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Room 285A, Porter Education Building
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EDUCATION

August 2009	THE PENNSYLVANIA STATE UNIVERSITY <i>Ph.D., Curriculum & Instruction, Emphasis area: Mathematics Education</i> Dissertation: Developing an Understanding of Variation: AP [®] Statistics Teachers' Perceptions and Recollections of Critical Moments under the direction of Dr. Rose Mary Zbiek	University Park, PA
August 2007	THE PENNSYLVANIA STATE UNIVERSITY <i>M.A.S., Master of Applied Statistics</i>	University Park, PA
August 1991	WEST CHESTER UNIVERSITY OF PENNSYLVANIA <i>M.A., Mathematics</i>	West Chester, PA
May 1987	KUTZTOWN UNIVERSITY OF PENNSYLVANIA <i>B.S., Secondary Education: Mathematics</i>	Kutztown, PA

PROFESSIONAL LICENSE AND CERTIFICATE

2002-Present	PENNSYLVANIA ADMINISTRATIVE I	Commonwealth of Pennsylvania
2002-Present	PENNSYLVANIA SUPERVISORY I	Commonwealth of Pennsylvania
1991-Present	PENNSYLVANIA INSTRUCTIONAL II <i>Secondary Mathematics</i>	Commonwealth of Pennsylvania
1987-1991	PENNSYLVANIA INSTRUCTIONAL I <i>Secondary Mathematics</i>	Commonwealth of Pennsylvania

ACADEMIC AND PROFESSIONAL EXPERIENCE

2009-Present	UNIVERSITY OF LOUISVILLE <i>Associate Professor (Assistant Professor, 2009-2015)</i> <ul style="list-style-type: none">• Teach middle school and secondary mathematics teacher preparation courses (EDTP 408/423/608/623; EDTP 581/EDAP 676; EDTP 477/677)• Teach graduate courses in mathematics education (EDAP 604; EDAP 694; EDAP 696)• Teach graduate courses on qualitative research methods (EDAP 694)• Serve as advisor for undergraduate and graduate candidates in the middle and secondary program and graduate students in the teacher leadership program and the Ph.D. program in Curriculum & Instruction	Louisville, KY
2007-2009	JOURNAL FOR RESEARCH IN MATHEMATICS EDUCATION <i>Assistant Editor (Assistant Editor-Designate 2007-2008)</i> <i>National Council of Teachers of Mathematics</i>	University Park, PA
2006-2007	THE PENNSYLVANIA STATE UNIVERSITY <i>Supervisor of record, CI 495C: Clinical Applications of Instruction – Secondary Education</i>	University Park, PA

2005-2006	THE PENNSYLVANIA STATE UNIVERSITY <i>Instructor of record, MTHED 412: Teaching Secondary Mathematics II</i>	University Park, PA
2003-2009	MID-ATLANTIC CENTER FOR MATHEMATICS TEACHING AND LEARNING <i>MAC-MTL Fellow</i> <i>The Pennsylvania State University</i>	University Park, PA
1987-2003	TWIN VALLEY HIGH SCHOOL <i>Teacher</i>	Elverson, PA
	<ul style="list-style-type: none"> • Taught algebra I, algebra II, AP[®] calculus, AP[®] statistics, computer science, general mathematics, geometry, honors precalculus, statistics, math analysis, refresher mathematics, and applied mathematics 	

UNIVERSITY COURSES TAUGHT

UNIVERSITY OF LOUISVILLE

EDTP 396	Independent Study: Mathematics: Transitioning from High School to College
EDTP 396	Independent Study: Essential Understandings of Mathematics
EDTP 396	Independent Study: Essential Understanding of Geometry
EDTP 396	Independent Study: Essential Understanding of Function & Ratio
EDTP 396	Independent Study: Essential Understanding of Function & Proof
EDTP 396	Independent Study: Teaching High School Statistics
EDTP 408/608	Middle School Mathematics Methods
EDTP 423/623	High School Mathematics Methods
EDTP 477/677	Capstone Seminar: Initial Certification
EDTP 581/EDAP 676	Technology Applications for Mathematics Teachers
EDAP 604	Teaching Statistics K-12
EDAP 604	Teacher Knowledge: Mathematics and Science
EDAP 694	Qualitative Research Methods
EDAP 694	Mathematics Curriculum: Research and Theory
EDAP 696	Independent Study: Middle and Secondary Mathematics Teacher Education
EDAP 696	Independent Study: Adult Learning Theory and Professional Development Design
EDAP 696	Independent Study: Research on Mathematics Education and Technology
EDAP 696	Independent Study: Teaching and Teacher Education in Mathematics
EDAP 696	Independent Study: Mathematics Modeling Research

THE PENNSYLVANIA STATE UNIVERSITY

MTHED 412	Teaching Secondary Mathematics II
CI 495C	Clinical Applications of Instruction – Secondary Education

GRANTS

GRANTS (WRITTEN AND FUNDED)

2012-2019	NATIONAL SCIENCE FOUNDATION: FACULTY EARLY CAREER DEVELOPMENT PROGRAM (CAREER) Principal investigator: <i>Investigating middle and secondary mathematics teachers' transformative learning of statistics within professional development</i> (\$587,253)
2012-2016	INSTITUTE OF EDUCATIONAL SCIENCES Principal investigator, 2014 – 2016; Co-principal investigator, 2012-2014: <i>Updating middle school mathematics diagnostic assessments in mathematics and science</i> (2012-2014: PI: William Bush, Co-PI: Robert Ronau; 2014-present: Co-PI: Robert Ronau, Maggie McGatha, \$1,291,241)

- 2010 **UNIVERSITY OF LOUISVILLE STAFF/FACULTY PROFESSIONAL DEVELOPMENT SMALL-GRANT**
Conference travel support grant: *American Educational Research Association Annual Meeting*,
Denver, CO (\$483)
- 2010 **UNIVERSITY OF LOUISVILLE COLLEGE OF EDUCATION AND HUMAN DEVELOPMENT RESEARCH
AND FACULTY DEVELOPMENT GRANT**
Conference travel support grant: *2010 Research Presession of the National Council of Teachers of
Mathematics Annual Meeting and Exposition*, San Diego, CA (\$1146)
- 2009-2014 **NATIONAL SCIENCE FOUNDATION**
Senior Personnel: *Geometry Assessment for Secondary Teachers* (University of Louisville & University
of Kentucky; PI: William Bush; Co-PI: Carl Lee, \$3,081,716)
- 2008 **MID-ATLANTIC CENTER FOR MATHEMATICS TEACHING AND LEARNING, THE PENNSYLVANIA
STATE UNIVERSITY**
Conference travel support grant: *32nd Conference of the International Group for the Psychology of
Mathematics Education and the 30th annual meeting of the North American Chapter of the
International Group for the Psychology of Mathematics Education*, Morelia, Mexico (\$1334)
- 2007-2008 **MID-ATLANTIC CENTER FOR MATHEMATICS TEACHING AND LEARNING, THE PENNSYLVANIA
STATE UNIVERSITY**
Dissertation data collection travel support grant (\$5000)
- 2006-2007 **THE PENNSYLVANIA STATE UNIVERSITY COLLEGE OF EDUCATION ALUMNI SOCIETY RESEARCH
INITIATION GRANT**
Principal investigator: *Developing an understanding of variation: AP Statistics teachers’
perceptions and recollections of critical moments* (\$600)
- 2005, 2009 **THE CONSORTIUM FOR THE ADVANCEMENT OF UNDERGRADUATE STATISTICS EDUCATION
(CAUSE)**
Registration grant: *United States Conference on Teaching Statistics*, Columbus, OH (\$125 in 2005; \$160
in 2009)
- 2003-2009 **NATIONAL SCIENCE FOUNDATION: MID-ATLANTIC CENTER FOR MATHEMATICS TEACHING AND
LEARNING (MAC-MTL)**
Graduate fellowship: (\$25,000/year fellowship plus tuition and benefits)

GRANTS (NOT FUNDED)

- 2019-2023 **NATIONAL SCIENCE FOUNDATION**
Co-Principal investigator: *Statistical and algebraic reasoning and collective argumentation (SARCA)*
(PI: AnnaMarie Conner, Co-PI: Carlos Nicholas Gomez, Laura Singletary, Subaward to University of
Louisville \$259,646)
- 2018-2020 **NATIONAL SCIENCE FOUNDATION**
Principal investigator, University of Louisville: *Collaborative Research: Statistical and algebraic
reasoning and collective argumentation (SARCA)* (\$71,249)
- 2014 **NATIONAL SCIENCE FOUNDATION**
Principal investigator, University of Louisville: *Collaborative Research: Developing knowledge for
teaching tasks in calculus* (\$501,436)
- 2010 **SPENCER FOUNDATION**
Principal investigator: *Standard Statistics: Investigation of middle and secondary mathematics teachers’
professional development for transformative learning* (\$39,998, unfunded)

