Dr. Jennifer Whitfield

Texas A&M University
Department of Mathematics
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EDUCATION

Doctor of Philosophy, Distinguished Honor Graduate in Curriculum and Instruction; Area of emphasis - Mathematics Education, Texas A&M University, College Station, TX, December 2017. Major advisors: Dr. Mary Margaret Capraro and Dr. Hersh Waxman. Dissertation Topic: The Longitudinal Effects of the TAMU Noyce Scholars Program on STEM Teachers' Classroom Instruction and Perceptions of Teaching.

Master of Science, Mathematics, Texas A&M University, College Station, TX. August 2000. Advisor: Dr. Sue Geller.

Bachelor of Arts, Mathematics with Emphasis in Computer Science and a minor in Education, The Colorado College, Colorado Springs, CO. May 1993.

PROFESSIONAL POSITIONS

Texas A&M University College of Arts and Sciences

Assistant Dean for Faculty Affairs, Equity, and Inclusion: September 2022 – **Present.**

Texas A&M University Department of Mathematics

Instructional Professor: September 2022 – **Present.**
Assistant Head for Academic Professional Track (APT) Faculty Affairs: January 2017 – August 2022.
Instructional Associate Professor: September 2019 – August 2022.
Math Learning Center Liaison: Spring 2020 – August 2022..
Instructional Assistant Professor: September 2013 – August 2019.
Personalized Precalculus Program Co-Director: April 2010 – August 2017.
Senior Lecturer: August 2001 – August 2013.
Director Online Homework Systems: January 2009 – May 2012.

Texas A&M University College of Science, Center for Math and Science Education

aggieTEACH Program Director: March 2011 – December 2018.
STEM Teacher Preparation Academy Director: May 2011 – August 2013.

A&M Consolidated High School

Mathematics Teacher (Texas Lifetime Certified): August 1999 – May 2001.

Bryan High School

Mathematics Teacher (Texas Lifetime Certified): August 1995 – May 1999.
Head Girls Volleyball Coach: August 1996 – May 1999.
Assistant Girls Track Coach: August 1995 – May 1999.
Assistant Girls Basketball Coach: August 1995 – May 1996.

Jane Long Middle School

Mathematics Teacher (Texas Lifetime Certified): August 1993 – June 1995.
7th & 8th Grade Volleyball and Track Coach: August 1993 – June 1995.

ADJUNCT POSITIONS

Blinn College (Bryan Campus)

Mathematics Instructor: August 2000 – May 2003.

GRADUATE TEACHING ASSISTANT POSITIONS

Texas A&M University

Department of Teaching, Learning, and Culture: Graduate Teaching Assistant Instructor of Record: Fall 2016, Spring 2017.

Department of Mathematics: Graduate Teaching Assistant Instructor of Record: Summer 1998, Summer 1999, Summer 2000.

FUNDED AND PENDING GRANT AWARDS

Federal Level - Total Awarded to TAMU $2,780,512 (When awards from Collaborative Research PIs are included, the total amount is $2,780,512 + $1,947,941 = $4,728,453)

[4] **Whitfield, J.** (PI), National Science Foundation, Collaborative Research: Investigating STEM Teacher Preparation and Rural Teacher Persistence and Retention (TPR)^2, $365,871; August 2021 – July 2025, DUE #2050249.
Other institutions involved on the collaborative research are Mississippi State University (Lead Institution, Brenner, D., & Franz, D.), Stephen F. Austin University (Hubbard, K., & Cross, C.), Clarkson University (Rivera, S., DeWaters, J., Galluzzo, B., Kavanagh, K., & Ramsdell, M.), Alabama A&M University (Khan, S., & Davenport, L.), University of Alabama-Birmingham (Wyss, J.M.) Fort Hays State University (Adams, P., & Legleiter, E.), Morehead State University (Long, D.), North Dakota State University Fargo (Montplaisir, L., & Duffield, S.), Texas A&M-Commerce (Newton, W., & Fields, M.), Texas Tech University (Dwyer, J., & Johnson, L.), University of Kentucky (Mohr-Schroeder, M.), University of Wisconsin-River Falls (Blodgett, E., Donna, J., & Haroldson, R.), and Winthrop University (Costner, K., Hamm, K., & Johnson, L.).
Total Collaborative Research Award from NSF is $365,871 (TAMU) + $1,733,231 (Other PIs) = $2,099,102.

- *Overview: This project is designed to address STEM teacher workforce challenges through a focus on how educator preparation programs (EPPs) address the unique contexts of rurality and teaching STEM in rural settings. There are a total of 14 collaborating institutions for this project.*
- *Contribution: Member of lead writing team, lead role in creation and ideation of quantitative research plan, co-lead for project's quantitative research.*

[3] Scott, T. (PI), Waxman, H. (Co-PI), & **Whitfield, J**. (Co-PI), National Science Foundation, Texas A&M University Noyce Monitoring and Evaluation, $299,987; September 2014 – August 2019, DUE #1439907.

- *Overview: The project was designed to capture, over time, the characteristics of TAMU Noyce Scholars as they relate to persistence as a teacher, evolving perceptions of the profession and the performance of their K-12 students. Sixty participants were recruited to participate in the three-year longitudinal,quasi-experimental study.*
- *Contribution: Lead writer for proposal, managed budget, lead researcher, responsible for all project reports, lead author on publications.*

[2] Allen, G.D. (PI), Froyd, J. (CO-PI), Maxwell, D. (CO-PI), Nite, S (CO-PI)., Pilant, M. (CO-PI), Austin, A. (CO-Investigator), Aurispa, B. (CO-Investigator), **Whitfield, J**. (Co-Investigator), & Zarestky, J. (CO-Investigator), National Science Foundation, Retention Through Remediation: Enhancing Calculus I Success, $1,150,000; August 2009 – October 2016, DUE #0856767.

- *Overview: The project used a series of technology-based strategies for identifying incoming TAMU STEM students with weak pre-calculus or algebra skills and provide them with a Personalized Study Program to strengthen their pre-calculus skills and position them for success in college mathematics. The Department's Personalized Precalculus Program was the outcome of this project.*
- *Contribution: Developed curricular materials for the project, set-up operations for the project (i.e,, tutors, online conferencing, etc.), co-directed the project with G. Donald Allen, worked with WebAssign to create the Personalized Study Plan, assisted in dissemination of project results, assisted with project reports.*

[1] Pilant, M. (PI), Bollinger, K., Epstien, J., & **Whitfield, J**. (Co-Investigator), Brooks Cole Publishing, Applied Calculus on the Web, $130,000; September 2002 – August 2003.

- *Overview: Created a web-based resource for students to use as a companion to any Applied Calculus textbook.*
- *Contribution: Created problems and wrote short summaries explaining concepts covered in the Applied Calculus course.*

State Level – Total Awarded $2,920,982

[15] **Whitfield, J**. (PI), & Scott, T. (Co-PI), The University of Texas (Sponsor), TAMU College Station Math Regional Collaborative, $110,982; May 2017 – July 2018.

- *Contribution: Reviewed and edited proposal, managed budget, responsible for project reports, supported project personnel.*

[14] **Whitfield, J**. (PI), & Scott, T. (Co-PI), The University of Texas (Sponsor), TAMU College Station Math Regional Collaborative, $99,909; May 2016 – July 2017.

- *Contribution: Reviewed and edited proposal, managed budget, responsible for project reports, supported project personnel.*

[13] Capraro, R. M. (PI), Capraro, M. M. (Co-PI), Morgan, J. (Co-PI), Scott, T. (Co-PI), Stillisano, J. (Co-PI), Waxman, H. (Co-PI), & **Whitfield**, **J.** (Co-Investigator), Texas Higher Education Coordinating Board STEM Teacher Professional Learning, TAMU STEM Collaborative for Teacher Professional Learning, $764,000; July 2013 – December 2015.

- *Contribution: Created one of the eight online modules for the TAMU STEM Collaborative for Teacher Professional Learning Network (TPLN). Title of the module was Scientific Applications of Mathematics. The modules are still in use and more than 3500 teachers and teacher educators have completed the modules. Currently the modules are being used by preservice teachers and those working on passing the certification test in Texas.*

[12] Scott, T. (PI), & **Whitfield**, **J.** (Co-PI), Greater Texas Foundation, aggieTEACH Program Expansion and Improvement Project, $150,000; June 2012 – June 2015.

- *Contribution: Lead writer on proposal, created and managed project deliverables, responsible for project reports, managed budget.*

[11] Scott, T. (PI), & **Whitfield, J**. (Co-Investigator), Texas Instruments Foundation, Challenge Grant for aggieTEACH Project, $150,000; August 2011 – August 2013.

- *Contribution: created and managed project deliverables*

[10] **Whitfield, J**. (PI), & Scott, T. (Co-PI), Texas Higher Education Coordinating Board, Mathematics, Science and Technology Teacher Preparation Academies (MSTTPA) Cycle 4B, aggieTEACH Teacher Preparation Academy, $500,000; May 2011 – December 2013.

- *Contribution: Lead writer for proposal, managed budget, directed all project operations, responsible for all project reports, responsible dissemination of project results and impact.*

[9] Allen, G.D. (PI), Goldsby, D. (Co-PI), Nite, S. (Co-PI), & **Whitfield, J**. (Co-PI), Texas Higher Education Coordinating Board Teacher Quality Type B, Functions in Algebra 1 and Algebra 2 with Vertical Alignment, $320,476; June 2009 – May 2012.

- *Contribution: Member of proposal writing team, managed budget, led project workshops, observed participant's classrooms, created project curriculum, assisted with project reports.*

[8] Allen, G.D. (PI), Nite, S. (Co-PI), & **Whitfield, J** (Co-PI), Contract for Texas Education Agency Mathematics Instructional Coaches Service Provider, Gladewater ISD, $26,150; May 2009 – December 2011.

- *Contribution: Developed curriculum for teacher professional development, trained teachers for one academic year to improve student achievement on State standardized tests.*

[7] Allen, G.D. (PI), Nite, S. (Co-PI), & **Whitfield, J** (Co-PI). Contract for Texas Education Agency Mathematics Instructional Coaches Service Provider, El Paso ISD, $82,000; May 2008 – December 2010.

