

CURRICULUM VITAE

MICHELLE L. PETERS, ED.D.

Professor
Research & Applied Statistics
University of Houston-Clear Lake
2700 Bay Area Blvd., Box 55
Houston, TX 77058
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EDUCATION

- | | | |
|--------------|--|------|
| Ed.D. | Curriculum & Instruction
<i>The George Washington University, Washington, DC</i>
Specializations: Research Methodology, Statistics, and
Adult Development & Learning | 2009 |
| M.S. | Nuclear Engineering
<i>Missouri University of Science and Technology, Rolla, MO</i> | 1994 |

CERTIFICATES AND LICENSURES

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| Secondary Mathematics Teaching Certification
<i>Drury University, Springfield, MO</i> | 1999 |
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PROFESSIONAL EXPERIENCE

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| 2020
to Present | Department Chair
Educational Leadership & Policy Analysis
College of Education
University of Houston-Clear Lake |
| 2020
to Present | COE Co-Director
UHCL <i>Teach</i> 7-12 Biology/Math Certification
College of Education
University of Houston-Clear Lake |
| 2016-2021 | STEM Coordinator
Multidisciplinary STEM Education
College of Education
University of Houston-Clear Lake |
| 2016-2020 | Program Director
Educational Foundations/Research
College of Education
University of Houston-Clear Lake |

2018 to Present	Professor Research & Applied Statistics School of Education University of Houston-Clear Lake
2015-2018	Associate Professor Research & Applied Statistics School of Education University of Houston-Clear Lake
2009-2015	Assistant Professor Research & Applied Statistics School of Education University of Houston-Clear Lake
2005-2009	Research Lab Coordinator Graduate School of Education & Human Development The George Washington University
2008-2009	Adjunct Faculty Quantitative Research Methods Secondary Mathematics Methods Graduate School of Education & Human Development The George Washington University
2004-2013	Mathematics & Statistics Adjunct Faculty Drury University, Springfield, MO
2002-2004	Assistant Director Central Texas College, Okinawa, Japan
2001-2004	Mathematics/Statistics/Physics Lecturer Central Texas College, Okinawa, Japan
1999-2001	Secondary Mathematics/Physics Instructor Waynesville High School, Waynesville, MO
1999-2001	Mathematics & Statistics Adjunct Faculty Drury University, Springfield, MO
1994-1999	Consulting Physicist Nuclear Solutions

COURSES TAUGHT AT UHCL

Graduate

COUN 6032	Statistics and Measurement for Counselors
COUN 6033	Research Design and Analysis for Counselors
EDCI 7031	Quantitative Research I - Research Design
EDCI 7032	Quantitative Research II - Statistical Analysis
EDLS 7031	Quantitative Research I - Research Design
EDLS 7032	Quantitative Research II - Statistical Analysis
EDLS 7130	Program Evaluation
EDLS 7330	Advanced Statistical Analysis
EDLS 7332	Educational Measurement
EDLS 8530	Research Seminar (Dissertation Writing)
EDUC 6032	Applied Statistics
EDUC 6033	Research Design and Analysis

COURSES TAUGHT AT OTHER UNIVERSITIES

Graduate

The George Washington University:

EDUC 295	Quantitative Methods II – Research Procedures
EDUC 298	Introduction to Educational Statistics
EDUC 302	Group Comparison Designs and Analyses
EDUC 310	Educational Measurement
TRED 218	Recent Developments in Mathematics

Undergraduate

Drury University:

MATH 100	Intermediate Algebra
MATH 101	Fundamental Math Concepts I
MATH 109	College Algebra
MATH 201	Calculus
MATH 227	Statistics

AWARDS AND FELLOWSHIPS

2022-2023 **University Faculty Fellowship Award**, University of Houston-Clear Lake

2022 **Innovations for Learning High Impact Tutoring:** RCT study was awarded a Strong ESSA Evidence rating by John Hopkins' Center for Research and Reform in Education. <https://www.evidenceforessa.org/programs/reading/innovations-learning-high-impact-tutoring>

- 2021-2022** **Texas Academic Leadership Academy (TALA) Fellow**, Texas Council of Chief Academic Officers (TCCAO)
- 2021-2022** **Scholarship to Improve the Academy Award**, UHCL Center for Faculty Development: Watson, S., Dubrovskiy, A., & Peters, M. (2020). Increasing chemistry students' knowledge, confidence, and conceptual understanding of pH using a Collaborative computer pH simulation. *Chemistry Education Research and Practice*, 21, 528-535.
- 2016-2017** **Leaders in Action Fellow**, University of Houston-Clear Lake

PUBLICATIONS

Refereed Journal Articles

International

- Watson, S., George, B., Shan, G., & **Peters**, M. (2021). Alignment of select elementary science curricula to the next generation science standards via the equip rubric. *Curriculum Perspectives*, 41, 17–26.
- George, B., Watson, S., & **Peters**, M. (2021). The impact of participating in a stem academy on girls' stem attitudes and self-efficacy. *The Electronic Journal for Research in Science & Mathematics Education*, 24(4), 22-49.
- Xu, C., **Peters**, M., & Brown, S. (2020). Instructor and instructional effects on students' statistics attitudes. *Statistics Education Research Journal*, 9(2), 7-26.
- Watson, S., Duncan, O., & **Peters**, M. (2020). School administrators' awareness of parental STEM knowledge, strategies to promote STEM knowledge, and student STEM preparation. *Research in Science & Technological Education*. Retrieved from <https://doi.org/10.1080/02635143.2020.1774747>
- Barksdale, C., **Peters**, M., & Corrales, A. (2019). Middle school students' perceptions of classroom climate and its relationship to achievement. *Educational Studies*, 47(1), 84-107.
- Dahlkamp, S., **Peters**, M., & Schumacher, G. (2017). Principal self-efficacy, school climate, and teacher retention: A multi-level analysis. *Alberta Journal of Educational Research*, 63(4), 357-376.
- Tingle, E., Corrales, A., & **Peters**, M. (2017). Leadership development programs: Investing in school principals. *Educational Studies*, 45(1), 1-16. Retrieved from <http://dx.doi.org/10.1080/03055698.2017.1382332>
- Gonzalez, A., **Peters**, M., Orange, A., & Grigsby, B. (2017). The influence of high-stakes testing on teacher self-efficacy and job-related stress. *Cambridge Journal of Education*, 47(4), 513-531.

- Kimbark, K., **Peters**, M., & Richardson, T. (2016). Effectiveness of the student success course on persistence, retention, academic achievement, and student engagement. *Community College Journal of Research and Practice*, 41(2), 124-138. doi:10.1080/10668926.2016.1166352
- Allen, N., Grigsby, B., & **Peters**, M. (2015). Does leadership matter? Examining the relationship among transformational leadership, school climate, and student achievement. *International Journal of Educational Leadership Preparation*, 10(2), 1-22.
- McCarley, T., **Peters**, M., & Decman, J. (2014). Transformational leadership related to school climate: A multi-level analysis. *Educational Management Administration & Leadership*, 44(2), 322-342. doi:10.1177/1741143214549966
- Peters**, M., Sawyer, C., & Guzman, M. (2014). Supporting the development of Latino bilingual mental health professionals. *Journal of Hispanic Higher Education*, 13(1), 15-31. doi:10.1177/1538192713514611
- Peters**, M. (2013). Examining the relationships among classroom climate, self-efficacy, and achievement in undergraduate mathematics: A multi-level analysis. *International Journal of Science and Mathematics Education*, 11(2), 459-480. doi:10.1007/s10763-012-9347-y
- Choi, J., **Peters**, M., & Mueller, R. (2010). Correlational analysis of ordinal data: From Pearson's r to Bayesian Polychoric Correlation. *Asia Pacific Education Review*, 11(4), 459-466.
- Milman, N., Kortecamp, K., & **Peters**, M. (2007). Assessing teacher candidates' perceptions and attributions of their technology competencies. *International Journal of Technology in Teaching & Learning*, 3(3), 17-28.
- National
- Martinez, N., Corrales, A., & **Peters**, M. (2023, in-press). The influence of COVID-19 on campus leaders' curriculum integration, perceptions towards, and acquired expertise in technology. *AASA Journal of Scholarship & Practice*.
- Kortecamp, K., & **Peters**, M. (2023). The impact of a high-dosage tutoring program on reading achievement of beginning readers: A multi-level analysis. *Journal of Education for Students Placed at Risk (JESPAR)*, doi: 10.1080/10824669.2023.2179056
- Watson, S., Cothorn, T., & **Peters**, M. (2020). School administrators' perceptions of STEM awareness and resources. *AASA Journal of Scholarship & Practice*, 17(3), 19-40.
- LaRoe, H., Corrales, A., **Peters**, M., & Orange, A. (2020). Do start times at high schools really matter? Studying the impact of high school start times on achievement, attendance, and graduation rates of high school students. *AASA Journal of Scholarship & Practice*, 17(2), 6-23.

