

John J Weber III, PhD

School Address

Mathematics Department
Georgia State University Perimeter College
Clarkston, Georgia 30021
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EDUCATION

<i>Ph.D.</i> , Mathematics Education The University of Georgia, Athens, GA	December 2009
<i>M.A.</i> , Mathematics Education DePaul University, Chicago, IL	June 1996
<i>M.Ed.</i> , Cultural and Educational Policy Studies Loyola University of Chicago, Chicago, IL	May 1993
<i>B.A.</i> , Chemistry and Mathematics (dual degree) LaSalle University, Philadelphia, PA	May 1987

PROFESSIONAL EXPERIENCE

Georgia State University Perimeter College

Associate Professor

August 2018 – Present

Mathematics Department, Clarkston, GA

- Taught Introduction to Differential Equations; Calculus I, II, & III; Introduction to Statistics.
- Mentoring, *Engineering* student Danielle Scordo on her research using a Large Language Model (LLM) to answer a research question in Electrical Engineering, Summer 2023.
- Mentored, *Mathematics* student J'Avani Stinson on his research, *There's more math to Uno™ than just the name*, Fall 2022 – Spring 2023.
- Mentored, *Physics* student Meyer Taffel on his research using *Python* to design a large-scale 3D-printed Klein Bottle by automating the computation of angles between grid curves, Spring 2021.
- Member, Expedited Institutional Review Board, July 2016 – Present.
- Member, Mathematics Department Executive Committee, Spring 2022 – Present.
- Member, GSU PC Math OER Committee, Fall 2021 – Fall 2022.
- Member, GSU Faculty Senate, April 2021 – April 2022.
- Member, Senate Informational and Instructional Technology (IIT) Committee, April 2021 – April 2022.
- Member, Senate Faculty Affairs (FAC) Committee, April 2021 – April 2022.
- Worked on *Chevron-Perimeter College Summer Undergraduate Research Experience* (with Dr. Reddivari and Dr. Kim), Summer 2021.
- Worked on *Arduino Projects*, a \$2000 grant, (with Dr. Sahithya Reddivari) for Math 2212 and Math 2215.
- Co-Chair, MCSE Tenure and Promotion Peer Review Committee, Fall 2020.
- Member, MCSE Tenure and Promotion Peer Review Committee, Fall 2019-Spring 2020.

Georgia State University Perimeter College

Assistant Professor

January 2016 – July 2018

Mathematics Department, Clarkston, GA

- Taught Introduction to Differential Equations; Calculus II, & III; Introduction to Statistics.
- Chair, MCSE Tenure and Promotion Peer Review Committee, Fall 2018.
- Advisor, Clarkston Math Club, Fall 2016–Spring 2017.

Georgia Perimeter College

Assistant Professor; Tenured: August 2015

August 2012 – December 2015

Department of Mathematics, Computer Science, and Engineering [MCSE], Clarkston, GA

- Taught Introduction to Differential Equations, Calculus III, Calculus II, Honors Introduction to Statistics, Introduction to Statistics, College Algebra.
- Member, Faculty Awards Committee, Spring 2013.
- Chair, Clarkston MCSE Tenure and Promotion Peer Review Committee, Fall 2015.

Instructor; Tenure-Track

August 2009 – July 2012

Department of Mathematics, Computer Science, and Engineering, Clarkston, GA

- Taught Calculus II, Calculus I, Principles of Numbers and Operations, Precalculus, Honors Introduction to Statistics, Introduction to Statistics, College Algebra.
- Advisor, Louis Stokes Alliance for Minority Participation [LSAMP], August 2010–May 2012.

Adjunct Instructor

Spring 2006 – Fall 2007

Department of Mathematics, Computer Science, and Engineering, Conyers, GA and Clarkston, GA

- Taught Mathematics part-time while completing my doctoral research and dissertation.