- *Contribution: Developed curriculum for teacher professional development, trained teachers for one academic year to improve student achievement on State standardized tests.*

[6] Allen, G.D. (PI), Goldsby, D. (Co-PI), & **Whitfield, J.** (Co-PI), Texas Higher Education Coordinating Board Teacher Quality Type B, High Quality Instruction for Algebra I, $86,897; June 2008 – May 2009.

- *Contribution: Member of proposal writing team, managed budget, led project workshops, observed participant's classrooms, created project curriculum, assisted with project reports.*

[5] Allen, G.D. (PI), Goldsby, D. (Co-PI), & **Whitfield, J.** (Co-PI), Texas Higher Education Coordinating Board Teacher Quality Type B, High-Quality Instruction in Algebra 2, $88,197; June 2007 – May 2008.

- *Contribution: Member of proposal writing team, managed budget, led project workshops, observed participant's classrooms, created project curriculum, assisted with project reports.*

[4] Allen, G.D. (PI), Goldsby, D. (Co-PI), & **Whitfield, J.** (Co-PI)), Texas Higher Education Coordinating Board,Teacher Quality Type B, Assuring Quality in Algebra 2 Instruction, $84,990; June 2006 – May 2007.

- *Contribution: Led project workshops, observed participant's classrooms, created project curriculum.*

[3] Allen, G.D. (PI), Goldsby, D. (Co-PI), & **Whitfield, J.** (Co-PI)**,** Texas Higher Education Coordinating Board Teacher Quality Type B, Assuring Excellence in Algebra 2 instruction, $81,997; June 2005 – May 2006.

- *Contribution: Led project workshops, observed participant's classrooms, created project curriculum.*

[2] Allen, G.D. (PI), Goldsby, D. (Co-PI), Poage, P. (Co-PI), & **Whitfield, J**. (Co-PI), Texas Higher Education Coordinating Board Teacher Quality Type B, Assuring Excellence in Precalculus Instruction, $79,993; June 2004 – May 2005.

- *Contribution: Led project workshops, observed participant's classrooms, created project curriculum.*

[1] Allen, G.D., (PI), Austin, A., Axelson, H., Bollinger, K., & **Whitfield, J.** (Co-Investigator), Texas Higher Education Coordinating Board Teacher Quality Type A, Precalculus - Practices of Good Teaching through Content, Technology, and Interaction, $295,391; January 2004 – January 2005.

- *Contribution: Developed project curriculum and materials, assisted with dissemination of project deliverables.*

University/Local - Total Awarded $864,500

[9] Young, J. (PI), & **Whitfield, J.** (Team Member), Texas A&M University, Recruiting Diverse STEM Teachers: Lesson Learned from Funded NOYCE Projects in Texas, $10,000; January 2021 – June 2022.

- *Contribution: Advisory role.*

[8] **Whitfield, J. (**PI), Texas A&M University, Enhancing the Design of Gateway Experiences (EDGE) Grant, Increasing Student Success in Gateway Courses for the Applied Calculus

Course Sequence, $255,500, January 2019 – August 2021. Senior Personnel: Allen, A., Bollinger, K., Coffelt, V., Orchard, P., Shields, S.; Graduate Assistant: Chuu, Eric.

- *Contribution: Wrote proposal, managed budget, managed and supported project personnel, formulated project reports, assisted with ideation of content, edited and created content, edited and created videos, led research efforts, responsible for dissemination of project deliverables.*

[7] **Whitfield, J.** (PI), Texas A&M University, Open Education Resource Grant, Widening Access for all Students in MATH 140 and MATH 142 with Low- or No-cost Open Education Resources, $112,000, June 2019 – August 2020. Senior Personnel: Allen, A., Bollinger, K., Coffelt, V., Lynch, R., Orchard, P., & Shields, S.; Contributors: Deaton, A., Kilmer, K., & Tripode, J.

- *Contribution: Wrote proposal, managed budget, managed and supported project personnel, assisted with ideation of content and book format, created and edited content, responsible for dissemination of project deliverables.*

[6] **Whitfield, J.** (PI), Texas A&M University, Academic Innovation Grant, Promoting Student Success in Calculus with On-Demand Videos, $10,000; January 2019 – December 2020.

- *Contribution: Wrote proposal, managed budget, created content and videos, responsible for dissemination of project deliverables.*

[5] Brightsmith, D. (PI), Arcak, C. (Co-PI), Coates, C. (Co-PI), Flaherty, J. (Co-PI), Gonzalez, E. (Co-PI), Mateos, M. (Co-PI), Song, H. (Co-PI), Vargas, R. (Co-PI), & **Whitfield, J.** (Co-PI), Texas A&M University Global Engagement Grant, The Costa Rican Core Semester: A sustainable, high-impact learning experience at the Soltis Center for Research and Education $80,000; June 2018 – September 2021.

- *Contribution: Reviewed proposal.*

[4] **Whitfield, J.** (PI), Texas A&M University, Innovative Pedagogy Grant Program, $10,000; September 2017 – December 2018.

- *Contribution: Wrote proposal, created content for MATH 140 online course.*

[3] **Whitfield, J**. (PI), Parker, D. (Co-PI), Texas A&M University, College of Education and Human Development Global Education Programs, $12,000; August 2016 - May 2017.

- *Contribution: Wrote proposal, directed project operations, managed budget, assisted with research.*

[2] Pilant, M. (PI), Furuta, R. (Co-PI), **Whitfield, J**. (Co-PI), & Wu, B. (Co-PI), Texas A&M University Tier-One Program Grant (TOP), Virtual Math Learning Center (VMLC), $300,000; September 2016 – August 2019.

- *Contribution: Member of writing team, assist in creating project deliverables, managed student workers, participate in ideation for format of project website, helped organize videos, created standards and rubric for assessing video quality, assisted with process for video captioning.*

[1] Hester, Y (PI), **Whitfield, J**. (Co-PI), & Zarestky, J. (Co-PI), TAMU Instructional Technologies, Large Sections in Business Mathematics: Interaction, Communication, and Personalization through Technology, $75,000; May 2012 – May 2013.

- *Contribution: Member of writing team, advised on project operations and reports.*

PUBLICATIONS

Peer-Reviewed Articles

[3] **Whitfield, J.**, Banerjee, M., Waxman, H., Scott, T., Capraro, M. M. (2021). Recruitment and retention of STEM teachers through the Noyce scholarship: A longitudinal study. *Teaching and Teacher Education*, *103*.

[2] **Whitfield, J.**, Waxman, H., & Scott, T. (2016). Comparing Robert Noyce scholars and non-Robert Noyce scholar's perceptions of teaching. *Journal of Research in STEM Education*, *2*, 90-105.

[1] Lyons, L. C., Fleming, K. J., **Whitfield, J.**, Ging, A. B., Ketsetzi, A., Etchells, M. J., & Waxman, H. C. (2015). Evaluating the implementation of core practices in teacher education programs in Texas. *Texas Forum of Teacher Education, 5,* 33-48.

Peer-Reviewed Conference Proceedings

[9] Cevik, E., Yalvac, B., Johnson, M., Kuttolamadom, M., Porter J. R., & **Whitfield, J**. (2021). Improving in-service science and mathematics teachers' engineering and technology content and pedagogical knowledge (evaluation). *Proceedings of the American Society for Engineering Education (ASEE)*, Virtual Conference.

[8] Cevik, E., Johnson, M., Yalvac, B., **Whitfield, J**., Kuttolamadom, M., Porter J.R., & Morgan, J.A. (2020). Professional development activities for secondary STEM teachers and students' engineering content knowledge and attitudes. *Proceedings of the American Society for Engineering Education (ASEE)*, Virtual Conference.

[7[Cevik, E., Johnson, M., Yalvac, B., **Whitfield**, J., Kuttolamadom, M., Porter, J.R., & Morgan, J.A. (2020). A study of secondary teachers' perceptions of engineers and conceptions of engineering, *Proceedings of the American Society for Engineering Education (ASEE)*, Virtual Conference.

[6] Conway, B. M., Erikson, P. C., Strutchens, M., & **Whitfield, J.** (2019). An alternative approach to the traditional internship, *Proceedings of the Annual Meeting of the Georgia Association of Mathematics Teacher Educators*, *13* (1), Article 3. Available at: https://digitalcommons.georgiasouthern.edu/gamte-proceedings/vol13/iss1/3

[5] Cevik, E., Johnson, M., Yalvac, B., **Whitfield, J**., Porter J., R., Morgan, J., A. & Kuttolamadom, M. (2019). Exploring parents' knowledge and awareness of engineering through middle school students' summer camps. *Proceedings of the American Society for Engineering Education (ASEE)*, Tampa, Florida.

[4] Cevik, E., Johnson, M.D., Yalvac, B., **Whitfield, J.**, Kuttolamadom, M., Porter, J. R., & Morgan, J. A. (2018). Assessing the effects of authentic experiential learning activities on teacher confidence with engineering concepts, *Proceedings of the American Society for Engineering Education (ASEE)*, Salt Lake City, Utah.

[3] Allen, G. D., Nite, S. B., Pilant, M. S., & **Whitfield, J**. (2013). Using a math placement exam to develop a personalized precalculus program. In P. Bogacki (Ed.). *Electronic Proceedings of the 25th International Conference on Technology in Collegiate Mathematics*. Norfolk, VA: Pearson.

[2] Nite, S. B., Allen, G. D., Sledge, S., & **Whitfield, J**. (2012). Retention through remediation: Enhancing calculus I success. In P. Bogacki (Ed.). *Electronic Proceedings of the 24th International Conference on Technology in Collegiate Mathematics*. Norfolk, VA: Pearson.

[1] Bollinger, K., & **Whitfield, J**., (2003). Applied calculus on the web: An interactive approach to freshman calculus. *16th Annual International Conference of Technology in Collegiate Mathematics.*

Books and Book Chapters

[12] Allen, A., & Orchard, P. (2021). *Calculus for business and social sciences*. Texas A&M University Libraries OAKTrust. https://oaktrust.library.tamu.edu/handle/1969.1/194503. Contributing authors: Bollinger, K., Coffelt, V., Kilmer, K., & **Whitfield, J.**

[11] Bollinger, K., & Coffelt, V. (2020). *Mathematics for business and social sciences*. Texas A&M University Libraries OAKTrust. https://hdl.handle.net/1969.1/188687. Acknowledgement of support: **Whitfield, J.**

[10] Strutchens, M., **Whitfield, J**., Erikson, D., & Conway, B. (2020). Fostering collaborative and reflective teacher candidates through paired placement student teaching experiences. In W.G. Martin, B. Lawler, A. Lischka, W. Smith (Eds.) *The mathematics teacher education partnership: The power of a networked improvement community to transform secondary mathematics teacher preparation.* Information Age Publishing.

