

Tanya King Kunberger, Ph.D., P.E.

Professor and Chair, Department of Environmental and Civil Engineering
U. A. Whitaker College of Engineering, Florida Gulf Coast University
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Education

North Carolina State University

Doctorate, Civil Engineering (Geoenvironmental) 2007
Thesis: "Remediation of Soil – Sorbed Cesium Through the Process of Clay Fines Dispersion and Piping"
Advisor: M. A. Gabr (Civil, Construction, and Environmental Engineering)
Co-Advisor: Dean Hesterberg (Soil Science)

Master of Science, Civil Engineering (Geoenvironmental) 2001
Thesis: "Temperature Effect on Desorption Kinetics of Benzene on Various Soils"
Advisor: M. A. Gabr (Civil, Construction, and Environmental Engineering)
Minor: Soil Science

Georgia Institute of Technology

Bachelor of Civil Engineering 1999
Graduated *Cum Laude*, Cooperative Plan (Successful completion of 6 terms), Certificate in Geochemistry

Academic Affiliations

Florida Gulf Coast University

Chair, Department of Environmental and Civil Engineering 2019 – present
Professor, Department of Environmental and Civil Engineering 2018 – present
Associate Professor, Department of Environmental and Civil Engineering 2013 – 2018
Assistant Professor, Department of Environmental and Civil Engineering 2007 – 2013

- Founding faculty member of U. A. Whitaker College of Engineering

North Carolina State University

Graduate Teaching Assistant 1999 – 2007

- Instructed Engineering Behavior of Soils and Foundations Class (Jr – Sr level engineering course required in CE curriculum)
- Instructed Introductory Geotechnical Engineering Laboratory Class
- Instructed Graduate Level Geotechnical Engineering Laboratory Class

Courses Taught

Florida Gulf Coast University (Fall 2007 – Spring 2021)

EGS 1006L Introduction to the Engineering Profession (10 semesters)
EGS 1006L Honors: Introduction to the Engineering Profession (3 semesters)
EGN 1041C Problem Solving and Design for Engineers (2 semesters)
EGM 3420C Engineering Mechanics (6 semesters)

EGN 3331C	Mechanics of Materials (5 semesters)
EGN 4930	ST: Data Science & Engineering Systems Analysis (1 semester)
ENV 3006C	Fundamentals of Environmental Engineering (1 semester)
ENV 4351C	Solid Waste Management (1 semester)
CWR 3201C	Engineering Fluid Mechanics (2 semesters)
CEG 3011C	Geotechnical Engineering I (14 semesters, 25 sections)
CEG 4012C	Geotechnical Engineering II (13 semesters, 19 sections)

North Carolina State University (while pursuing graduate degrees)

CE 342	Engineering Behavior of Soils and Foundations (4 semesters)
CE 342L	Engineering Behavior of Soils and Foundations Lab (5 semesters)
CE 548	Engineering Properties of Soils I (Lab portion) (1 semester)

Research and Professional Experience

Research Activities

Florida Gulf Coast University (Assistant / Associate / Full Professor)

- Impact of the revision of a first-year introductory course on student information literacy skills and longitudinal comparison of information literacy skills development in undergraduate students
- Analysis of impact of various cohort activities and interventions on student persistence and success in engineering.
- Collaboration with fellow faculty members and local industry on the potential for shallow well geothermal ground source cooling on barrier islands in South Florida.
- Collaboration with fellow faculty members on the impact of soil relative density on the calibration of soil moisture sensors using various Southwest Florida soils.
- Investigation of the effect of individualized semester projects on developing experts to facilitate discussions and cultivate professionals proficient in life-long learning and assessing the impact of these projects on student self-efficacy.
- Collaboration with fellow faculty members on pedagogical approaches in engineering education.
- Collaboration with faculty in the college of engineering regarding the implication of early exposure to engineering concepts to the future pursuit of engineering studies.

North Carolina State University (Graduate Research Assistant)

- Conducted laboratory research and modeling in the area of contamination remediation through the process of clay fines dispersion and piping.
- Performed lab research in the area of temperature effects of desorption kinetics of benzene on various soils.
- Executed lab research in the area of site characterization of subsurface environment and existing contaminant concentrations.
- Supervised and assisted with the development of computer-controlled laboratory programs to remotely control and monitor basic geotechnical tests.
- Performed laboratory analysis of traditional geotechnical soil properties, specific surface area, cation exchange capacity, and X-ray diffraction analysis for various soils.
- Collaborated on the installation and monitoring of full-scale in-situ remediation technique of Well Injection Depth Extraction (WIDE) system developed by Dr. Mo Gabr. The project was located at former Lockbourne Air Force Base and funded by USACE and DOE.
- Conducted monitoring and modeling of a full-scale WIDE system located at and funded by Battelle Laboratories.

- Performed monitoring and modeling of an additional secondary full-scale WIDE system located at former Lockbourne Air Force Base.

Professional Activities

Georgia Department of Transportation (Civil Engineering Co-op)

- Performed basic design of bridges
- Performed preliminary design of I-75 widening in south Georgia
- Gathered information and performed preliminary bridge scour evaluations
- Monitored construction / maintained field office of Kennedy Interchange Project (multi-million dollar road construction project in metro Atlanta)
- Performed additions / corrections to environment / location plans
- Monitored Georgia House and Senate for proposed legislation affecting DOT

North Carolina Department of Transportation (Transportation Engineer I)

- Performed foundation design and analysis for transportation structures

Certifications and Professional Affiliations

- Professional Engineer (*FL# PE82366*)
- Engineer in Training (*GA# EIT022889*)
- Order of the Engineer
- Member American Society for Engineering Education (ASEE)
- Member American Society of Civil Engineers (ASCE)
- Member United States University Council on Geotechnical Education and Research (USUCGER)
- Member International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE)
- Whitaker Center for Science, Technology, Engineering, and Mathematics (STEM) Education Associate
- Everglades Wetland Research Park Affiliate

Grants

External Grants (including only those awarded and under review) [total awarded = \$1,920,390]

1. **T. Kunberger (PI)**, “Equipment Enhancement for Civil Engineering Program,” *Edwin J. Beccue Memorial Foundation Trust*, (\$50,000), 1/14/2021 – 12/31/2021.
2. L. Frost (PI), S. Cooper, B. Johnson, K. Johnson, D. Kratt, and **T. Kunberger (sr. per.)**, “Giving back and looking forward: enhancing and diversifying STEM teaching in Southwest Florida through recruitment and mentorship of homegrown talent,” *National Science Foundation*, (\$945,015), 5/1/2016 – 4/30/2021.
3. **T. Kunberger (PI)** and J. Cuiffi, “Creating Learning Experiences and Addressing Needs of Watersheds and Aquifers Through Entrepreneurial Research (CLEAN WATER),” *Environmental Protection Agency*, (\$121,573), 4/1/2016 – 8/31/2019.
4. L. Frost (PI), **T. Kunberger (co-PI)**, L. Serro, B. Johnson, T. Huffman, and A. Meyer, “SPARCT: STEM Professional Academy for Reinvigorating the Culture of Teaching,” *National Science Foundation*, (\$245,240), 9/15/2013 – 12/31/2017.
5. **T. Kunberger (PI)** and C. Geiger, “Scholarships to Encourage the Next Generation of Innovative iNtelligent Engaged Engineers to Reach Success (ENGINEERS) Program,” *National Science Foundation*, (\$558,562), 7/1/2013 – 6/30/2020.