Instructor; Tenure-Track

August 2003 – July 2005

Department of Mathematics, Computer Science, and Engineering, Lawrenceville, GA

- Taught Linear Algebra, Calculus III, Calculus I, Principles of Numbers and Operations, Precalculus, Introduction to Statistics, College Algebra, Mathematical Modeling.

Adjunct Instructor

January 2003 – July 2003

Department of Mathematics, Computer Science, and Engineering, Conyers, GA

PROFESSIONAL POSITIONS

- Reviewer, Applications for Council on Undergraduate Research's (CUR) Annual Posters on the Hill 2020, 6 December 2019.
- Secretary, Georgia Mathematical Association of Two-Year Colleges [GMATYC], February 2016 – February 2018.
- Judge, Consortium for the Advancement of Undergraduate Statistics Education [CAUSEweb] Monthly Cartoon Caption Contest, Summer 2016 – May 2018.
- Member, judging panel for A-*mu*-sing Song Contest, United States Conference on Teaching Statistics [USCOTS], May 2015, May 2017.
- Member, judging panel for non-songs fun contest, USCOTS, May 2017.

PUBLICATIONS

- Lesser, L.M., Pearl, D.K., Weber, J., Dousa, D., Carey, R., & Haddad, S. (9 October 2019). “Developing interactive educational songs for introductory statistics,” *Journal of Statistics Education*. Available: <https://www.tandfonline.com/doi/full/10.1080/10691898.2019.1677533>.
- Lesser, L.M., Pearl, D.K., & Weber, III, J.J. (18 May 2016). “Assessing fun items’ effectiveness in increasing learning of college introductory statistics students: Results of randomized experiments,” *Journal of Statistics Education*, 24(2), 54-62. Available: <http://tandfonline.com/doi/pdf/10.1080/10691898.2016.1190190?needAccess=true>.
- Lesser, L. M. & Weber, J. (2015). “Research, resources, and recommendations for using humor/fun in college mathematics and statistics courses: Lessons learned from survey research and NSF-funded randomized experiments and a case study.” In Abstracts of papers presented to the American Mathematical Society, 36(1), 354. Available: https://jointmathematicsmeetings.org/amsmtgs/2168_abstracts/1106-e5-1292.pdf.
- Lesser, L., Reyes, R., Pearl, D., Weber, J. (July 2014). “Preliminary Results of the Effects and Roles of Fun in Introductory Statistics Classes”. In K. Makar, B. de Sousa, & R. Gould (Eds.), *Sustainability in statistics education. Proceedings of the Ninth International Conference on Teaching Statistics (ICOTS9, July, 2014)*, Flagstaff, Arizona, USA. Voorburg, The Netherlands: International Statistical Institute. [iase-web.org \[©2014 ISI/IASE\]](http://icots.net/9/proceedings/pdfs/ICOTS9_P40_LesserPearlReyesWeber.pdf) http://icots.net/9/proceedings/pdfs/ICOTS9_P40_LesserPearlReyesWeber.pdf.
- Lesser, L.M., Wall, A.W., Carver, R.H., Pearl, D.K., Martin, N., Kuiper, S., Posner, M.A., Erickson, P., Liao, S., Albert, J., & Weber, III, J.J. (2013). “Using fun in the statistics classroom: An exploratory study of college instructors’ hesitations and motivations.” *Journal of Statistics Education*, 21(1). [On-line]. Available: <http://www.amstat.org/publications/jse/v21n1/lesser.pdf>.
- Weber, John J. III. (2009). *Post-secondary students’ conceptions of randomness and entropy* (Unpublished doctoral dissertation). The University of Georgia, Athens, GA. Available: https://getd.libs.uga.edu/pdfs/weber_john_j_200912_phd.pdf.