[9] Strutchens, M., Sears, R., **Whitfield, J**., Biagetti, S., Brosnan, P., Olaff-Lewis, J., Junor-Clarke, P., Erickson, D., Parrish, C., Conway, B., & Ellis, R. (2018). Implementation of paired placement and co-planning/co-teaching field experience models across multiple contexts. In T. Hodges & A. Baum (Eds.) *Handbook of research on field-based teacher education*. IGI Global.

[8] Capraro, M. M., **Whitfield, J.**, Etchells, M. J., & Capraro, R. M. (Eds.). (2016). *A companion to interdisciplinary STEM project-based learning: For educators by educators* (2nd ed.). Sense.

[7] Hilsabeck, T., **Whitfield, J.**, & Etchells, M. J. (2016). Building a better tomorrow: Designing the home of the future. In M. M. Capraro, J. Whitfield, M.J. Etchells, & R.M. Capraro (Eds.). *A companion to interdisciplinary STEM project-based learning: For educators by educators* (2nd ed., pp. 19-26). Sense.

[6] Lopez, R.N., & **Whitfield, J.** (2016). Design your own high tech high school. In M. M. Capraro, J. Whitfield, M. J. Etchells, & R. M. Capraro (Eds.). *A companion to interdisciplinary STEM project-based learning: For educators by educators* (2nd ed., pp. 39-46). Sense.

[5] Makenna, A., & **Whitfield, J.** (2016). Survival of the fittest: Flying hamster genetics. In M. M. Capraro, J. Whitfield, M. J. Etchells, & R. M. Capraro (Eds.). *A companion to interdisciplinary STEM project-based learning: For educators by educators* (2nd ed., pp. 209-214). Sense.

[4] McKissick, S., & **Whitfield, J.** (2016). Building a better cereal box. In M. M. Capraro, J. Whitfield, M. J. Etchells, & R. M. Capraro (Eds.). *A companion to interdisciplinary STEM project-based learning: For educators by educators* (2nd ed., pp. 11-18). Sense.

[3] Oseguera, L., Etchells, M.J., & **Whitfield, J.** (2016). Carbon footprint reduction. In M. M. Capraro, J. Whitfield, M. J. Etchells, & R. M. Capraro (Eds.). *A companion to interdisciplinary STEM project-based learning: For educators by educators* (2nd ed., pp. 139-144). Sense.

[2] **Whitfield, J.** (2016). The water flows through it: Design and build an irrigation system. In M. M. Capraro, J. Whitfield, M. J. Etchells, & R. M. Capraro (Eds.). *A companion to interdisciplinary STEM project-based learning: For educators by educators* (2nd ed., pp. 121-136). Sense.

[1] **Whitfield, J**. (2010). *The insider's guide to teaching with problem solving approach to mathematics* (pp. 10, 34, 37, 39-40, 43-47, 53-55, 59, 63-66). Pearson.

Online Modules

[2] **Whitfield, J.**, & Schroeder, C. (2014), *Scientific Applications of Mathematics*, TAMU STEM Collaborative for Teacher Professional Learning – STEM Certificate, produced for Texas Higher Education Coordinating Board.

[1] Bollinger, K., Epstein, J., Kiffe, T. Pilant, M., & **Whitfield, J.** (2006). *Applied Calculus on the Web.* Brooks/Cole Publishing – A series of web-based instructional modules for use in Applied Calculus courses.

Online Videos

[3] **Whitfield, J.,** (December 2021). Business math asynchronous week-in-review, *TAMU Math Learning Center*, College Station, TX; Link to videos.

[2] **Whitfield, J.**, (October 2005). Finite mathematics for business economics, life sciences and social sciences by Barnett/Ziegler/Byleen. *My Math Lab*. Upper Saddle River, NJ: Prentice Hall Publishing Company.

[1] **Whitfield, J.**, (October 2005). Finite mathematics and its applications by Goldstein/Schneider/Siegel. *My Math Lab*. Upper Saddle River, NJ: Prentice Hall Publishing Company.

AWARDS

Texas A&M University or College Level

[12] University Professorship for Undergraduate Teaching Excellence, Texas A&M University, 2022.

[11] The Association of Former Students Distinguished Achievement Award for Teaching, Texas A&M University, 2022

[10] Association of Former Students Distinguished Achievement College-Level Award in Teaching, College of Science, 2021.

- *This award is designed to distinguish those teachers who maintain high expectations of their students and who ensure academic rigor in their courses.*

[9] Distinguished Ph.D. Honor Graduate, Texas A&M Department of Teaching, Learning, and Culture, December 2017.

- *This award is given to PhD graduates. They are chosen for their academic achievements, leadership, promise of future impact, and passion for transforming lives. This is the most prestigious award in the TAMU College of Education and Human Development.*

[8] Graduating Military & Veteran Staff Appreciation Coin, May 2017

- *This is a special appreciation coin earned by graduating student veterans. These student veterans present the coin to someone who had the most significant impact on them during their time at A&M. This coin was presented to me by Blake Fox.*

[7] Invited guest for TAMU Football Game, representing faculty efforts for STEM Education: Guest, October 2015.

- *This honorary experience was organized by the TAMU Provost's office to honor faculty who have had an impact on teacher education. For this honor, I attended one Texas A&M football game and was recognized during the game by standing on Kyle field and being introduced to the crowd during a commercial break.*

[6] Texas A&M Chancellor's Academy of Teacher Educators, February 2014.

- *This award honoring individuals who have made significant contributions to the field of teacher education across the Texas A&M System.*

[5] Center for Research, Evaluation, and Advancement of Teacher Education (CREATE) Award for Exemplary Faculty Practice, July 2013.

- *This award highlights exceptional quality in university-based teacher preparation across the Lone Star State.*

[4] Texas A&M University Fish Camp Namesake 2013.

- *Namesakes are considered an honor because each camp is named after someone who has contributed to Texas A&M in a positive way.*

[3] College of Education and Human Development John E. Trott, Jr. Award in Student Recruiting, October 2012.
- *This award is given to individuals not employed by the College of Education and Human Development (CEHD). Recipients of this award demonstrate outstanding recruitment efforts for the CEHD and show evidence of having a positive influence on prospective students.*

[2] Texas A&M University System Student Led Award for Teaching Excellence (SLATE), Fall 2009.
- *This award was designed to allow students to recognize those teachers who go above and beyond the typical expectations to deliver a first-rate education*

[1] The Physician's Center Hospital Honorary Guest Coach TAMU Women's Softball, Spring 2009.
- *This is awarded by the TAMU Athletic Department to give selected instructors a more immersive experience of the life of student athletes. For this award, student athletes select one of their professors to attend a game as a special guest. The instructor is invited on the field/court to receive recognition by the team for having a positive influence on the student athlete.*

Departmental Level

[5] TAMU Mathematics Departmental Award for Leadership in Teaching with Technology, Spring 2021.
- *This award highlights extraordinary leadership in organizing and implementing the transition to online teaching and hybrid teaching during the covid pandemic.*

[4] TAMU Mathematics Departmental Award for Leadership in Online Instructional Training, Spring 2020.
- *This award highlights faculty who demonstrated strong leadership and dedication to the department's teaching mission and unfailing generosity in helping others during the transition to online teaching during the covid pandemic.*

[3] Grant Recipient Award, Texas A&M Department of Teaching, Learning, and Culture, May 2015.
- *This award is given to a TLAC graduate student who secures non-TAMU grant funding for research activities.*

[2] Department of Mathematics Outstanding Service Award, December 2009.

[1] Department of Mathematics Outstanding Teaching Award, December 2005.

PRESENTATIONS

Research and Academic Presentations – National Level

[38] Lewis, J., Fukawa-Connelly, T., Whitfield, J., (2021, September), *Finding a program for your first NSF grant proposal.* Invited panelist for the Special Interest Group of Mathematics Association of America (SIGMAA) Mathematical Knowledge for Teaching (MKT), virtual workshop.

[37] Ruiz, A., Matthews, M., Kaschner, S., Jorgensen, T., (Panelists); Olimb, C., Lai, Y., **Whitfield, J.**, (Session Organizers) (2021, August), *MAA Panel Session: Three mathematicians and one math education researcher share lesson for future teachers*. Panel Session Organizer for Math Fest, virtual conference.

[36] Brenner, D., Coady, M., Downey, J., & **Whitfield, J.** (2021, February). *The importance of a federal investment in rural education research*. Invited panelist for the Organizations Concerned about Rural Education (OCRE) Federal Rural Education Policy Summit, virtual conference.

[35] Madden, J., Lia, Y., Alvarez, J., **Whitfield, J.** (2021, January). *AMS special session on mathematics courses designed to develop mathematical knowledge for teaching high*

school. Session Organizer for Joint Math Meetings (JMM), virtual conference.

[34] Shields, S., Allen, A., Bollinger, K., Coffelt, V., Orchard, P., **Whitfield, J**., Scott, T., & Oswald, E. (2020, October). *Open Source TAMU final video*. YouTube. https://www.youtube.com/watch?v=qRgh9l1qtPs&t=27s. =

[33] Shields, S., Allen, A., Bollinger, K., Coffelt, V., Herbert, B., Orchard, P., & **Whitfield, J**. (2020, October). *Customizing textbooks without publishers: Empowering math faculty to create an open educational resource (OER)*. Submitted to the call for 10-minute asynchronous Lightning Talk at the 2020 Open Education Conference https://www.youtube.com/watch?v=qRgh9l1qtPs&t=27s.

[32] Cevik, E., Johnson, M., Yalvac, B., **Whitfield, J**., Porter J., R., Morgan, J., A. & Kuttolamadom, M. (2019, June). *Exploring parents' knowledge and awareness of engineering through middle school students' summer camps*. Paper presented at the American Society for Engineering Education (ASEE), Tampa, Florida.