- Watson, S., Dubrovskiy, A., & **Peters**, M. (2020). Increasing chemistry students' knowledge, confidence, and conceptual understanding of pH using a Collaborative computer pH simulation. *Chemistry Education Research and Practice*, 21, 528-535. doi:10.1039/c9rp00235a
- Ruiz, M., **Peters**, M., & Sawyer, C. (2019). Principals' and counselors' lens of the school counselor's role. *Journal of Professional Counseling: Practice, Theory, & Research*, 45(1), 1-16.
- Wieland, P., Willis, J., **Peters**, M., & O'Toole, R. (2018). Examining the impact of modality and learning style preferences on recall of psychiatric nursing and pharmacology terms. *Nurse Education Today*, 66, 130-134. doi:10.1016/j.nedt.2018.04.003
- Corrales, A., & **Peters**, M. (2017). Examining the relationship between school funding and academic achievement for charter schools. *The Charter Schools Resource Journal*, 12(1), 55-79.
- Peters**, M., Sawyer, C., & Willis, J. (2017). *Counselor's crisis self-efficacy scale: A validation study*. Retrieved from https://www.counseling.org/docs/default-source/vistas/article_4070ce2bf16116603abcacff0000bee5e7.pdf?sfvrsn=eed84b2c_4
- Corrales, A., Schumacher, G., & **Peters**, M. (2017). Does money really matter? Investing in the future of Hispanic students. *AASA Journal of Scholarship & Practice*, 13(4), 9-19.
- Puig, C., Reese, R., & **Peters**, M. (2016). Double-blind, placebo-controlled pilot study on the use of platelet-rich plasma in women with female androgenetic alopecia. *Dermatologic Surgery*, 42(11), 1243-1247.
- Guervin, M., Schumacher, G., & **Peters**, M. (2016). *Academic optimism, organizational citizenship behaviors, and student achievement at charter schools*. Retrieved from <https://www.cmich.edu/colleges/ehs/unit/csrfj/Documents/Spring%202016%20TCSRJ.pdf>
- Unruh, T., **Peters**, M., & Willis, J. (2016). Flip this classroom: A comparative study. *Computers in the Schools*, 33(1), 38-58.
- McMahon, M., **Peters**, M., & Schumacher, G. (2014). The principal evaluation process and its relationship to student achievement. *AASA Journal of Scholarship & Practice*, 11(3), 34-48.
- Sawyer, C., **Peters**, M., & Willis, J. (2013). Self-efficacy of beginning counselors to counsel clients in crisis. *Journal of Counselor Preparation and Supervision*, 5(2), 30-43.
- Huss-Keeler, R., **Peters**, M., & Bechtold, J. (2013). Motivation for attending higher education from the perspective of early care and educational professionals. *Journal of Early Childhood Teacher Education*, 34(2), 1-19.
- Kearney, W. S., Goldhorn, J., Webb, M., & **Peters**, M. (2013). Examining the impact of critical feedback on student engagement in secondary mathematics classrooms: A multi-level analysis. *AASA Journal of Scholarship & Practice*, 10(1), 23-38.

Fox, A., & Peters, M. (2013). First year teachers: Certification program and assigned subject on their self-efficacy. *Current Issues in Education*, 16(1), 1-15.

Peters, M., & Kortecamp, K. (2010). Rethinking undergraduate mathematics education: The importance of classroom climate and self-efficacy on mathematics achievement. *Current Issues in Education*, 14(3), 1-35.

Refereed Conference Proceedings

International

Veguilla-Martinez, N., Corrales, C., Grace, J., & Peters, M. (2022). Campus leaders' use and attitudes towards technology impacted by COVID-19. In E. Langran (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 697-701). San Diego, CA, United States: Association for the Advancement of Computing in Education (AACE).

Robie, G., Willis, J., Beavers, E., Peters, M., & Orange, A. (2022). Teacher beliefs and perceptions of science notebook use in a universal design learning. In E. Langran (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 2076-2080). San Diego, CA: Association for the Advancement of Computing in Education (AACE).

Plut, A., Willis, J., Giles, M., Peters, M., & Orange, A. (2021). Educational Technology Use in Early-Childhood Classrooms: Influence of Teacher Characteristics on Implementation. In E. Langran & D. Rutledge (Eds.), *Proceedings of SITE Interactive Conference* (pp. 216-225). Online: Association for the Advancement of Computing in Education (AACE). Retrieved from <https://www.learntechlib.org/primary/p/220193/>.

Peters, M., Yang, T., Wei, W., Sha, K., & Davari, S. (2021). Examining the influence of participating in a cyber defense track on students' cybersecurity knowledge, awareness, and career choices. In H. R. Arabnia et al. (Eds.), *Advances in Software Engineering, Education, and e-Learning, Transactions on Computational Science and Computational Intelligence* (pp. 31-42). Athens, GA: World Congress in Computer Science, Computer Engineering, and Applied Computing Conference. https://doi.org/10.1007/978-3-030-70873-3_3

Anderson, K., Peters, M., & Willis, J. (2020). Distance learning mathematics courses and testing environments: Academic integrity and test anxiety. In Gary H. Marks & Denise Schmidt-Crawford (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 210-215). Online: Association for the Advancement of Computing in Education (AACE). Retrieved from <https://www.learntechlib.org/primary/p/215753/>.

Abukmail, A., Peters, M., & Willis, J. (2020). Bridging barriers in STEM education: Exploring gender perceptions. In Gary H. Marks & Denise Schmidt-Crawford (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 337-342). Online: Association for the Advancement of Computing in Education (AACE). Retrieved from <https://www.learntechlib.org/primary/p/215768/>.

- Peters, M., Abukmail, A., & Willis, J. (2019).** STEM college-bound: Relationship of familial factors. In K. Graziano (Ed.), *Proceedings of Society for Information Technology & Teacher Education (SITE) Conference 2019* (pp. 1002-1007). Las Vegas, NV: Association for the Advancement of Computing in Education (AACE).
- Jeremiassen, K., Orange, A., Willis, J., & **Peters, M. (2018).** Understanding high school students' stem identity, game play motivations, and game preferences. In E. Langran & J. Borup (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 419-427). Washington, D.C., United States: Association for the Advancement of Computing in Education (AACE).
- Peters, M., & Corrales, A. (2016).** To infinity and beyond: Bridging STEM opportunities for underserved and underrepresented students. In *Proceedings of the CSI: International Academic Research Conference 2016* (pp. 123-139). Granite Falls, MN: Center for Scholastic Inquiry (CSI).
- Trevathan, M., **Peters, M., Willis, J., & Sansing, L. (2016).** Serious games classroom implementation: Teacher perspectives and student learning outcomes. In *Proceedings of Society for Information Technology & Teacher Education (SITE) Conference 2016* (pp. 629-636). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).
- Milman, N., Kortecamp, K., & **Peters, M. (2007).** A longitudinal study analyzing teacher candidates' technology backgrounds and perspectives for determining technology instruction. In R. Carlsen, K. McFerrin, J. Price, R. Weber, & D. Willis (Eds.), *Proceedings of Society for Information Technology & Teacher Education Conference 2007* (pp. 3090-3094). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).

National

- Jacob, J., **Peters, M., & Yang, A. (2019).** Interdisciplinary cybersecurity: Rethinking the approach and the process. In K. K. R. Choo et al. (Eds.), *Proceedings of the Annual National Cyber Summit* (pp. 61-74). Washington, D.C.: National Initiative for Cybersecurity Education.

Technical Reports

- Peters, M., & Ortloff, D. (2023).** *21st century community learning centers (CCLC) analytic support for evaluation and program monitoring: An overview of the 21st CCLC performance data 2021–22*. Washington, DC: US Department of Education.
- Peters, M., & Ortloff, D. (2022).** *21st century community learning centers (CCLC) analytic support for evaluation and program monitoring: An overview of the 21st CCLC performance data 2020–21*. Washington, DC: US Department of Education.

