Mathematics Teacher Educators
2015	College of Education Dissertation Support Award , NC State University
2015	1st Place Poster at Graduate Research Symposium in Education, NC State University
2014	Thank-a-Teacher Award , NC State University
2012 – 2013	University Graduate Fellowship , North Carolina State University
2006 – 2007	Alberta Wolfe Fellowship , Miami University
2005	Mathematics Education Trust CAPE Award , National Council of Teachers of Mathematics
2005	H.C. Christofferson Mathematics Education Award , Miami University
2003	Pi Mu Epsilon, Honor Society , Miami University

SCHOLARSHIP

Refereed Journal Articles

- Harrell-Williams, L. M., **Lovett, J. N.**, Lee, H. S., Pierce, R. L., Lesser, L. M., Sorto, M. A. (OnlineFirst). Validation of scores from the high school version of the Self-efficacy to Teach Statistics (SETS-HS) instrument using pre-service mathematics teachers. *Journal of Psychoeducational Assessment*. Retrieved from <http://journals.sagepub.com/doi/abs/10.1177/0734282917735151#articleCitationDownloadContainer>.
- McCulloch, A. W., **Lovett, J. N.**, Edgington, C. (In Press). Designing to provoke disorienting dilemmas: Transforming preservice teachers' understanding of function using a vending machine applet. *Contemporary Issues in Technology and Teacher Education*.
- Lovett, J. N.**, & Lee, H. S. (2017). Incorporating multiple technologies into teacher education: A case of developing preservice teachers' understanding in teaching statistics with technology. *Contemporary Issues in Technology and Technology Education*, 17(4). Retrieved from <http://www.citejournal.org/volume-17/issue-4-17/mathematics/incorporating-multiple-technologies-into-teacher-education-a-case-of-developing-preservice-teachers-understandings-in-teaching-statistics-with-technology/>
- Lovett, J. N.** & Lee, H. S. (2017). New standards require teaching more statistics: Are preservice secondary mathematics teachers ready? *Journal of Teacher Education*, 68(3), 299-311.
- McCulloch, A. W., Whitehead, A., **Lovett, J. N.**, & Whitley, K. (2017). Tuning out the world with noise-cancelling headphones. *Mathematics Teacher*, 110(8), 606-611.
- Lee, H. S., Doerr, H. M., Tran, D., & **Lovett, J. N.** (2016). The role of probability in developing learners' models for simulation approaches to inference. *Statistics Education Research Journal*, 15(2), 216-238.
- Lovett, J. N.**, & Lee, H. S. (2016). Making sense of data: Context matters. *Mathematics Teaching in the Middle School*, 21(6), 338-346.

Wanko, J. J., & Nickell, J. V. (2013). Reinforcing geometric properties with shapedoku puzzles. *Mathematics Teacher*, 107(3), 188-194.

Refereed Book Chapters

- Avineri, T., Lee, H.S., Tran, D., Lovett, J. N., Gibson, T. (In Press). Design and impact of MOOCs for mathematics teachers. In V. Hoyos, J. Silverman, R. Barcelos-Amaral, & R. Vogel (Eds.), *Distance learning, e-learning and blended learning of mathematics: Advances in the research of distance mathematics education mediated by technology*.
- Maloney, A. P., Confrey, J., Ng, D., & Nickell, J. (2014). Learning trajectories for interpreting the K-8 CCSS-M: Middle grades statistics standards as an example. In K. Karp & A. R. McDuffe (Eds.), *Annual perspectives in mathematics education 2014: Using research to improve instruction* (pp.23-34). Reston, VA: NCTM.