[31] **Whitfield, J.,** & Capraro, M. M. (2019, February). *The Impacts and perceived effects of scholarship programs to recruit STEM teachers*, Submitted to the call for 2019 Annual Association of Mathematics Teacher Educators (AMTE) Conference, Orlando, FL.

[30] Banerjee, M., Waxman, H., **Whitfield, J**., & Scott, T. (2018, July). *Job satisfaction and STEM teachers: Linking the Noyce scholarship to job satisfaction*, Poster session presented at Robert Noyce Summit, Washington D.C.

[29] **Whitfield, J**., Banerjee, M., Waxman, H., Scott, T., & Capraro, M. M. (2018, July). *Reflections from Noyce scholars on their route to STEM teaching*, Submitted to the call for Robert Noyce Summit, Washington D.C.

[28] Cevik, E., Johnson, M., Yalvac, B., **Whitfield, J**., Porter J., R., Morgan, J., A. & Kuttolamadom, M. (2018, June). *Assessing the effects of authentic experiential learning activities on teacher confidence with engineering concepts*. Paper presented at the American Society for Engineering Education (ASEE), South Lake City, Utah.

[27] **Whitfield, J**., Banerjee, M., Waxman, H., Scott, T., & Capraro, M. M. (2018, June). *Reflections from Noyce scholars on their route to STEM teaching*, Submitted to the call for Mathematics Teacher Educators Partnership (MTEP) 2018 Annual Conference, Denver, CO.

[26] Wilding, L., Amick, L., & **Whitfield, J.** (2018, June). *Practices that support beginning mathematics teachers*, Submitted to the call for Mathematics Teacher Educators Partnership (MTEP) 2018 Annual Conference, Denver, CO.

[25] Struchens, M., **Whitfield, J**., Erickson, D., Conway, B., & Ellis, R. (2018, June). *Paired-placement internships: A collaborative and empowering model for clinical teaching,* Submitted to the call for Mathematics Teacher Educators Partnership (MTEP) 2018 Annual Conference, Denver, CO.

[24] Walters, L., Green, M., **Whitfield, J.**, Parker, D., & Harmon, F. (2018, April). *The good, the bad, and the ugly: Reflections on an urban school experience*, Submitted to the call for American Educational Research Association (AERA) Annual Conference, New York, NY.

[23] Wright, K., Stillisano, J., Rollins, K., **Whitfield, J.**, Scott, T., Banerjee, M., & Waxman, H. (2018, April). *Examining STEM integration in Texas teacher preparation programs*, Submitted to the call for American Educational Research Association (AERA) Annual Conference, New York, NY.

[22] Cevik, E., Johnson, M., Yalvac, B., **Whitfield, J**., Porter J., R., Morgan, J., A.,

Kuttolamadom, M., & Raven, S. (2018, March). *Project-based engineering and its effect on students' perceptions of engineers, engineering, and technology*. Poster presented at the National Association for Research in Science Teaching (NARST), Atlanta, GA.

[21] **Whitfield, J**., Waxman, H., & Scott, T. (2017, April). *Comparing Noyce scholars and non-Noyce scholar's perceptions of teaching*. Submitted to the call for National Council for Teachers of Mathematics (NCTM) Research Conference, San Antonio, TX.

[20] **Whitfield, J.,** Conway, B., Erickson, D., Parrish, C., & Strutchens, M. (2017, April). *Paired-placement: A collaborative & empowering model for clinical teaching*. Submitted to the call for National Council for Teachers of Mathematics (NCTM) Research Conference, San Antonio, TX.

[19] **Whitfield, J**. (2016, July). *Characteristics and perceptions unique to Noyce Scholars: Do they exist?* Submitted to the call for Robert Noyce Summit, Washington D.C.

[18] **Whitfield, J.** (2016, June). *Comparing Noyce scholars' decisions to teach and perspectives on teaching to non-Noyce Scholars*. Submitted to the call for Mathematics Teacher Educator – Partnership (MTEP) 2016 annual meeting, Atlanta, GA.

[17] **Whitfield, J**., & Scott, T. (2016, June). *Increasing success in calculus with placement exams and online tutoring*. Submitted to the call for Science & Mathematics Teaching Imperative (SMTI) National Conference, San Antonio, TX.

[16] Lyons, L.C., **Whitfield, J.**, & Waxman, H. (2016, April). *Comparing K12 STEM teachers' college of preparation: Effects on preparedness, autonomy, and commitment to teaching*. Submitted to the call for the annual conference Roundtable Session 51 of the American Educational Research Association (AERA), Washington D.C.

[15] **Whitfield, J.** (2015, April). *A longitudinal evaluation of the Robert Noyce scholarship project at Texas A&M University*. Submitted to the call for the annual conference Division H Roundtable Forum of the American Educational Research Association (AERA), Chicago, IL.

[14] Pilant, M., & **Whitfield, J.** (2015, March). *The impact of placement exams on retention for engineering mathematics*. Submitted to the call for the 27th International Conference on Teaching in Collegiate Mathematics (ICTCM), Las Vegas, NV.

[13] Allen, G. D., Pilant, M., & **Whitfield, J.** (2015, March). *PRIMES: Placement, remediation, intervention in the math engineering sequence.* Poster session presented at the 27th International Conference on Teaching in Collegiate Mathematics (ICTCM), Las Vegas, NV.

[12] Parker, D., & **Whitfield, J**. (2014, June). *Mentoring and induction to increase retention of secondary mathematics and science teachers*. Submitted to the call for the third annual conference for the Mathematics Teacher Education Partnership (MTEP), Milwaukee, WI.

[11] Parker, D., & **Whitfield, J**. (2014, June). *Successful clinical experiences through university and school partnerships*. Submitted to the call for the third annual conference for the Mathematics Teacher Education Partnership (MTEP), Milwaukee, WI.

[10] Parker, D., & **Whitfield, J**. (2014, June). *Reeling them in: Capturing the attention of potential students*. Submitted to the call for the third annual conference for the Mathematics Teacher Education Partnership (MTEP), Milwaukee, WI.

[9] Morgan, J., & **Whitfield, J.** (2014, March). *Robotics/engineering applications for high school classrooms*. Submitted to the call for the conference for New Horizons in STEM Education, San Antonio, TX.

[8] Allen, D., Nite, S., & **Whitfield., J**. (2014, March). *Retention through remediation enhancing calculus I success*. Poster session presented at the annual grantees meeting for Science, Technology, Engineering, & Math Talent Expansion Program (STEP), Washington D.C.

[7] Allen, D., Nite, S., & **Whitfield., J**. (2014, March). *Improving student success in foundational courses in math*. Submitted to the call for the annual grantees meeting for Science, Technology, Engineering, & Math Talent Expansion Program (STEP), Washington D.C.

[6] **Whitfield, J.** (2013, June). *Equipping pre-service teachers with technological skills for 21st century classroom*. Submitted to the call for the meeting of the Science and Mathematics Teacher Imperative (SMTI) Mathematics Teacher Education Partnership (MTEP), St. Louis, MO.

[5] **Whitfield, J**. (2013, June). *Equipping pre-service teachers with technological skills for 21st century classroom*. Submitted to the call for the national conference of the Science and Mathematics Teacher Imperative (SMTI), St. Louis, MO.

[4] Pilant, M., Sledge, S., & **Whitfield, J**. (2011, March). *Improving success in calculus with an online personalized precalculus program*. Submitted to the call for the 23rd International Conference on Technology in Collegiate Mathematics (ICTCM), Denver, CO.

[3] Ivanov, I., Pizer, A., Rosenfield, S., Roth, V., Scott, M. Dedic, & **Whitfield, J**. (2009, August). *Assessing the effectiveness of online homework*. Submitted to the call for Math Fest, Portland, OR.

[2] Allen, G.D., & **Whitfield J**. (2009, March). *Creating Camtasia movies*. Submitted to the call for the International Conference on Technology in Collegiate Mathematics (ICTCM), New Orleans, LA.

[1] Bollinger, K. & **Whitfield, J**. (2003, October). – *An interactive approach to freshman calculus*. Submitted to the call for the 16th Annual International Conference on Technology in Collegiate Mathematics (ICTCM), Chicago, IL.

Research and Academic Presentations – Regional or State Level

[17] **Whitfield, J**., Shields, S.M., & Herbert, B. (2020, September). *Customizing textbooks without publishers: Empowering math faculty to create an open educational resource (OER).* Submitted to the call for 2020 Texas A&M Chancellor's Summit on Academic Technology, virtual conference.

[16] Cevik, E., Yalvac, B., **Whitfield, J**., & Raven, S. (2019, February). *Middle school students' perceptions of engineers and engineering-design summer camp*. Submitted to the call for the annual conference of the Southwest Educational Research Association (SERA), San Antonio, TX.

[15] Conway, B., Erikson, D., Parish, C., Strutchens, S., & **Whitfield, J**. (2017, October). *An alternative approach to the traditional internship model*. Paper presented at the Georgia Association of Mathematics Teacher Educators (GAMTE), Eagle Rock, GA. Retrieved from http://digitalcommons.georgiasouthern.edu/gamte/.

[14] **Whitfield, J.**, Waxman, H., & Scott, T. (2016, October). *Comparing Noyce scholar's decisions to teach and perspectives on teaching to non-Noyce scholars*. Submitted to the call for Consortium of State Organizations for Texas Teacher Education (CSOTTE) Fall 2016 Teacher Education Conference, San Marcos, TX.

[13] Wilding, L., & **Whitfield, J**. (2016, October) *Induction and support for secondary STEM teachers*. Submitted to the call for Consortium of State Organizations for Texas Teacher

Education (CSOTTE) Fall 2016 Teacher Education Conference, San Marcos, TX.

[12] Alexander, J., **Whitfield, J.**, & Parker, D. (2016, June). *Certification programs…past, present, and future*. Invited talk for the Region 6 Summer Administrators Conference, League City, TX.

[11] Waxman, H., & Scott, T. (2016, February). *Comparing Noyce scholars' decisions to teach and perspectives on teaching to non-Noyce scholars*. Submitted to the call for the annual conference of the Southwest Educational Research Association (SERA), New Orleans, LA.