PRESENTATIONS

- Member, Panel of Past Grantees, *STAR Certificate Program*, 26 March 2021.
- Weber, J., Graves, M., & Reddivari, S. (19 February 2021), *Integrating 3D Printing into the Curriculum*, Faculty Development Day.
- Weber, J. (12 February 2021). *Designing an Interactive Webpage to Assist in Exploring Mathematical Concepts*. Perimeter College Mathematics Conference, Clarkston, GA.
- Weber, J. & Reddivari, S. (12 February 2021). *Building a Sense of Community Through Collaborative STEAM Based Community Art Projects*. Perimeter College Mathematics Conference, Clarkston, GA.
- D.K. Pearl, L.M. Lesser, & J.J. Weber. (18 May 2019). *Stats and Beyond: Using Song in STEM*. Poster presented at the United States Conference on Teaching Statistics. Available at: <https://www.causeweb.org/cause/uscots/uscots19/posters/2-01>.
- D. Pearl, J. Weber, & L. Lesser (12 April 2019). *Interactive Song Activities for Introductory Statistics*, Poster, A National Convening on the Integration of Arts, Humanities, and STEMM in Higher Education, National Academy of Sciences, Washington, DC.

- D.K. Pearl, L. M. Lesser, & J.J. Weber (February 2019). *Web-based interactive song activities for intro statistics*, Poster, III International Virtual Congress on Statistical Education. Available: https://www.ugr.es/~fqm126/civeest/posters/pearl_pos.pdf.
- Pearl, D., Lesser, L., & Weber, J. (May 2018). *Student-Made Interactive Learning with Educational Songs (SMILES)*. Workshop to be presented at the Electronic Conference on Teaching Statistics.
- Weber, J., Pearl, D., & Lesser, L. (17 March 2018). *Using interactive songs to increase student engagement and learning in statistics*. Presentation at the International Conference on Technology in Collegiate Mathematics, Washington, DC.
- Weber, III, John J. (16 February 2018). *Improving student metacognition*. Presentation at the 31st Annual Mathematics Conference – Perimeter College at Georgia State University, Clarkston, GA.
- Weber, J., Pearl, D., & Lesser, L. (11 January 2018). *Project SMILES: Student-Made Interactive Learning with Educational Songs*. Poster presented at the MAA and NSF joint poster session for holders of NSF DUE awards in the mathematical sciences, Joint Mathematics Meetings, San Diego, CA.
- Weber, J. (9 November 2017). *Using web-based interactive songs to help students learn statistics*. Presentation at the American Mathematical Association of Two-Year Colleges Conference, San Diego, CA.
- Pearl, D., Lesser, L., Weber, J., & Dousa, D. (28 October 2017). *A web-based interface to support interactive songs: Helping college students learn STEM*. Presentation at the Joint meeting of the Association for Technology in Music Instruction and The College Music Society, San Antonio, TX.
- Weber, J. (20 October 2017). *Web-based interactive song activities for introductory statistics*. Presentation at the Innovation in Teaching Conference, Athens, GA.
- Weber, J. (13 October 2017). *Interactive Songs: Results from a Pilot Study*. Presentation at the Annual Conference of the Two-Year College Association of Georgia, Clarkston, GA.
- Weber, J. (29 September 2017). *Educational Research and Human Subjects Research [IRB]*. Invited talk presented at “Brown Bag Lunch” for Mathematics Department at Perimeter College’s Decatur Campus, Decatur, GA.
- Pearl, D. & Weber, J. (28 September 2017). *Demonstrating an interactive song for learning introductory statistics*. Video poster presented at the Virtual Ongoing Interdisciplinary Conferences on Educating with Song, [On-line]. <https://www.causeweb.org/voices/2017/poster/8>.
- Weber, J., Lesser, L., & Pearl, D.K. (19 May 2017). *Project SMILES: Student-Made Interactive Learning with Educational Songs in introductory statistics*. Poster presented at the 7th United States Conference on Teaching Statistics, Pennsylvania State University, State College, PA.
- Weber, J., Crawford, T., & Mull, B. (6 May 2017). *Constructing a working model of algae skimmer using 3D-printed parts*. Presentation at the Construct3D Conference, Durham, NC.
- Weber III, J.J. (31 March 2017). *Measuring student engagement during inquiry-based learning*. Presentation at the SoTL Commons Conference, Savannah, GA.
- Weber, J.J., Lesser, L., & Pearl, D.K. (11 March 2017). *Project SMILES: Student-made Interactive Learning with Educational Songs in statistics*. Poster presentation at the International Conference on Technology in Collegiate Mathematics, Chicago, IL.
- Weber, J.J., Lesser, L., & Pearl, D.K. (11 March 2017). *Using interactive songs to engage students in learning introductory statistics: Overview of NSF-funded project*. Presentation at the International Conference on Technology in Collegiate Mathematics, Chicago, IL.