Refereed Proceedings

- Lovett, J. N., Dick, L. K., McCulloch, A. W., Sherman, M. F. (In Press). Preservice mathematics teachers' professional noticing of students' mathematical thinking with technology. In *Proceedings of Society for Information Technology & Teacher Education International Conference 2018* (pp. XXXXX). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).
- Martin, P., Soled, H., Lovett, J. N., & Dick, L. K. (In Press). Students' Engagement with a Function Vending Machine Applet. *Proceedings of the 21st Annual Conference on Research in Undergraduate Mathematics Education*. San Diego, CA: The Special Interest Group of the Mathematical Association of America (SIGMAA) for Research in Undergraduate Mathematics Education.
- Sherman, M. F., Lovett, J. N., McCulloch, A. W., & Dick, Lara K. (In Press). Transforming students' definitions of function using a vending machine applet. *Proceedings of the 21st Annual Conference on Research in Undergraduate Mathematics Education*. San Diego, CA: The Special Interest Group of the Mathematical Association of America (SIGMAA) for Research in Undergraduate Mathematics Education.
- Harrell-Williams, L. M., Lovett, J. N., Pierce, R. L., Sorto, M. A., Lee, H. S., & Lesser, L. M. (2017). The middle grades SETS instrument: Psychometric comparison of middle and high school preservice mathematics teachers. In E. Galindo & J. Newton (Eds.), *Proceedings of the 39th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 1064-1067). Indianapolis, IN: Hoosier Association of Mathematics Teacher Educators.
- Jones, R. S., Lovett, J. N., Google, A., & Matuszewski, A. (2017). Integrating face-to-face professional development and a MOOC-Ed to develop teachers' statistical knowledge for teaching. In E. Galindo & J. Newton (Eds.), *Proceedings of the 39th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 541). Indianapolis, IN: Hoosier Association of Mathematics Teacher Educators.
- Lee, H.S., Lovett, J. N., & Mojica, G. (2017). Characterizing impacts of online professional development on teachers' beliefs and perspectives about teaching statistics. In E. Galindo & J. Newton (Eds.), *Proceedings of the 39th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 407-414). Indianapolis, IN: Hoosier Association of Mathematics Teacher Educators.

- Lovett, J. N., & Lee, H. S.** (2017). Preservice secondary mathematics teachers' statistical knowledge: A snapshot of strengths and weaknesses. In E. Galindo & J. Newton (Eds.), *Proceedings of the 39th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 1048-1055). Indianapolis, IN: Hoosier Association of Mathematics Teacher Educators.
- McCulloch, A. W., **Lovett, J. N.**, & Edgington, C. (2017). Developing preservice teachers' understanding of function using a vending machine metaphor applet. In E. Galindo & J. Newton (Eds.), *Proceedings of the 39th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 1281-1288). Indianapolis, IN: Hoosier Association of Mathematics Teacher Educators.
- Lovett, J. N.**, & McCulloch, A. W. (2016). Preservice teachers' development of an understanding of function using different metaphors. In M. B. Wood, E. E. Turner, M. Civil, & J. A. Eli (Eds.), *Proceedings of the 38th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp.949). Tucson, Arizona: The University of Arizona.
- Lee, H. S., Tran, D., **Nickell, J.** & Doerr, H. M. (2015). Simulation approaches for informal inference: Models to develop understanding. In K. Krainer & N. Vondrova (Eds.), *Proceedings of the Ninth Congress of the European Society for Research in Mathematics Education* (pp.707-714). Prague, Czech Republic. Retrieved from <https://hal.archives-ouvertes.fr/hal-01287093/document>
- Nickell, J.** (2015). Incorporating technology to enhance teacher education lessons and preservice teachers' learning. In *Proceedings of Society for Information Technology & Teacher Education International Conference 2015* (pp. 2453-2459). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).
- Thrasher, E., Starling, T., **Lovett, J. N.**, Doerr, H. M., & Lee, H. S. (2015). The influence of a graduate course on teachers' self-efficacy to teach statistics. In T. G. Bartell, K. N. Bieda, R. T. Putnam, K. Bradfield, & H. Dominguez (Eds.), *Proceedings of the Thirty-seventh annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 447-454). East Lansing, MI: Michigan State University.