Internal Grants (including only those awarded) [total awarded = \$75,736.05]

1. S. Tsegaye (PI), **T. Kunberger (co-PI)**, J. Zalewski, "Optimizing the water-energy-food (WEF) Nexus: transitioning towards sustainable resource management," dual funding from *FGCU Scholarship-Research Venture Capital Fund* (\$14,750) and *FGCU Communities in Transition* (\$27,850), March 2019 – August 2019.
2. **T. Kunberger**, "The Impact of Scaffolded Discussion Group Activities on Critical Thinking and Information Literacy Development for Students in an Introductory Engineering Course," *FGCU 2019 Innovative Assignment Design Grant*, (\$500), January 2019 – May 2019.
3. **T. Kunberger**, "The Impact of Concept Map Development on Student Achievement of Learning Objectives and Student Self-Perception of Learning Objective Achievement," *FGCU 2016 Innovative Assignment Design Grant*, (\$500), January 2016 – May 2016.
4. **T. Kunberger (PI)**, C. Geiger, J. Greene, "Impact of Near – Peer Mentoring and Mentor Training on Self-Efficacy in Engineering," *FGCU Multi-Disciplinary Research Initiative*, (\$14,958), July 2015 – June 2016.
5. **T. Kunberger**, "Professional Development Fund Grants," *FGCU Faculty Senate*, (\$12,428.05) August 2007 – December 2016, awarded over nine funding cycles.
6. **T. Kunberger**, "Whitaker Center Grants," *Whitaker Center for STEM Education*, (\$2,000) January 2009 – October 2012, awarded over four funding cycles.
7. **T. Kunberger**, "Grants to Enhance Higher Education Pedagogy," *FGCU Lucas Center for Faculty Development*, (\$2,750) August 2013 – June 2019, awarded over five funding cycles.

Honors and Awards

- 2019 Recipient of the FGCU Individual Faculty Service Excellence Award
- 2017 Recipient of the FGCU Senior Faculty Teaching Excellence Award
- 2015 Recipient of the U. A. Whitaker College of Engineering Excellence in Education Award
- 2013 Shamsher Prakash Foundation Prize for Excellence in Teaching of Geotechnical Engineering
- 2013 Recipient of Thomas C Evans Instructional Paper Award from the Southeastern Section of the American Society for Engineering Education
- 2012 Recipient of the American Society for Engineering Education Southeastern Section Outstanding Teacher Award
- 2011 FGCU Course Design Academy Faculty Fellow
- 2010 Recipient of the American Society for Engineering Education Southeastern Section Outstanding New Teacher Award
- 2010 Recipient of an American Society of Civil Engineering ExCEED New Faculty Excellence in Teaching Award
- Honorary Member of Golden Key International Honour Society
- 2009 Inaugural Member of National Academy of Engineering Frontiers of Engineering Education Symposium
- 2008 Recipient of ASCE ExCEED Teaching Fellowship
- 2008 Recipient of Gerald R. Seeley Award from ASEE CE division (for best paper from faculty with <5 years of experience)
- 2007 Recipient of NC State University Graduate Student Association Outstanding Teaching Assistant Award
- 2004 Finalist of the Governor and Mrs. Dan K. Moore Fellowship to Keep North Carolina Clean & Beautiful
- 2003 University Transportation Centers (UTC) Outstanding Student of the Year Awardee
- 2003 Mentored Teaching Assistantship Program Recipient
- 2002 – 2003 Recipient of the Center for Transportation and the Environment Graduate Research Fellowship

Leadership Activities

- Chair of ASCE Committee on Scholarships (2017 – 2018)
- ABET Civil Engineering Program Evaluator (2017 – present)

- Board of Directors for the United States Universities Council on Geotechnical Education and Research (2014 – 2019)
- Chair of the Instructional Division of the Southeastern Section of the American Society for Engineering Education (2017 – 2018)
- Vice Chair of the Instructional Division of the Southeastern Section of the American Society for Engineering Education (2016 – 2017)
- Vice-President (Chair of the Program Unit) and Executive Board Member of the Southeastern Section of the American Society for Engineering Education (2015 – 2016)
- Secretary of the Instructional Division of the Southeastern Section of the American Society for Engineering Education (2015 – 2016)
- Technical Program Chair for the 2015 Conference of the Southeastern Section of the American Society for Engineering Education (2014 – 2015)
- Vice Chair of the Program Unit of the Southeastern Section of the American Society for Engineering Education (2014 – 2015)
- Secretary of the Program Unit of the Southeastern Section of the American Society for Engineering Education (2013 – 2014)
- Chair of the Civil Engineering Division of the Southeastern Section of the American Society for Engineering Education (2012 – 2013, 2013 – 2014)
- Assistant Coordinator, American Society of Civil Engineering Excellence in Civil Engineering Education (ExCEEEd) Teaching Workshop, Florida Gulf Coast University (June 2012, July 2013, June 2014, June 2015, June 2016, June 2017, August 2018, August 2019)
- Assistant Coordinator, American Society of Civil Engineering ExCEEEd II Teaching Workshop, Florida Gulf Coast University (June – July 2012)
- Vice-Chair of the Civil Engineering Division of the Southeastern Section of the American Society for Engineering Education (2011 – 2012)
- Secretary of the Civil Engineering Division of the Southeastern Section of the American Society for Engineering Education (2010 – 2011)

Publications

Journal Publications (*undergraduate student)

1. A. Estes, S. Ressler, C. Saviz, and 15 others including **T. Kunberger**, “The ASCE ExCEEEd Teaching Workshop: Assessing 20 Years of Instructional Development,” *International Journal of Engineering Education*, 35 (6), pp. 1758 – 1786, January 2019.
2. L. Frost, L. Goodson, J. Greene, T. Huffman, B. Johnson, and **T. Kunberger**, “SPARCT: A STEM Professional Academy to Reinvigorate the Culture of Teaching,” *Journal of STEM Education Innovations and Research*, 19 (1), pp. 62 – 69, <Published online 30 March 2018, <http://litee.org/jstem/index.php/JSTEM/article/view/2261/1942>>
3. D. Franco*, K. Coulibaly, **T. Kunberger**, K. Kinzli, S. Arbelaez*, and T. Missimer, “Evolution of Heterogeneous Mixed Siliciclastic/Carbonate Aquifers Containing Metastable Sediments,” *Groundwater*, 55 (6), pp. 784 – 796, <Published online 10 May 2017, <http://dx.doi.org/10.1111/gwat.12529>>.
4. K. Kinzli, **T. Kunberger**, R. O’Neill, and A. Badir, “A Low Cost Approach for Rapidly Creating Demonstration Models for Hands-On Learning,” *European Journal of Engineering Education*, Published online 10 April 2017, <<http://dx.doi.org/10.1080/03043797.2017.1311306>>.
5. **T. Kunberger**, K. Csavina, and R. O’Neill, “Scaffolding Assessment from Lesson Objectives through Student Outcomes: Faculty Perspectives of a Viable Continuous Improvement Model,” *Journal of Professional Issues in Engineering Education and Practice*, 140 (4), A2513001, 2014. <Published online 30 December 2013, 10.1061/(ASCE)EI.1943-5541.0000151>
6. D. Spelman*, K. Kinzli, and **T. Kunberger**, “Calibration of the 10HS Capacitance Soil Moisture Sensor for Southwest Florida Agricultural Soils,” *ASCE Journal of Irrigation and Drainage Engineering*, 139, no. 12, pp. 965 – 971, 2013. <Published online 19 June 2013, 10.1061/(ASCE)IR.1943-4774.0000647>