BOOKS

- Carroll, A. M., Carver, R. E., **Peters, S. A.**, & Ricks, J. D. (2019). *Pearson Education AP Test Prep Series AP* Statistics to accompany Stats: Modeling the world* (5th ed.). Boston, MA: Pearson.
- Peters, S. A.**, Bay-Williams, J. M., & Martinie, S. (2016). *On the money: High school mathematics activities to build financial literacy*. Reston, VA: National Council of Teachers of Mathematics.
- Bay-Williams, J. M., Bush, S. B., **Peters, S. A.**, & McGatha, M. B. (2015). *On the money: Math activities to build financial literacy, grades 6-8*. Reston, VA: National Council of Teachers of Mathematics.
- Carroll, A. M., Carver, R. E., **Peters, S. A.**, & Ricks, J. D. (2015). *Pearson Education AP Test Prep Series AP* Statistics to accompany Stats: Modeling the world* (4th ed.). Boston, MA: Pearson.
- Kucera, L., Swaynos, J., & **Peters, S.** (2014). *JMP introductory lab activities (JILA)* (2nd ed.). Retrieved from http://jmp.com/academic/ap_stat_resources.shtml
- Carroll, A. M., Carver, R. E., **Peters, S. A.**, & Ricks, J. D. (2010). *Pearson Education AP Test Prep Series AP* Statistics to accompany Stats: Modeling the world* (3rd ed.). Boston, MA: Pearson.
- Carroll, A. M., Carver, R. E., **Peters, S. A.**, & Ricks, J. D. (2007). *Pearson Education AP Test Prep Series AP* Statistics to accompany Stats: Modeling the world* (2nd ed.). Boston, MA: Pearson.
- Carroll, A. M., Carver, R. E., **Peters, S. A.**, & Ricks, J. D. (2004). *Preparing for the Statistics AP* Exam with Stats: Modeling the world*. Boston, MA: Pearson.

JOURNAL ARTICLES (PEER REVIEWED)

- Peters, S. A.**, Gross, M., & Stokes-Levine, A. (2019). Project-based statistics: Capitalizing on students' interests. *Mathematics Teaching in the Middle School*, 24(6), 330-337.
- Bay-Williams, J. M., **Peters, S. A.**, & Id-Deen, L. (2019, Winter). Multiple strategies: From stress to success. *Reflections*, 11(1). Retrieved from <http://new.gctm-resources.org/gctm/reflections/winter2019/index.html>
- Celedón-Pattichis, S., Lunney Borden, L., Pape, S. J., Clements, D. H., **Peters, S. A.**, Males, J. R., Chapman, O., & Leonard, J. (2018). Assets-based approaches to equitable mathematics education research and practice. *Journal for Research in Mathematics Education*, 4, 373-389.
- Mohr-Schroeder, M., Ronau, R. N., **Peters, S. A.**, Lee, C. W., & Bush, W. S. (2017). Predicting student achievement using measures of teachers' knowledge for teaching geometry. *Journal for Research in Mathematics Education*, 48(5), 520-566.
- Peters, S. A.** (2017, September). Practices for simply solving pesky probability problems in grades 6-12. *Kentucky Teacher: Mathematics*. Retrieved from <http://www.kentuckyteacher.org/subjects/mathematics/>
- Peters, S. A.**, & Conner, A. (2016, October). More confidence in salaries in petroleum engineering. *Statistics Education Web: Online Journal of K-12 Statistics Lesson Plans*. Retrieved from <http://www.amstat.org/ASA/Education/STEW/home.aspx>
- Peters, S. A.**, & Conner, A. (2016, September). Confidence in salaries in petroleum engineering. *Statistics Education Web: Online Journal of K-12 Statistics Lesson Plans*. Retrieved from <http://www.amstat.org/ASA/Education/STEW/home.aspx>

- Peters, S. A., & Zbiek, R. M.** (2016, Summer). Coefficient of determination: It's just middle school math? *Reflections*, 8(2). Retrieved from http://new.gctm-resources.org/gctm/reflections/summer2016/index.htm#Coefficient_of_Determination:_It's_Just_Middle_School_Math
- Peters, S. A., Miller Bennett, V⁺, Young, M., & Watkins, J. ⁺** (2016). Fair and balanced approach to mean. *Mathematics Teaching in the Middle School*, 21(6), 364-375.
- Orrill, C. H., Kim, O.-K., **Peters, S. A.**, Lischka, A. E., Jong, C., Sanchez, W. B., & Eli, J. A. (2015). Challenges and strategies for assessing mathematical knowledge for teaching. *Mathematics Teacher Education and Development*, 17(1), 12-29.
- Peters, S. A.** (2014). Developing understanding of statistical variation: Secondary statistics teachers' perceptions and recollections of learning factors. *Journal of Mathematics Teacher Education*, 17, 539-582. doi: 10.1007/s10857-013-9242-7
- Zbiek, R. M., **Peters, S. A.**, Johnson, K. H.⁺, Cannon, T.⁺, Boone, T. M.⁺, & Foletta, G. M. (2014). Locally logical mathematics: An emerging teacher honoring both students and mathematics. *Journal of Mathematical Behavior*, 34, 58-75.
- Larson, A., McGatha, M., Howell, P., **Peters, S.**, Wolph, J., Webb, J., Lewis, S., & Hunter, S. (2013, Summer). A collaborative model for implementing state Common Core school standards [Special issue]. *Kentucky Journal of Excellence in College Teaching and Learning*, 86-103.
- Peters, S. A.** (2011). Robust understandings of variation. *Statistics Education Research Journal*, 10(1), 52-88.
- Peters, S. A.** (2010). Engaging with the art and science of statistics. *Mathematics Teacher*, 103(7), 496-503.

JOURNAL ARTICLES (INVITED)

- Peters, S. A., & Conner, A.** (2016, December). Lesson plan: Confidence in salaries in petroleum engineering. *Statistics Teacher*. Retrieved from <http://www.statisticteacher.org/2016/12/> (*Statistics Education Web: Online Journal of K-12 Statistics Lesson Plans*, 2016. Retrieved from <http://www.amstat.org/ASA/Education/STEW/home.aspx>)
- Peters, S. A., & Conner, A.** (2016, Fall). Featured STEW lesson plan: Confidence in salaries in petroleum engineering. *The Statistics Teacher Network*, 88, 10-23. Retrieved from <https://ww2.amstat.org/education/stn/pdfs/STN88.pdf>
- Peters, S. A.** (2016, Summer). Early-career mathematics educators: Our opportunities and responsibilities. *AMTE Connections*, 25(4). Retrieved from <http://www.amte.net/connections/2016/05/feature-article-2016-amte-early-career-award-winner>.
- Heid, M. K., Graysay, D. T.⁺, & **Peters, S. A.** (2011). Insights about cites (Editorial). *Journal for Research in Mathematics Education*, 42, 306-307.

BOOK CHAPTERS (PEER REVIEWED)

- Ronau, R. N., Webb, D. C., **Peters, S. A.**, Mohr-Schroeder, M. J., & Stade, E. (Submitted). Mathematical preparation. *The mathematics teacher education partnership: The power of a networked improvement community to transform secondary mathematics teacher preparation*.
- Peters, S. A., & Stokes-Levine, A.⁺** (2019). Teacher learning: Measures of variation. In G. Burrill & D. Ben-Zvi (Eds.), *Topics and trends in current statistics education research: International perspectives* (pp. 245-284). Basel, Switzerland: Springer.