Non-Refereed Publications

- Chandler, K., Fortune, N., & **Lovett, J. N.**, & Scherrer, J. (2016). What should Common Core assessments measure? *Kappan*, 97(5), 60-63. Retrieved <http://www.kappancommoncore.org/what-should-common-core-assessments-measure/>
- Edwards, M. T., & **Nickell, J.** (2014). Teaching students about functions with DynaGraphs. *MTMS Blog: Blogarithm*. Retrieved from <http://www.nctm.org/Publications/Mathematics-Teaching-in-Middle-School/Blog/Teaching-Students-about-Functions-with-Dynagraphs/>
- Lee, H. S., & **Nickell, J.** (2014). How a curriculum may develop technological statistical knowledge: A case of teachers examining relationships among variables using Fathom. In K. Makar, B. de Sousa & R. Gould (Eds.), *Sustainability in statistics education. Proceedings of the Ninth International Conference on Teaching Statistics (ICOTS9, July 2014) Flagstaff, Arizona, USA*. Voorburg, The Netherlands: International Statistical Institute.

- Nickell, J., & Lee, H. S.** (2014). Designing opportunities for students to reason about the relationship between sources and structures of data. In K. Makar, B. de Sousa & R. Gould (Eds.), *Sustainability in statistics education. Proceedings of the Ninth International Conference on Teaching Statistics (ICOTS9, July 2014) Flagstaff, Arizona, USA*. Voorburg, The Netherlands: International Statistical Institute.
- Nickell, J.** (2012). Word clouds in math classrooms. *Mathematics Teaching in the Middle School*, 17(9), 564–566.
- Nickell, J.** (2007). Technology tips: Useful online and teacher production tools of the Geometer's Sketchpad. *Mathematics Teacher*, 100(8), 565-567.

MANUSCRIPTS UNDER REVIEW/IN PREPARATION

- Lovett, J. N., McCulloch, A. W., Dick, L. K., Sherman, M. F., Reed, S. D., Wanner, C. A., & Edgington, C.** (under review). Developing Preservice mathematics teachers TPACK of the function concept. Book chapter submitted to *Cases on developing teachers' technological pedagogical content knowledge (TPACK) in the digital age*.
- Lovett, J. N., Lee, H. S., & Harrell-Williams, L. M.** (Revise and Resubmit). Preservice secondary mathematics teachers are not prepared to teach statistics: A call for reform in mathematics teacher education programs. Submitted to *Statistics Education Research Journal*.
- Lovett, J. N., & Lee, H. S.** (Under Review). Preservice secondary mathematics teachers' statistical knowledge: A snapshot of strengths and weaknesses. Submitted to *Journal of Statistics Education*.
- Lovett, J. N., McCulloch, A. W., Patterson, B., & Martin, P.** (In Preparation). Developing students' definition of function. To be submitted to *Mathematics Teaching in the Middle School*.
- Lee, H. S., **Lovett, J. N., Moijca, G.** (In Preparation). Characterizing impacts of online professional development on teachers' beliefs and perspectives about teaching statistics. To be submitted to *Online Journal for Learning*.

PRESENTATIONS

Invited Presentations

- Lee, H. S., Lovett, J. N., Moijca, G. (July 2018). *Designing for educators in a teaching statistics MOOC: Design principles, use of multimedia, participant engagement, and reflection*. **Invited paper** presented at the 10th International Conference on Teaching Statistics, Kyoto, Japan.
- Lovett, J. N., Dick, L. K., McCulloch, A. W., Sherman, M. F., & Martin, K.** (March 2018). *Preservice mathematics teachers' professional noticing of students' mathematical thinking with technology*. **Invited featured research paper** presented at the annual international conference of the Society for Information Technology and Teacher Education, Washington, D.C. Paper presented was based on the National Technology Leadership Initiative Fellowship Award.