7. **T. Kunberger**, "Revising a Design Course from a Lecture Approach to a Project Based Learning Approach," *European Journal of Engineering Education*, 38, no. 3, pp. 254 – 267, 2013. <Published online 10 June 2013, 10.1080/03043797.2013.800020>
8. **T. Kunberger**, and K. Csavina "Experiences from a Combined Statics and Dynamics Course in an Integrated Lecture – Lab Environment," *Journal of Applications and Practice in Engineering Education*, 2, no. 2, pp. 87 – 98, Fall 2011.
9. **T. Kunberger**, M.A. Gabr, "Laboratory Testing and Micro-Analysis of Colloidal Mobilization from a Glacial Till," *Canadian Geotechnical Journal*, 48, no. 7, pp. 1116 – 1124, 2011. <Published online 12 July 2011, 10.1139/t11-030>
10. **T. Kunberger**, "Assessment of Technical Writing and Synthesis of Course Topics Utilizing a Standardized Rubric," *International Journal of Applied Science and Technology*, 1, no. 3, pp. 1 – 7, 2011.
11. Sharmin, N., **T. Kunberger**, M.A. Gabr, J. Quaranta, and J. Bowders, "Performance Modeling and Optimization of Contaminant Extraction Using Prefabricated Vertical Wells (PVWs)," *Geosynthetics International*, 15, no. 3, pp. 205-215, 2008.

Refereed Conference Proceedings (*undergraduate student)

1. S. Tsegaye, **T. Kunberger**, J. Zalewski, T. Culhane, G. Fairburn*, and M. Honigfort*, "The Future of Creative Engineering Education: Application of Virtual Reality for Water-Energy-Food Nexus," *2020 American Society for Engineering Education Southeastern Section Conference*, Auburn, Alabama, March 2020.
2. **T. Kunberger**, "Concept Maps as a Culminating Experience in a Design Course," *17th European Conference of Soil Mechanics and Geotechnical Engineering*, Reykjavik, Iceland, September 2019.
3. S. Ghanat, J. Kaklamanos, **T. Kunberger**, C. Walton-Macaulay, S. Immanual, D. Saftner, B. Barry, S. Griffiths, C. Shilaber, and C. Swan, "Bias and Precision in Instructor Grading of Concept Inventories in Geotechnical Engineering Courses," *2019 American Society for Engineering Education Annual Conference and Exposition*, Tampa, Florida, June 2019.
4. A. Estes, S. Ressler, C. Saviz, B. Barry, C. Considine, D. Coward, N. Dennis, S. Hamilton, D. Hurwitz, **T. Kunberger**, T. Lenox, T. Nilsson, L. Nolen, J. O'Brien, R. O'Neill, D. Saftner, K. Salyards, and R. Welch, "Twenty Years of Project ExCEED: Assessing the Impacts and Charting the Future," *2018 American Society for Engineering Education Annual Conference and Exposition*, Salt Lake City, Utah, June 2018.
5. S. Ghanat, J. Kaklamanos, C. Walton-Macaulay, S. I. Immanual, D. A. Saftner, C. Swan, and **T. Kunberger**, "Assessing the Impact of Educational Factors on Conceptual Understanding of Geotechnical Engineering Topics," *2018 American Society for Engineering Education Annual Conference and Exposition*, Salt Lake City, Utah, June 2018.
6. A. Badir, J. Liao, **T. Kunberger**, G. Papkov, L. Nguyen, and R. O'Neill, "Exam Wrappers, Reflection and Student Performance in Engineering Mechanics," *2018 American Society for Engineering Education Annual Conference and Exposition*, Salt Lake City, Utah, June 2018.
7. J. Cuiffi and **T. Kunberger**, "CLEAN WATER Outreach Program," *2018 American Society for Engineering Education Southeastern Section Conference*, Daytona Beach, Florida, March 2018.
8. **T. Kunberger**, "The Impact of Concept Map Development on Learning Outcome Achievement," *2018 American Society for Engineering Education Southeastern Section Conference*, Daytona Beach, Florida, March 2018.
9. C. Geiger, **T. Kunberger**, and J. Greene "Development of a Training Workshop for Undergraduate Mentor TAs in an Introductory Engineering Course," *2017 American Society for Engineering Education Annual Conference and Exposition*, Columbus, Ohio, June 2017.
10. **T. Kunberger** and C. Geiger, "Interim Results of an Engineering S-STEM Program," *2017 American Society for Engineering Education Annual Conference and Exposition*, Columbus, Ohio, June 2017.
11. **T. Kunberger** and C. Geiger, "The Impact of Near-Peer Mentoring on Self-Efficacy in an Introductory Engineering Course," *2016 IEEE Frontiers in Education Conference*, Erie, PA, October 2016.
12. **T. Kunberger**, C. Geiger and K. Reycraft, "Structured Introduction to Information Literacy Using a Scaffold Project in an Introductory Engineering Course," *2016 ASEE Annual Conference and Exposition*, New Orleans, LA, June 2016.

13. **T. Kunberger**, L. Frost, and J. Greene, "Integrating a Faculty Summer Workshop with a Faculty Learning Community to Improve Introductory STEM Courses," *2016 ASEE Annual Conference and Exposition*, New Orleans, LA, June 2016.
14. **T. Kunberger** and C. Geiger, "Implementing Student Enhancement Plans for Student Growth and Goal Attainment," *2016 American Society for Engineering Education Southeast Section Conference*, Tuscaloosa, Alabama, March 2016.
15. C. Geiger and **T. Kunberger**, "From Catch-all to Clarity: Revising a First-Year, Multidisciplinary Introductory Course," *2015 American Society for Engineering Education Annual Conference and Exposition*, Seattle, Washington, June 2015.
16. K. Kinzli, **T. Kunberger**, and R. O'Neill "A Low Cost Approach for Rapidly Creating Demonstration Models for Hands On Learning," *2015 American Society for Engineering Education Southeast Section Conference*, Gainesville, Florida, April 2015.
17. **T. Kunberger**, "Inclusionary Instructional Methods Addressing a Diversity of Learners in Geotechnical Engineering Education," *ASCE Geotechnical Special Publication*, No. 256, pp. 2179 – 2188, 2015.
18. **T. Kunberger**, "Individualized Assessment Modifier to Group Projects," *2014 American Society for Engineering Education Southeast Section Conference*, Macon, Georgia, March 2014.
19. **T. Kunberger**, "The Impact of Non-Traditional Laboratory Report Formats on Student Performance of Course Objectives," *2013 American Society for Engineering Education Southeast Section Conference*, Cookeville, Tennessee, March 2013.
20. **T. Kunberger**, K. Csavina, L. Zidek, "Engineering Summer Camp for High School Students from Underserved Communities," *2013 American Society for Engineering Education Southeast Section Conference*, Cookeville, Tennessee, March 2013.
21. Spelman, D.*, Kinzli, K-D., and **T. Kunberger**, "Calibration of the 10HS Soil Moisture Sensor for Southwest Florida Agricultural Soils," *AWRA Southwest Florida Water Resources Conference*, Fort Myers, Florida, January 2013.
22. **T. Kunberger**, "Experiences from Revising a Course to Promote Significant Learning," *Shaking the Foundations of Geo-Engineering Education*, McCabe, Pantazidou, and Phillips, eds., CRC Press, London, UK, pp. 265 – 272, 2012. **(Winner of 2013 Thomas C Evans Instructional Paper Award)**
23. **T. Kunberger**, "Promoting Self-Efficacy and Life-Long Learning in Conjunction with an Awareness of Contemporary Issues in Geotechnical Engineering," *2012 American Society for Engineering Education Southeast Section Conference*, Starkville, Mississippi, April 2012.
24. **T. Kunberger**, and R. O'Neill "Evaluation of Teaching a Two Course Sequence in Geotechnical Engineering in an Integrated Lecture – Lab Environment," *5th Pan-American Conference on Teaching and Learning of Geotechnical Engineering*, Toronto, Ontario, October 2011.
25. **T. Kunberger** and K. Csavina, "Work It Baby, Work It! Reworking the Worksheet in Camtasia," *2011 ASEE Annual Conference and Exposition*, Vancouver, British Columbia, June 2011.
26. **T. Kunberger**, Steve Burian, Whitney Lutey, Audra Morse, Robert O'Neill, Kristen Sanford-Bernhardt, and Andrea Welker, "Twenty-First Century Civil Engineering: An Overview of Who, What, and Where," *2011 ASEE Annual Conference and Exposition*, Vancouver, British Columbia, June 2011.
27. **T. Kunberger**, and R. O'Neill, "Engineers of the Round Table: Utilizing a Discussion Forum to Enhance Student Learning in Geotechnical Engineering," *2010 ASEE Annual Conference and Exposition*, Louisville, Kentucky, June 2010.
28. **T. Kunberger**, K. Csavina, and R. O'Neill, "K'nexing Models to Examples in Engineering Mechanics," *2010 ASEE Annual Conference and Exposition*, Louisville, Kentucky, June 2010.
29. **T. Kunberger**, K. Csavina, "Integrating Engineering into a General STEM Program for Middle School Girls," *GeoFlorida 2010*, West Palm Beach, Florida, February 2010.
30. **T. Kunberger**, "Past, Present, and Future (PPF) Sheets for Improved Communication of Course Objectives and Expectations," *2009 ASEE Annual Conference and Exposition*, Austin, Texas, June 2009.
31. S. Komisar, D. Bondehagen, **T. Kunberger**, and R. O'Neill, "Development of a Three Course Sequence in Water Resources for Environmental and Civil Engineering," *2009 ASEE Annual Conference and Exposition*, Austin, Texas, June 2009.
32. **T. Kunberger**, "Incorporating Microscopic Analysis and Visual Classification into Soil Mechanics in an Integrated Lecture Lab Environment," *ASCE Geotechnical Special Publication*, No. 186, pp. 640 – 646, 2009.