[10] Jabbari, N., Lyons, L., Sonnenburg, S., Waxman, H., & **Whitfield, J**. (2015, February). *A meta-analysis of the effects of teacher education components on student outcomes*. Submitted to the call for the annual conference for the Southwest Educational Research Association, San Antonio, TX.

[9] Lyons, L., Sandoval, S., Waxman, H., & **Whitfield, J**. (2015, February). *The impact of principals' prior leadership experiences and background on teacher professional development*. Submitted to the call for the annual conference for the Southwest Educational Research Association (SERA), San Antonio, TX.

[8] Waxman, H., Rollins, K., Stillisano, J, Wright, K., **Whitfield, J**., & Scott, T. (2014, October). *A needs assessment of teacher education in Texas: Issues in implementing STEM and college and career readiness standards.* Submitted to the call for the conference of the Consortium of State Organizations for Texas Teacher Education (CSOTTE), Austin, TX.

[7] Capraro, R. M., Capraro, M. M., Morgan, J., Stillisano, J., **Whitfield, J.**, & Wright, K. (July, 2014). *Teacher professional learning network summer institute*. Submitted to the call for the summer conference for the STEM Collaborative, College Station, TX.

[6] Hendry, W., Urquhart, M., **Whitfield, J**., & Zipkes, S., (2014, May). *Teacher training, preparation, & recruitment*. Submitted to the call for the symposium on STEM education for The Texas Tribune, On the Road, Dallas, TX.

[5] Perkins, A., **Whitfield, J**., Parker, D., Schroeder, C., & Wilding, L. (2013, November). *TPACK analysis of a STEM teacher preparation academy*. Submitted to the call for the Research Conference on Teacher Education of the Center for Research, Evaluation, & Advancement of Teacher Education (CREATE), Austin, TX.

[4] **Whitfield, J**. (2013, July). *Using the iPad for data collection.* Submitted to the call for the Conference for the Advancement of Mathematics Teaching (CAMT), San Antonio, TX.

[3] **Whitfield, J**. (2012, March). *TAMU STEM academy*. Poster session presented at the annual meeting of Math, Science, Technology Teacher Preparation Academy, El Paso, TX.

[2] **Whitfield, J**. (2012, February). *Using SmartNotebook software and the SmartBoard in the mathematics classroom*. Submitted to the call for the Conference on Teaching of Mathematics 6-12 of Sam Houston State University, Huntsville, TX.

[1] **Whitfield J.**, & Zarestky, J. (2009, June). *Using online assessment to impact achievement*. Submitted to the call for the Conference for the Advancement of Mathematics Teaching (CAMT), Houston, TX.

Research and Academic Presentations – Local Level

[6] Allen, A., Bollinger, K., Coffelt, V., Herbert, B., Orchard, P., Shields, S., & Whitfield, J. (2020, April). *Opening the door to math: Making math accessible through open education resources*, Submitted to the call for TAMU Transformation Teaching & Learning Conference (TTLC), College Station, TX. (Proposal accepted but conference

cancelled because of COVID)

[5] **Whitfield, J**. (2013, September). *The aggieTEACH program*. Submitted to the call for a seminar of Nutritional Sciences, College Station, TX.

[4] Criscione, J., Erukhimova, T., North, S., & **Whitfield, J**. (2013, January). *Faculty panel.* Submitted to the call for the conference of the Texas A&M University Teacher Summit, College Station, TX.

[3] Parker, D., & **Whitfield, J**. (2012, June). *Using iPads in the classroom*. Submitted to the call for the Collaborative Summer Institute at Texas A&M University, College Station, TX.

[2] **Whitfield, J**., & Parker, D. (2012, February). *The STEM teacher preparation academy*. Submitted to the call for the Teaching with Technology Conference of Texas A&M University, College Station, TX.

[1] **Whitfield J.** (2002, November). *The real world of teaching public school*. Submitted to the call for pre-service teachers of Texas A&M University, College Station, TX.

Teacher Professional Development Presentations

[26] **Whitfield, J.** (2021, June). *TEKS in Aggie STEM PBLs*, Invited talk for the Summer Boot Camp of Aggie STEM, College Station, TX.

[25] **Whitfield, J.** (2018, June). *TEKS and STAAR/EOC; Discussing standards*, Invited talk for the Summer Boot Camp of Aggie STEM, College Station, TX.

[24] **Whitfield, J.** (2017, October). *An introduction to graph theory*, Invited talk for the TAMU Math Regional Collaborative Fall Institute, College Station, TX.

[23] **Whitfield, J.** (2017, July). *Geogebra workshop*, Invited talk for the TAMU Math Regional Collaborative Summer Institute, College Station, TX.

[22] Capraro, M. M., Capraro, R. M., & **Whitfield, J.** (2017, May). *Project-based learning in mathematics (3-8 grades)*, Invited talk for the Texas Regional Collaborative Mathematics Leadership Institute, Austin, TX.

[21] **Whitfield, J.** (2015, July). *How to incorporate standards into project-based learning*. Invited talk for the Summer Boot Camp of Aggie STEM, College Station, TX.

[20] Carter, T., & **Whitfield, J**. (2015, February). *Using chemical reactions as a platform for STEM integration*. Invited talk for the TAMU STEM Collaborative for Teacher Professional Learning - Teacher Professional Learning Network.

[19] **Whitfield, J**. (2014, December). *Using telescopes to integrate STEM content*. Invited workshop presentation for the TAMU STEM Collaborative for Teacher Professional Learning - Teacher Professional Learning Network, online.

[18] **Whitfield, J**. (2014, October). *Integrating STEM content using Newton's first law of motion*. Invited workshop presentation for the TAMU STEM Collaborative for Teacher Professional Learning - Teacher Professional Learning Network, online.

[17] **Whitfield, J**. (2014, September). *STEM project-based learning lessons*. Invited workshop presentation for the TAMU STEM Collaborative for Teacher Professional Learning - Teacher Professional Learning Network, online.

[16] **Whitfield, J**., & Nite, S. (2012, January). *Ideas to excite students about math*. Invited presentation for the Texas A&M University Teacher Summit, College Station, TX.

[15] **Whitfield, J**. (2011, March). *Using problem solving strategies for TAKS*. Invited presentation for the Math Instructional Coaches Program, Gladewater, TX.

[14] **Whitfield, J**. (2010, October – 2011, April). *Middle school and high school mathematics content professional development*. Invited monthly presentations (via Centra) for Gladewater high school and middle school teachers, online.
[13] **Whitfield, J**. (2010, October). *How assessment changes with handheld technology*. Invited talk for the Katy ISD faculty, Katy, TX.
[12] **Whitfield, J**. (2010, April). *Using problem solving strategies for TAKS*. Invited talk for the Math Instructional Coaches Program, Gladewater, TX.
[11] **Whitfield, J**. (2010, March). *Effective methods for teaching fractions, measurement, and proportionality part 2*. Invited presentation for the Math Instructional Coaches Program, Gladewater, TX.
[10] **Whitfield, J.** (2009, November). *Effective methods for teaching fractions, measurement, and proportionality part 1*. Invited presentation for the Math Instructional Coaches Program, Gladewater, TX.
[9] **Whitfield, J**. (2009, September – 2010, April). *Middle school and high school mathematics content professional development*. Invited monthly presentations (via Centra online conferencing software) for Gladewater high school and middle school teachers, online.
[8] Allen, G.D., Nite, S., & **Whitfield, J.** (2009, August). *Research based instruction for mathematics and math coaching.* Invited presentations for the Math Instructional Coaches Program, Gladewater, TX.
[7] Nite, S., & **Whitfield, J.** (2007, March). *Saturday math TAKS camp*. Invited workshop for Hearne High School juniors and seniors who had not passed Exit Level Math TAKS at Texas A&M University, College Station, TX.
[6] **Whitfield, J.**, & Nance, R., (2006, July). *Navigating through the classroom with the TI Navigator*. Submitted to the call for the Conference for the Advancement of Mathematics Teaching (CAMT), Houston, TX.
[5] Allen, G.D., & **Whitfield J**. (2006, March). *Using Centra conferencing software to teach online courses*. Submitted to the call for the technical meeting of Teacher Quality, Austin, TX.
[4] **Whitfield, J**. (2006, March). *Using the TI Navigator in the classroom*. Invited workshop for Early High School math teachers of Early High School, Early, TX.
[3] **Whitfield, J**. (2005, December). *Using the TI Navigator in the classroom.* Invited workshop for Snook High School math teachers of Snook High School, Snook, TX.
[2] Allen, G.D., Janes, S., Sledge, S., & **Whitfield, J**. (2004, May). *TOT – using Teacher Quality grant type A precalculus materials*. Invited workshop for Teacher Quality grant recipients, high school mathematics coordinators and other math education educators, Houston, TX.
[1] Allen, G.D., Janes, S., Sledge, S., & **Whitfield, J**. (2004, May). *TOT – using Teacher Quality grant type A precalculus materials.* Invited workshop for Teacher Quality grant recipients, high school mathematics coordinators and other math education educators, Fort Worth, TX.

Texas A&M University POSSE Presentations

- *Overview: The Posse Foundation is an organization that identifies, recruits and trains urban youth with exceptional leadership and academic potential and sends them to select institutions of higher education in multicultural teams, or posse, of 10 students. The TAMU posse cohorts are selected from students in Atlanta and Houston.*

[4] **Whitfield, J.** (2015, May). *Mathematical applications for STEM.* Invited talk for POSSE

Foundation Houston STEM Cohort III, Houston, TX.

[3] **Whitfield, J.** (2015, February). *Getting math ready for college*. Invited talk for POSSE Foundation Houston STEM cohort III, Houston, TX.

[2] **Whitfield, J**. (2014, February). *Getting math ready for college*. Invited talk for POSSE Foundation Houston STEM Cohort II, Houston, TX.

[1] Scott, T., & **Whitfield, J**. (2013, March). *Getting math ready for college*. Invited talk for POSSE Foundation Houston STEM Cohort I, Houston, TX.

WebAssign Presentations

- *Overview: The WebAssign Company invited me (as the Online Homework Coordinator for the TAMU Math Department) to different universities and colleges to share how the Math Department at Texas A&M University used WebAssign for large, service-level courses.*

[19] **Whitfield, J**. (2013, December). *Implementation of WebAssign into college calculus classes*. Invited talk at the University of Texas, Austin, TX.