- Peters, M., & Corrales, A. (2022).** *Matanuska-Susitna Borough School District LEAD After-School 21st CCLC Grant: 2021-2022.* Alaska Department of Education, Matanuska-Susitna Borough School District, Wasilla, AK.
- Peters, M. (2022).** *Program evaluation of the Turn the T.I.D.E. program: 2019-2022.* Galveston, TX: Artist Boat.
- Kortecamp, K., & Peters, M. (2021).** *Summary of the results of innovations for learning's randomized control trial in Kae Avenue elementary school: 2018 – 2020.* North Venice, FL: Curriculum & Evaluation Associates.
- Peters, M. (2021).** *New teacher instructional coaching program.* Teacher Quality Grant, US Department of Education. Stafford, TX: Stafford Municipal School District
- Peters, M. (2021).** *Matanuska-Susitna Borough School District LEAD After-School 21st CCLC Grant: 2020-2021.* Alaska Department of Education, Matanuska-Susitna Borough School District, Wasilla, AK.
- Peters, M., & Ortloff, D. (2021).** *21st century community learning centers (CCLC) analytic support for evaluation and program monitoring: An overview of the 21st CCLC performance data 2019–20.* Washington, DC: US Department of Education.
- Peters, M. (2020).** *Evaluation of the NSF cybersecurity for education grant: Summative Report 2018-2020.* Houston, TX: University of Houston – Clear Lake.
- Peters, M., & Ortloff, D. (2020).** *21st century community learning centers (CCLC) analytic support for evaluation and program monitoring: An overview of the 21st CCLC performance data 2018–19.* Washington, DC: US Department of Education.
- Peters, M. (2019).** *Evaluation of the NSF cybersecurity for education grant: Network forensics 2019.* Houston, TX: University of Houston – Clear Lake.
- Peters, M., & Ortloff, D. (2019).** *21st century community learning centers (CCLC) analytic support for evaluation and program monitoring: An overview of the 21st CCLC performance data 2017–18.* Washington, DC: US Department of Education.
- Peters, M. (2019).** *Evaluation of the NSF cybersecurity for education grant: 2018-2019.* Houston, TX: University of Houston – Clear Lake.
- Peters, M., & Corrales, A. (2019).** *Program evaluation of Artist Boat STEAM programs.* Galveston, TX: Artist Boat.
- Corrales, A., & Peters, M. (2018).** *Program evaluation of the energy bus for schools.* Sugarland, TX: Energy Bus for Schools Leadership Journey.
- Peters, M., & Ortloff, D. (2018).** *21st century community learning centers (CCLC) analytic support for evaluation and program monitoring: An overview of the 21st CCLC performance data 2016–17.* Washington, DC: US Department of Education.

- Peters, M., & Ortloff, D. (2017).** *21st century community learning centers (CCLC) analytic support for evaluation and program monitoring: An overview of the 21st CCLC performance data 2015–16.* Washington, DC: US Department of Education.
- Peters, M. (2017).** *The impact of summer science camps: 2011-2017 long-term study results.* Houston, TX: The Harris Foundation.
- Ortloff, D., & Peters, M. (2016).** *21st century community learning centers (CCLC) analytic support for evaluation and program monitoring: An overview of the 21st CCLC performance data 2014–15.* Washington, DC: US Department of Education.
- Peters, M., & Sansing, L. (2016).** *Implementation of the Aegis game in Clear Creek, Deer Park, La Marque, and Pasadena independent school districts.* Houston, TX: Tietronix Software, Inc.
- Peters, M., & Ortloff, D. (2016).** *Pasadena independent school district Texas ACE 21st century CCLC: Cycle 7 end of year five report.* Pasadena, TX: Pasadena Independent School District.
- Peters, M., & Ortloff, D. (2016).** *Pasadena independent school district Texas ACE 21st CCLC: Cycle 8 end of year three report.* Pasadena, TX: Pasadena Independent School District.
- Peters, M. (2016).** *The impact of summer science camps: 2016 long-term study results.* Houston, TX: The Harris Foundation.
- Peters, M., Sansing, L., & Lawing, R. (2015).** *Program evaluation: Validation and implementation of Aegis.* Houston, TX: Tietronix Software, Inc.
- Peters, M. (2015).** *Comparison of 1st-4th year participation in Texas ACE on student achievement, attendance, discipline, and grade promotion.* Pasadena, TX: Pasadena Independent School District.
- Peters, M. (2015).** *Comparison of 30, 60, and 90+ days of ACE participation on student achievement, attendance, discipline, and grade promotion.* Pasadena, TX: Pasadena Independent School District.
- Peters, M., & Ortloff, D. (2015).** *21st century community learning centers (CCLC) analytic support for evaluation and program monitoring: An overview of the 21st CCLC performance data 2013–2014.* Washington, DC: US Department of Education.
- Ortloff, D., & Peters, M. (2015).** *Pasadena independent school district Texas ACE 21st century CCLC: Cycle 7 end of year four report.* Pasadena, TX: Pasadena Independent School District.
- Peters, M., & Ortloff, D. (2015).** *Pasadena independent school district Texas ACE 21st CCLC: Cycle 8 end of year two report.* Pasadena, TX: Pasadena Independent School District.
- Peters, M. (2015).** *The impact of summer science camps: 2015 long-term study results.* Houston, TX: The Harris Foundation.

- Peters, M., & Ortloff, D. (2014).** *Pasadena independent school district Texas ACE 21st CCLC: Cycle 8 end of year one report.* Pasadena, TX: Pasadena Independent School District.
- Peters, M., & Ortloff, D. (2014).** *Pasadena independent school district Texas ACE 21st century CCLC: Cycle 7 end of year three report.* Pasadena, TX: Pasadena Independent School District.
- Peters, M. (2014).** *Impact of summer science camps: The EMBHSSC story.* Houston, TX: The Harris Foundation.
- Peters, M. (2014).** *The impact of summer science camps: 2014 long-term study results.* Houston, TX: The Harris Foundation.
- Peters, M. (2013).** *The impact of summer science camps: 2013 long-term study results.* Houston, TX: The Harris Foundation.
- Peters, M., & Ortloff, D. (2013).** *Pasadena independent school district Texas ACE 21st century CCLC: End of year two report.* Pasadena, TX: Pasadena Independent School District.
- Peters, M. (2012).** *The ExxonMobil Bernard Harris summer science camp alumni study: 2012.* Houston, TX: The Harris Foundation.
- Ortloff, D., & Peters, M. (2012).** *Pasadena independent school district Texas ACE 21st century CCLC: End of the year report.* Pasadena, TX: Pasadena Independent School District.
- Sawyer, C., & Peters, M. (2012).** *An evaluation of the Hogg foundation's bilingual scholarship program.* Austin, TX: Hogg Foundation.
- Peters, M. (2011).** *The ExxonMobil Bernard Harris summer science camp alumni study: 2011.* Houston, TX: The Harris Foundation.
- Peters, M. (2011).** *The impact of summer science camps: Alumni survey results 2011.* Houston, TX: The Harris Foundation.
- Peters, M. (2011).** *The impact of summer science camps: 2010 long-term study results.* Houston, TX: The Harris Foundation.
- Peters, M. (2011).** *New faculty mentoring program evaluation: A pilot study.* Houston, TX: University of Houston-Clear Lake.
- Peters, M. (2010).** *The ExxonMobil Bernard Harris summer science camp stem follow-up study: 2007.* Houston, TX: The Harris Foundation.
- Peters, M. (2010).** *The ExxonMobil Bernard Harris summer science camp stem follow-up study: 1996-2006.* Houston, TX: The Harris Foundation.
- Peters, M., & Jones, R. (2010).** *Summer 2010 pilot of The EMBHSSC electronic evaluation Survey.* Houston, TX: The Harris Foundation.

- Huss-Keeler, B., Kirkwood, D., **Peters, M.**, & Bechtold, J. (2010). *Early care and education professionals: Community college student survey summer 2010*. Houston, TX: Collaborative for Children.
- Peters, M.** (2010). *Research brief: 2008 ACS comprehensive salary and employment survey status*. Washington, D.C.: American Chemical Society.
- Peters, M.** (2010). *Research brief: Salaries for the class of 2008*. Washington, D.C.: American Chemical Society.
- Peters, M.** (2010). *Research brief: Plans for advanced study*. Washington, D.C.: American Chemical Society.
- Peters, M.** (2010). *Research brief: B.S. chemistry grads post-graduation plans*. Washington, D.C.: American Chemical Society.
- Peters, M.** (2009). *Starting salaries of chemists and chemical engineers 2008. Analysis of the American chemical society's survey of graduates in chemistry and chemical engineering*. Washington, D.C.: American Chemical Society.
- Peters, M.** (2009). *Salaries 2009: Analysis of the American chemical society's 2009 Comprehensive Salary and Employment Status Survey*. Washington, D.C.: American Chemical Society.
- Peters, M.** (2009). *CS methodology: Baseline methodology for the ACS comprehensive salary and employment survey*. Washington, D.C.: American Chemical Society.
- Peters, M.** (2009). *NG methodology: Baseline methodology for the ACS survey of new graduates questionnaire*. Washington, D.C.: American Chemical Society.
- Peters, M.** (2009). *CS questionnaire: Critique of the ACS comprehensive salary and employment survey*. Washington, D.C.: American Chemical Society.
- Peters, M.** (2009). *NG questionnaire: Critique of the ACS survey of new graduates questionnaire*. Washington, D.C.: American Chemical Society.
- Peters, M.** (2008). *Salaries 2008: Analysis of the American chemical society's 2008 comprehensive salary and employment status survey*. Washington, D.C.: American Chemical Society.
- Peters, M.** (2008). *Starting salaries of chemists and chemical engineers 2007. Analysis of the American chemical society's survey of graduates in chemistry and chemical engineering*. Washington, D.C.: American Chemical Society.