33. **T. Kunberger**, and D. Bondehagen, "Let's Rock the Boat: Evaluating the Concept of Stability in Fluid Mechanics," *2008 ASEE Annual Conference and Exposition*, Pittsburgh, PA, June 2008. (**Winner of 2008 Gerald R. Seeley Award**)
34. **Kunberger, Tanya**, and M.A. Gabr, "Temperature Effect on Desorption Kinetics of Benzene on Various Soils," *GeoFrontiers*, Austin, Texas, January 2005.
35. Quaranta, John, **Tanya Kunberger**, and M.A. Gabr, "WIDE Application for Subsurface Hydraulic Head – Controlled Remediation," *GeoFrontiers*, Austin, Texas, January 2005.
36. **Kunberger, Tanya**, John Quaranta, and M.A. Gabr, "Remediation of Former Lockbourne Air Force Base Using Well Injection Depth Extraction (WIDE™)," *12th Panamerican Conference on Soil Mechanics and Geotechnical Engineering*, Cambridge, Massachusetts, June 2003.

Articles Accepted / Under Review (*undergraduate student)

1. M. Marshall, J. Dobbs-Oates, **T. Kunberger**, and J. Greene, "The Peer Mentor Experience: Benefits and Challenges in Undergraduate Programs," *accepted, Mentoring and Tutoring: Partnership in Learning*.

Podium Presentations (presenter underlined) (*undergraduate student)

1. S. Tsegaye, **T. Kunberger**, J. Zalewski, T. Culhane, G. Fairburn*, and M. Honigfort*, "The Future of Creative Engineering Education: Application of Virtual Reality for Water-Energy-Food Nexus," *2020 American Society for Engineering Education Southeastern Section Conference*, Auburn, Alabama, March 2020.
2. **T. Kunberger**, "Concept Maps as a Culminating Experience in a Design Course," *17th European Conference of Soil Mechanics and Geotechnical Engineering*, Reykjavik, Iceland, September 2019.
3. S. Ghanat, J. Kaklamanos, **T. Kunberger**, C. Walton-Macaulay, S. Immanuel, D. Saftner, B. Barry, S. Griffiths, C. Shilaber, and C. Swan, "Bias and Precision in Instructor Grading of Concept Inventories in Geotechnical Engineering Courses," *2019 American Society for Engineering Education Annual Conference and Exposition*, Tampa, Florida, June 2019.
4. A. Estes, S. Ressler, C. Saviz, B. Barry, C. Considine, D. Coward, N. Dennis, S. Hamilton, D. Hurwitz, **T. Kunberger**, T. Lenox, T. Nilsson, L. Nolen, J. O'Brien, R. O'Neill, D. Saftner, K. Salyards, and R. Welch, "Twenty Years of Project ExCEED: Assessing the Impacts and Charting the Future," *2018 American Society for Engineering Education Annual Conference and Exposition*, Salt Lake City, Utah, June 2018.
5. S. Ghanat, J. Kaklamanos, C. Walton-Macaulay, S. I. Immanuel, D. A. Saftner, C. Swan, and **T. Kunberger**, "Assessing the Impact of Educational Factors on Conceptual Understanding of Geotechnical Engineering Topics," *2018 American Society for Engineering Education Annual Conference and Exposition*, Salt Lake City, Utah, June 2018.
6. A. Badir, J. Liao, **T. Kunberger**, G. Papkov, L. Nguyen, and R. O'Neill, "Exam Wrappers, Reflection and Student Performance in Engineering Mechanics," *2018 American Society for Engineering Education Annual Conference and Exposition*, Salt Lake City, Utah, June 2018.
7. J. Cuiffi and **T. Kunberger**, "CLEAN WATER Outreach Program," *2018 American Society for Engineering Education Southeastern Section Conference*, Daytona Beach, Florida, March 2018.
8. **T. Kunberger**, "The Impact of Concept Map Development on Learning Outcome Achievement," *2018 American Society for Engineering Education Southeastern Section Conference*, Daytona Beach, Florida, March 2018.
9. J. Dobbs-Oates, M. Marshall, J. Greene, and **T. Kunberger**, "Deepening Disciplinary and Career-Focused Learning in Advanced Undergraduates: A Peer-Mentoring Approach," *37th Original Lilly Conference on College Teaching*, Oxford, Ohio, November 2017.
10. C. Geiger, **T. Kunberger**, and J. Greene, "Development of a Training Workshop for Undergraduate Mentor TAs in an Introductory Engineering Course," *2017 American Society for Engineering Education Annual Conference and Exposition*, Columbus, Ohio, June 2017.
11. L. Frost, J. Greene, T. Huffman, B. Johnson, and **T. Kunberger**, "SPARCT: Results and Sustainability of an Interdisciplinary STEM Faculty Development Program," *Network of STEM Education Centers 2017 National Conference*, New Orleans, LA, June 2017.