- Weber III, J.J. (March 2017). *Exploring authentic examples of mathematical connections*. Invited Keynote presentation at the 'It All Adds Up: New Strategies for Math & Stats Education' Workshop, San Diego, CA.
- Weber III, J.J. (March 2017). *Using interactive songs to engage students in learning introductory statistics: Overview of NSF-funded project*. Presentation at the Teaching Matters Conference, Barnesville, GA.
- Weber III, J.J. (February 2017). *Exploring authentic examples of mathematical connections*. Invited Keynote presentation at the 30th Annual Mathematics Conference – Perimeter College at Georgia State University, Clarkston, GA.
- Weber III, J.J. (February 2017). *Using interactive songs to engage students in learning introductory statistics: Overview of NSF-funded project*. Presentation at the 30th Annual Mathematics Conference-Perimeter College at Georgia State University, Clarkston, GA.
- Weber, J. (February 2017). *Using statistical methods for SoTL research*. Presentation at the Center for Teaching and Learning Perimeter College SoTL Retreat, Clarkston, GA.
- Weber, J., Pearl, D.K., & Lesser, L. (January 2017). *Using interactive songs to engage students in learning introductory statistics: Overview of NSF-funded project*. Contributed paper at MAA Session on Humor and Mathematics. Presented at the Joint Mathematics Meetings, Atlanta, GA.
- Weber, J., Pearl, D.K., & Lesser, L. (January 2017). *Project SMILES: Student-Made Interactive Learning with Educational Songs*. Poster presented at the MAA and NSF joint poster session for holders of NSF DUE awards in the mathematical sciences, Joint Mathematics Meetings, Atlanta, GA.
- Weber, J.J., Lesser, L., & Pearl, D.K. (November 2016). *Project SMILES: Student-made Interactive Learning with Educational Songs in statistics*. Poster presented at the American Mathematical Association of Two-Year Colleges Annual Conference, Denver, CO.
- Weber, J. & Moges, M. (November 2016). *Supporting students in an innovation challenge competition*. Presentation at Faculty Development Day, Covington, GA.
- Weber, J. (October 2016). *Engaging students through interactive songs*. Presentation at the Two-Year College Association of Georgia Conference, Clarkston, GA.
- Crawford, T., Fongang, V., Koudonou, A., Moges, M., Mull, B., Breaux, D., Weber, J. (June 2016). *Project ATLAS: Autonomous Technology Lake Algae Skimmer*. Poster presented at the Community College Innovation Challenge, Washington, DC.
- Oh, Hyen, Pearl, D., Lesser, L. & Weber, J. (May 2016). *Gender differences in statistical anxiety*. Archived poster presentation at the 3rd Electronic Conference on Teaching Statistics [On-line]. <https://www.causeweb.org/cause/ecots/ecots16/posters/a/9>.
- Weber, J. (15 April 2016). *The inquiry-based mathematics classroom: Engaging students in active learning*. Presentation at Georgia State University's 6th Annual Conference on Scholarly Teaching, Atlanta, GA.
- Weber, J. (27 March 2016). *Developing Problems for Problem-Based Learning*. Presentation at the Scholarship of Teaching and Learning (SoTL) Commons Conference, Savannah, GA.
- Weber, J. (11 March 2016). *Engaging DiffEq students in solving IVPs using 'Rstudio' and 'knitr'*. Presentation at the International Conference on Technology in Collegiate Mathematics, Atlanta, GA.
- Weber, J. (27 February 2016). *Lessons learned from using problem-based learning in mathematics*. Presentation at the Georgia Perimeter College's Part-Time Instructor Symposium, Clarkston, GA.
- Weber, J. (23 February 2016). *Developing problems for problem-based learning*. Presentation at the GPC Faculty Development Day, Clarkston, GA.