GRANTS

Internal

Abukmail, A., Peters, M., & Willis, J. (2018). *Investigating familial factors in women's decision to pursue computing and other STEM-related careers*. Faculty Research and Support Funds. Award Amount = \$2,000.00 (Co-Principal Investigator)

Peters, M. (2010). *Factors influencing mathematics classroom climate*. Faculty Research and Support Funds. Award Amount = \$275.00 (Principal Investigator)

Jones, R., Peters, M., & Ortloff, D. (2010). *Improving instructional strategies for stem education through student comment themes*. Faculty Research and Support Funds. Award Amount = \$4,158.14 (Co-Principal Investigator)

External

Wang, A., Davari, S., Sha, K., & Wei, W. (2017-2020). *Revamping a Traditional Computer Science Program to Meet Modern-day Cybersecurity Education Challenges*. National Science Foundation (NSF). Award Amount = \$499,995 (Program Evaluator/Researcher)

Trevathan, M., Izygon, M., & Willis, J. (2014-2015). *Aegis: An R/R&D of a Hybrid Videogame/Graphic Novel to Support Computer Science Education – Phase II*. Defense Advanced Research Projects Agency (DARPA). Award Amount = \$149,970.00 (Program Evaluator/Researcher)

Sawyer, C. (2012). *Evaluation of Bilingual Social Worker Training*. The Hogg Foundation. Award Amount = \$29,965 (Program Evaluator/Researcher)

Sawyer, C. (2011-2016). *Collaborative Bicultural Counselor Training Project IV*. Department of Education. Award Amount = \$1,599,994 (Program Evaluator/Researcher)

PRESENTATIONS

Invited

Peters, M. (2021, April). *Serving on the front lines*. Center for Mathematics Education 2020-2021 Colloquia Series, University of Maryland, College Park, MD.

Jain, P., & **Peters, M.** (2019, August). *It's never too early! Infants and toddlers in STEM*. Paper presented at the BakerRipley Early Head Start/Head Start annual training conference, Houston, TX.

Jain, P., & **Peters, M.** (2019, August). *STEM in the Classroom: How and Why!* Paper presented at the BakerRipley Early Head Start/Head Start annual training conference, Houston, TX.

Jain, P., & **Peters, M.** (2019, August). *STEM throughout the day*. Paper presented at the BakerRipley Early Head Start/Head Start annual training conference, Houston, TX.

Peters, M. (2018). *The organic growth of STEM at UHCL*. UHCL Provost Speaker Series.

Peters, M. (2016). *Imagine it, believe it, live it*. Keynote Speaker for the STEM Conference for Middle School Girls, College of the Mainland, Texas City, TX.

International

Brown, A. L., **Peters, M.**, & Karim, A. (2023, May). *Do executive functions matter? Closing gaps through targeted executive function development in preschool*. Paper presented at the annual meeting of The Association for the Study of Play Annual Conference, New York, New York.

Brown, A. L., **Peters, M.**, & Karim, A. (2023, May). *Growing brains through play: Developing executive function skills through a play-based pedagogy*. Paper presented at the annual meeting of The Association for the Study of Play Annual Conference, New York, New York.

Peters, M., Waters, C., & Corrales, A. (2023, April). *Climate change: Increasing knowledge and changing attitudes*. Paper presented at the annual meeting of the American Educational Research Association (AERA), Chicago, IL.

Divoll, K., Battle, K., & **Peters, M.** (2023, April). *Classroom management in a new world: Post Covid-19 classroom management training*. Paper presented at the annual meeting of the American Educational Research Association (AERA), Chicago, IL.

Kortecamp, K., & **Peters, M.** (2022, April). *A randomized control trial of an effective high-dosage tutoring program for at-risk emergent readers*. Paper presented at the annual meeting of the American Educational Research Association (AERA), San Diego, CA.

Veguilla-Martinez, N., Corrales, A., Grace, J., & **Peters, M.** (2022, April). *Campus leaders' use and attitudes towards technology impacted by COVID-19*. Paper presented at the annual meeting of the Society for Information Technology & Teacher Education International Conference (SITE), San Diego, CA.

Gelyn, R., Willis, J., Beavers, E., **Peters, M.**, & Orange, A. (2022, April). *Teacher beliefs and perceptions of science notebook use in a universal design learning*. Paper presented at the annual meeting of the Society for Information Technology & Teacher Education International Conference (SITE), San Diego, CA.

Plut, A., Giles, M. Willis, J., & **Peters, M.** (2021, October). *Educational technology use in early-childhood classrooms: Influence of teacher characteristics on implementation*. SITE Interactive Online 2021 Conference.

Muhammad, A., **Peters, M.**, Orange, A., & Weiser, B. (2021, April). *Examining the relationship between the claim, evidence, and reasoning as a writing framework and high school science achievement*. Paper presented at the annual virtual meeting of the American Educational Research Association (AERA).

- Aziegbe, E., Beavers, E., & **Peters**, M. (2021, April). *Let's wait and see! barriers between the "gatekeepers" and black families access to early intervention*. Paper presented at the annual virtual meeting of the American Educational Research Association (AERA).
- Cantu-Wilson, M., Corrales, A., & **Peters**, M. (2021, April). *Texas community college property tax funding: Student transfer, licensure, and completion*. Paper presented at the annual virtual meeting of the American Educational Research Association (AERA).
- Abukmail, A., **Peters**, M., & Willis, J. (2020, April). *Bridging barriers in STEM education: Exploring gender perceptions*. Online: Paper presented at the annual meeting of the Society for Information Technology & Teacher Education International Conference (SITE), New Orleans, LA.
- Anderson, K., **Peters**, M., & Willis, J. (2020, April). *Distance learning mathematics courses and testing environments: Academic integrity and test anxiety*. Online: Paper presented at the annual meeting of the Society for Information Technology & Teacher Education International Conference (SITE), New Orleans, LA.
- George, B., Watson, S., & **Peters**, M. (2020, April). *Girls' science, technology, engineering, mathematics, and STEM self-efficacy*. American Educational Research Association (AERA), San Francisco, CA <http://tinyurl.com/vlp3oqk> (Conference Cancelled).
- Watson, S., Cothorn, T., & **Peters**, M. (2020, April). *School administrators' perceptions of STEM awareness and resources*. American Educational Research Association (AERA), San Francisco, CA <http://tinyurl.com/tldf58r> (Conference Cancelled).
- Peters**, M., Sawyer, C., & Willis, J. (2019, April). *Validating the counselor's crisis self-efficacy scale*. Paper presented at the annual meeting of the American Educational Research Association (AERA), Toronto, Canada.
- Dahlkamp, S., & **Peters**, M. (2019, April). *Teacher retention and its relationship to principal self-efficacy and school climate: A multi-level analysis*. Paper presented at the annual meeting of the American Educational Research Association (AERA), Toronto, Canada.
- Tingle, E., Corrales, A., & **Peters**, M. (2019, April). *District leadership development program investing in school principals*. Paper presented at the annual meeting of the American Educational Research Association (AERA), Toronto, Canada.
- Peters**, M., Abukmail, A., & Willis, J. (2019, March). *STEM college-bound: Relationship of familial factors*. Paper presented at the annual meeting of the Society for Information Technology & Teacher Education International Conference (SITE), Las Vegas, NV.
- Ming, T., Willis, J., **Peters**, M., & Orange, A. (2018, April). *Educational apps and student technology literacy: Making connections*. Paper presented at the annual meeting of the American Educational Research Association (AERA), New York, NY.
- Jeremiassen, K., Orange, A., Willis, J., & **Peters**, M. (2018, March). *Understanding high school students' stem identity, game play motivations, and game preferences*. Paper presented at the annual meeting of the Society for Information Technology & Teacher Education International Conference (SITE), Washington, D.C.