12. **T. Kunberger**, **J. Dobbs-Oates**, M. Marshall, and **J. Greene**, “The Mentor Experience: Undergraduate Near-Peer Mentor Outcomes Across Two Institutions,” *2017 SoTL Commons Conference*, Savannah, GA, March 2017.
13. **T. Kunberger** and C. Geiger, “The Impact of Near-Peer Mentoring on Self-Efficacy in an Introductory Engineering Course,” *2016 IEEE Frontiers in Education Conference*, Erie, PA, October 2016.
14. **T. Kunberger**, C. Geiger and K. Reycraft, “Structured Introduction to Information Literacy Using a Scaffold Project in an Introductory Engineering Course,” *2016 ASEE Annual Conference and Exposition*, New Orleans, LA, June 2016.
15. **L. Frost**, J. Greene, T. Huffman, B. Johnson, **T. Kunberger**, E. McCulloch, and R. Nichols, “SPARCT: STEM Professional Academy for Reinvigorating the Culture of Teaching,” *NSF Symposium on Envisioning the Future of Undergraduate STEM Education: Research and Practice*, Washington, DC, April 2016.
16. **T. Kunberger** and C. Geiger, “Implementing Student Enhancement Plans for Student Growth and Goal Attainment,” *2016 American Society for Engineering Education Southeast Section Conference*, Tuscaloosa, Alabama, March 2016.
17. C. Geiger and **T. Kunberger**, “From Catch-all to Clarity: Revising a First-Year, Multidisciplinary Introductory Course,” *2015 American Society for Engineering Education Annual Conference and Exposition*, Seattle, Washington, June 2015.
18. **K. Kinzli**, **T. Kunberger**, and R. O’Neill “A Low Cost Approach for Rapidly Creating Demonstration Models for Hands On Learning,” *2015 American Society for Engineering Education Southeast Section Conference*, Gainesville, Florida, April 2015.
19. **T. Kunberger**, “Inclusionary Instructional Methods Addressing a Diversity of Learners in Geotechnical Engineering Education,” *2015 International Foundation Congress and Equipment Expo*, San Antonio, Texas, March 2015.
20. **T. Kunberger**, “Individualized Assessment Modifier to Group Projects,” *2014 American Society for Engineering Education Southeast Section Conference*, Macon, Georgia, March 2014.
21. **T. Kunberger**, “Experiences from Revising a Course to Promote Significant Learning,” *2013 American Society for Engineering Education Southeast Section Conference*, Cookeville, Tennessee, March 2013. (Originally presented in Galway, Ireland – presented here as acknowledgement of Thomas C Evans Instructional Paper Award).
22. **T. Kunberger**, “The Impact of Non-Traditional Laboratory Report Formats on Student Performance of Course Objectives,” *2013 American Society for Engineering Education Southeast Section Conference*. Cookeville, Tennessee, March 2013.
23. **T. Kunberger**, K. Csavina, L. Zidek, “Engineering Summer Camp for High School Students from Underserved Communities,” *2013 American Society for Engineering Education Southeast Section Conference*, Cookeville, Tennessee, March 2013.
24. **T. Kunberger**, “Experiences from Revising a Course to Promote Significant Learning,” *International Conference Shaking the Foundations of Geo-Engineering Education*, Galway, Ireland, July 2012.
25. **T. Kunberger**, “Promoting Self-Efficacy and Life-Long Learning in Conjunction with an Awareness of Contemporary Issues in Geotechnical Engineering,” *2012 American Society for Engineering Education Southeast Section Conference*, Starkville, Mississippi, April 2012.
26. **T. Kunberger**, and R. O’Neill “Evaluation of Teaching a Two Course Sequence in Geotechnical Engineering in an Integrated Lecture – Lab Environment,” *5th Pan-American Conference on Teaching and Learning of Geotechnical Engineering*, Toronto, Canada, October 2011.
27. **T. Kunberger** and **K. Csavina**, “Work It Baby, Work It! Reworking the Worksheet in Camtasia,” *2011 ASEE Annual Conference and Exposition*, Vancouver, Canada, June 2011.
28. **T. Kunberger**, Steve Burian, Whitney Lutey, Audra Morse, Robert O’Neill, Kristen Sanford-Bernhardt, and Andrea Welker, “Twenty-First Century Civil Engineering: An Overview of Who, What, and Where,” *2011 ASEE Annual Conference and Exposition*, Vancouver, Canada, June 2011.
29. **T. Kunberger**, and R. O’Neill, “Engineers of the Round Table: Utilizing a Discussion Forum to Enhance Student Learning in Geotechnical Engineering,” *2010 ASEE Annual Conference and Exposition*, Louisville, Kentucky, June 2010.
30. **T. Kunberger**, K. Csavina, and R. O’Neill, “K’nexing Models to Examples in Engineering Mechanics,” *2010 ASEE Annual Conference and Exposition*, Louisville, Kentucky, June 2010.

31. **T. Kunberger**, “Past, Present, and Future (PPF) Sheets for Improved Communication of Course Objectives and Expectations,” *2009 ASEE Annual Conference and Exposition*, Austin, Texas, June 2009.
32. **S. Komisar**, D. Bondehagen, **T. Kunberger**, and R. O’Neill, “Development of a Three Course Sequence in Water Resources for Environmental and Civil Engineering,” *2009 ASEE Annual Conference and Exposition*, Austin, Texas, June 2009.
33. **T. Kunberger**, “Incorporating Microscopic Analysis and Visual Classification into Soil Mechanics in an Integrated Lecture Lab Environment,” *ASCE Geotechnical Special Publication*, No. 186, pp. 640 – 646, 2009.
34. **T. Kunberger**, and D. Bondehagen, “Let’s Rock the Boat: Evaluating the Concept of Stability in Fluid Mechanics,” *2008 ASEE Annual Conference and Exposition*, Pittsburgh, PA, June 2008. (**Winner of Gerald R. Seeley Award 2008**)
35. **Kunberger, Tanya**, and M.A. Gabr, “Temperature Effect on Desorption Kinetics of Benzene on Various Soils,” *GeoFrontiers*, Austin, Texas, January 2005.
36. **Quaranta, John**, **Tanya Kunberger**, and M.A. Gabr, “WIDE Application for Subsurface Hydraulic Head – Controlled Remediation,” *GeoFrontiers*, Austin, Texas, January 2005.
37. M. Gabr, A. Gupta, P. Kripakaran, **T. Kunberger** and **V. Matzen** “Security and Authentication Solutions in Internet-Enabled Laboratory Experiments in Undergraduate Civil Engineering Courses,” *2005 ASEE Annual Conference*, Portland, Oregon, June 2005.
38. **Kunberger, Tanya**, John Quaranta, and M.A. Gabr, “Remediation of Former Lockbourne Air Force Base Using Well Injection Depth Extraction (WIDE™),” *12th Panamerican Conference on Soil Mechanics and Geotechnical Engineering*, Cambridge, Massachusetts, June 2003.