- Weber, III, J.J. (19 November 2015). *Engaging DiffEq students in solving IVPs using ‘Rstudio’ and ‘knitr’*. Presentation at the 41st American Mathematical Association of Two-Year Colleges Annual Conference, New Orleans, LA.
- Weber, III, J.J. & Thrall, S. (20 November 2015). *The effects of using big data sets in Introductory Statistics*. Presentation at the 41st American Mathematical Association of Two-Year Colleges Annual Conference, New Orleans, LA.
- Weber, J. (3 April 2015). *How and why to use fun in the classroom: What the research shows*. Presentation at the STEM Teacher-2-Teacher Workshop, Covington, GA.
- Thrall, S. & Weber, J.J., (21 March 2015). *The advantages of using ‘StatCrunch’ to teach exploratory data analysis in Introduction to Statistics*. Presentation at the GPC Teaching and Technology Conference, Clarkston, GA.
- Weber, J., (13 February 2015). *Report on data analysis for Project UPLIFT: Universal Portability of Learning Increased by Fun Teaching*. Presentation at the Georgia Perimeter Mathematics Conference, Covington, GA.
- Weber, J. & Lesser, L.M. (January 2015). *Research, resources, and recommendations for using humor/fun in college mathematics/statistics courses: Lessons learned from survey research and NSF-funded randomized experiments and a case study*. Presentation at the Joint Mathematics Meetings, San Antonio, TX.
- Weber, J., Lesser, L.M., Pearl, D.K. (January 2015). *Project UPLIFT: Universal Portability of Learning Increased by Fun Teaching*. Poster presented at the MAA Poster Session on Projects Supported by the NSF Division of Undergraduate Education, Joint Mathematics Meeting, San Antonio, TX.
- Weber, J. (7 October 2014). *Resources for using ‘fun’ in the statistics classroom*. Presentation at the GPC Faculty Development Day, Clarkston, GA.
- Weber, J. (12 September 2014). *What the research says: Fun in the classroom*. Invited talk presented at the Teaching Statistics Workshop and Symposium, Atlanta, GA.
- Lesser, L.M., Pearl, D.K., Reyes, R., Weber, J. (July 2014). *Preliminary results of the effects and roles of fun in introductory statistics classes*. Poster presented at the 9th Biannual International Conference on Teaching Statistics, Flagstaff, AZ.
- Lesser, L.M., Pearl, D.K., Reyes, R., Weber, J. (May 2014). *Bridging the disciplines with fun: Resources and research*. Presented at the *2nd Electronic Conference on Teaching Statistics*, [On-line].

WORKSHOPS

- Pearl, D.K., Lesser, L., & Weber, J. (May 2018). *Student-made interactive learning with educational songs (SMILES)*. Workshop presented at the Electronic Conference on Teaching Statistics [online]. <https://www.causeweb.org/cause/ecots/ecots18/workshops/2>.
- Pearl, D.K., Lesser, L., & Weber, J. (May 2017). *Show me how to use interactive statistics songs!* Workshop presented at the 7th Annual United States Conference on Teaching Statistics, State College, PA. <https://www.causeweb.org/cause/usots/usots17/workshop/8>.
- Weber, J., Pearl, D.K., & Lesser, L. (28-30 May 2015). *Fun in statistics class: A vehicle for students to make connections*. Workshop presented at the Sixth Annual US Conference on Teaching Statistics, State College, PA.