- Peters, S. A., & Kopeikin, K.**⁺ (2016). Integrated reasoning about statistical variation: Secondary teachers' development of foundational understandings. In D. Ben-Zvi & K. Makar (Eds.), *Teaching and learning of statistics: International perspectives* (pp. 249-259). Cham, Switzerland: Springer.
- Peters, S., McClintock, E., Kinol, D., Karunakaran, S., Zbiek, R. M., Heid, M. K., Singletary, L., & Donaldson, S.** (2015). Mean and median. In M. K. Heid & P. S. Wilson (with G. W. Blume) (Eds.), *Mathematical understanding for secondary teaching: A framework and classroom-based situations* (pp. 397-404). Charlotte, NC: Information Age.
- Peters, S., McClintock, E., Kinol, D., Grady, M., Johnson, H. Konnova, S., & Heid, M. K.** (2015). Least squares regression. In M. K. Heid & P. S. Wilson (with G. W. Blume) (Eds.), *Mathematical understanding for secondary teaching: A framework and classroom-based situations* (pp. 421-424). Charlotte, NC: Information Age.
- McClintock, E., **Peters, S., Kinol, D., Reed, S., Johnson, H., Tilemma, E., Zbiek, R. M., Heid, M. K., Donaldson, S., Murray, E., & Blume, G.** (2015). Similarity. In M. K. Heid & P. S. Wilson (with G. W. Blume) (Eds.), *Mathematical understanding for secondary teaching: A framework and classroom-based situations* (pp. 343-350). Charlotte, NC: Information Age.
- Peters, S. A. & Kopeikin, K.**⁺ (2013). Integrated reasoning about statistical variation: Secondary teachers' development of foundational understandings. In D. Ben-Zvi & K. Makar (Eds.), *Teaching and learning of statistics: International perspectives* (pp. 249-259). University of Haifa, Israel: Statistics Education Center.

BOOK CHAPTERS: CONFERENCE PROCEEDINGS (PEER REVIEWED)

- Peters, S. A.** (2018). Professional development to transform middle and high school teachers' knowledge about distribution. In M. A. Sorto (Ed.), *Looking back, looking forward. Proceedings of the Tenth International Conference on Teaching Statistics (ICOTS-10)*, Kyoto, Japan. Voorburg, The Netherlands: International Statistical Institute.
- Peters, S. A., & Stokes-Levine, A.**⁺ (2016). Teacher learning: Measures of variation. In *Proceedings of Topic Study Group 15, 13th International Congress on Mathematical Education*. Hamburg, Germany.
- Peters, S. A., Watkins, J. D.**⁺ & **Bennett, V. M.**⁺ (2014). Middle and high school teachers' transformative learning of center. In K. Makar, B. de Sousa, & R. Gould (Eds.), *Sustainability in statistics education. Proceedings of the Ninth International Conference on Teaching Statistics (ICOTS-9)*, Flagstaff, AZ. Voorburg, The Netherlands: International Statistical Institute.
- Peters, S. A. & Kopeikin, K.**⁺ (2012). Integrated reasoning about statistical variation: Secondary teachers' development of foundational understandings. In D. Ben-Zvi & K. Makar (Eds.), *Teaching and learning of statistics: Proceedings of Topic Study Group 12, International Congress on Mathematical Education*, Seoul, South Korea.
- Peters, S. A.** (2010). Developing robust understandings of variation. In C. Reading (Ed.), *Data and context in statistics education: Towards an evidence-based society. Proceedings of the Eighth International Conference on Teaching Statistics (ICOTS-8)*, Ljubljana, Slovenia. Voorburg, The Netherlands: International Statistical Institute.
- Peters, S. A.** (2009). Conceptions of statistical variation. 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*. Atlanta, GA: PME-NA.

Peters, S. A. (2008). Robust understanding of variation: An interaction of three perspectives. In O. Figueras, & A. Sepúlveda (Eds.), *Proceedings of the Joint Meeting of the 32nd Conference of the International Group for the Psychology of Mathematics Education and the 30th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (Vol. 1, p. 300). Morelia, Michoacán, México: PME.

Heid, M. K., Perkinson, D., **Peters, S. A.**, & Fratto, C. (2005). Making and managing distinctions: The case of sampling distributions. In G. M. Lloyd, M. Wilson, J. L. M. Wilkins, & S. L. Behm (Eds.), *Proceedings of the 27th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. Roanoke, VA: PME-NA.

WHITE PAPERS AND REPORTS (PEER REVIEWED)

Ronau, R. N., Stade, E., **Peters, S. A.**, Webb, D., & Bush, W. S. (2014). *Mathematical preparation* [White paper]. New York: Association of Public and Land-grant Universities Mathematics Teacher Education Partnership.

CONFERENCE PAPERS (PEER REVIEWED)

Peters, S. A., Watkins, J. D.⁺, & Bennett, V. M.⁺ (2014, April). Middle and high school teachers' transformative learning of center. Paper presented at the 2014 Research Conference of the National Council of Teachers of Mathematics Annual Meeting and Exposition, New Orleans, LA.

Zbiek, R. M., Cannon, T.⁺, Johnson, K.⁺, & **Peters, S. A.** (2011, April). *Understanding a beginning teacher's sensitivity to students and mathematics*. Paper presented at the 2011 Research Pre-session of the National Council of Teachers of Mathematics Annual Meeting and Exposition, Indianapolis, IN.

Shirley, M. L., & **Peters, S. A.** (2011, January). *Development and implementation of a redesigned technology course for middle/secondary science teachers*. Paper written to accompany a poster presentation at the 2011 International Conference of the Association of Science Teacher Educators. Minneapolis, MN.

Zbiek, R. M., & **Peters, S. A.** (2010, May). *Unraveling a beginning teacher's mathematical practice: A case of connections in service of understanding*. Paper presented at the 2010 American Educational Research Association (AERA) Annual Meeting, Denver, CO.

Zbiek, R. M., **Peters, S. A.**, Boone, T.⁺, & Johnson, K.⁺ (2009, April). *Locally logical mathematics: An emerging teacher honoring both students and mathematics*. Paper presented at the 2009 American Educational Research Association (AERA) Annual Meeting, San Diego, CA.

Heid, M. K., **Peters, S. A.**, Fratto, C., & Perkinson, D. (2006). *Making and managing distinctions: The case of sampling distributions*. Paper presented at the Research Pre-session of the NCTM 2006 Annual Meeting and Exposition, St. Louis, MO.

CURRICULUM MATERIALS AND CREATIVE WORKS

Peters, S. A., McGatha, M., Bush, W. S., et al. (2016). Diagnostic Teacher Assessments in Mathematics and Science (DTAMS): Middle grades geometry (Forms 1-4) [Assessment Instrument]. Louisville, KY: University of Louisville.

Peters, S. A., McGatha, M., Bush, W. S., et al. (2016). Diagnostic Teacher Assessments in Mathematics and Science (DTAMS): Middle grades statistics and probability (Forms 1-4) [Assessment Instrument]. Louisville, KY: University of Louisville.

Ronau, R. N., **Peters, S. A.**, Bush, W. S., et al. (2016). Diagnostic Teacher Assessments in Mathematics and Science (DTAMS): Middle grades algebraic thinking (Forms 1-4) [Assessment Instrument]. Louisville, KY: University of Louisville.

Ronau, R. N., **Peters, S. A.**, Bush, W. S., et al. (2016). Diagnostic Teacher Assessments in Mathematics and Science (DTAMS): Middle grades number and computation (Forms 1-4) [Assessment Instrument]. Louisville, KY: University of Louisville.

Bush, W. S., Ronau, R. N., Mohr-Schroeder, M., Lee, C., **Peters, S. A.**, Buckendahl, C., et al. (2014). Geometry Assessments for Secondary Teachers (Form A & Form B) [Assessment Instrument]. Louisville, KY: University of Louisville.

Carver, R., & **Peters, S.** (2002). *Web guide for AP[®] Statistics*, from http://apcentral.collegeboard.com/apc/members/courses/teachers_corner/21971.html

Kucera, L., **Peters, S.**, & Swaynos, J. (2001). *JMP INTRO[®] Lab Activities (JILA Project)*, from http://courses.ncssm.edu/math/Stat_Inst2001/Intro/Introduction.htm

PRESENTATIONS (+ indicates graduate student)

PRESENTATIONS (INTERNATIONAL AND NATIONAL, PEER REVIEWED)

Peters, S. A. (2019, April). *Transforming teachers' understanding of distribution*. Presentation at the 2019 National Council of Teachers of Mathematics Research Conference. San Diego, CA.

Conner, A., **Peters, S.**, & Gomez, C. (2019, February). *Distinctive aspects of reasoning in statistics and mathematics*. Presentation at the Twenty-second Annual Meeting of the Association of Mathematics Teacher Educators. Orlando, FL.

Peters, S. A. (2018, July). *Professional development to transform middle and high school teachers' knowledge about distribution*. Invited presentation at the 2018 International Conference on Teaching Statistics. Kyoto, Japan.

Peters, S. A., & Gross, M. (2018, April). *Middle grades statistics: Dealing with so much content in so little time!* Presentation at the 2018 National Council of Teachers of Mathematics Annual Meeting and Exposition. Washington, DC.

