

John J Weber III, PhD

School Address

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

Ph.D., Mathematics Education
The University of Georgia, Athens, GA December 2009

M.A., Mathematics Education
DePaul University, Chicago, IL June 1996

M.Ed., Cultural and Educational Policy Studies
Loyola University of Chicago, Chicago, IL May 1993

B.A., Chemistry and Mathematics (dual degree)
LaSalle University, Philadelphia, PA May 1987

PROFESSIONAL EXPERIENCE

Georgia State University Perimeter College

Professor

August 2024 – Present

Mathematics Department, Clarkston, GA

- Taught Introduction to Differential Equations; Calculus II, & III.
- Faculty Advisor, National Society of Black Engineers (NSBE) 2025 Conference – *GSU* cohort, Chicago, IL, 5–9 March 2025.

Perimeter College Hub for Innovation and Entrepreneurship (PCHIE), Clarkston, Ga

- *Faculty Associate for Entrepreneurship*, November 2023 – to date.

Georgia State University, Atlanta, Ga

- Member, *GSU IRB Expedited Board*, 2018 – to date.

Georgia State University Perimeter College

Associate Professor

August 2018 – July 2024

Mathematics Department, Clarkston, GA

- Mentoring – Undergraduate Research
 - *Engineering* student Danielle Scordo, *Training LLMs to identify and describe waveform disturbances in power systems*, Summer 2023 – Fall 2023.
 - *Engineering* student Laura Smith, *Optimizing laser diode efficiency*, Fall 2023.
 - *Mathematics* student J'Avani Stinson, *There's more math to Uno™ than just the name*, Fall 2022 – Spring 2023.
 - *Physics* student Meyer Taffel, using *Python* to design a large-scale 3D-printed Klein Bottle by automating the computation of angles between grid curves, May 2021.

- Faculty Advisor, National Society of Black Engineers (NSBE) 2024 Conference – *GSU* cohort, Atlanta, GA, 20–24 March 2024.
- Faculty Advisor, Society of Women Engineers (SWE) 2023 National Conference – *GSU* cohort, Los Angeles, CA, 26–28 October 2023.
- Developed on *Chevron-Perimeter College Summer Undergraduate Research Experience* (with Dr. Reddivari and Dr. Kim), Summer 2021.
- Taught Introduction to Differential Equations; Calculus I, II, & III; Introduction to Statistics.
- Member, Mathematics Department Executive Committee, Spring 2022 – to date.
- Member, GSU PC Math OER Committee, Fall 2021 – to date.
- 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.
- 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

- Judge, Four (4) student submissions to the *Georgia State University Research Conference*, 8 April 2025
- *AMATYC* Southeast Delegate, 2023–2024
- Judge, Four (4) student submissions to the *Georgia State University Research Conference*, 23 April 2020
- 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

- Lester, C. & Weber, J., (10 October 2025). [Submitted] “Work-In-Progress: Advancing Success Beyond the Classroom: Creating a Model for Innovation and Entrepreneurship,” *American Association for Engineering Education Annual Conference & Exposition*.
- 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*.
- 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.
- 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.
- 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]
- 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).
- 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

- Weber, J. & Scordo, D. (13 October 2023), *Leveraging Large Language Models for Enhanced Student Engagement and Research in a Two-Year College Setting*, Faculty Development Day.
- 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 STEM 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.
- 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/uscots/uscots17/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

- *Identifying and Assisting Students in Distress* Workshop, GSU, 3 October 2024.
- *IRB AI* Workshop, 10 September 2024.
- *Scientific Communication Advances Research Excellence (SCOARE) Facilitator Training*, Summer 2024.
- *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*, AMATYC 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

- American Mathematical Association of Two-Year Colleges (AMATYC), 2010 – to date.
- Mathematical Association of America (MAA), 2004 – February 2025.
- RUME SIGMAA (Special Interest Group MAA for Research in Undergraduate Mathematics Education), June 2015 – February 2025.
- IBL SIGMAA (Special Interest Group MAA for Inquiry-Based Learning), February 2016 – February 2025.
- UR SIGMAA (Special Interest Group MAA for Undergraduate Research), February 2017 – February 2025.
- American Mathematical Society (AMS), 2010 – 2024.
- National Society of Black Engineers (NSBE), 2023 – 2025.
- Georgia Mathematical Association of Two-Year Colleges (GMATYC), 2010 – Lifetime Membership.
- Council for Undergraduate Research, December 2018 – August 2024.

HONORS/AWARDS

- *Advanced Math Teaching Award*, Georgia State University Perimeter College Mathematics, Computer Science, and Engineering Discipline, 2024
- 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

COMPUTER SKILLS

Experienced in *Mathematica*, \LaTeX , *R*, *RStudio*.

Some experience with *Matlab*, *Octave*, *Python*, *Sagemath*, *C*, *XimeraLatex*.