- Ming, T, **Peters, M.**, & Willis, J. (2017, June). *Emerging taxonomy to classify educational apps: Examining influence on students' technology literacy*. Paper presented at the annual meeting of the International Society for Technology in Education (ISTE), San Antonio, TX.
- Peters, M.**, & Corrales, A. (2017, April). *Bridging the opportunity gap: Underrepresented and underserved in STEM*. Paper presented at the annual meeting of the American Educational Research Association (AERA), San Antonio, TX.
- Orange, A., **Peters, M.**, & Gonzalez, A. (2017, April). *The influence of high-stakes testing on teacher self-efficacy and job-related stress*. Paper presented at the annual meeting of the American Educational Research Association (AERA), San Antonio, TX.
- Peters, M.**, & Corrales, A. (2016, October). *To infinity and beyond: Bridging STEM opportunities for underserved and underrepresented students*. Paper presented at the annual meeting of the International Academic Research Conference for the Center for Scholastic Inquiry (CSI), Scottsdale, AZ.
- Trevathan, M., **Peters, M.**, Willis, J., & Sansing, L. (2016, March). *Serious games classroom implementation: Teacher perspectives and student learning outcomes*. Paper presented at the Society for Information Technology & Teacher Education (SITE) 27th international conference, Savannah, GA.
- Peters, M.**, & Corrales, A. (2015, April). *School funding and graduation rates of Hispanic Students: A mixed methods study*. Paper presented at the annual meeting of the American Educational Research Association (AERA), Chicago, IL.
- Peters, M.**, Sawyer, C., & Willis, J. (2015, April). *Self-Efficacy of beginning counselors to counsel clients in crisis*. Paper presented at the annual meeting of the American Educational Research Association (AERA), Chicago, IL.
- Peters, M.**, & Fox, A. (2015, April). *Certification program and assigned subject on first year teachers' self-efficacy*. Paper presented at the annual meeting of the American Educational Research Association (AERA), Chicago, IL.
- Decman, J., **Peters, M.**, McCarley, T., & Simieou, F. (2015, April). *Transformational leadership and school climate*. Paper presented at the annual meeting of the American Educational Research Association (AERA), Chicago, IL.
- Puig, C., Reese, R., & **Peters, M.** (2014, October). *Effect of PRP on female pattern hair loss*. Paper presented at the International Society of Hair Restoration Surgery (ISHRS) annual scientific meeting, Kuala Lumpur, Malaysia.
- Peters, M.**, & Ortloff, D. (2014, April). *The need to care: Caring and climate in mathematics classrooms*. Paper presented at the annual meeting of the American Educational Research Association (AERA), Philadelphia, PA.
- Peters, M.** (2013, April). *Science camps making a difference: Examining the influence on underserved and underrepresented students*. Paper presented at the annual meeting of the American Educational Research Association (AERA), San Francisco, CA.

- Ortloff, D., & **Peters**, M. (2013, April). *Probing educational leaders' perspectives on global citizenship: A mixed method study*. Paper presented at the annual meeting of the American Educational Research Association (AERA), San Francisco, CA.
- Ortloff, D., **Peters**, M., & Floridaia, C. (2012, April). *Education for global citizenship: Impact of school leaders, an exploratory case study*. Paper presented at the annual meeting of the American Educational Research Association (AERA), Vancouver, British Columbia.
- Bechtold, J., **Peters**, M., & Huss-Keeler, R. (2011, April). *The effects of returning to higher education from the perspective of early care and educational professionals*. Paper presented at the annual meeting of the American Educational Research Association (AERA), New Orleans, LA.
- Peters**, M. (2009, April). *The influence of classroom climate on student's mathematics self-efficacy and achievement: A multi-level analysis*. Paper presented at the annual meeting of the American Educational Research Association (AERA), San Diego, CA.
- Peters**, M., Choi, J., Mueller, R., & D'Avolio, K. (2009, April). *A synthesis of correlational analysis methods of ordinal data*. Paper presented at the annual meeting of the American Educational Research Association (AERA), San Diego, CA.
- Milman, N., Kortecamp, K., & **Peters**, M. (2007, March). *A longitudinal study analyzing teacher candidates' technology backgrounds and perspectives for determining technology instruction*. Paper presented at the Society for Information Technology & Teacher Education (SITE) 18th International conference, San Antonio, TX.

National

- Brown, A., Karim, A., & **Peters**, M. (2021, December). *The impact of a neuroscience-focused early childhood program*. Paper presented at the annual meeting of the National Head Start Association (NHSA), Orlando, FL.
- Duncan, O., Watson, S., & **Peters**, M. (2020, July). *School administrators' awareness of parental STEM awareness, strategies to promote STEM awareness, and student STEM preparation*. Paper presented at the National Science Teaching Association (NSTA) Virtual Conference.
- Jacob, J., **Peters**, M., & Yang, A. (2019, June). *Interdisciplinary cybersecurity: Rethinking the approach and the process*. Paper presented at the 2019 National Cyber Summit, Huntsville, AL.
- Peters**, M. (2017, November). *ExxonMobil Bernard Harris summer science camp longitudinal study: 2011-2017*. Paper presented at the 2017 ExxonMobil Bernard Harris Summer Science Camp Fall Forum, Houston, TX.
- Peters**, M., & Corrales, A. (2017, November). *EMBHSSC formative evaluation: 2017*. Paper presented at the 2017 ExxonMobil Bernard Harris Summer Science Camp Fall Forum, Houston, TX.

- Jones, R., & **Peters**, M. (2017, February). *How to appropriately conduct external program evaluations*. Paper presented at the 2017 ExxonMobil Bernard Harris Summer Science Camp Spring Forum, Houston, TX.
- Peters**, M. (2016, October). *ExxonMobil Bernard Harris summer science camp longitudinal study: 2011-2016*. Paper presented at the 2016 ExxonMobil Bernard Harris Summer Science Camp Fall Forum, Houston, TX.
- Simieou, F., Carr, E., & **Peters**, M. (2016, July). *After school program interventions that support the academic achievement, behavior, and engagement of at-risk students*. Paper presented at the National Council of Professors of Educational Administration (NCPEA) 2016 conference, Detroit, MI.
- Peters**, M. (2015, October). *ExxonMobil Bernard Harris summer science camp longitudinal study: 2011-2015*. Paper presented at the 2015 ExxonMobil Bernard Harris Summer Science Camp Fall Forum, Houston, TX.
- Jones, R., & **Peters**, M. (2015, October). *EMBHSSC formative evaluation: 2015*. Paper presented at the 2015 ExxonMobil Bernard Harris Summer Science Camp Fall Forum, Houston, TX.
- Peters**, M. (2014, October). *ExxonMobil Bernard Harris summer science camp longitudinal study: 2011-2014*. Paper presented at the 2014 ExxonMobil Bernard Harris Summer Science Camp Fall Forum, Houston, TX.
- Jones, R., & **Peters**, M. (2014, October). *EMBHSSC formative evaluation: 2014*. Paper presented at the 2014 ExxonMobil Bernard Harris Summer Science Camp Fall Forum, Houston, TX.
- Jones, R., & **Peters**, M. (2014, February). *How to Appropriately Conduct External Program Evaluations*. Paper presented at the 2014 ExxonMobil Bernard Harris Summer Science Camp Spring Forum, Houston, TX.
- Jones, R., & **Peters**, M. (2014, February). *Research and development teams: Promoting team work*. Paper presented at the 2014 ExxonMobil Bernard Harris Summer Science Camp Spring Forum, Houston, TX.
- McMahon, M., & **Peters**, M. (2013, October). *Examining the principal evaluation process in Texas and its relationship to student achievement*. Paper presented at the annual meeting of the Critical Questions in Education Conference, San Antonio, TX.
- Simeou, F., **Peters**, M., Decman, J., & Badgett, K. (2013, August). *Texas after school centers on education (ACE): What's going on?* Paper presented at the annual meeting of the National Council of Professors of Educational Administration (NCPEA), Newark, NJ.
- Sansing, L., & **Peters**, M. (2012, October). *Podcasts: Assisting learner autonomy and time management skills through accessibility*. Paper presented at the annual meeting of the American Association for Teaching and Curriculum (AATC), San Antonio, TX.

- Peters, M.** (2011, October). *EMBHSSC alumni study: 2011*. Paper presented at the 2011 ExxonMobil Bernard Harris Summer Science Camp Fall Forum, Houston, TX.
- Gunby, J., Esters, L., Grove, M., & **Peters, M.** (2011, September). *Emerging research ideas: Socio-cultural and ethnic identity*. Paper presented at the ITEST Convening: Advancing Research on Youth Motivation in STEM, Boston, MA.
- Peters, M., & Jones, R.** (2011, February). *Short-term, electronic, and long-term program evaluations*. Paper presented at the 2011 ExxonMobil Bernard Harris Summer Science Camp Spring Forum, Houston, TX.
- Peters, M.** (2010, October). *Class of 2007: Where are they now?* Paper presented at the 2010 ExxonMobil Bernard Harris Summer Science Camp Fall Forum, Houston, TX.
- Peters, M., & Jones, R.** (2010, October). *Summer 2010 pilot of the EMBHSSC electronic evaluation survey*. Paper presented at the 2010 ExxonMobil Bernard Harris Summer Science Camp Fall Forum, Houston, TX.
- Peters, M., & Jones, R.** (2010, February). *Suggestions from campers: How to have a perfect camp program*. Paper presented at the 2010 ExxonMobil Bernard Harris Summer Science Camp Spring Forum, Houston, TX.
- Peters, M., & Jones, R.** (2009, October). *A compilation of summary comment themes: 2009 EMBHSSC program*. Paper presented at the 2009 ExxonMobil Bernard Harris Summer Science Camp Fall Forum, Houston, TX.
- Peters, M.** (2009, February). *The influence of classroom climate on student's mathematics self-efficacy and achievement: A multi-level analysis*. Paper presented at the Educational Symposium for Research and Innovations (ESRI) annual conference, Washington, D.C.