- Lovett, J. N.** (June 2017). *Beyond the graphing calculator: Incorporating technology into statistics lessons*. **Invited presentation** at the East Tennessee State University STEM Education Conference, Johnson City, TN.
- Lovett, J. N.** (July 2016). *Rethinking how statistics is taught in mathematics classrooms*. **Invited featured presentation** at the 30th annual High Schools That Work Staff Development Conference, Louisville, KY.
- Lee, H. S., **Lovett, J. N.**, Peters, S., Franklin, C. (April 2016). *Teacher development in statistics education: A critical examination of how teachers' experiences impact their knowledge beliefs, and practices for teaching statistics*. **Invited presentation** at the annual National Council of Teachers of Mathematics Research Conference, San Francisco, CA.
- Nickell, J.** (May 2015). *Incorporating technology to enhance preservice teachers' statistical reasoning and TPACK*. **Invited webinar** presentation for the Association of Mathematics Teacher Educators.
- Nickell, J.** (March 2015). *Incorporating technology to enhance teacher education lessons and preservice teachers' learning*. **Invited featured research paper** presented at the annual international conference of the Society for Information Technology and Teacher Education, Las Vegas, NV. Paper presented was based on the National Technology Leadership Initiative Fellowship Award.

International

- Avineri, T. A., Lee, H. S., Tran, D. **Lovett, J. N.**, & Gibson, T. (July 2016). *Design and impact of MOOCs for mathematics teachers*. Paper presented at the 13th International Congress on Mathematics Education. Hamburg, Germany.
- Lee, H. S., Tran, D., **Nickell, J.**, & Doerr, H. M. (February 2015). *Simulation approaches for informal inference: Models to develop understanding*. Paper presented at the 9th Congress of European Research in Mathematics Education, Prague, Czech Republic.
- Lee, H., & **Nickell, J.** (July 2014). *How a curriculum may develop technological statistical knowledge: A case of teachers examining relationships among variables using Fathom*. Paper presented at the International Conference on Teaching Statistics, Flagstaff, AZ.
- Nickell, J.**, & Lee, H. (July 2014). *Designing opportunities for students to reason about the relationship between sources and structures of data*. Paper presented at the International Conference on Teaching Statistics, Flagstaff, AZ.

National

- Lee, H. S., Mojica, G., & **Lovett, J. N.** (February 2018). *Designing effective professional development in an online environment to support teachers' learning*. Session presented at the annual conference of the Association of Mathematics Teacher Educators, Houston, TX.
- Lovett, J. N.**, Dick, L., McCulloch, A. W., Sherman, M., & Martin, K. (February 2018). *Developing Preservice Teachers' TPACK of Function using a Vending Machine Metaphor Applet*. Session presented at the annual conference of the Association of Mathematics Teacher Educators, Houston, TX.
- Martin, P., Soled, H., **Lovett, J. N.**, & Dick, L. K. (February 2018). *Students' Engagement with a Function Vending Machine Applet*. Poster presented at 21st Annual Conference on Research in Undergraduate Mathematics Education, San Diego, CA.