WORKSHOPS/WEBINARS ATTENDED

- *ChatGPT: Moving from Perils to Potentials*, MAA Webinar, 23 May 2023.
- *Scientific Communication Advances Research Excellence (SCOARE) workshop*, GSU, 22-23 May 2023.
- *Scientific Communication Advances Research Excellence (SCOARE) workshop* on working with neurodiverse mentees, GSU, 23 May 2023.
- *Introduction to Machine Learning*, Wolfram U, 18 May 2023.
- *Learning about LLMs Webinar Series*, Wolfram U, 3, 10, 17, 24 May 2023.
- *How to Use Assessment for Learning in Classroom Practice*, CETLOE Workshop, 9 May 2023.
- *QPR Suicide Prevention Training* (sponsored by University System of Georgia's Mental Health Initiative), 14 December 2022.
- *Mental Health First Aid Training* (sponsored by University System of Georgia's Mental Health Initiative), 11 November 2022.
- *Northeastern Conference on Research in Undergraduate Mathematics Education [RE-RUME]*, Online, 15 October 2022.
- *Gradescope for Multiple Choice Workshop*, 17 August 2022.
- *Gradescope for Online and Hybrid Teaching Workshop*, 15 August 2022.
- *The Wolfram Language: Programming Fundamentals Webinar*, 11 August 2022.
- *Gradescope in D2L Workshop*, 10 August 2022.
- *Gradescope for Existing Users Workshop*, 9 August 2022.
- *Gradescope for Computer Science Workshop*, 8 August 2022.
- *Gradescope for In-Person Teaching Workshop*, 3 August 2022.
- *Regular and Substantive Interaction Training*, GSU CETL, 8 July 2022.
- *Mini-workshop #3: Inclusivity in Introductory STEM courses*, 11 May 2022.
- *Mini-workshop #2: Inclusivity in Introductory STEM courses*, 19 April 2022.
- *Mini-workshop #1: Inclusivity in Introductory STEM courses*, 21 March 2022.
- *Health Literacy Resources to Strengthen Your Human Research Protection Program*, AAHRPP Webinar Training (required for IRB Members), 9 December 2021.
- *So, You Caught Your Student Cheating ... Now what? The Academic Dishonesty Charge and Appeal Process from the Instructor's Perspective*, Office of Faculty Affairs Webinar Series, 30 November 2021.
- *Virtual Northeastern Research in Undergraduate Mathematics Education Conference (NE-RUME)*, 20 November 2021.
- *Medical Device Clinical Trials for IRB Members*, MedTrials Training (required for IRB Members), 18 November 2021.
- *Help Students Effectively Learn from Videos*, Pearson Webinar, 9 November 2021.
- *Active Learning with Data and Spreadsheets*, WileyPLUS Webinar, 20 October 2021.
- *Put on Your Hard Hat: Let's Deconstruct Calculus!*, Fall 2021 MAA Virtual Programming, 27 September 2021 and 11 October, 2021.
- *TILT: Using Transparent Methods to Promote Student Learning and Success Webinar*, GSU CETL, 8 October, 2021.
- *Open Forum on Difficult Classroom Conversations*, Office of Faculty Affairs Webinar, 18 August 2021.
- *Transformational Practices to Incorporate Active Learning in Mathematics Courses*, AM-ATYC Webinar, 25 May 2021.