Regional/Multistate

- Peters, M., & Waters, C.** (2022, October). *Turning the T.I.D.E. on climate change: Exploring the impact of an environmental education program*. Paper presented at the annual meeting of the Southwest Association of Science Teacher Education (SW-ASTE), San Marcos, TX.
- Peters, M., & Jeffery, T.** (2022, February). *SERA junior faculty mentoring: Part 1*. New Orleans: 2021 annual meeting of the Southwest Association of Educational Research (SERA).
- Jeffery, T., & **Peters, M.** (2022, February). *SERA junior faculty mentoring: Part 2*. New Orleans: 2021 annual meeting of the Southwest Association of Educational Research (SERA).
- Peters, M., & Jeffery, T.** (2021, February). *SERA junior faculty mentoring: Part 1*. Virtual: 2021 annual meeting of the Southwest Association of Educational Research (SERA).
- Jeffery, T., & **Peters, M.** (2021, February). *SERA junior faculty mentoring: Part 2*. Virtual: 2021 annual meeting of the Southwest Association of Educational Research (SERA).

- Peters, M., & Willis, J.** (2020, February). *SERA junior faculty mentoring: Part 1*. Arlington, TX: 2020 annual meeting of the Southwest Association of Educational Research (SERA).
- Willis, J., & Peters, M.** (2020, February). *SERA junior faculty mentoring: Part 2*. Arlington, TX: 2020 annual meeting of the Southwest Association of Educational Research (SERA).
- Peters, M., & Willis, J.** (2019, February). *SERA junior faculty mentoring*. San Antonio, TX: 2019 annual meeting of the Southwest Association of Educational Research (SERA).
- Willis, J., & Peters, M.** (2018, February). *SERA junior faculty mentoring*. New Orleans, LA: 2018 annual meeting of the Southwest Association of Educational Research (SERA).
- Willis, J., & Peters, M.** (2017, February). *SERA initiatives for doctoral students and assistant professors*. Paper presented at the annual meeting of the Southwest Association of Educational Research (SERA), San Antonio, TX.
- McMahon, M., & Peters, M.** (2014, February). *The principal evaluation process in Texas and its relationship to student achievement*. Paper presented at the annual meeting of the Southwest Association of Educational Research (SERA), New Orleans, LA.
- Sansing, L., & Peters, M.** (2013, October). *Out of school time: Can a STEM focused after school program impact science achievement?* Paper presented at the annual meeting of the Southwest Association of Science Teacher Education (SW-ASTE), San Antonio, TX.
- Jones, R., & Peters, M.** (2013, October). *An emerging model for STEM education in middle school*. Paper presented at the annual meeting of the Southwest Association of Science Teacher Education (SW-ASTE), San Antonio, TX.
- Peters, M.** (2012, October). *Infinity and beyond: Soaring into the future after science camp*. Paper presented at the annual meeting of the Southwest Association of Science Teacher Education (SW-ASTE), Houston, TX.
- Jones, R., & Peters, M.** (2012, October). *From Horse and Buggy to Spaceship: The Development of the EMBHSSC Program Evaluation Process*. Paper presented at the annual meeting of the Southwest Association of Science Teacher Education (SW-ASTE), Houston, TX.

Local

- Jones, R., Peters, M., & Corrales, A.** (2019, March). *Teaming up for STEM*. Paper presented at the annual meeting of the Greater Houston Area STEM Conference, Houston, TX.
- Jones, R., Peters, M., & Corrales, A.** (2018, March). *Teaming up for STEM*. Paper presented at the annual meeting of the Greater Houston Area STEM Conference, Houston, TX.

SERVICE

Service within the Institution

University of Houston System

University of Houston-Clear Lake

Council of Chairs	2020-Present
Chair, Committee for the Protection of Human Subjects (CPHS/IRB)	2019-2020
Chair Elect, Committee for the Protection of Human Subjects (CPHS)	2019
COE Dean Search Committee Member	2020
Executive Director of the Institute for Human and Planetary Sustainability Search Committee Member	2020
Chair, Lecturer in Secondary Math/Science Education Search Committee	2020
Faculty Research Support Funds (FRSF) Committee	2018-2020
Graduate Survey: COE Representative	2023
Student Conference for Research & Creative Arts: COE Representative	2020
Faculty Senate Committee Member	2011-2014, 2016-2018
Faculty Senate – Planning & Budget Committee (PBC)	2016-2018
Faculty Senate – Curriculum & Teaching	2017-2018
Faculty Senate – Budget Committee	2016-2017
Faculty Senate – Research Committee	2011-2014
Faculty Senate – Facilities and Support Services Committee	2011-2014
Chair, Space Utilization and Allocation Subcommittee	2012-2013
Academic Council	2011-2014
University Council	2011-2014
Ambassador	2011, 2016-2018

College of Education

Department Chair, Educational Leadership & Policy Analysis	2020-Present
Co-Director, UHCL <i>Teach</i> Program	2020-Present
Program Coordinator, Educational Foundations/Research	2016-2020
Coordinator, Multidisciplinary STEM Education	2016-2021
Chair, Greater Houston Area STEM Conference	2016-2021
Co-Chair, Middle School Pipeline	2019-Present
Chair, UHCL <i>Teach</i> Executive Board	2022-Present
Texas Academic Leadership Academy (TALA) Fellow	2021-2022
Chair, Committee for the Protection of Human Subjects (CPHS/IRB)	2013-2019
Chair, EdD Educational Leadership Admissions Subcommittee	2015-Present
Chair, Promotion & Tenure Committee (2)	2018-2019
Chair, Third Year Review Committee (3)	2016, 2018-2019
Chair, Doctoral Comprehensive Exam Research Subcommittee	2014-Present
Chair, Associate Dean Search Committee	2015-2016; 2022
Chair, Director of Center for Educational Programs (CEP) Search Committee	2017
Chair, Executive Director of Planning & Assessments Search Committee	2018-2019
Chair, CAEP Standard 5	2019

Academic Review Committee (ARC); EDUC Representative	2018-2020
Academic Review Committee (ARC); ELPA <i>ex officio</i>	2020-Present
Center for Transformational Education (CFTE) Committee	2022
Teacher Certification Council; ELPA Representative	2020-Present
Promotion & Tenure Committee, Associate Dean	2022
College Research Assistantship (RA) Selection Committee	2020
Third Year Review Committee Member (1)	2019
Promotion & Tenure Committee Member (1)	2019
Full Professor Promotion Committee Member (3)	2019-2020; 2022
Full Professor Promotion Department Chair (3)	2020; 2022
Annual Review Task Force Subcommittee	2016
Educational Leadership (EDLS) Program Committee	2020-Present
C&I (EDCI) Executive Committee	2014-2020
EdD C&I STEM Admissions Committee	2014-2020
EdD Educational Leadership Admissions Subcommittee	2010-2015
Doctoral Comprehensive Exam Research Subcommittee	2012-Present
CAEP Standard 1 Committee Member	2018-2019
Associate Dean Search Committee	2014-2015
Faculty Search Committee – Counseling (2)	2013-2015
Faculty Search Committee – Quantitative Research Methods (1)	2014-2015
Faculty Search Committee – C&I STEM (2)	2014-2017
Committee for the Protection of Human Subjects (CPHS)	2011-2013
Kappa Delta Phi Counselor	2009-2016
Blackboard Power User	2010-2012
New Faculty Mentoring Program Evaluator	2011-2012

Service to the Profession

International Professional Organizations

Journal of Mathematics Teacher Education. (2017-2022). Peer-reviewed journal that publishes articles, reports, news, and information on all aspects of mathematics teacher education. (Reviewer)

School Science and Mathematics. (2010-2021). Peer-reviewed international journal that publishes articles emphasizing research on issues, concerns, and lessons within and between the disciplines of science and mathematics in the classroom. (Reviewer)

Educational Psychology. (2016-2021). Peer-reviewed international journal that publishes research findings covering psychological aspects of education ranging from pre-school to tertiary provision and the education of children with special learning needs. (Reviewer)

International Journal of Science & Mathematics. (2013-2021). Peer-reviewed international journal that publishes articles on a variety of topics and research methods in both science and mathematics education. (Reviewer)