- Sherman, M. F., **Lovett, J. N.**, McCulloch, A. W., & Dick, Lara K. (February 2018). *Transforming students' definitions of function using a vending machine applet*. Session presented at 21st Annual Conference on Research in Undergraduate Mathematics Education, San Diego, CA.
- Harrell-Williams, L. M., **Lovett, J. N.**, Pierce, R. L., Sorto, M. A., Lee, H. S., & Lesser, L. M. (October 2017). *The middle grades SETS instrument: Psychometric comparison of middle and high school preservice mathematics teachers*. Session presented at the 39th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Indianapolis, IN.
- Jones, R. S., **Lovett, J. N.**, Google, A., Matuszewski, A. (October 2017). *Integrating face-to-face professional development and a MOOC-Ed to develop teachers' statistical knowledge for teaching*. Session presented at the 39th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Indianapolis, IN.
- Lee, H.S., **Lovett, J. N.**, & Mojica, G. (October 2017). *Characterizing impacts of online professional development on teachers' beliefs and perspectives about teaching statistics*. Session presented at the 39th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Indianapolis, IN.
- Lovett, J. N.**, & Lee, H. S. (October 2017). *Preservice secondary mathematics teachers' statistical knowledge: A snapshot of strengths and weaknesses*. Session presented at the 39th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Indianapolis, IN.
- McCulloch, A. W., **Lovett, J. N.**, & Edgington, C. (October 2017). *Developing preservice teachers' understanding of function using a vending machine metaphor applet*. Session presented at the 39th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Indianapolis, IN.
- Lee, H.S., **Lovett, J. N.**, Casey, S., Hudson, R., Mojica, G., Azmy, C., & Akoglu, K. (May 2017). *Bringing data and tools into classrooms through online large-scale teacher education*. Session presented at the United States Conference on Teaching Statistics, Happy Valley, PA.
- Harrell-Williams, L. M., Lovett, J. N., Koklu, O., Lee, H.S., Sorto, M. A., Pierce, R. L., Lesser, L. M., & Franklin, C. (May 2017). *Using self-efficacy data to inform teacher preparation and professional development*. Session presented at the United States Conference on Teaching Statistics, Happy Valley, PA.
- Lovett, J. N.**, & Gibson, T. (April 2017). *MOOC-Eds: Free online professional development on your schedule*. Session presented at the annual conference of the National Council of Teachers of Mathematics, San Antonio, TX.
- Strayer, J. E., **Lovett, J. N.**, & Matuszewski, A. L. (April 2017). *Using simulations to make inferences: Come learn how!* Session presented at the annual conference of the National Council of Teachers of Mathematics, San Antonio, TX.
- Lovett, J. N.** (February 2017). *Increasing the preparation of preservice secondary teachers to teach statistics*. Session presented at the annual conference of the Association of Mathematics Teacher Educators, Orlando, FL.
- McCulloch, A. W., **Lovett, J. N.**, & Edgington, C. (February 2017). *Developing preservice teachers' understanding of function using a machine metaphor applet*. Session presented

- at the annual conference of the Association of Mathematics Teacher Educators, Orlando, FL.
- Lovett, J. N., McCulloch, A. W.** (November 2016). *Preservice teachers' development of an understanding of function using different metaphors*. Poster presented at the annual conference of the North American Chapter of Psychology of Mathematics Education, Tucson, AZ.
- Lovett, J. N.** (April 2016). *Preparedness of preservice secondary mathematics teachers to teach statistics*. Session presented at the annual National Council of Teachers of Mathematics Research Conference, San Francisco, CA.
- McCulloch, A., Lee, H. S., Hollebrands, K., Chandler, K., & **Lovett, J. N.** (January 2016). *Preparing teachers to plan and implement technology-based algebra tasks using open access tools*. Session presented at the annual conference of the Association of Mathematics Teacher Educators, Irvine, CA.
- Thrasher, E., **Lovett, J. N.**, Starling, T., Doerr, H. M., & Lee, H. S. (November 2015). *Influence of a graduate course on teachers' self-efficacy to teach statistics*. Paper presented at the annual conference of the North American Chapter of Psychology of Mathematics Education, East Lansing, MI.
- Lee, H. S., Doerr, H. M., Jacob, B., Starling, T. T., Pulis, T., Tran, D., **Nickell, J.**, & Thrasher, E. (April 2015). *Development of teachers' statistical reasoning and confidence in teaching statistics*. Session presented at the annual National Council of Teachers of Mathematics Research Conference, Boston, MA.
- Nickell, J.**, Lee, H. S., & Doerr, H. M. (April 2015). *Teachers' visual representations of a simulation approach to inference*. Poster presented at the annual National Council of Teachers of Mathematics Research Conference, Boston, MA.
- Whitely, K., **Nickell, J.**, Whitehead, A., & McCulloch, A. (April 2015). *Modeling noise-cancelling headphone with trigonometric functions*. Session presented at the annual meeting of the National Council of Teachers of Mathematics, Boston, MA.
- Nickell, J.** (February 2015). *Incorporating technology to enhance teacher education lessons and preservice teachers' learning*. Session presented at the annual conference of the Association of Mathematics Teacher Educators, Orlando, FL.
- Thrasher, E., **Nickell, J.**, & Keene, K. A. (February 2015). *The gas problem: Preservice teachers approaches to mathematical modeling in methods courses*. Session presented at the annual conference of the Association of Mathematics Teacher Educators, Orlando, FL.
- Cayton, C., Sherman, M., McCulloch, A., **Nickell, J.**, & Chandler, K. (April 2014). *Technological tasks, cognitive demand in secondary classrooms and teacher education*. Session presented at the annual National Council of Teachers of Mathematics Research Conference, New Orleans, LA.
- Lee, H. S., Bos, B., Ozgun-Koca, A., **Nickell, J.**, & Chandler, K. (February 2014). *Supporting teachers in developing technology-based mathematics tasks*. Session presented at the annual conference of the Association of Mathematics Teacher Educators, Irvine, CA.
- Chandler, K., Avineri, T., & **Nickell, J.** (May 2013). *Developing informal inference in the middle grades through exemplary tasks*. Poster presented at the United States Conference on Teaching Statistics, Raleigh, NC.
- Maloney, A., Confrey, J., Avineri, T., Ng, D., & **Nickell, J.** (May 2013). *Using learning trajectories to interpret the Common Core Math Standards*. Session presented at the United States Conference on Teaching Statistics, Raleigh, NC.