Watkins, J. D. +, & **Peters, S. A.** (2018, April). *Standard(s) statistics: Exploring Common Core statistics content*. Presentation at the 2018 National Council of Teachers of Mathematics Annual Meeting and Exposition. Washington, DC.

Burrill, G., Dick, T., & **Peters, S. A.** (2018, April). *Concept images, statistical variability, and interactive dynamic technology*. Presentation at the 2018 Research Conference of the National Council of Teachers of Mathematics Annual Meeting and Exposition. Washington, DC.

Peters, S. A., & Watkins, J. D. + (2018, February). *Activities to facilitate middle and secondary mathematics teachers' learning of distribution within professional development*. Presentation at the Twenty-first Annual Meeting of the Association of Mathematics Teacher Educators. Houston, TX.

Peters, S. A., Bay-Williams, J. M., & McGatha, M. B. (2017, April). *On the money: Integrating mathematics and financial literacy*. Presentation at the 2017 National Council of Teachers of Mathematics Annual Meeting and Exposition. San Antonio, TX.

Martinie, S. L., & **Peters, S. A.** (2017, April). *In your interest: Integrating mathematics and financial literacy*. Presentation at the 2017 National Council of Teachers of Mathematics Annual Meeting and Exposition, San Antonio, TX.

Stokes-Levine, A. +, & **Peters, S. A.** (2017, February). *Adult learning theory: A lens for designing and investigating teacher explorations with statistical variation*. Presentation at the Twenty-first Annual Meeting of the Association of Mathematics Teacher Educators. Orlando, FL.

- Burrill, G., Dick, T., & **Peters, S. A.** (2017, February). *The CCSS statistics and probability standards: Implications for teacher preparation*. Presentation at the Twenty-first Annual Meeting of the Association of Mathematics Teacher Educators. Orlando, FL.
- Peters, S. A.**, & Stokes-Levine, A. + (2016, July). *Teacher learning: Measures of variation*. Presentation at the International Congress on Mathematical Education Topic Study Group 15: Teaching and learning of statistics. Hamburg, Germany.
- Peters, S. A.**, & Martinie, S. L. (2016, April). *Mathematics + Financial Literacy = INVESTigations*. Presentation at the 2016 National Council of Teachers of Mathematics Annual Meeting and Exposition. San Francisco, CA.
- McGatha, M. B., Bay-Williams, J. M., & **Peters, S. A.** (2016, April). *INVESTigating Ways to Integrate Mathematics and Financial Literacy*. Presentation at the 2016 National Council of Teachers of Mathematics Annual Meeting and Exposition. San Francisco, CA.
- Peters, S. A.**, & Watkins, J. D.+ (2015, April). *Distribution and average: Deepening Common Core statistical knowledge for teaching*. Presentation at the 2015 National Council of Teachers of Mathematics Annual Meeting and Exposition. Boston, MA.
- Mohr-Schroeder, M., **Peters, S. A.**, & Ronau, R. N. (2015, April). *What knowledge do geometry teachers need to be effective?* Presentation at the 2015 National Council of Teachers of Mathematics Annual Meeting and Exposition. Boston, MA.
- Peters, S. A.**, & Bennett, V. M.+ (2015, February). *Middle and secondary teachers' transformative learning: Measures of central tendency*. Presentation at the Nineteenth Annual Association of Mathematics Teacher Educators Conference. Orlando, FL.
- Bush, W. S., **Peters, S. A.**, Mohr-Schroeder, M., Ronau, R. N., & Lee, C. (2015, February). *Establishing predictive validity: Knowledge for teaching geometry assessments*. Presentation at the Nineteenth Annual Association of Mathematics Teacher Educators Conference. Orlando, FL.
- Peters, S. A.**, Watkins, J. D.+ & Bennett, V. M.+ (2014, July). *Middle and high school teachers' transformative learning of center*. Presentation at the 9th International Conference on Teaching Statistics. Flagstaff, AZ.
- Peters, S. A.** (2014, April). *Standard(s) statistics: Engaging with Common Core statistical content and practices*. Presentation at the 2014 National Council of Teachers of Mathematics Annual Meeting and Exposition. New Orleans, LA.
- Martinie, S. L., **Peters, S. A.**, & Bush, S. B. (2014, April). *Invest in financial literacy—and Common Core content, too!* Presentation at the 2014 National Council of Teachers of Mathematics Annual Meeting and Exposition. New Orleans, LA.
- Peters, S. A.** (2014, April). *Middle and high school teachers' transformative learning of center*. Presentation at the 2014 Research Conference of the National Council of Teachers of Mathematics Annual Meeting and Exposition. New Orleans, LA.
- Peters, S. A.**, & Watkins, J.+ (2014, February). *Activities to facilitate middle and secondary mathematics teachers' transformative learning of statistics within professional development*. Presentation at the Eighteenth Annual Association of Mathematics Teacher Educators Conference. Irvine, CA.
- Bush, W. S., Ronau, R. N., & **Peters, S. A.** (2014, February). *Development of revised middle grades mathematics Diagnostic Teacher Assessments in Mathematics and Science*. Presentation at the Eighteenth Annual Association of Mathematics Teacher Educators Conference. Irvine, CA.

- Peters, S. A.** (2013, May). *Middle and secondary mathematics teachers' transformative learning of statistics within professional development*. 2013 Mathematics Teacher Education Partnership Conference. St. Louis, MO.
- Bush, W. S., Ronau, R. N., & **Peters, S. A.** (2013, May). *Revision of Diagnostic Teacher Assessments in Mathematics and Science for middle grades teachers*. 2013 Mathematics Teacher Education Partnership Conference. St. Louis, MO.
- Peters, S. A.** (2013, January). *Secondary teachers' development of foundational understandings for integrated reasoning*. Presentation at the Seventeenth Annual Association of Mathematics Teacher Educators Conference. Orlando, FL.
- Bush, W. S., Ronau, R., Lee, C., Mohr-Schroeder, M., **Peters, S. A.**, & Stokes, M. (2013, January). *Geometry assessments for secondary teachers*. Presentation at the Seventeenth Annual Association of Mathematics Teacher Educators Conference. Orlando, FL.
- Peters, S. A.** (2012, July). *Integrated reasoning about statistical variation: Secondary teachers' development of foundational understandings*. Presentation at the International Congress on Mathematical Education Topic Study Group 12: Teaching and learning of statistics. Seoul, South Korea.
- Peters, S. A.** (2012, April). *Developing integrated reasoning about statistical variation*. Poster presentation at the 2012 Research Pre-session of the National Council of Teachers of Mathematics Annual Meeting and Exposition. Philadelphia, PA.
- Peters, S. A.**, & Zbiek, R. M. (2012, April). *Residual understandings: Making statistical and mathematical connections with technology*. Presentation at the 2012 National Council of Teachers of Mathematics Annual Meeting & Exposition. Philadelphia, PA.
- Peters, S. A.** (2012, February). *Activities to develop teachers' robust statistical understandings*. Presentation at the Sixteenth Annual Association of Mathematics Teacher Educators Conference. Fort Worth, TX.
- Peters, S. A.**, & Zbiek, R. M. (2011, May). *Teaching statistics to prospective teachers: Residual understandings*. Poster presentation at the United States Conference on Teaching Statistics 2011: The next BIG thing. Raleigh-Durham, NC.
- Shirley, M. L., & **Peters, S. A.** (2011, January). *Development and implementation of a redesigned technology course for middle/secondary science teachers*. Poster presentation at the 2011 International Conference of the Association of Science Teacher Educators. Minneapolis, MN.
- Peters, S. A.**, & Zbiek, R. M. (2011, January). *Residual understandings: Preservice secondary mathematics teachers making statistical and mathematical connections in a technology-present environment*. Presentation at the Fifteenth Annual Association of Mathematics Teacher Educators Conference. Irvine, CA.
- Peters, S. A.** (2010, July). *Developing robust understandings of variation*. Presentation at the 8th International Conference on Teaching Statistics. Ljubljana, Slovenia.
- Zbiek, R. M., & **Peters, S. A.** (2010, May). *Unraveling a beginning teacher's mathematical practice: A case of connections in service of understanding*. Presentation at the 2010 American Educational Research Association (AERA) Annual Meeting. Denver, CO.
- Smith, T., **Peters, S. A.**, Hjalmanson, M., & Moore, T. (2010, April). *Making sense of variability in data*. Presentation at the 2010 Research Pre-session of the National Council of Teachers of Mathematics Annual Meeting and Exposition. San Diego, CA.