Poster Presentations (presenter underlined) (*undergraduate student)

1. **T. Kunberger**, “Introduction to Engineering through the Lens of the Pillars of Honors,” *2017 National Collegiate Honors Council Annual Conference*, Atlanta, Georgia, November 2017.
2. **T. Kunberger** and **C. Geiger**, “Interim Results of an Engineering S-STEM Program,” *2017 American Society for Engineering Education Annual Conference and Exposition*, Columbus, Ohio, June 2017.
3. **K. Reycraft** and **T. Kunberger**, “Teaching Information Literacy Using an Online Module in a Flipped Classroom Setting,” *2016 Lucas Symposium: Showcasing Creative Strategies for Teaching and Learning*, Fort Myers, Florida, September 2016.
4. **T. Kunberger**, L. Frost, and J. Greene, “Integrating a Faculty Summer Workshop with a Faculty Learning Community to Improve Introductory STEM Courses,” *2016 ASEE Annual Conference and Exposition*, New Orleans, LA, June 2016.
5. **T. Kunberger**, “Various Activities to Facilitate Participation in Group Discussions,” *2016 SoTL Commons Conference*, Savannah, GA, March 2016.
6. **T. Kunberger**, C. Geiger, and J. Greene, “The Impact of Near-Peer Mentoring in an Introductory Course,” *2016 SoTL Commons Conference*, Savannah, GA, March 2016.
7. **Botha, B.***, **Harvey, C.***, Missimer, T., Kinzli, K., and **Kunberger, T.** “Transition in Hydraulic Conductivity from an Unlithified Late Miocene Age Channel-Fill Deposit to a Marine Reworked Sand Facies, Hendry County, Florida,” *2015 Florida Gulf Coast University Research Day*, Fort Myers, Florida, April, 2015.
8. **Franco, D.***, **Arbelaez, S.***, Missimer, T., Kinzli, K., and **Kunberger, T.** “Evolution of Mixed Siliciclastic / Carbonate Aquifer Containing Metastable Components,” *2015 Florida Gulf Coast University Research Day*, Fort Myers, Florida, April, 2015.
9. **Botha, B.***, **Harvey, C.***, **Franco, D.***, **Arbelaez, S.***, Missimer, T., Kinzli, K., and **Kunberger, T.** “Transition in Hydraulic Conductivity from an Unlithified Late Miocene Age Channel-Fill Deposit to a Marine Reworked Sand Facies, Hendry County, Florida,” *2015 American Society for Engineering Education Southeast Section Conference*, Gainesville, Florida, April 2015.
10. **Franco, D.***, **Arbelaez, S.***, **Botha, B.***, **Harvey, C.***, Missimer, T., Kinzli, K., and **Kunberger, T.** “Evolution of Mixed Siliciclastic / Carbonate Aquifer Containing Metastable Components,” *2015 American Society for Engineering Education Southeast Section Conference*, Gainesville, Florida, April 2015.
11. **Franco, D.***, **Arbelaez, S.***, Missimer, T., Kinzli, K., and **Kunberger, T.** “Evolution of Mixed Siliciclastic / Carbonate Aquifer Containing Metastable Components,” *24th American Water Resources Association Southwest*

Florida Water Resources Conference, Fort Myers, Florida, February 2015. **(3rd Place Undergraduate Student Poster Winner)**

12. Franco, D.*, Arbelaez, S.*, Missimer, T., Kinzli, K., and Kunberger, T. "Evolution of Mixed Siliciclastic / Carbonate Aquifer Containing Metastable Components," *Undergraduate STEM Research Symposium*, Whitaker Center for STEM Education, Florida Gulf Coast University, December, 2014.
13. Spelman, D.*, Kinzli K-D and **T. Kunberger**. "Calibration of the 10HS Soil Moisture Sensor for Southwest Florida Agricultural Soils," *AWRA Southwest Florida Water Resources Conference*, Fort Myers, Florida. January 2013. **(2nd Place Student Poster Winner)**
14. **T. Kunberger** and K. Csavina, "Work It Baby, Work It! Reworking the Worksheet in Camtasia," *2011 FGCU Research Day*, Fort Myers, Florida, April 2011.
15. **T. Kunberger**, and K. Csavina, "Integrating Engineering into a General STEM Program for Middle School Girls," *GeoFlorida 2010*, West Palm Beach, Florida, February 2010.

Student Grants and Publications

- J. Corcuera, "Water Monitoring: Sensors for Irrigation Management," *FGCU Undergraduate Scholarly Award*, \$655, Fall 2020.
- B. Botha and C. Harvey, "Travel and Conference Presentation of Research," *Whitaker Center for STEM Education Mini Grant Award*, \$500, Spring 2015.
- B. Botha and C. Harvey, "Travel and Conference Presentation of Research," *Undergraduate Student Scholarship Support Award*, \$750, Spring 2015.
- D. Franco and S. Arbelaez, "Travel and Conference Presentation of Research," *Undergraduate Student Scholarship Support Award*, \$748, Spring 2015.
- D. Spears, "Soil Improvement Using Vibro-Replacement," *Aquila: The FGCU Student Journal*, Volume 1, 2014. Completed as partial fulfillment of CEG 4012C – Geotechnical Engineering II (Fall 2013).
- F. Moloney, "Ethics of Artificial Levee Breaches," *Aquila: The FGCU Student Journal*, Volume 1, 2014. Completed as partial fulfillment of CEG 4012C – Geotechnical Engineering II (Fall 2013).

Professional Development Activities

- The Problem Solving Studio Workshop, KEEN Faculty Development Program (July 2020)
- Institute for Academic Leadership Department Chairs Workshop, Florida State University IAL (October 2019)
- Teaching With Impact – Motivation and Mindset, KEEN Faculty Development Program (August 2019)
- Teaching Information Literacy Reframed Book Club, Lucas Center for Faculty Development, Florida Gulf Coast University (Spring 2019)
- Course Design Academy II – Blended Learning Academy, Lucas Center for Faculty Development, Florida Gulf Coast University (June 2017)
- Geotechnical Women Faculty – Networked and Thriving Workshop (April 2017)
- Denice Denton Emerging Leaders Workshop (June 2016)
- The Science of Learning Faculty Learning Community, Lucas Center for Faculty Development, Florida Gulf Coast University (Spring 2016)
- Make It Stick Book Club, Lucas Center for Faculty Development, Florida Gulf Coast University (Fall 2015)
- Learner-Centered Teaching: Putting the Research on Learning into Practice Book Club, Lucas Center for Faculty Development, Florida Gulf Coast University (Fall 2014)
- Teaching with Your Mouth Shut Book Club, Lucas Center for Faculty Development, Florida Gulf Coast University (Fall 2014)
- STEM Professional Academy for Reinvigorating the Culture of Teaching (SPARCT) Academy, Whitaker Center for STEM Education (2014 – 2015)
- Just-in-Time Teaching Book Club, Teaching for Critical Thinking Book Club, Teaching, Learning and Assessment Initiative, Florida Gulf Coast University (Fall 2013)

- Teaching for Critical Thinking Book Club, Teaching, Learning and Assessment Initiative, Florida Gulf Coast University (Fall 2012)
- Learner-Centered Teaching: Five Key Changes to Practice Book Club, Teaching, Learning and Assessment Initiative, Florida Gulf Coast University (Fall 2011)
- Course Design Academy, Teaching Learning and Assessment Initiative, Florida Gulf Coast University (May 2011)
- National Academy of Engineering Frontiers of Engineering Education Symposium (November 2009)
- American Society of Civil Engineering Excellence in Engineering Education (ExCEED) II Teaching Workshop (July 2009)
- American Society of Civil Engineering Excellent in Engineering Education (ExCEED) Teaching Workshop (June 2008)
- The Grantsmanship Center Grant Training Workshop (March 2008)

Service Activities

National Committee Memberships

- Invited Participant and Society Representative for the Transforming Undergraduate Education in Engineering Phase IV Workshop (Spring 2017)
- Member of the American Society of Civil Engineers Committee on Education (2016 – 2019)
- Member of the American Society of Civil Engineers Committee on Scholarships (2015 – 2019)
- Member of the Executive Board of the Southeastern Section of the American Society for Engineering Education (2015 – 2016)
- Member of the American Society of Civil Engineers Committee on Faculty Development (2014 – 2020)
- Board of Directors for the United States Universities Council on Geotechnical Education and Research (2014 – 2019)
- Corresponding Member of the American Society of Civil Engineering Committee on the Academic Prerequisites for Professional Practice (2011 – 2012)
- Corresponding Member of the American Society of Civil Engineering Committee on Faculty Development (2009 – 2010, 2013 – 2014)