- Nickell, J., & Carlin, K.** (April 2010). *Promoting higher-level geometric thinking through constructions and writing assignments*. Session presented at the annual meeting of the National Council of Teachers of Mathematics, Indianapolis, IN.
- Harper, S. R., Driskell, S. O. & Nickell, J.** (April 2008). *Exploring probabilities by simulating card games using Fathom*. Session presented at the annual meeting of the National Council of Teachers of Mathematics, Salt Lake City, UT.
- Nickell, J., Harper, S. R. & Driskell, S. O.** (April 2008). *Using technology-based projects to foster geometric thinking in the middle grades*. Session presented at the annual meeting of the National Council of Teachers of Mathematics, Salt Lake City, UT.
- Nickell, J., Sosko, S. & Broering, A.** (April 2005). *Math worth skipping cartoons for: Have a kids mathematics conference!* Session presented at the annual meeting of the National Council of Teachers of Mathematics, Anaheim, CA.

Regional/State

- Lovett, J. N.** (September 2016). *Transforming how statistics is taught in middle grades*. Session presented at the annual conference of the Tennessee Mathematics Teachers Association, Murfreesboro, TN.
- Chandler, K., Whitehead, A., & Nickell, J.** (November 2014). *“There’s an app for that!” Geometer’s Sketchpad on the iPad*. Session presented at the regional conference of the National Council of Teachers of Mathematics, Richmond, VA.
- Nickell, J., Chandler, K., & Whitehead, A.** (November 2014). *Developing students’ abilities to describe and reason about data*. Session presented at the regional conference of the National Council of Teachers of Mathematics, Richmond, VA.
- Chandler, K., Cayton, C., & Nickell, J.** (October 2014). *Designing technological tasks*. Session presented at the annual meeting of the North Carolina Council of Teachers of Mathematics, Greensboro, NC.
- Nickell, J. & Whitehead, A.** (October 2014). *Understanding measurement units of data*. Session presented at the annual meeting of the North Carolina Council of Teachers of Mathematics, Greensboro, NC.
- Whitehead, A., & Nickell J.** (October 2014). *Using measurement tasks to foster statistical thinking*. Session presented at the annual meeting of the North Carolina Council of Teachers of Mathematics, Greensboro, NC.
- Carlin, K., & Nickell, J.** (November 2013). *Flip your classroom! Give it a try for a chapter!* Session presented at the regional conference of the National Council of Teachers of Mathematics, Louisville, KY.
- Nickell, J., Chandler, K., Bell, A., & Leak, M.** (November 2013). *New teacher resources: Games*. Session presented at the annual meeting of the North Carolina Council of Teachers of Mathematics, Greensboro, NC.
- Nickell, J., & Chandler, K.** (November 2013). *Stats & CCSSM. Where to begin?* Session presented at the annual meeting of the North Carolina Council of Teachers of Mathematics, Greensboro, NC.
- Nickell, J., & Maloney, A.** (November 2013). *Navigating middle school statistics learning in CCSS-M*. Session presented at the regional conference of the National Council of Teachers of Mathematics, Louisville, KY.