- *OHRP Training: Independent Review of Research*, (required for IRB Members), 15 February 2021.
- *Mastery-Based Grading*, Webinar, 14 December 2020.
- *AMATYC Virtual Conference*, 6, 13, 20 November 2020.
- *Advocating for Students of Color*, Webinars, 16 October 2020; 13 November 2020; and 11 December 2020.
- *Mysteries of Accessibility: Creating Accessible Course Content*, Hawkes Learning's Workshop Series, 30 November 2020 & 11 December 2020.
- *Virtual Northeast Research in Undergraduate Math Education Conference (NE-RUME)*, 5 October 2020.
- *Pandemic Pause: Reflections on HRPP Responses to the COVID-19 Pandemic* (as part of IRB Member), 28 July 2020.
- *Teaching Math Online: Examples from Differential Equations and Multivariable Calculus*, MAA Webinar, 23 July 2020.
- *Teaching Online Upper Level Mathematics Courses*, MAA Webinar, 22 July 2020.
- *Incorporating Art into Mathematics Courses*, Hawkes Learning's webinar, 22 July 2020.
- *An Introduction to (Online) Inquiry-Based Learning*, MAA Webinar, 21 July 2020.
- *LibreFest 2020! LibreText's Summer Workshop*, 16-17 July 2020.
- *Keys to Success on Distance Learning with Tinkercad & Fusion 360*, Construct3D webinar, 9 July 2020.
- *Hybrid Instruction for Hands-On Classes Redux*, Construct3D webinar, 8 July 2020.
- *Active Learning at a Distance with Tinkercad*, Construct3D webinar, 7 July 2020.
- *Hybrid Instruction for Hands-On Classes*, Construct3D webinar, 30 June 2020.
- *Mastery Grading Online Conference*, 5 June 2020.
- *Mindful Course Design for Student Success*, NISOD webinar, 14 May 2020.
- *Meaningful Metrics: How HRPPs Can Use Their Data Effectively*, PRIM&R Webinar (required for IRB Expedited Board members), 23 April 2020.
- *COVID19 Training for IRB Expedited Panel Members*, 23 April 2020.
- *CalcPlot3D Workshop* (funded in part by NSF Grant No. 1523786 and 1524968), Pittsburg, PA, 12-14 June 2019.
- *Faculty Entrepreneurship and Innovation Workshop – Problem-Based Learning Track*, GSU Office of the Provost, Atlanta, GA, 14-18 May 2018.
- *Teaching Modeling First Differential Equations - Building Community in SIMIODE [Systemic Initiative for Modeling Investigations and Opportunities with Differential Equations]*, MAA Minicourse, MathFest, Columbus, OH, 4-6 August 2017.
- *Council for Undergraduate Research [CUR] pre-conference workshop*, International Society for Scholarship of Teaching and Learning [ISSoTL] Annual Conference, Los Angeles, CA, October 2016.
- *Ximera Workshop 3*, Columbus, OH, 24-28 July 2016.
- *Writing Across the Curriculum Workshop*, GSU CETL, 10-11 May 2016.
- *Designing and Implementing a Problem Based Mathematics Course*, MAA Minicourse, Joint Mathematics Meetings, 6-9 January 2016.
- *Directing Undergraduate Research*, MAA Minicourse, Joint Mathematics Meetings, 6-9 January 2016.
- *Moving Your SoTL Projects Forward*, Pre-Conference Workshop, Research on Teaching and Learning Summit, Kennesaw State University, 2 October 2015.
- *A Dynamical Systems Approach to the Differential Equations Course*, MAA Minicourse, Joint Mathematics Meetings, January 2015.

- *Teaching Modeling-Based Calculus Workshop*, sponsored by CAUSE – The Consortium for the Advancement of Undergraduate Statistics Education, Joint Mathematics Meetings, 3 January 2012.
- *Attended the International STEM Research Symposium: Quantitative Reasoning in Mathematics & Science Education*, 31 May 2012 – 2 June 2012.
- *Getting Students Involved in Undergraduate Research*, Minicourse sponsored by The Mathematics Association of America, Joint Mathematics Meetings, 4-7 January 2012.
- *Problem-Based Learning*, Workshop sponsored by Project Kaleidoscope, 30 March 2012.
- *Leading Undergraduate Research Programs*, Workshop sponsored by USG Office for Faculty Development, 20 April 2012.
- *Facilitating Student Projects in Elementary Statistics*, Workshop at USCOTS, 17-19 May 2011.
- *Teaching Introductory Statistics following GAISE [Guidelines for Assessment and Instruction in Statistics Education] and the Common Core*, Workshop, 5 January 2011.