- Peters, S. A.** (2009, September). *Conceptions of statistical variation*. Presentation at the 31st annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. Atlanta, GA.
- Peters, S. A.** (2009, June). *Conceptions of statistical variation*. Poster presentation at the United States Conference on Teaching Statistics. Columbus, OH.
- Zbiek, R. M., **Peters, S. A.**, Boone, T.⁺, & Johnson, K.⁺ (2009, April). *Locally logical mathematics: An emerging teacher honoring both students and mathematics*. Presentation at the 2009 American Educational Research Association (AERA) Annual Meeting. San Diego, CA.
- Zbiek, R. M., Heid, M. K., Blume, G., & **Peters, S. A.** (2009, April). *Mathematical processes lens for prospective secondary teachers' mathematics*. Presentation at the 2009 Research Pre-session of the National Council of Teachers of Mathematics Annual Meeting and Exposition. Washington, D.C.
- Peters, S. A.** (2008, July). *Robust understanding of variation: An interaction of three perspectives*. Presentation at the 32nd Conference of the International Group for the Psychology of Mathematics Education and the 30th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. Morelia, Mexico.
- Heid, M. K., Zembat, I. O., **Peters, S. A.**, Sullivan, P., Portnoy, N., & Wilson, P. S. (2006, April). *Prospective secondary mathematics teachers' ways of mathematical thinking*. Presentation at the 2006 Research Pre-session of the National Council of Teachers of Mathematics Annual Meeting and Exposition. St. Louis, MO.
- Heid, M. K., **Peters, S. A.**, Fratto, C. L., & Perkinson, D. (2005, October). *Making and managing distinctions: The case of sampling distributions*. Presentation at the 27th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. Roanoke, VA.
- Short, T., Krow, C., **Peters, S. A.**, & Ricks, J. (2002, August). *Experiences in Advanced Placement Statistics*. Panel discussion at the Joint Statistical Meetings (JSM) sponsored by the American Statistical Association, Institute of Mathematical Statistics, International Biometrics Society, and the Statistical Society of Canada. New York City, NY.

PRESENTATIONS (REGIONAL AND STATE, PEER REVIEWED)

- Gonulates, F., Noblitt, B., Crowe Johnson, C., & Peters, S. (2019, March). *Digging deeper into statistics*. 2019 Kentucky Center for Mathematics conference. Lexington, KY.
- Crowe, C., Gonulates, F., Harris, T., Noblitt, B., **Peters, S.**, & Thomas, J. (2018, May). *Starting the conversation: Standards for preparing teachers of mathematics*. Kentucky Excellence in Educator Preparation (KEEP) conference. Louisville, KY.
- Gonulates, F., Crowe, C., Harris, T., Noblitt, B., **Peters, S.**, & Thomas, J. (2018, May). *Unpacking effective teaching practices in teaching mathematics*. Kentucky Excellence in Educator Preparation (KEEP) conference. Louisville, KY.
- Crowe, C., Gonulates, F., Harris, T., Noblitt, B., **Peters, S.**, & Thomas, J. (2018, April). *Starting the conversation: KY Association of Mathematics Teacher Educators*. Kentucky Section of the Mathematical Association of America annual meeting. Bowling Green, KY.
- Peters, S. A.** (2018, March). *Engaging with CCSS mathematical practices and statistical content*. 2018 Kentucky Center for Mathematics conference. Lexington, KY.
- Crowe, C., Noblitt, B., & **Peters, S. A.** (2017, March). *Introducing the Kentucky Association of Mathematics Teacher Educators*. 2017 Kentucky Section of the Mathematics Association of America annual meeting. Berea, KY.

- Noblitt, B., Crowe, C., Harris, T., Gonulates, F., **Peters, S. A.**, & Thomas, J. (2017, March). *Introducing the Kentucky Association of Mathematics Teacher Educators*. 2017 Kentucky Center for Mathematics conference. Lexington, KY.
- Peters, S. A.** (2016, November). *In your interest: Integrating mathematics and financial literacy*. Kentucky Council of Teachers of Mathematics. Louisville, KY.
- McGatha, M., & **Peters, S. A.** (2016, November). *INVESTigating Way to Integrate Mathematics and Financial Literacy*. Kentucky Council of Teachers of Mathematics. Louisville, KY.
- Peters, S. A.** (2016, April). *Activities to facilitate middle and secondary teachers' transformative learning of statistics*. Kentucky Mathematics Educator Developers 2016 Conference. Lexington, KY.
- Peters, S. A.**, & Watkins, J. W.⁺ (2013, October). *Standard(s) statistics: Engaging with Common Core statistical content and practices*. National Council of Teachers of Mathematics 2013 Regional Conference & Exposition. Louisville, KY.
- Bush, W. S., Ronau, R. N., Lee, C., Mohr-Schroeder, M., & **Peters, S. A.** (2013, October). *What knowledge do secondary geometry teachers need to be effective?* National Council of Teachers of Mathematics 2013 Regional Conference & Exposition. Louisville, KY.
- Peters, S. A.** (2013, February). *The statistical problem solving process: Developing statistical reasoning for readiness*. 2013 Kentucky Center for Mathematics conference. Lexington, KY.
- Peters, S. A.** (2011, October). *Tinkering with TinkerPlots*. Workshop session at the Kentucky Council of Teachers of Mathematics. Bowling Green, KY.
- Wolph, J., Sheffield, C., Shirley, M., & **Peters, S.** (2011, September). *Balancing process and assessment in the education field experience*. Presentation at the Kentucky Association of Teacher Educators Annual Conference. Georgetown, KY.
- Peters, S. A.** (2010, October). *The art and science of statistics*. 35- minute presentation at the Kentucky Council of Teachers of Mathematics Annual Conference. Somerset, KY.
- Peters, S. A.** (2010, October). *The art and science of statistics*. 80- minute workshop at the Kentucky Council of Teachers of Mathematics. Somerset, KY.
- Peters, S. A.**, Fratto, C. L., & Heid, M. K. (2007, October). *Investigating statistical concepts from a distributional perspective*. Presentation at the National Council of Teachers of Mathematics Regional Conference. Richmond, VA.
- Peters, S. A.** (2003, January). *Using software in AP[®] Statistics*. Presentation at the AP Mathematics & Computer Science Conference for the Middle States Region of the College Board. Maritime Institute of Technology. Linthicum Heights, MD.
- Peters, S. A.** (2003, January). *The 2002 AP Statistics Reading*. Presentation at the AP Mathematics & Computer Science Conference for the Middle States Region of the College Board. Maritime Institute of Technology. Linthicum Heights, MD.
- Peters, S. A.** (2002, November). *Using Software in AP[®] Statistics*. Presentation at the AP Mathematics & Computer Science Conference for the Middle States Region of the College Board, Nevele Grand Resort. Ellenville, NY.
- Peters, S. A.** (2002, November). *The 2002 AP Statistics Reading*. Presentation at the AP Mathematics & Computer Science Conference for the Middle States Region of the College Board, Nevele Grand Resort. Ellenville, NY.

Ricks, J., & **Peters, S. A.** (2000, March). *Why you should teach AP[®] Statistics – Everything you need to know!* Presentation at the Pennsylvania Council of Teachers of Mathematics Annual Conference. Harrisburg, PA.

Bohan, J., Cuff, C., **Peters, S. A.**, & Ricks, J. (1998, March). *Grading the AP[®] Statistics test: A report by the four Pennsylvania Readers.* Presentation at the Pennsylvania Council of Teachers of Mathematics Annual Conference. Harrisburg, PA.

Peters, S. A. (1995, May). *Public key cryptography.* Presentation at the Rutgers University Leadership Program in Discrete Mathematics Follow-up Session. Piscataway, NJ.

PRESENTATIONS (LOCAL, PEER REVIEWED)

Peters, S. A., & Bailey, M. (2001, October). *JMP INTRO[®] and Fathom[™] Activities for Introductory and AP[®] Statistics,* Presentation at the ATMOPAV (Association of Teachers of Mathematics in Philadelphia and Vicinity) Annual Conference. Philadelphia, PA.

Carroll, A., **Peters, S. A.**, & Ricks, J. (2001, October). *The 2001 AP[®] Statistics Reading.* Presentation at the ATMOPAV (Association of Teachers of Mathematics in Philadelphia and Vicinity) Annual Conference. Philadelphia, PA.

PRESENTATIONS (INTERNATIONAL AND NATIONAL, INVITED)

Boote, S., Celedon-Pattichis, S., Goffney, I., Larnell, G., Lunney Borden, L., Males, J., & **Peters, S.** (2019, April). *But what about equity? Examining equity as a collective professional responsibility.* Presentation at the 2019 National Council of Teachers of Mathematics Research Conference. San Diego, CA.