- Chandler, K., & **Nickell, J.** (October 2013). *How to use GSP on the iPad*. Session presented at the annual meeting of the North Carolina Council of Teachers of Mathematics, Greensboro, NC.
- Panorkou, N., Confrey, J., & **Nickell, J.** (October 2012). *Unpacking shapes and angles in the CCSS-M*. Session presented at the annual meeting of the North Carolina Council of Teachers of Mathematics, Greensboro, NC.
- Nickell, J.**, & Carlin, K. (November 2009). *Promoting higher level thinking in a geometry classroom through constructions, projects and writing assignments*. Session presented at the annual meeting of the Ohio Council of Teachers of Mathematics, Cincinnati, OH.

GRANT ACTIVITY

External

Engaging Students in Data Modeling. Grant awarded by the Tennessee Higher Education Commission (January 2017 – December 2017). Grant is focused on providing professional development on statistical knowledge and pedagogy to middle school teachers in Rutherford and Davidson counties in Tennessee. Teachers will engage in a one-week summer institute, Teaching Statistics Through Data Investigations MOOC-Ed, and a professional learning community. PI: **Jennifer Lovett**, Co-PI: Seth Jones. (\$74,570)

COLLABORATIVE SCHOLARLY ACTIVITIES

External

Consultant

2017 The Mathematical Education of Teachers as an Application of Undergraduate Mathematics (META Math), NSF-funded

Co-Designer

2016 Teaching Mathematics with Technology MOOC-Ed

2015 Teaching Statistics Through Data Investigations MOOC-Ed

TEACHING

Middle Tennessee State University

MATH 1420 Informal Geometry for Elementary Teachers

MATH 3320 Teaching Math Middle Grades

MATH 6360 Technology Tools for School Mathematics

MSE 7820

YOED 4400 Residency II

North Carolina State University

EMS 204 Introduction to Mathematics Education

EMS 480 Teaching Mathematics with Technology

PROFESSIONAL SERVICE

Field of Mathematics and Statistics Education

2017	Editorial Panel , Contemporary Issues in Technology and Teacher Education (CITE) Journal
2014 – 2017	Associate Editor , Statistics Education Web (STEW)
	Proposal Reviewer
2015	International Congress on Mathematics Education
2015 – Present	Psychology of Mathematics Education North American Chapter Annual Conference
2014 – Present	Association of Mathematics Teacher Educators Conference
2014 – 2016	National Council of Teachers of Mathematics Research Conference
	Manuscript Referee
2017 – Present	Journal of Mathematics Teacher Education
2016 – Present	Journal of Teacher Education
	Journal of Research in Mathematics Education
	School Science and Mathematics
	Ohio Journal of School Mathematics
2014 – Present	Statistics Education Research Journal
2013 – Present	Teaching Children Mathematics
2011 – Present	Mathematics Teacher
	Mathematics Teaching in the Middle School
2012 – 2014	Graduate Student Advisor , North Carolina Council of Teachers of Mathematics: Kappa Chapter
2004 – 2005	President , Miami University Council of Teachers of Mathematics
2003 – 2004	Vice President , Miami University Council of Teachers of Mathematics

Middle Tennessee State University

Departmental Service

2017 – Present	Research Committee
2016 – Present	Mathematics Education Curriculum Group
2016 – Present	Undergraduate Program Policy Committee
2016 – Present	TMTA Contest Committee

University Service

2017	Expanding Your Horizons Conference Co-Chair
2016 – Present	Expanding Your Horizons (EYH) Executive Committee

PROFESSIONAL AFFILIATIONS

Psychology of Mathematics Education – North American Chapter

Association of Mathematics Teacher Educators
National Council of Teachers of Mathematics
American Statistical Association
School of Science and Mathematics Association
Tennessee Mathematics Teachers Association
Middle Tennessee Mathematics Teachers