School Leadership & Management. (2014-2017). Peer-reviewed international journal that publishes articles, reports, news, and information on all aspects of the organization and management of schools and colleges. (Reviewer)

Educational Research & Reviews. (2016-2019). Peer-reviewed international journal aimed at researchers and various agencies interested to review studies in education and instruction at any level. (Reviewer)

Journal of Further and Higher Education. (2016-2017). Peer-reviewed international journal publishing scholarly work that represents the whole field of post-16 education and training. (Reviewer)

Asia Pacific Education Review. (2011-2015). Peer reviewed scholarly journal aimed at stimulating research, encouraging academic exchange, and enhancing the professional development of scholars and other researchers who are interested in educational and cultural issues in the Asia Pacific region. (Reviewer)

National Professional Organizations

Division H – Applied Research in Schools. (2022). *American Educational Research Association (AERA) Annual Meeting*, Chicago, IL, April 13-16, 2023. (Reviewed submitted proposals)

Journal of Statistics and Data Science Education. (2021). Peer-reviewed journal that publishes articles, reports, news, and information on all aspects of statistics education. (Reviewer)

Division H – Applied Research in Schools. (2018). *American Educational Research Association (AERA) Annual Meeting*, Toronto, Canada, April 5-9, 2019. (Reviewed submitted proposals)

Division H – Program Evaluation in the Schools. (2018). *American Educational Research Association (AERA) Annual Meeting*, Toronto, Canada, April 5-9, 2019. (Reviewed submitted proposals)

Division H - Applied Research in Schools. (2017). Improving participation, attitudes, and outcomes in STEM. *American Educational Research Association (AERA) Annual Meeting*, New York, NY, April 13-17, 2018. (Session Chair)

Division H - Program Evaluation in Schools. (2017). Program evaluation in schools in international settings: Examples from Brazil, Germany, and China. *American Educational Research Association (AERA) Annual Meeting*, New York, NY, April 13-17, 2018. (Session Chair)

Informal Learning Environment Research SIG. (2017). *American Educational Research Association (AERA) Annual Meeting*, New York, NY, April 13-17, 2018. (Reviewed submitted proposals)

Division H – Applied Research in Schools. (2017). *American Educational Research Association (AERA) Annual Meeting*, New York, NY, April 13-17, 2018. (Reviewed submitted proposals)

Informal Learning Environment Research SIG. (2016). *American Educational Research Association (AERA) Annual Meeting*, San Antonio, TX, April 27-May 1, 2017. (Reviewed submitted proposals)

Division H – Program Evaluation in the Schools. (2016). *American Educational Research Association (AERA) Annual Meeting*, San Antonio, TX, April 27-May 1, 2017. (Reviewed submitted proposals)

Division H - Program Evaluation and Assessment. (2016). Volunteered at the exhibit booth to assist with schedule/paper searches and answered general questions for the annual meeting in Washington, DC. (Reviewed submitted proposals)

American Association for Teaching and Curriculum (AATC). (2013). AATC's annual conference, Chicago, Illinois, October 10-12th. (Reviewed submitted proposals)

Division J – Postsecondary Education: Faculty, Curriculum, and Teaching. (2013). *American Educational Research Association (AERA) Annual Meeting*, Philadelphia, PA, April 3-7th, 2014. (Reviewed submitted proposals)

Informal Learning Environments SIG. (2012). *American Educational Research Association (AERA) Annual Meeting*, San Francisco, CA, April 27-May 1, 2013. (Reviewed submitted proposals)

Division J – Postsecondary Education: Faculty, Curriculum, and Teaching. (2012). *American Educational Research Association (AERA) Annual Meeting*, San Francisco, CA, April 27-May 1, 2013. (Reviewed submitted proposals)

Journal for Research in Mathematics Education. (2011-2016). An official peer reviewed scholarly journal of the National Council of Teachers of Mathematics devoted to the interests of teachers of mathematics and mathematics education at all levels-preschool through adult. (Reviewer)

Current Issues in Education. (2010-2015). Peer reviewed scholarly journal aimed at advancing scholarly thought by publishing articles promoting dialogue, research, practice, and policy as well as developing a community of scholarship. (Reviewer)

Division J - Postsecondary Education/Section 4: Faculty, Curriculum, and Teaching (2011). *American Educational Research Association (AERA) Annual Meeting*, Vancouver, British Columbia, April 13-17th, 2012. (Reviewed submitted proposals)

Code of Ethics (2010). American Educational Research Association (AERA). (Reviewer)

Division J – Postsecondary Education: College Student Learning and Development (2010). *American Educational Research Association (AERA) Annual Meeting*, New Orleans, LA, April 8-12th, 2011. (Reviewed submitted proposals)

Division J – Postsecondary Education: College Student Access, Success, and Outcomes (2009). *American Educational Research Association (AERA) Annual Meeting*, Denver, CO, April 30th–May 4th, 2010. (Reviewed submitted proposals)

Division C – Curriculum and Instruction: Learning and instruction (2008). *American Educational Research Association (AERA) Annual Meeting*, San Diego, CA, April 13-17th, 2009. (Reviewed submitted proposals)

Ralph O. Mueller Best Paper Award (2007). *Educational Symposium for Research and Innovations (ESRI) Conference*, Washington, D.C., February 24th. (Reviewed submitted papers)

Regional/Multi-State Professional Organizations

Southwest Educational Research Association (SERA) (2018-present). Board Member at Large.

Southwest Educational Research Association (SERA) (2017-present). Coordinator of New Faculty Mentoring.

Mentor, Texas Academic Leadership Academy (TALA) (2023). Texas Council of Chief Academic Officers (TCCAO).

Southwest Educational Research Association (SERA) (2023). Session Chair: Multicultural Education Session.

Southwest Educational Research Association (SERA) (2019). Discussant: Higher Education Session.

SW-ASTE Conference (2013). SW-ASTE's 2013 annual conference, San Antonio, TX, October 4-5th. (Reviewed submitted proposals)

SW-ASTE Conference 2011-2012
(Member of the Local Organizing Conference Committee)

SW-ASTE Conference 2012
(Chair/Moderator of STEM conference session)

State-Level Professional Organizations

SUPERGirls SHINE Foundation. Board Member. 2018-2019

STEM Expert, Upward Bound Program 2018-2019
College of the Mainland, Texas City, TX.

Keynote Speaker for the STEM Conference for Middle School Girls 2016
College of the Mainland, Texas City, TX.

Project on Educator Effectiveness & Quality (PEEQ), Austin, TX 2011-2012
Texas Education Agency & University of Texas-Austin
(Selected to be a member of the statistical advisory team)

External Program Evaluations

Robotic Process Automation Career Training (RPACT) Project (2022-Present). National Science Foundation (NSF), Alexandria, VA. (Program Evaluator)

National 21st Century Community Learning Centers (CCLC) Grant (2014-Present). Department of Education, Washington, DC. (Senior Quantitative Program Evaluator)

Lead After School 21st CCLC Grant (2020-2022). Alaska Department of Education, Matanuska-Susitna Borough School District, Wasilla, AK. (Program Evaluator)

Turn the T.I.D.E. Program (2019-2022). National Oceanic and Atmospheric Administration (NOAA) B-WET Grant. Artist Boat, Galveston, TX. (Program Evaluator)

Cybersecurity for Education Grant (2017-2020). National Science Foundation (NSF), Alexandria, VA. (Program Evaluator)

Prairie Restoration 4th Grade Program (2018-2019). National Oceanic and Atmospheric Administration (NOAA) Grant. Artist Boat, Galveston, TX. (Program Evaluator)

STEAM Powered 7th Grade Program (2018-2019). National Oceanic and Atmospheric Administration (NOAA) Grant. Artist Boat, Galveston, TX. (Program Evaluator)

Energy Bus for Schools Leadership Program (2018). The Energy Bus, Houston, TX. (Program Evaluator)

ExxonMobil Bernard Harris Summer Science Camp (EMBHSSC) Program (2009-2017). The Harris Foundation, Houston, TX. (Program Evaluator)

Texas ACE 21st CCLC Cycle 7 Grant (2011-2016). Pasadena Independent School District. Pasadena, Texas. (Senior Quantitative Program Evaluator)

Texas ACE 21st CCLC Cycle 8 Grant (2013-2016). Pasadena Independent School District. Pasadena, Texas. (Senior Quantitative Program Evaluator)

STEM and Entrepreneurial Gaming Applications (2014-2015). National Science Foundation (NSF), Alexandria, VA. (Senior Researcher)

Small Business Innovation Research Program (SBIR, Aegis) (2014-2016). Defense Advanced Research Projects Agency (DARPA), Arlington, VA. (Co-Investigator/Senior Researcher)

Hogg Foundation's Bilingual Scholarship Program (2012). The Hogg Foundation, Austin, Texas. (Program Evaluator)

Center for Education and Human Services in Acquired Brain Injury (2008-2009). U.S. Department of Education (DoE) Grant for the Center for Education and Human Services. Washington, DC. (Senior Researcher)

Montgomery County Public Schools Teaching American History (2008-2009). U.S. Department of Education (DoE) Grant. Washington, DC. (Senior Researcher)

Workshops/In-Service Presentations

Peters, M. (2020, March). *Dissertation to article workshop*. College of Education. University of Houston-Clear Lake.