Peters, S. A. (2019, April). *Infinity Bar.* 2019 National Council of Teachers of Mathematics Research Conference. San Diego, CA.

Peters, S. A. (2018, July). *Professional development programs.* Session organizer at the *Tenth International Conference on Teaching Statistics.* Kyoto, Japan.

Peters, S. A. (2017, February). *Teacher education in statistics: Reflections and moving forward.* Presentation at the Twenty-first Annual Meeting of the Association of Mathematics Teacher Educators. Orlando, FL.

Lee, H., Lovett, J. N., & **Peters, S.** (2016, April). *Teacher development in statistics education: A critical examination of how teachers' experiences impact their knowledge, beliefs, and practices for teaching statistics.* Presentation at the 2016 Research Conference of the National Council of Teachers of Mathematics Annual Meeting and Exposition. San Francisco, CA.

Peters, S. A. (2014, August). *CAREER: Investigating middle and secondary mathematics teachers' transformative learning of statistics within professional development.* Poster presentation at the Community for Advancing Discovery Research in Education (CADRE) Discovery Research K-12 (DR K-12) PI meeting. Washington, DC.

Peters, S. A. (2014, July). *Statistics instructors' content knowledge.* Session organizer at the *Ninth International Conference on Teaching Statistics.* Flagstaff, AZ.

Peters, S. A. (2014, March). *Cognitively demanding activities to facilitate transformative learning of statistics.* Presented at the Colloquium Series at the University of Georgia. Athens, GA.

Peters, S. A. (2014, March). *Teachers' transformative learning of statistics content.* Presented at the Colloquium Series at the University of Georgia. Athens, GA.

Peters, S. A. (2012, July). *Professional development of teachers.* Round table moderator at the *International Congress on Mathematical Education Topic Study Group 12: Teaching and learning of statistics.* Seoul, South Korea.

Peters, S. (2012, April). *Interactive paper session*. Presider for session 103 with R. Groth, J. Silverman, & C. Dean, 2012 Research Pre-session of the National Council of Teachers of Mathematics Annual Meeting and Exposition. Philadelphia, PA.

Walker, E., Hollebrands, K., Martin, D., Chazan, D., Rasmussen, C., Silver, E., Zbiek, R., Bieda, K., **Peters, S.**, Cirillo, M., Marongelle, K., & Wilson, P. (2012, April). *Graduate student, junior faculty, and researcher mentoring session*. Transitioning from doctoral student to faculty member mentor, 2012 Research Pre-session of the National Council of Teachers of Mathematics Annual Meeting and Exposition. Philadelphia, PA.

Peters, S. A. (2012, February). *Viewing teacher learning through the lens of an adult learning theory*. Poster session at the Service, Teaching, and Research in Mathematics Education pre-session to the Sixteenth Annual Association of Mathematics Teacher Educators Conference. Fort Worth, TX.

Peters, S. A. (2012, February). *Journal scholarship*. Table talk facilitator session at the Service, Teaching, and Research in Mathematics Education pre-session to the Sixteenth Annual Association of Mathematics Teacher Educators Conference. Fort Worth, TX.

PRESENTATIONS (REGIONAL AND STATE, INVITED)

Crowe, C. E., Gonulates, F., Harris, T., **Peters, S. A.**, & Thomas, J. (2018, November). *Continuing the conversation: Standards for preparing teachers of mathematics*. Kentucky Council of Teachers of Mathematics Annual Conference. Lexington, KY.

Franklin, C., & **Peters, S. A.** (2018, March). *Statistical education of teachers*. Kentucky Association of Mathematics Teacher Educators full day workshop. Lexington, KY.

Peters, S. A. (2017, November). *Technology applications for teaching mathematics*. Kentucky Council of Teachers of Mathematics Annual Conference. Union, KY

Peters, S. A. (2014, November). *Standard(s) statistics: Engaging with Common Core statistical content and practices*. National Council of Teachers of Mathematics 2014 Regional Conference & Exposition. Houston, TX.

Tabor, J., & **Peters, S. A.** (2014, November). *Networking lounge: Probability and statistics for secondary grades (6-12)*. National Council of Teachers of Mathematics 2014 Regional Conference & Exposition. Houston, TX.

Peters, S. A. (2014, October). *Standard(s) statistics: Engaging with Common Core statistical content and practices*. National Council of Teachers of Mathematics 2014 Regional Conference & Exposition. Indianapolis, IN.

Long, D., Nikula, J., & **Peters, S. A.** (2014, October). *Networking lounge: Linking mathematical practices to content standards*. National Council of Teachers of Mathematics 2014 Regional Conference & Exposition. Indianapolis, IN.

Peters, S. A. (2013, October). *Applying the five recommendations breakout session: Statistics*. Regional Educational Laboratory (REL) Appalachia Bridge Event: Improving Mathematical Problem Solving in Grades 4 Through 8. Louisville, KY.

Graybeal, C., Marshall, A. M., & **Peters, S. A.** (2010, August). *Alumni panel*. Panel discussion at the MAC-MTL Doctoral Student Research Conference. State College, PA.

Peters, S. A. (2008, August). Work session discussion focused on analysis of content interview data using examples from dissertation data at the MAC-MTL Doctoral Student Research Conference. State College, PA.

- Jansen, A., Badertscher, E., Hwang, S., & **Peters, S. A.** (2007, August). *Developing a researchable question for the dissertation*. Panel discussion at the MAC-MTL Doctoral Student Research Conference. Newark, DE.
- Peters, S. A.** (2007, August). Work session discussion focused on robust understanding of variation using examples from pilot study at the MAC-MTL Doctoral Student Research Conference. Newark, DE.
- Peters, S. A.** (2006, August). Roundtable discussion focused on methodology and data collection for examining teachers' perceptions and recollections of critical moments in their developing understandings of statistical variation at the MAC-MTL Doctoral Student Research Conference. College Park, MD.
- Peters, S. A.** (2005, August). Roundtable discussion focused on brainstorming potential research questions for dissertation study to examine secondary teachers' conceptions/understandings of statistical variation at the MAC-MTL Doctoral Student Research Conference. State College, PA.
- Peters, S. A.** (2004, June). Roundtable discussion focused on brainstorming potential research questions for research interests in statistics education, MAC-MTL Doctoral Student Research Conference. State College, PA.
- Peters, S. A., & Cuff, C.** (2003, August). *Data analysis in the math content area*. Presentation at the Pennsylvania Governor's Institute for Data Driven Decision Making. Gannon University, Erie, PA.
- Peters, S. A.** (2003, February). *Fathom™ Dynamic Statistics software: It's not just for statistics!* Presentation at the Research for Better Schools (RBS) Mid-Atlantic States Conference. State College, PA.
- Peters, S. A., & Cuff, C.** (2002, August). *Data analysis in the math content area*. Presentation at the Pennsylvania Governor's Institute for Data Driven Decision Making. Gannon University, Erie, PA.
- Peters, S. A.** (2001, November). *AP® Statistics*. One-day experienced workshop for the Middle States Region of the College Board. Mainland Regional High School, Linwood, NJ.
- Peters, S. A.** (2000, March). *AP® Statistics*. One-day introductory workshop for the Middle States Region of the College Board. Taylor Allderdice High School, Pittsburgh, PA.

PRESENTATIONS (LOCAL, INVITED)

- Peters, S. A.** (2018, June). *Reviewing scholarly work and providing educative feedback*. Guest speaker for EDAP 694: Research Perspectives in STEM Education. University of Louisville, Louisville, KY.
- Peters, S. A.** (2016, January). *Developing an NSF CAREER proposal*. Guest speaker for MTHED 590: Colloquium. The Pennsylvania State University, University Park, PA.
- Peters, S. A.** (2014, September). *Talk and take session: Statistics*. Greater Louisville Council of Teachers of Mathematics 2014 Fall Meeting. Louisville, KY.
- Peters, S. A.** (2014, April). *Middle and Secondary Education (MISE) department meeting brown bag presentation: Scholarly work*. University of Louisville, Louisville, KY.
- Peters, S. A.** (2014, February). *Qualitative research*. Guest speaker for EDAP 694: Doctoral proseminar II. University of Louisville, Louisville, KY.
- Peters, S. A.** (2013, September). *Developing and implementing an NSF CAREER grant*. Guest speaker for MTHED 523: Research projects. The Pennsylvania State University, University Park, PA.
- Bratcher, A., Carpenter, B., Chisholm, J., & **Peters, S.** (2013, August). *Open forum/Faculty discussion panel*. College of Education and Human Development New Faculty Orientation. University of Louisville, Louisville, KY.