[18] **Whitfield, J**. (2013, June). *Calculus placement test and personalized precalculus remediation*. Invited talk for the meeting of the WebAssign Users Group (WAUG), Raleigh, NC.

[17] **Whitfield, J**. (2013, March). *Use "The Force" to enhance your classroom*. Invited talk for conference for Mathematics Digital Engagement, Detroit, MI.

[16] **Whitfield, J**. (2013, February). *Best practices for administering your course: Trials and triumphs of a course coordinator*. Invited talk for webinar hosted by Cengage Learning, online.

[15] **Whitfield, J**. (2012, December). *Orchestrating efforts to improve university calculus courses*. Invited talk for the University of Delaware mathematics faculty, Newark, DE.

[14] **Whitfield, J.** (2012, October). *Enhanced WebAssign hands-on training for precalculus & calculus*. Invited talk for the Greatest Common Factor in Success Cengage Team-Up Event for Cengage Learning, Houston, TX.

[13] **Whitfield, J**. (2012, March). *Keynote speaker: Implementing EWA and best practices*. Invited talk for the workshop of Cengage Calculus Media and Technology, San Francisco, CA.

[12] **Whitfield, J**. (2012, February). *EWA implementation at TAMU*. Invited talk for the University of Alabama mathematics faculty, Tuscaloosa, AL.

[11] **Whitfield, J**. (2012, February). *Keynote speaker: Implementing EWA and best practices*. Invited talk for the workshop of Cengage Calculus Media and Technology, Charlotte, NC.

[10] **Whitfield, J.** (2011, November). *Managing large math courses using WebAssign*. Invited talk for the University of South Carolina mathematics faculty, Columbia, SC.

[9] Beatty, R., Shaw, P., Simpson, R, & **Whitfield, J**. (July 2011). *Best practices for implementing enhanced WebAssign*. Invited panel discussion at the training event for Enhanced WebAssign, Belmont, CA.

[8] **Whitfield, J**. (2011, June). *Using the personal study plan as a learning tool*. Invited talk for the WebAssign Users Group (WAUG), Raleigh, NC.

[7] **Whitfield, J**. (2011, April). *The basics of using WebAssign*. Invited talk for Victoria College mathematics faculty, Victoria, TX.

[6] **Whitfield, J**. (2009, October). *WebAssign implementation at TAMU*. Invited talk for the Math Day of Austin Community College mathematics faculty, Austin, TX.

[5] **Whitfield J**. (2009, June). *WebAssign implementation at TAMU.* Invited Web-presentation to Collin County Community College District (CCCCD) mathematics faculty, Plano, TX.
[4] **Whitfield J**. (2009, May). *WebAssign implementation at TAMU*. Invited talk for the San Antonio College mathematics faculty, San Antonio, TX.
[3] **Whitfield J**. (2009, May). *WebAssign implementation at TAMU.* Invited Web-Presentation to the Palo Alto College mathematics faculty, San Antonio, TX.
[2] **Whitfield J**. (2009, March). *WebAssign implementation at TAMU.* Invited Web-Presentation to the New Mexico State University mathematics faculty, Las Cruces, NM.
[1] **Whitfield J.** (2009, March). *WebAssign implementation at TAMU.* Invited talk for the El Paso Community College mathematics faculty, El Paso, TX.

SERVICE

National Level

[4] Special Interest Groups of Mathematical Association of America Mathematical Knowledge for Teaching (SIGMAA-MKT); Program Coordinator (elected position), January 2020 – December 2021. Other Committee Members: James Alvarez, Lisa Berger, Maria Fung, Yvonne Lai, James Madden, Michael Matthews, Carl Olimb, & Cody Patterson.
- *This is a Mathematical Association of America (MAA) special interest group (SIG) on the mathematical knowledge for teaching (MKT). This SIGMAA is a community for all who work on preparation or development for teaching K-12 mathematics. As the Program Coordinator I help organize special events for the SIGMAA. We meet monthly and collaborate via email to organize special events.*

[3] Association of Public Land Grant Universities (APLU), Science & Mathematics Teacher Imperative (SMTI), East Central Texas Mathematics Teacher Partnership; Team Leader, Fall 2013 – 2018; Member, 2018 – 2020. Other Team Members: Brittney Falahola, Mark Klespis, Dawn Parker, Clint Richardson, & Laura Wilding.
- *The Mathematics Teacher Education Partnership (MTEP) is a working group comprised of over 40 secondary mathematics teacher preparation programs across the country – working collaboratively to redesign secondary mathematics teacher preparation programs. The East Central Texas Mathematics Teacher Partnership is one of the 40 collaborating teams of MTEP.*

[2] Association of Public Land Grant Universities (APLU) Committee to Create Standards for Online Introductory Mathematics Courses Courseware Project in Precalculus; Committee Member, Spring 2013. Other Committee Members: Timothy McNicholl (Chair), Alison N. Ahlgren, Marilyn Carlson, Thomas Dick, Daniel Groves, Wolfgang Kliemann, Shirin Malekpour, Mary Ann Rankin, Hal Sadofsky, & Nancy Shapiro.
- *This was a committee convened by APLU to create standards for an online introductory mathematics course that emphasized precalculus content. We met 7 times to create a report was submitted to APLU July 2013. Report is available upon request.*

[1] Math Advisory Panel for Advanced Instructional Systems (WebAssign); Advisory Member, January 2010 – December 2017. Other Committee Members: Kimberly Benien, Dale Dawes, Erik Epp, John Hopkins, Lewis Johnson, Matt Kohlmyer, Michael Lafreniere, Jerry Magnan, Stephen Matchett, Gabriel Mendoza, Jack Narayan, Norbert John Pienta, Mark Santee, Amit Savkar, Brenda M Shryock, Mike Warner, & Jeff Zeager.
- *This was an external advisory board consisting of faculty across the nation with the charge of giving feedback and input to the development of the online homework system, WebAssign.*

State Level

[2] Texas Higher Education Coordinating Board (THECB) Academic Course Guide Manual (ACGM) Advisory Committee; Appointed Member, September 1, 2019–August 31, 2023.

- *The Coordinating Board established the ACGM Advisory Committee to improve student transfer statewide by managing the lower-division courses intended for transfer. This committee recommends the addition and deletion of courses from the ACGM, as well as reviews and revises descriptions, student learning outcomes, and course parameters for existing courses. The committee meets twice per year in Austin, TX.*

[1] Center for Research Evaluation and Advancement of Teacher Education (CREATE) Exceptional Teacher Candidate Review Committee; Invited Member, May 2014.

- *I was one of five faculty members from around the Texas who were invited to be part of the selection process for an award recognizing exceptional teacher candidates. We read nomination packets before convening for a one-day meeting to discuss the nominations and select the winners.*

Texas A&M University

[18] Fall 2020 Online Testing Task Force; Committee Chair, Summer 2019.

- *Because of the transition to online teaching due to Covid-19, the TAMU Vice Provost commissioned a task force to review and study possibilities for online testing in Fall 2020. As chair of the committee, it was my responsibility to lead meetings during Summer 2020 and draft a report for the Vice Provost that outlined the committee's recommendations. The Aggie Proctoring Center, use of Honorlock, and detailed documents outlining alternative forms of assessment were all a result of the committee's recommendations.*

[17] Texas A&M University Academic Planning Committee; Committee Member, Summer 2019, Fall 2020, Spring 2021.

- *This committee was convened by the TAMU Vice Provost to advise the provost on how the University should adapt academic operations and procedures due to the pandemic. The committee met often starting in April 2020 and continued to meet until decisions to move to normal face-to-face operations in Fall 2021.*

[16] Texas A&M University Dean of Faculties Academic Professional Faculty (APTF) Committee; Elected Member, January 2020–December 2023.

- *The APTF is comprised of elected members of APT faculty across the University. The committee discusses the status of Academic Professional Track Faculty at the University and interfaces between the Faculty Senate and the TAMU APT relevant issues, including job security, salary, and job satisfaction. The APTF has monthly meetings during the fall and spring semesters.*

[15] Texas A&M University Committee for Teaching to Increase Diversity and Equity in STEM (TIDES); Appointed Member, Summer 2019 – December 2021.

- *Six faculty from STEM fields were invited to attend the Association of American Colleges & Universities (AACU) four-day intensive conference on Teaching to Increase Diversity and Equity in STEM (TIDES). We currently met twice per month to develop strategies on campus to improve diversity, equity, and inclusion in STEM courses. The largest outcome of this group (so far) is the creation of the Inclusive Teaching Faculty Fellows (ITFF) program.*

[14] Texas A&M University Inclusive Teaching Faculty Fellows (ITFF) Facilitator; Appointed Facilitator, January 2021 – December 2021.

- *The ITFF program is sponsored by the TAMU Dean of Faculties and the Center for Teaching Excellence. In this program I work with the other TIDES committee members and help lead the three-semester program focused on exploring inclusive teaching in large classes. In the program we meet twice-per-month with the twelve fellows (selected from all colleges within the University) and focus on inclusive teaching, anchored by The Chronicle of Higher Education's "How to Make Your Teaching More Inclusive - Advice Guide" and Columbia University's "Inclusive Teaching: Supporting All Students in the College Classroom" MOOC. Summer 2021 focuses on course redesign work, planning to put into practice that learned in the spring. Fall 2021 focuses on the implementation and assessment of the inclusive teaching interventions each instructor chooses to use.*

[13] Texas A&M University Math Learning Center Task Force; Member, Spring 2019 – Fall 2019.

- *In Spring 2019 the Provost gave approval to create the University's Math Learning Center (MLC). This task force was charged with outlining the personnel descriptions, list of possible activities, draft of budget, and other tasks related to getting the MLC up and running. Target opening date of the MLC was Spring 2020.*

[12] TAMU Center for Teaching Excellence (CTE) Faculty and Student Advisory Board (FSAB); Member, Fall 2018 – **Present**.