RESEARCH INTERESTS

Georgia State University

- **Chevron-Perimeter College Summer Undergraduate Research Experience**

Overview: Co-developed this program with Dr. Sahithya Reddivari and Dr. Andrew Kim. This Project designed as an eight-week undergraduate research experience for Perimeter College students for Summer 2021 semester.

National Science Foundation Research Grants

- **Collaborative Research Project SMILES: Student-Made Interactive Learning with Educational Songs for Introductory Statistics**

NSF Division of Undergraduate Education (DUE) EAGER (Early-concept Grants for Exploratory Research) grant

15 September 2015 to 31 August 2020

PSU (1544426); UTEP (1544237); GSU (1544243)

Abstract: See <http://www.jjw3.com/fun.htm#smiles>.

- **Collaborative Research Project UPLIFT: Universal Portability of Learning Increased by Fun Teaching**

NSF Division of Undergraduate Education (DUE) TUES (Transforming Undergraduate Education in Science) Type 1 grant

15 August 2012 to 15 August 2016

OSU (1141261); PSU(1519554); UTEP (1140690); GPC (1140592)

Abstract: See <http://www.jjw3.com/fun.htm#uplift>.

Scholarship of Teaching and Learning [SoTL] Research

- **University System of Georgia Cohort, May 2017 – May 2018**
Motivations and Hesitations of Students Engaging in Project-Based Learning

- **Georgia State University CETL Faculty Teaching Fellowship, June 2016 – June 2017**
Measuring Student Engagement during Inquiry-Based Learning
- **Georgia Perimeter College SoTL Cohort, August 2015 – May 2016**
Engaging Mathematics Students in Project-Based Learning

MEMBERSHIPS

- Mathematical Association of America (MAA), 2004–date.
- RUME SIGMAA (Special Interest Group MAA for Research in Undergraduate Mathematics Education), June 2015–date.
- IBL SIGMAA (Special Interest Group MAA for Inquiry-Based Learning), February 2016–date.
- UR SIGMAA (Special Interest Group MAA for Undergraduate Research), February 2017–date.
- National Council for Teachers of Mathematics (NCTM), 2004–2016.
- American Mathematical Society (AMS), 2010–date.
- American Mathematical Association of Two-Year Colleges (AMATYC), 2010–date.
- Georgia Mathematical Association of Two-Year Colleges (GMATYC), 2010–date.
- National Institute for Staff and Organizational Development, May 2017–December 2017.
- Association for Technology in Music Instruction, May 2017–December 2017.
- International Society for the Scholarship of Teaching & Learning, September 2016–September 2017.
- Council for Undergraduate Research, December 2018–date.

HONORS/AWARDS

- Lesser, L., Pearl, D., & Weber, J. (November 10, 2022). Honorable Mention – Film: Student-Made Interactive Learning with Education songs (in introductory statistics). *2022 STEM Art and Film Festival Winners*.
<https://www.sigmaxi.org/news/article/2022/11/10/2022-stem-art-and-film-festival-winners>.
- Lesser, L., Pearl, D., & Weber, J. (May 3, 2019). Grand Prize: Student-Made Interactive Learning with Education songs (in introductory statistics). *2019 NSF We Are Mathematics Video Competition*.
<https://wearemathematics2019.skild.com/skild2/wearemathematics2019/loginPage.action>.
- Faculty Professional Development Award, Georgia State University Perimeter College, 2018
- Excellence Award for Excellence in Teaching, National Institute for Staff and Organizational Development, 2017
- Faculty Teaching Excellence Award, Georgia State University Perimeter College, 2016
- Who's Who Among Teachers in American Universities and Colleges, 2005
- Phi Kappa Phi Honor Society, 1996
- Alpha Epsilon Alumni Honor Society, 1987
- Who's Who Among Students in American Universities and Colleges, 1987