- Peters, S. A.** (2013, February). *Qualitative research*. Guest speaker for EDAP 694: Doctoral proseminar II. University of Louisville, Louisville, KY.
- Peters, S. A.** (2010, November). *Reading in mathematics*. Professional development workshop for the Louisville Writing Project. Butler Traditional High School, Louisville, KY.
- Peters, S. A.** (2010, October). *TinkerPlots: Dynamic explorations with data*. Presentation for the Ohio Valley Educational Cooperative P-16 Council meeting. Louisville, KY.
- Peters, S. A., & Shirley, M. L.** (2010, October). *Science and math tools: Concept mapping and TinkerPlots*. Presentation at the Louisville Writing Project Technology Conference. Louisville, KY.
- Peters, S. A.** (2010, August). *TinkerPlots: Dynamic explorations with data*. Presentation at the First Annual Technology Fair. College of Education and Human Development, Louisville, KY.
- Peters, S. A.** (2008, April). *Residuals and coefficient of determination*. Guest instructor for MTHED 427 Teaching Mathematics in Technology-Intensive Environments. The Pennsylvania State University, University Park, PA.
- Peters, S. A., & Bailey, M.** (2002, March). *JMP INTRO® Activities*. Workshop session at the monthly meeting of PASTA (Philadelphia Area Statistics Teachers Association). Villanova, PA.
- Peters, S. A., & Ricks, J.** (2001, December). *The 2001 AP® Statistics Reading*. Workshop session at the monthly meeting of PASTA (Philadelphia Area Statistics Teachers Association). Villanova, PA.
- Short, T., Carver, R., Ricks, J., & **Peters, S. A.** (2001, January). *Experimental design*. Workshop session at the monthly meeting of PASTA (Philadelphia Area Statistics Teachers Association). Villanova, PA.
- Ricks, J., & **Peters, S. A.** (2000, December). *The 2000 AP® Statistics Reading*. Workshop session at the monthly meeting of PASTA (Philadelphia Area Statistics Teachers Association). Villanova, PA.

PROFESSIONAL DEVELOPMENT WORKSHOPS

- Peters, S. A., Stokes-Levine, A.⁺, Watkins, J. D.⁺, & Bennett, V. M.⁺** (2015-2016). *Standards statistics*. Series of professional development workshops (approximately 84 hours) for middle and high school teachers within the Ohio Valley Educational Cooperative (OVEC) and Jefferson County Public Schools (JCPS). Shelbyville, KY.
- Peters, S. A., Watkins, J. D.⁺, & Bennett, V. M.⁺** (2013-2014). *Standards statistics*. Series of professional development workshops (approximately 84 hours) for middle and high school teachers within the Ohio Valley Educational Cooperative (OVEC) and Jefferson County Public Schools (JCPS). Shelbyville, KY.
- Bush, W. S., Jones, J., Nussbaum, S., **Peters, S.**, Ronau, R., & Thompson, C. (2011-2012). *Louisville Archdiocese Algebra Project*. Series of professional development workshops (approximately 20 hours) for middle-school algebra teachers within the Archdiocese of Louisville. Louisville, KY.
- Bush, W. S., Jones, J., McGatha, M., **Peters, S.**, Ronau, R., & Thompson, C. (2010-2011). *Louisville Archdiocese Algebra Project*. Series of professional development workshops (approximately 50 hours) for middle-school algebra teachers within the Archdiocese of Louisville. Louisville, KY.
- Peters, S. A., & Ricks, J.** (2000, March). *AP® Statistics*. Full-day workshop at the Berks County Intermediate Unit. Reading, PA.
- Paull, S., **Peters, S. A.**, & Syer, M. (2000, January – April). Series of 11 professional development workshops (approximately 22 hours) for elementary mathematics teachers in Twin Valley School District. Elverson, PA.

Peters, S. A., & Ricks, J. (1999, November). *AP[®] Statistics*. Full-day workshop at the Delaware County Intermediate Unit. Philadelphia, PA.

WORKSHOPS AND SEMINARS ATTENDED

- 2016 **DELPHI U**
Program attendance
- 2011 **SERVICE, TEACHING, AND RESEARCH (STAR) FOR EARLY CAREER MATHEMATICS EDUCATORS**
Program acceptance and attendance
- 2011 **NATIONAL SCIENCE FOUNDATION CONFERENCE: AN INTERDISCIPLINARY CONFERENCE ON ASSESSMENT IN K-12 MATHEMATICS: COLLABORATIONS BETWEEN MATHEMATICS EDUCATION AND PSYCHOMETRICS**
Program acceptance and attendance

PROFESSIONAL SERVICE

INTERNATIONAL & NATIONAL

AMERICAN ASSOCIATION OF COLLEGES FOR TEACHER EDUCATION

2012-present Reviewer, *Journal of Teacher Education*

AMERICAN EDUCATIONAL RESEARCH ASSOCIATION

2013-2016 Reviewer, Annual American Educational Research Association Conference, Research in Mathematics Education Special Interest Group

AMERICAN STATISTICAL ASSOCIATION

2016-present Reviewer, *Statistics Education Web*
2015 Reviewer, *Statistical Education of Teachers (SET)* report
2002-present Reviewer, *Journal of Statistics Education*

ASSOCIATION OF MATHEMATICS TEACHER EDUCATORS

2014-2017 Member, STaR program subcommittee
2011-2013 Member, Common Core State Standards – Mathematics Task Force
2011-present Reviewer, Annual Association of Mathematics Teacher Educators Conference

D & S MARKETING SYSTEMS, INC.

2002 Consultant, *Multiple-choice and Free-response Questions in Preparation for the AP Statistics Examination*

EDUCATIONAL TESTING SERVICES

2017 Advisory Board Member, Variability Learning Progression
1999-2001 Consultant, Embedded Assessment Prototype for AP Statistics
1997-2004 Consultant, AP Statistics

ELSEVIER

2017-present Reviewer, *Journal of Mathematical Behavior*

INTERNATIONAL ASSOCIATION FOR STATISTICS EDUCATION

2017-present Associate Editor, *Statistics Education Research Journal*
2006-present Reviewer, *Statistics Education Research Journal*

INTERNATIONAL CONFERENCE ON TEACHING STATISTICS

2018-2022 Editor-designate, International Conference on Teaching Statistics proceedings
2013, 2018 Reviewer, International Conference on Teaching Statistics proposals

INTERNATIONAL CONGRESS ON MATHEMATICAL EDUCATION

2015 Reviewer, Topic Study Group 15 (Teaching and Learning of Statistics) proposals

INTERNATIONAL GROUP FOR THE PSYCHOLOGY OF MATHEMATICS EDUCATION, NORTH AMERICAN CHAPTER

2016 Strand leader, Statistics and Probability

NATIONAL COUNCIL OF TEACHERS OF MATHEMATICS

2017-present Member, Research Committee

2012-present Reviewer, *Mathematics Teacher Educator*

2011 Reviewer, *Developing Essential Understanding of Statistics for Teaching Mathematics in Grades 9–12*

2011 Reviewer, *Developing Essential Understanding of Statistics for Teaching Mathematics in Grades 6–8*

2010-present Proposal reviewer, Research Conference/Pre-session of the National Council of Teachers of Mathematics Annual Meeting and Exposition

2009-present Reviewer, *Journal for Research in Mathematics Education*

2007-2009 Assistant editor, *Journal for Research in Mathematics Education*

NATIONAL SCIENCE FOUNDATION

2018 Reviewer, CAREER proposals

2017 Reviewer, STEM + Computing Partnerships proposals

2012, 2014, 2016, Reviewer, Discovery Research K-12 proposals

2017, 2018, 2019

2016 Ad hoc reviewer, Discovery Research K-12 proposal

NATIONAL SCIENCE FOUNDATION IMPROVING UNDERGRADUATE STEM EDUCATION GRANT

2016-present Advisory board, Enhancing Statistics Teacher Education with E-Modules [ESTEEM]