- *The TAMU Center for Teaching Excellence invites 2-3 faculty members from each College, a Graduate Student representative, a Post-Doc Association representative, Faculty Senate representatives, and a representative from OGAPS, OAI, and IEE. The CTE hosts four FSAB meetings during the academic year (generally, 2 in the Fall and 2 in the Spring). The purpose of the FSAB is to welcome new CTE members, update the board on the University's initiatives on teaching and learning, and provide time for college discussions. You will receive an agenda the week prior to the meeting.*

[11] Health and Kinesiology Clinical Assistant Professor for Pedagogy, Search Committee; Outside member, Spring 2019 & Spring 2017.

- *I served as the outside member for this faculty search committee. We met six times to discuss candidates, attended guest lectures from each candidate, and attended dinners with each candidate.*

[10] Academic Innovation Grant Certificate of Completion, Spring 2019.

- *In this certification program, I took a deeper dive into creating and designing online courses. For this course, I designed the online MATH 140 for the Math Department.*

[9] Instructional Technology Certification Program, Spring 2018.

- *In this certification program, I completed the Improving your Online Course IYOC) and the Quality Matters (QM) Course for online learning and instruction.*

[8] Texas A&M University Student Success Collaborative (SSC) Leadership Committee: Member, September 2017 – December 2018.

- *I service on this committee as a representative from MATH. This committee had twice per semester meetings and had discussions to help the TAMU Office of Student Success get started.*

[7] Texas A&M University Council for Educator Preparation Programs (CEPP) (formerly the Council for Teacher Education [CTE]): Member, 2011-2017; Chair, Fall 2017-Spring 2019.

- *The Council for Educator Preparation Programs (CEPP) serves as an advisory body to the Dean of the College of Education and Human Development regarding matters relating to educator preparation and certification. Monthly meetings are held during the Fall and Spring semesters.*

[6] Texas A&M University POSSE Foundation, Houston branch summer immersion experience: Instructor, Summer 2013, Summer 2014, & Summer 2015.

- *Worked with the incoming POSSE members during their summer immersion program to help prepare them for the level of rigor of mathematics classes at TAMU.*

[5] University Supervisor for Student Teaching Paired Placement Model: Spring 2015.

- *In this role I served as the adviser and supervisor for six pre-service teachers during their clinical teaching experience at Rudder High School. In this role I observed each clinical teacher, wrote midterm and final reports on their progress, and conducted meetings with the clinical teacher and their cooperating teacher.*

[4] Texas A&M University POSSE Scholarship selection for Atlanta and Houston POSSE: December 2014.

- *Appointed by the University's Provost office, I had the unique opportunity to traveled to Atlanta, GA and Houston, TX to choose the 2013 POSSE class.*

[3] Brazos Valley Cooperative Teacher Education Center; Secretary, Fall 2013 – Fall 2017.

- *Attended meetings once per semester where I participated in the meetings and took minutes/notes.*

[2] Aggie Educator Network (AEN) College of Science Representative; Member, Fall 2012 – Fall 2016.

- *The AEN is Constituent Network of the TAMU Association of Former Students that disseminates professional development and graduate school opportunities to Aggie Educators based on the latest research at TAMU involving best practices. I met with the board of directors of the AEN and served as a representative from the College of Science.*

[1] Texas A&M University STEM Teacher Education Council; Member, Fall 2011 – Fall 2013.

- *Twice per year the Colleges of Science and Education would convene to discuss and collaborate on issues related to secondary STEM teaching.*

Texas A&M College of Science

[1] TAMU College of Science Dean's Faculty Advisory Council (FAC); Appointed Member, January 2020 – December 2020; Elected Vice Chair, January 2021 – August 2022.

- *The College of Science Dean's Faculty Advisory Council (FAC) serves as an advisory body to help formulate policies and programs for the improvement and development of the College of Science. They advise the dean on matters of significant interest and importance to the faculty and makes recommendation on matters pertinent to attaining educational excellence within the College and to fulfilling the educational role of the College of Science within the University. The committee meets monthly during the fall and spring semesters.*

Department of Mathematics

[27] Department of Mathematics Strategic Planning Committee (SOAR): Co-chair, Spring 2022.

- *As co-chair, I helped organized and facilitate meetings related to the departmental strategic planning for non-research plans using SOAR (Strengths, Opportunities, Aspirations, Results).*

[26] Department of Mathematics Academic Professional Track Committee (APTC): Chair, August 2017 – August 2022.

- *The APTC is responsible for discussing APT faculty's annual performance evaluations and any other items related to APT faculty affairs (i.e, promotion documents, APT hiring, etc.). As chair, I am responsible for organizing and running the meetings as well as communicating input from the APTC to the Head and Associate Head.*

[25] Department of Mathematics Academic Professional Track Teaching Committee: Chair, August 2019 – August 2022.

- *The APT teaching committee is responsible for formally observing the teaching of APT faculty by performing class visits and writing a report. As chair of the committee, I am responsible for organizing the class visits, performing some class visits, and ensuring teaching reports are complete. The teaching committee reports are passed onto the APTC for faculty evaluation purposes.*

[24] Mathematics Department Head Search Committee; Elected Member, Spring 2019.

- *This was an elected position to represent APT faculty on the selection of the Department Head. The committee met about 6 times and had email communication to formulate required reports to the Dean.*

[23] Department of Mathematics Non-STEM Core Curriculum Committee (NSCC): Chair, August 2017 – August 2022.

- *This committee advises the Assistant and Associate Heads on items related to service courses not traditionally taken by engineering majors. As chair, I call meetings, organize the agenda, run the meeting, and report back to the Associate Head on decisions from the committee.*

[22] High School Math Contest; October 2020, November 2021.

- *Helped organize the electronic process for recording the numeric scores assigned by the graders.*

[21] Organized Brown Bag Lunch Series on Teaching, Fall 2017, Spring 2018.

- *I set up monthly meetings for APT faculty to share teaching strategies, discuss teaching, and learn from other faculty how to improve instructional practices.*

[20] Department of Mathematics Math Circle; Session Leader, November 2017.

- *Led one Saturday session for students attending Math Circle.*

[19] Math Placement Exam; Administrator, 2015 – 2018.

- *Responsible for all operations related to the Math Placement Exam. This includes answering the mathassessment@math.tamu.edu emails, working with TAMU EIS (those who program Howdy), WebAssign, and TAMU identity to ensure the PlaceU platform is connected to TAMU databases. This is a very time intensive task as approximately 10,000 students take the MPE each summer.*

[18] Math Placement Exam migration to Place U; Team Leader, Summer 2017.

- *Responsible for coordinating the change of systems from the traditional WebAssign platform to the newer PlaceU system (created by WebAssign).*

[17] Math Placement Exam migration to WebAssign; Team Leader, Summer 2015.

- *Responsible for coordinating the change of systems from the TAMU homegrown MPE system to the traditional WebAssign platform.*

[16] TAMU Mathematics Department Math Placement Exam Improvement Group; Leader, 2013 – **Present**.

- *Lead efforts with colleges across campus, particularly the College of Engineering, to adjust the administration of the MPE. This includes ensuring smooth transition among testing platforms and testing policies (i.e., proctored vs. non-proctored)*

[15] SEE Math Camp; Session Activity Leader, 2013.

- *Led one session for SEE Math Camp.*

[14] Future Aggie Mathematics Educators (FAME); Faculty Sponsor, 2011-2016.

- *I was a co-faculty advisor for the student group FAME. We had monthly meetings with students.*

[13] Mathematics Department Head Search Committee; Appointed Member, Spring 2010.

- *This was an elected position to represent APT faculty on the selection of the Department Head. The committee met about 6 times and had email communication to formulate required reports to the Dean.*

[12] Lecture Core Committee; Elected Member, Fall 2010 – Spring 2012.

- *The Lecturer Core Committee (LCC) recommended guidelines concerning issues that affect lecturers and others who teach core classes (primarily Math 131, 141, 142, 150, 166). The LCC also helped facilitate communications of procedures and concerns and serve as a liaison between the lecturers and the Associate Head of Operations and Department Head.*

[11] Departmental Lunchtime Fitness Group; Leader, Fall 2009 – Spring 2014.

- *Led fitness sessions for faculty and staff during the lunch hour.*

[10] Online Homework Committee: Chair Fall 2008 – Spring 2011.

- *This committee helped oversee the curriculum and content for each course mandated to have an online homework component. As chair, I took the recommendations of the committee and was responsible for implementing the recommendations.*

[9] Brazos Valley P-16 Council; Member Fall 2009 – Spring 2010.

- *This was a council that convened teachers from the K-12 arena and post-secondary instructors to discuss educational issues facing both K-12 schools and Universities.*

[8] Precalculus Content Textbook Project; Editor, Fall 2009 – Spring 2010.

- *Converted the textbook created by Mike Stetcher (and others) from Scientific Notebook to PDF so it could be used in MATH 150.*

[7] Senior Lecturer Promotion Committee (Subcommittee L); Appointed Chair Spring 2008, Elected Member Spring 2009.

- *This committee oversaw the promotions from Lecturer to Senior Lecturer.*

[6] Math Department Help Session Planning Group; Fall 2003 – Spring 2004, Fall 2006 – Spring 2008, Fall 2018 - Spring 2019.

- *Interviewed and assisted in hiring Help Sessions workers for entry-level math courses.*

[5] Textbook Adoption Committees: Member, 2003 for MATH 142; Member, 2005 for MATH 142, Chair, 2007 for MATH 131.

- *Reviewed textbooks for courses and provided recommendations to Associate Head regarding which textbook to use in classes.*

[4] Mentor for Mathematics Majors: Volunteer, Fall 2005 – Spring 2006.