College and University Committee Memberships

- Member of the University Permanent Chairs Committee (2020)
- Member of the Whitaker College of Engineering Leadership Team (2019 – present)
- Member of the FGCU General Education Committee (2018 – 2019)
- Member of the Honors Executive Board (January 2017 – present)
- Member of University Research Task Force, FGCU (2018)
- Member of the FGCU QEP Baseline Assessment Team (May 2016, May 2017)
- Member of the FGCU Mentor Excellence Selection Committee (2016)
- Member of the FGCU Honors Program Outstanding Commitment to Personal Excellence Award Committee (2016)
- Member of the Whitaker College of Engineering Peer Review Committee (2014 – 2015, 2018 – 2019)
- Member of the Florida Gulf Coast University Committee for the development of a Women in STEM Live-Learn Community (2013 – 2014)
- College of Engineering Representative on the Florida Gulf Coast University Lucas Center for Faculty Development Advisory Board (2012 – 2018) [formerly the Teaching, Learning, and Assessment Initiative]
- College of Engineering Representative on the Whitaker Center for STEM Education Leadership Team (2012 – 2016)
- Member of the Florida Gulf Coast University QEP Development Committee for the University-wide Writing, Critical Thinking, and Literacy Initiative (2012 – 2015)

- Member of the Florida Gulf Coast University Graduate Curriculum Committee (2013 – 2017)
- Member of the Florida Gulf Coast University Honors STEM Curriculum Development Committee (2012)
- Member of the Florida Gulf Coast University Academic Integrity Committee (2011 – 2017)
- Member of the Florida Gulf Coast University Undergraduate Curriculum Committee (2011 – 2012, 2017 – 2019)
- Member of Whitaker College of Engineering Curriculum Committee (2008 – present)
- Member of Whitaker College of Engineering Recruitment and Retention Committee (2007 – 2015)
- Member of Whitaker School of Engineering Handbook Committee and sub-committee (2007 – 2008)

Search Committee Memberships

- Member of search panel for Engineering Advisor position FGCU (2020)
- Member of search committee for Construction Management faculty (2 positions) FGCU (2018 – 2019)
- Member of search committee for Construction Management Program Director FGCU (2018)
- Member of search committee for Renewable Energy faculty FGCU (2017 – 2018)
- Member of search committee for Director of Honors Program FGCU (2014 – 2015)
- Member of search committee for Mathematics faculty (3 positions) FGCU (2011 – 2012)
- Member of search committee for Civil Engineering faculty FGCU (2010 – 2011)
- Member of search committee for Mathematics faculty FGCU (2009 – 2010)
- Member of search committee for Civil Engineering faculty FGCU (2009 – 2010)
- Member of search committee for Mathematics (Statistics) faculty FGCU (2008 – 2009)
- Member of search committee for Mathematics (Applied) faculty FGCU (2008 – 2009)
- Member of search committee for Environmental Engineering faculty FGCU (2008)
- Member of search committee for Civil Engineering faculty FGCU (2007 – 2008)

Mentoring / Advising Positions

- Mentor, Academic Portfolio Workshop, Florida Gulf Coast University (June 2020, 2 participants)
- Mentor, Academic Portfolio Workshop, Florida Gulf Coast University (June 2019, 2 participants)
- Mentor, Peter Seldin Academic Portfolio Workshop, Florida Gulf Coast University (June 2016, 2 participants)
- Mentor, ASCE Excellence in Civil Engineering Education (ExCEED) Teaching Workshop, United States Military Academy (July 2015)
- Mentor, Peter Seldin Academic Portfolio Workshop, Florida Gulf Coast University (May 2015, 2 participants)
- Mentor Coach, New Faculty Academy, Lucas Center for Faculty Development, Florida Gulf Coast University (Fall 2014, 2 participants)
- Mentor, Peter Seldin Academic Portfolio Workshop, Florida Gulf Coast University (May 2014, 3 participants)
- Mentor, Peter Seldin Academic Portfolio Workshop, Florida Gulf Coast University (May 2012, 3 participants)
- Assistant Mentor, ASCE Excellence in Civil Engineering Education (ExCEED) Teaching Workshop, University of Texas at Tyler (July 2011)
- Mentor, Peter Seldin Academic Portfolio Workshop, Florida Gulf Coast University (May 2011, 2 participants)
- Mentor, Peter Seldin Academic Portfolio Workshop, Florida Gulf Coast University (December 2010, 1 participant)
- Assistant Mentor, ASCE Excellence in Civil Engineering Education (ExCEED) Teaching Workshop, United States Military Academy (July 2010)
- Assistant Mentor, ASCE Excellence in Civil Engineering Education (ExCEED) Teaching Workshop, Northern Arizona University (July 2009)
- Advisor for Engineering and Computer Science Honor Society FGCU (2008 – 2016)
- Mentor of 20 – 25 students / semester with regards to classes / scheduling (2007 – present)
- Mentor of 2 junior level undergraduate students on soil laboratory testing (Fall 2014, Spring 2015)
- Mentor of 2 senior level undergraduate students on soil laboratory testing (Fall 2014, Spring 2015)

- Mentor of 2 senior level undergraduate student Honor's projects for Geotechnical Engineering II course (Fall 2013)
- Mentor of junior level undergraduate student Honor's project for Geotechnical Engineering I course (Spring 2014)
- Mentor of senior level undergraduate student on soil moisture laboratory testing (2011 – 2012)
- Mentor of senior level undergraduate student on auger cast pile case study research (Spring 2012)
- Mentor of senior level undergraduate student on equipment set-up and calibration of geotechnical laboratory equipment (2009 – 2010)
- Mentor of sophomore level undergraduate student Honor's project for Problem Solving and Design for Engineers course (Spring 2008)

Seminars / Workshops / Invited Presentations

- Invited Speaker, SPARCT: STEM Professional Academy for Reinvigorating the Culture of Teaching, May 2019
- Invited Panelist, New Faculty Orientation – Panel on Teaching Effectiveness, Student Learning and Feedback, August 2017, Lucas Center for Faculty Development
- Invited Speaker, SPARCT: STEM Professional Academy for Reinvigorating the Culture of Teaching, May 2017
- Invited Panelist, New Faculty Orientation – Panel on Professional Development Plans, August 2016, Lucas Center for Faculty Development
- Invited Panelist, New Faculty Orientation – Panel on Teaching Effectiveness, Student Learning and Feedback, August 2016, Lucas Center for Faculty Development
- Invited Speaker, 2016 Course Design Academy, May 2016, Lucas Center for Faculty Development
- Invited Speaker, SPARCT: STEM Professional Academy for Reinvigorating the Culture of Teaching, May 2016
- Invited Participant, WIDER Research Integration Workshop, April 2016, National Science Foundation
- Invited Panelist, Cadre of New Faculty Colleagues – Panel on the Student Perception of Instruction (SPoI) Survey, October 2015, Lucas Center for Faculty Development
- Invited Panelist, Cadre of New Faculty Colleagues – Panel on Developing your Professional Development Plan, September 2015, Lucas Center for Faculty Development
- Invited Speaker, New Faculty Academy – Lesson Planning, September 2015, Lucas Center for Faculty Development
- Invited Panelist, Conversations in the Living Room – Travel Grant Panel, September 2015, Lucas Center for Faculty Development
- Invited Panelist, New Faculty Orientation – Panel on Professional Development Plans, August 2015, Lucas Center for Faculty Development
- Invited Speaker, 2015 Course Design Academy, May 2015, Lucas Center for Faculty Development
- Invited Speaker, SPARCT: STEM Professional Academy for Reinvigorating the Culture of Teaching, May 2015.
- Invited Speaker, New Faculty Academy – Lesson Planning, September 2014, Lucas Center for Faculty Development
- Invited Panelist, New Faculty Orientation – Panel on Professional Development Plans, August 2014, Lucas Center for Faculty Development
- Workshop assistant coordinator and presenter, SPARCT: STEM Professional Academy for Reinvigorating the Culture of Teaching, May 2014
- Invited Speaker, 2014 Course Design Academy, May 2014, Teaching, Learning, and Assessment Initiative at Florida Gulf Coast University
- Invited Speaker, New Faculty Academy – Course Design, September 2013, Teaching, Learning and Assessment Initiative at Florida Gulf Coast University