PARTNERSHIP FOR ASSESSMENT OF READINESS FOR COLLEGE AND CAREERS/ILLUSTRATIVE MATHEMATICS PROJECT

2012 Reviewer, Items for task prototyping project

SAGE JOURNALS

2013-present Reviewer, *Journal of Advanced Academics*

SERVICE, TEACHING, AND RESEARCH (STAR) FOR EARLY CAREER MATHEMATICS EDUCATORS

2012 Website committee

2011 Chair, Technology committee

SPRINGER

2017-present Reviewer, *ZDM Mathematics Education*

2017 Chapter reviewer, *Teaching and Learning Statistics Volume II*

2016 Chapter reviewer, *Handbook of Research in Statistics Education*

2016-present Reviewer, *International Journal of Science and Mathematics Education*

2015-present Reviewer, *Journal of Mathematics Teacher Education*

WILEY ONLINE LIBRARY

2014-present Reviewer, *Teaching Statistics: An International Journal for Teachers*

REGIONAL & STATE**KENTUCKY ASSOCIATION OF MATHEMATICS TEACHER EDUCATORS**

2016-present Treasurer

KENTUCKY EDUCATION PROFESSIONAL STANDARDS BOARD

2016 Reviewer, Praxis II Assessment 5161 – Mathematics

MIDDLE STATES REGION OF THE COLLEGE BOARD

1999-2003 Consultant, AP Statistics

PENNSYLVANIA COUNCIL OF TEACHERS OF MATHEMATICS

2004-2006 Reviewer, *Pennsylvania Council of Teachers of Mathematics Yearbook*

2004 Judge, *Pennsylvania Statistics Poster Competition*

LOCAL**HENRY COUNTY HIGH SCHOOL**

2010 Member, Mathematics Program Review team

LOUISVILLE WRITING PROJECT

2010 Statistical consultant

OHIO VALLEY EDUCATIONAL COOPERATIVE

2012 Planning Committee, Instructional Technology Institute: Interventions, Innovations Through Technology

2010-2013 Member & University of Louisville representative, Mathematics Leadership Network

2010-2013 Co-chair with Maurice Chappell, Director of Secondary Curriculum and Instruction in Franklin County Public Schools, P-16 Council Mathematics Committee

2009-2010 Co-chair with Greg Schultz, Assistant Superintendent for Student Learning in Bullitt County Public Schools, P-16 Council Mathematics Committee

THE PENNSYLVANIA STATE UNIVERSITY, CURRICULUM & INSTRUCTION, MATHEMATICS EDUCATION

2006 Coordinator, The Knowledge of Algebra for Teachers (KAT) pilot for Michigan State University

UNIVERSITY, COLLEGE, AND DEPARTMENT**UNIVERSITY OF LOUISVILLE**

2016 - present Member, Advisory Review Committee for the Executive Vice President for Research and Innovation (EVPRI) Internal Grants Program

2013 Teaching and Learning representative, Statistics Course Proposal ad hoc committee

2012 Member, Mathematics Faculty Learning Community

COLLEGE OF EDUCATION AND HUMAN DEVELOPMENT, UNIVERSITY OF LOUISVILLE

2019-2020 Member, Grawemeyer Award in Education faculty review committee

2018-present Member, Qualitative Research Methods ad hoc committee

2017-present Member, Personnel committee

2015 Member, Associate Dean for Research and Innovation search committee

2012 Member, External Funding ad-hoc committee

2011-present Member (2011-2014), Co-chair (2014-2015), Chair (2015-present), Research and Faculty Development committee

2010 Member, Specialized Professional Associations (SPA) ad-hoc committee

2009-2010; 2013-2014 Member, College Educator Preparation Committee (CEPC)

DEPARTMENT

DEPARTMENT OF MIDDLE AND SECONDARY EDUCATION, UNIVERSITY OF LOUISVILLE

2014	Member, Mathematics education search committee
2014	Member, Methods alignment to Professional Growth and Effectiveness System ad hoc committee
2011-2017	Member (2011-2014), Chair (2015-2017) Personnel committee

DIVISION OF TEACHING AND LEARNING/CURRICULUM & INSTRUCTION, UNIVERSITY OF LOUISVILLE

2018-present	Curriculum and Instruction Doctoral Program Coordinator
2014-2017	Member, PhD committee
2013-2015	Member, Field and Clinical Placements ad-hoc committee

DEPARTMENT OF TEACHING AND LEARNING, UNIVERSITY OF LOUISVILLE

2010	Member, Alternative Certification ad-hoc committee
2010	Member, Work Sample ad-hoc committee
2009-2011	Member, Middle and Secondary Education Program

DOCTORAL COMMITTEES (* program committee, ** dissertation committee, *** both committees)

Barbara Buckner**	<i>The impact of using technology on student achievement: Teaching functions with the TI-Nspire to 9th grade algebra students</i> , 2011
Kathy Cash***	<i>Teacher self-perceptions and student academic engagement in elementary school mathematics</i> , 2016
Dianne Clark*	
Lisa Conn**	<i>Alignment study of Kentucky's mathematics placement examinations and entry level credit-bearing mathematics course examinations</i> , 2013
Ryan Davis*	
Lucas Elliott*	
Rose Glasser**	<i>Highly student-rated teachers of multicultural classrooms: A qualitative study of teacher practices</i> , 2017
Twyla Harris*	<i>The effects of highly engaged field experiences and multi-faceted mentoring strategies on ameliorating pre-service teacher concerns</i> , 2015
Ryan Higgins*	<i>Examining alignment: National and local assessments and the common core state standards in mathematics</i> , 2013
Joseph Kimeu*	Program advisor
Paul Klein*	<i>Predictive relationships of teacher efficacy, mathematics knowledge for teaching, and the cognitive levels of teacher practice on student achievement</i> , 2012
Ryan Luke**	<i>Residuated maps, the way-below relation, and contractions on probabilistic metric spaces</i> (Department of Mathematics), 2017
Brittany Mozingo*	Program co-advisor
Mark Pickering*	
Gabrielle Jasnoff***	Dissertation co-advisor
Amy Stokes Levine***	<i>Instructional teacher job resources and student achievement in mathematics</i> , 2017
Tim Truitt***	Dissertation co-advisor
Harsh Upadhyay*	
Jonathan Watkins***	Dissertation co-advisor; <i>Exploring the knowledge of algebra for teaching</i> , 2018
Winn Wheeler**	<i>Adaptive Schools: Investigating impact, continuity, and change in one district</i> , 2016
Leah Dix White**	<i>Student engagement and college readiness in mathematics</i> , 2015
Stephanie White*	Program advisor

BACHELOR'S HONORS THESIS ADVISOR

Bektic, Irma *Using real data and real-world contexts to teach high school mathematics: A review of the literature, 2015*

MEMBERSHIPS

INTERNATIONAL & NATIONAL

American Educational Research Association (AERA)
Association of Mathematics Teacher Educators (AMTE)
International Association of Statistical Education (IASE)
National Council of Teachers of Mathematics (NCTM)
Phi Delta Kappa
Special Interest Group – Research in Mathematics Education (SIG-RME)

STATE & LOCAL

Greater Louisville Council of Teachers of Mathematics (GLCTM)
Greater Louisville Mathematics Teacher Education Partnership
Kentucky Association of Mathematics Teacher Educators (KAMTE)
Kentucky Council of Teachers of Mathematics (KCTM)

HONORS AND AWARDS

2018 **SPECIAL INTEREST GROUP FOR RESEARCH IN MATHEMATICS EDUCATION**
Recognition, Outstanding reviewer for the *Journal for Research in Mathematics Education*

2017 **JOURNAL FOR RESEARCH IN MATHEMATICS EDUCATION**
Recipient, 2016 Outstanding Reviewer Award

2016 **ASSOCIATION OF MATHEMATICS TEACHER EDUCATORS**
Recipient, 2016 AMTE Early Career Award

2014 **MATHEDPODCAST.COM**
Episode 1421 focus on “Developing understanding of statistical variation: Secondary statistics teachers’ perceptions and recollections of learning factors” published in the *Journal for Mathematics Teacher Education*

2012 **UNIVERSITY OF LOUISVILLE**
Community Engagement Award Nominee
Featured Faculty Profile on Research Bulletin Board, College of Education and Human Development

2011-2012 **UNIVERSITY OF LOUISVILLE**
Faculty Favorite Nominee, Department of Middle and Secondary Education

2011 **JOURNAL FOR RESEARCH IN MATHEMATICS EDUCATION**
Recipient, 2010 Outstanding Reviewer Award

2011 **UNIVERSITY OF LOUISVILLE**
Black and Red Faculty Mentor, Nicole Auker

2007-2008

THE PENNSYLVANIA STATE UNIVERSITY

Recipient, Robert E. and Virginia L. Mountz Scholarship in Mathematics Education

2005-present

PI LAMBDA THETA

Member, National Education Honor Society