- *Met with assigned mentees once per month to discuss their experience as a math major.*

[3] Classroom Observation Committee for Lecturers; Spring 2003 – Spring 2004.
- *Performed classroom visits for assigned Lecturers.*

[2] Help session Reorganization Committee; Spring 2003.
- *Advised Associate Head for improvements to the Help Sessions.*

[1] UIL Academic Meet; Grader, Spring 2003.
- *Graded exams one Saturday from contestants at the meet.*

Department of Teaching, Learning, and Culture

[2] Search Committee Member for the Teaching, Learning, and Culture (TLAC) Department's Middle Grade and High School Faculty Cluster Hire, Outside Member, Fall 2021 & Spring 2022.
- *I was invited to be a representative outside of the TLAC Department to serve on the search committee to hire three tenured track faculty for the middle grade and high school education at the rank of Assistant/Associate Professor*

[1] Mentoring of Graduate Teaching Assistants for TEFB 406 & TEFB 407; Faculty Mentor, Fall 2018.
- *Mentored TLAC department graduate students who were instructor of record for these teaching methods classes for secondary pre-service teachers.*

GRADUATE STUDENTS – SERVED AS PRIMARY ADVISOR (CHAIR)

Graduated Students: Master's degrees (non-thesis)

[19] Emily Lindsey (December 2021)
[18] Elizabeth LeBouef (Co-Chair, August 2021)
[17] Lia Hoying (August 2020)
[16] Michelle Favreau (December 2019)
[15] Katie Brown (December 2019)
[14] Karian Geoghegan (August 2019)
[13] Kristi Burks (August 2019)
[12] John Cowen (May 2019)
[11] David R. Riley (May 2019)
[10] Haley Pichler (May 2019)
[9] Jessica Tripode (May 2019)
[8] Lawrence E. Yee (December 2018)
[7] Teri St. Pierre (December 2018)
[6] Leslie Thomas (August 2018)
[5] Chris Bolognese (August 2018)
[4] Maci Kaiser (August 2018)
[3] Jessica Crook (August 2018)
[2] Debra Brewer (December 2017)
[1] Aaron Mock (May 2017)

GRADUATE STUDENTS – SERVED AS COMMITTEE MEMBER

Graduated Students: Ph.D

[4] Ajai Cribbs (May 2022)
[3] Julia Calabrese (May 2022)
[2] Manjari Banerjee (August 2021)
[1] Danielle Bevan (May 2021)

Graduated Students: Ed.D
[2] J. Michelle Shimek (August 2022)
[1] Travis Brown (December 2021)

Current Students: Ed.D
[6] Christopher Rhoades
[5] Cheryl Kerr
[4] Tiffani Cortez
[3] Misty Germaine
[1] Kristopher Fuller

Graduated Students: Master's degrees (non-thesis)
[17] William Barker (May 2022)
[17] Roumeng Zhang (December 2020)
[16] David Jones (December 2020)
[15] Tucker Harding (May 2020)
[14] Kelly Cummings (December 2019)
[13] Sarah Gibson (December 2019)
[12] Samuel Mimms (May 2019)
[11] Mark Gray (May 2019)
[10] Cheng Zhang (May 2019)
[9] Justin Jones (May 2019)
[8] Anna Obryan (May 2019)
[7] YingChih Wang (May 2019)
[6] Lauren Bingham (December 2018)
[5] Badri Johnson (December 2018)
[4] Barbara J. Smith (May 2017)
[3] Carolos Shine (August 2018)
[2] Jennifer Rieger (May 2018)
[1] Nikki Chandler (August 2017)

Current Students: Master's degrees (non-thesis)

COURSES TAUGHT AND TEACHING RECORD

Texas A&M University – Department of Mathematics
[20] College Algebra (MATH 102); Summer 2000.
[19] Mathematical Concepts: Calculus (MATH 131); Spring 2006.
[18] Mathematical Concepts: Calculus-Honors (MATH 131H); Spring 2006.
[17] Mathematics for Business and Social Sciences (MATH 140); Spring 2018 in asynchronous online format, Fall 2018, Fall 2021.
[16] Business Mathematics I (MATH 141); Summer 1999, Spring 2002, Fall 2005, Fall 2008.
[15] Business Mathematics II (MATH 142); Summer 2001, Fall 2002, Spring 2003, Fall 2003, Spring 2019, Fall 2020, Spring 2022.
[14] Business Mathematics II-Honors (MATH 142H); Fall 2003.
[13] Calculus I for Biological Sciences (MATH 147); Fall 2012.

[12] Engineering Mathematics I (MATH 151); Fall 2001, Spring 2002, Spring 2009, Fall 2009, Spring 2010, Fall 2013, Fall 2015.
[11] Engineering Mathematics II (MATH 152); Summer 2002, Summer 2003.
[10] Analytic Geometry and Calculus (MATH 171); Spring 2003, Spring 2004, Spring 2021.
[9] Calculus (MATH 172); Fall 2002.
[8] Structure of Mathematics I (MATH 365); Spring 2004, Fall 2004, Spring 2005, Spring 2006, Fall 2006, Spring 2007, Fall 2007, Spring 2008, Fall 2008.
[7] Survey of Mathematics Problems I (MATH 645 asynchronous online); Fall 2016.
[6] Survey of Mathematics Problems II (MATH 646 asynchronous online); Spring 2016, Spring 2017, Summer 2018.
[5] Special Topics: Teaching Algebra and Precalculus (MATH 689 asynchronous online); Summer 2008.
[4] Week-in Review Business Mathematics II (MATH 142); Fall 2002, Fall 2003, Spring 2008.
[3] Week-in Review Engineering Mathematics I (MATH 151); Fall 2001, Spring 2002, Spring 2004.
[2] Week-in Review Structure of Mathematics I (MATH 365); Fall 2006.
[1] Course Coordinator Business Mathematics II (MATH 142); Fall 2003, Spring 2007.

Texas A&M University – Department of Teaching, Learning, and Culture
[2] Science in the Middle and Secondary School (TEFB 406); Fall 2016, Spring 2017.
[1] Mathematics in the Middle and Secondary School (TEFB 407); Fall 2016, Spring 2017.

Texas A&M University – aggieTEACH, College of Science
[1] Self-Directed Experiences with Adolescents (SCEN 201); Fall 2011, Spring 2012, Fall 2012, Spring 2013, Fall 2013, Spring 2014, Fall 2014, Spring 2015, Fall 2015, Spring 2016, Fall 2016, Spring 2017, Fall 2017.

Blinn College – Bryan Campus
[2] Intermediate Algebra (MATH 0312) – Intermediate Algebra; Fall 2000, Spring 2001
[1] Mathematics, Analysis I (MATH 1324) – Mathematics, Analysis I; Fall 2001, Spring 2002, Fall 2002, Spring 2003.

A&M Consolidated High School
[1] Algebra 1; Fall 1999, Spring 2000, Fall 2000, Spring 2001.
[2[Algebra 2/Geometry Block; Fall 1999, Spring 2000, Fall 2000, Spring 2001.

Bryan High School
[6] TAAS Math; Fall 1996, Spring 1997, Fall 1997, Spring 1998, Fall 1998, Spring 1999.
[5] Algebra 1-4A; Fall 1996, Spring 1997, Fall 1997, Spring 1998, Fall 1998, Spring 1999.
[5] Algebra 1; Fall 1995, Spring 1996.
[4] Algebra 2; Fall 1995, Spring 1996.
[3] Geometry; Fall 1998, Spring 1999.
[2] Trigonometry; Spring 1997.
[1] Elementary Analysis; Fall 1996.

Jane Long Middle School

[1] 7th Grade Mathematics & 8th Grade Mathematics; Fall 1993, Spring 1994, Fall 1994, Spring1995.

REVIEWS

Standardized Tests

[1] Texas Success Initiative Item Review, Reviewed for the College Board, January 2013.

Textbooks

[10] Precalculus Electronic Courseware, Reviewed for Cengage Publishing, June 2012.
[9] *Brief Calculus – Practical Applications* (1e) by David B. Johnson, Freeman, July 2008.
[8] Comparative Review of *Applied Calculus for the Managerial, Life, and Social Sciences* by Tan, *Applied Calculus* by Larson, and *Applied Calculus* by Barnett/Zeigler/Byleen, Reviewed for Prentice Hall, May 2005.
[7] Comparative Review of *Applied Calculus* by Barnett/Zeigler/Byleen and *Calculus and Its Applications* by Bittinger, Prentice Hall, December 2004.
[6] *Applied Calculus* by Fox and West, Pearson, December 2004.
[5] *Finite Math* by Fox and West, Pearson, December 2004.
[4] *Finite Math and Its Applications* by Goldstein, Schneider, and Siegel, Prentice Hall, December 2004.
[3] Comparative Review of *Calculus & Its Applications* (10e) by Goldstein/Lay/Schneider vs. *Calculus* (8e) by Hoffmann/Bradley and *Calculus* (8e) by Bittinger. Reviewed for Prentice Hall, April 2004.
[2] *Calculus for the Managerial, Life, and Social Sciences* (6e) by Tan, Thompson Learning, September 2003.
[1] *Calculus: Applications and Technology for Business, Social and Life Sciences* (2e) by Tomastik, Thompson Learning, November 2002.

Online Resources

[2] *Applied Calculus Interactive Website* to accompany Waner & Costenoble textbook, Thompson Learning, June 2007.
[1] *My ILRN Experience,* prepared for Brooks/Cole Publishing, May 2004.

TECHNOLOGICAL SKILLS

Proficiency in Software Programs

Microsoft Access, Microsoft Word, Microsoft PowerPoint, Microsoft Excel, Microsoft OneNote, Camtasia, Snag-It, Zoom Online Conferencing, Adobe Acrobat Professional, Macromedia Dreamweaver, Scientific Notebook, TI Connect, SMART Board, TI SmartView, Blackboard Learning Management System.

Computer and Typesetting Languages

LaTeX, HTML, Pascal, Basic.

Other Technologies and Platforms

TI 83/84 Graphing Calculator, Calculator-Based Ranger (CBR), Calculator-Based Lab (CBL), TI Navigator system, WebAssign, Edfinity.

PROFESSIONAL ASSOCIATIONS

[1] Mathematical Association of America (MAA) – Member
[2] National Council of Teachers of Mathematics (NCTM) – Member
[3] Mathematics Teacher Educational Partnership (MTEP) – Member

MISCELLANEOUS POSITIONS

Group Fitness Instructor
[1[Aerofit Health Clubs Group Fitness Instructor, June 1999 – August 2009.

Club Girls Volleyball Coach
[2] Brazos Valley Juniors U14 and U16 Head Coach, December 2002 – June 2004.
[1] Private Coach U14, December 2001-May 2002.

Texas A&M University
[2] National Youth Sports Camp; Instructor, Summer 1994, Summer 1995.
[1] Lady Aggie Volleyball Camp; Head Coach, Summer 2003, Summer 2004, Summer 2005.