- Invited Speaker, New Faculty Academy – Lesson Planning, August 2013, Teaching, Learning and Assessment Initiative at Florida Gulf Coast University
- Invited Speaker, 2013 Course Design Academy, May 2013, Teaching, Learning, and Assessment Initiative at Florida Gulf Coast University
- Workshop co-coordinator and co-presenter, “Highlights of the ASCE Excellence in Civil Engineering Education (ExCEED) Workshop,” July 2012, Shaking the Foundations of Geo-engineering Education, Galway, Ireland
- Workshop co-coordinator and presenter, “Highlights of the ASCE Excellence in Civil Engineering Education (ExCEED) Workshop,” April 2012, ASEE Southeastern Section Annual Meeting
- Invited Speaker, 2012 Course Design Academy, May 2012, Teaching, Learning, and Assessment Initiative at Florida Gulf Coast University
- Invited Speaker, Teaching Innovation Brown-Bag Workshop, March 2012, Whitaker Center STEMinar Series, Florida Gulf Coast University
- Invited Speaker, Excellence Across the Academy Series – Faculty Spotlight on Practice, March 2012, Teaching, Learning and Assessment Initiative at Florida Gulf Coast University
- Keynote Address, Golden Key International Honour Society, Spring 2010 Initiation, Florida Gulf Coast University

Panel Reviews

- Reviewer for AP College Board draft AP Engineering Curriculum (October 2015)
- NSF Reviewer for Graduate Research Fellowship Program (GRFP), Research Experience for Undergraduates (REU), Research Experience for Teachers (RET), CAREER Awards, Innovations in Engineering Education, Curriculum, and Infrastructure (IEECI) (12 Panels from 2009 – 2014)

Journal and Conference Activities

Review Boards

- Invited member of review board for Annual SoTL Commons: An International Conference for the Scholarship of Teaching and Learning (2009, 2010, 2011, 2012, 2013, 2016)
- Member of review board for *International Journal of Teaching and Learning in Higher Education* (2007 – 2016)

Book Reviews

- Reviewer for Empowered to Engineer: Core Concepts and Grand Challenges by Bhatia et al.
- Reviewer for Engineering Your Future by Oakes, Leone & contributor Hartner
- Reviewer for Soil and Foundations by Liu and Evett

Journal Reviews

- Reviewer for *European Journal of Engineering Education*
- Reviewer for *Journal of Professional Issues in Engineering Education and Practice*
- Reviewer for *Soil and Sediment Contamination An International Journal*
- Reviewer for *Irrigation and Drainage*

Conference Proceeding Reviews

- Reviewer for the *2015 International Foundation Congress and Equipment Expo* Proceedings (ASCE Geotechnical Special Publication #256)
- Reviewer for the *International Conference Shaking the Foundations of Geo-Engineering Education* Proceedings (2012)

- Reviewer for *GeoFrontiers 2011* Proceedings (ASCE Geotechnical Special Publication #211)
- Reviewer for *GeoFlorida 2010* Proceedings (ASCE Geotechnical Special Publication #199)
- Reviewer for *2009 International Foundation Congress and Equipment Expo* Proceedings (ASCE Geotechnical Special Publications #185 – 187)
- Reviewer for 2008 Women in Engineering Program Advocates Network (WEPAN) National Conference
- Reviewer for American Society of Engineering Education Annual Conference and Exposition (2008 – present)
- Reviewer for American Society of Engineering Education Southeastern Section Annual Conference (2012 – present)

Conference Session Activities

- Moderator for break-out session at 2016 Frontiers in Education Conference (October 2016)
- Moderator for Administrative Division session at 2016 ASEE Southeastern Section Annual Conference (March 2016)
- Moderator for Professional Skills Division session at 2016 ASEE Southeastern Section Annual Conference (March 2016)
- Moderator for Civil Engineering Division session at 2014 ASEE Southeastern Section Annual Conference (March 2014)
- Moderator for Civil Engineering Division session at 2012 ASEE Southeastern Section Annual Conference (April 2012)
- Moderator for Women In Engineering Division session at 2008 ASEE Annual Conference and Exposition (June 2008)

Outreach Activities

- Facilitator for Whitaker College of Engineering BEaM Camp (summer 2020)
- Assistant for Whitaker College of Engineering Fall 2019 Engineering Extravaganza (October 2019)
- Facilitator for STEM at Work (November 2018)
- Co-coordinator for Whitaker College of Engineering Fall 2017 Engineering Extravaganza (October 2017)
- Assistant for Mathletes Summer Camp (August 2017)
- Assistant for JROTC STEM Summer Camp (June 2017)
- Guest Presenter for Kindergarten Class, Corkscrew Elementary (May 2017)
- Co-coordinator for Whitaker College of Engineering Summer Camp Extravaganza (summer 2016)
- Assistant for Mathletes Summer Camp (August 2016)
- Co-coordinator for Whitaker College of Engineering Fall 2015 Engineering Extravaganza (November 2015)
- Co-coordinator for Whitaker College of Engineering Fall 2014 Engineering Extravaganza (October 2014)
- Developed hands-on engineering activity for Mathletes Summer Camp (June 2014)
- Assistant for Girls in Engineering, Math, and Science (GEMS) (March 2014)
- Assistant for Girls in Engineering, Math, and Science (GEMS) (March 2013)
- Co-coordinator for Whitaker College of Engineering Summer Camp Engineering Extravaganza (summer 2014)
- Co-coordinator for Whitaker College of Engineering Fall 2013 Engineering Extravaganza (October 2013)
- Co-coordinator for Whitaker College of Engineering Fall 2012 Engineering Extravaganza (October 2012)
- Co-coordinator for Whitaker College of Engineering Summer Camp Engineering Extravaganza (summer 2012)
- Guest Presenter for Multiple Second / Third Grade Science Classes, Gateway Elementary (2011 – 2015)
- Assistant for Women's Week-end through the School of Engineering at FGCU (Feb 2011)
- Assistant for FGCU College Reach Out Program (CROP) Engineering Summer Program (June 2010)
- Guest Presenter for Girl's Middle School Engineering Club (April 2010)
- Assistant for Women's Week-end through the School of Engineering at FGCU (March 2010)
- Assistant for FGCU College Reach Out Program (CROP) Engineering Summer Program (June 2009)
- Assistant for Girls in Engineering, Math, and Science (GEMS) (2008 – 2009)

- Judge for Thomas Edison Science Fair (2008, 2009, 2010) / Grand Judge in 2020
- Assistant for North Carolina State University Engineering Summer Camp (summer 2006)
- Assistant for North Carolina State University Engineering Summer Camp (summer 2005)