- Mittapalli, K., & Peters, M. (2018, June). *Evaluation methods: Approaches, tools, and techniques*. A 5-hour webinar provided to the state of Idaho's Office of Performance Evaluations. Fairfax, VA: MN Associates, Inc.
- Willis, J., & Peters, M. (2017, February). *Mentoring early career faculty: Opportunities for professional development and networking*. San Antonio, TX: 2017 annual meeting of the Southwest Association of Educational Research (SERA).
- Jones, R., & Peters, M. (2014, February). *How to Appropriately Conduct External Program Evaluations*. Houston, TX: 2014 ExxonMobil Bernard Harris Summer Science Camp Fall Forum, Houston, TX.
- Jones, R., & Peters, M. (2014, February). *Research and development teams: Promoting team work*. Houston, TX: 2014 ExxonMobil Bernard Harris Summer Science Camp Fall Forum, Houston, TX.
- Peters, M. (2012, April). *Survey construction using SurveyMonkey*. Houston, TX: UHCL Faculty Development.
- Peters, M., & Jones, R. (2011, February). *Short-term, electronic, and long-term program evaluations*. Houston, TX: 2011 ExxonMobil Bernard Harris Summer Science Camp Spring Forum, Houston, TX.
- Peters, M. (2009, March). *How to clean a large-scale database*. Washington, D.C.: American Chemical Society's Department of Member Research and Technology.
- Peters, M. (2007, October). *Quantitative data analysis with SPSS. Research Methods Workshops*. Washington, D.C.: The George Washington University.
- Peters, M. (2007, April). *Using SPSS in statistical analysis. Graduate Student Academic Success & Professional Development Series*. Washington, D.C.: The George Washington University.
- Peters, M. (2007, February). Making SPSS work for you. *Educational Symposium for Research and Innovations (ESRI) Conference*, Washington, D.C., February 24th.
- Peters, M. (2005-2007, August). *Graduate School of Education and Human Development's Research Lab*. New Doctoral Student Orientation. The George Washington University, Washington, D.C.

Expert Panels

- SUPERGirls SHINE Foundation (2018). Solicited to be the moderator of an expert panel on females in STEM. Washington, DC: The George Washington University.
- SUPERGirls SHINE Foundation (2018). Solicited to be a panelist of an expert panel on females in STEM. Houston, TX.

Education Innovation and Research (EIR) Program: Mid-Phase Grants (2018). Washington, D.C.: Department of Education. (Selected by the Department of Education to be a program evaluation reviewer)

Universiti Sains Malaysia, School of Educational Studies, Physics Education (2016). Member of an international panel of experts solicited to validate a new self-efficacy survey - *Learning Physics Self-Efficacy Survey*.

Science, Technology, Engineering, and Mathematics Centers of Academic Excellence (STEM-CAE) (2013). Houston, TX: The Harris Foundation. (Solicited to be a member of the STEM advisory team)

Project on Educator Effectiveness & Quality (PEEQ) (2011-2012). Austin, TX: Texas Education Agency & University of Texas-Austin. (Selected to be a member of the statistical advisory team)

Investing in Innovation Fund (i3) Grants (2012). Washington, D.C.: Department of Education. (Selected by the Department of Education to be a program evaluation reviewer for Investing in Innovation (i3) \$25 million scale-up grants)

Advancing Research on Youth Motivation in STEM Convening (2011). Boston, MA: Innovative Technology Experience for Students and Teachers (ITEST). (Selected to be a member of the advisory board on STEM education)

Investing in Innovation Fund (i3) Grants (2011). Washington, D.C.: Department of Education. (Selected by the Department of Education to be a program evaluation reviewer for Investing in Innovation (i3) \$15 million validation grants)

Role of the Federal Government in Public Education (2011). League of Women Voters United States Evaluation Survey Instrument. (Solicited to be a member of expert panel)

New Jersey's Best Practices Questionnaire (2011). New Brunswick, N.J.: Third Power Market Development, Inc. (Solicited to be a member of expert panel)

Data Analysis for Quantitative Educational and Behavioral Research (2010). New York, NY: Guilford Press. (Solicited as a member of an expert panel to edit and provide feedback on various chapters of this statistics textbook)

2010 ChemCensus Questionnaire (2009-2010). Washington, D.C.: American Chemical Society. (Solicited to be a member of expert panel)

Meta-analysis study - *Effects of teacher professional development in mathematics and science* (2008-2009). Washington, D.C.: The Council of Chief State School Officers (CCSSO). (Selected to be a member of expert panel)

Other Service (Research/Statistical Support)

Physicians' Hair Restoration Center. (2016-2019). *The effect of liposomal adenosine triphosphate (ATPv) on hair growth in grafts after microscopic hair follicular unit hair*

- restoration surgery*. A Food and Drug Administration (FDA) trial within subjects, experimental multi-center study. (Methodologist/Statistician)
- Hair Services Center for Colorado. (2012-2017). *FUE and strip harvest graft survival study*. A within subjects, experimental multi-center study. (Methodologist/Statistician)
- Mohebi Hair Restoration. (2015-2017). *Comparison of the quality and survival of grafts placed with implanter and forceps*. A within subjects, experimental multi-center study. (Methodologist/Statistician)
- Houston Hair Restoration Center. (2011-2014). *Pilot study on the effect of platelet rich plasma injections on hair growth in patients with female pattern hair loss*. A double blind, placebo-controlled experimental study. (Methodologist/Statistician)
- Hogg Foundation for Mental Health. (2013). *Evaluation summary report bilingual scholarship program for accredited schools of social work in Texas*. Austin, TX: Author.
- Commission on Professionals in Science and Technology. (2010). *Salaries of Scientists, Engineers and Technicians: Your Guide to Starting Salaries & Career Advancement* (23rd Edition). Washington, DC: Author.
- Wang, L. (2009). Working for Uncle Sam: The recession may lead more chemists to pursue careers as civil servants. *Chemical & Engineering News*, 87(44), 56-58 (November 02, 2009).
- Hansen, D. (2009). *Employment & Salary Survey: Salary gains and steady employment for chemists mark 2008 survey*. *Chemical & Engineering News*, 87(10), 36-40 (March 09, 2009).
- American Chemical Society. (2009). *Salaries Survey 2009: Analysis of the American Chemical Society's 2009 Comprehensive Salary and Employment Status Survey*. Washington, D.C.: Author.
- Council of Chief State School Officers. (2009). *Effects of teacher professional development on gains in student achievement: How meta-analysis provides scientific evidence useful to education leaders*. Washington, D.C.: Author.
- American Chemical Society. (2009). *Starting Salaries of Chemists and Chemical Engineers 2008. Analysis of the American Chemical Society's Survey of Graduates in Chemistry and Chemical Engineering*. Washington, D.C.: Author.
- American Chemical Society. (2008). *Salaries Survey 2008: Analysis of the American Chemical Society's 2008 Comprehensive Salary and Employment Status Survey*. Washington, D.C.: Author.
- Bell, N., DiFabio, N., & Frehill, L. (2008). Salary and Employment Status on Chemists. *CPST Comments*, Washington, DC: Commission on Professionals in Science and Technology.
- Bell, N., DiFabio, N., & Frehill, L. (2008). Starting Salaries for Chemistry Graduates. *CPST Comments*, 45(4), Washington, DC: Commission on Professionals in Science and Technology.

Heylin, M. (2008). Starting salaries: 2007 chemistry graduates entered a still relatively strong U.S. job market and did quite well. *Chemical & Engineering News*, 86(22), 52-26.

American Chemical Society. (2008). *Starting Salaries of Chemists and Chemical Engineers 2007. Analysis of the American Chemical Society's Survey of Graduates in Chemistry and Chemical Engineering*. Washington, D.C.: Author.

Kortecamp, K. (2008). *Conflict and Consensus: Key Moments in U.S. History. 9th Grade Student Attitudes and Knowledge of Primary Sources: A Summary Report February 21, 2008*. Montgomery County Public Schools Teaching American History Grant Evaluation. Department of Education Grant.

PROFESSIONAL AND ACADEMIC MEMBERSHIPS

American Educational Research Association (AERA)	2005-Present
Southwest Educational Research Association (SERA)	2011-Present
Southwest Association for Science Teacher Education (SW-ASTE)	2011-Present