

Keith Hubbard

2614 N. Pecan St., Nacogdoches, TX
936.468.1533, hubbardke@sfasu.edu

I am a mathematics professor who is passionate about student engagement both inside and outside the classroom. I am focused on the relationships, pedagogy, and data utilization that drive student success. My research has focused on data analytics, math education, STEM student success, mathematical economics, and noncommutative algebra.

Experience:

2015-Present Stephen F. Austin State University Professor
2012-2015 Stephen F. Austin State University Associate Professor
2005-2011 Stephen F. Austin State University Assistant Professor
2006-2010 James F. Ward & Associates GIS Analyst, Technical Writer
2001-2005 University of Notre Dame Research & Teaching Assistant

Education:

Ph.D. & M.S., mathematics, University of Notre Dame
B.A., mathematics, Point Loma Nazarene University
Certificate, computer programming, Point Loma Nazarene University

Publications:

Gerhold, M., Hubbard, K., Wagon, A., & Cross, C.J. (In Revision). Educator Preparation Program Gatekeeping Data as Predictors of Persistence and Retention

Wagon, A.E., Hubbard, K.E., & Cross, C.J. (To Appear). Lived Experience of STEM Faculty Becoming Teacher Educators. The Texas Forum of Teacher Education.

Wagon, A. E., Church, B., Hubbard, K., & Singh, D. (Under Review). Purposeful Pairings: Roommate Selection Impact on STEM Majors.

Wagon, A.E., Hubbard, K. (To Appear). First-generation students' experience of entering a STEM major. *MAA Notes Volume on DEI Issues in Calculus Programs*.

Cross, C.J., Hubbard, K.E., Wagon, A., & Beverly, L. (In Revision). The impact of individualized support for a rural STEM teacher in an educator preparation program.

Smith, L., Hall, K., Johnston, J., Noe, K. G., Hubbard, K., Beverly, L., & Guidry, M (To Appear). A Systems Approach to Faculty Hiring in Higher Education. *Journal of Higher Education Management*.

Hubbard, K. (2022). The Leaky Math Major Pipeline, *PRIMUS*, 33:1, 51-64.
<https://www.tandfonline.com/doi/full/10.1080/10511970.2021.2023242>

Hubbard, K., Cross, C.J., Gravatt, D., Beverly, L., & Wagon, A. (2021). Pre-Service Science Teacher Attrition: Critical experiences, relationships, and timing. *TxEP: Texas Educator Preparation*, 5, 61-75.

Wagon, A. E., Hubbard, K. (2021). Investigating and Reflecting on the Experiences of STEM Students in a Residential Learning Community. *Learning Communities Research and Practice*, 9(1), Article 3.
<https://washingtoncenter.evergreen.edu/lcrjournal/vol9/iss1/3>

Wagon, A. E., Hubbard, K. E. (2021). The Importance of a Sustained Mentor Program in Preparing Math Educators. *Journal of Mathematics Teacher Education in Texas*, 11(1), 4-5. <https://amte-tx.com/wp-content/uploads/2021/06/JMTET-Spring-2021-CLP-2021-06-12.pdf>

Cross, C.J., Hubbard, K.E., Gravatt, D., & Beverly, L. (2021). STEM major perceptions and persistence to teacher certification. *Journal of STEM Teacher Education*, 56 (2), 31-50.

- Cross, C.J., Hubbard, K.E., Beverly, L., Gravatt, D., & Aul, A. (2020). The continuation of a mentoring network for pre-service teachers into early in-service years. *Issues in Educational Research*, 30(4), 1286-1309. <http://www.iier.org.au/iier30/cross.pdf>
- Kunz, J., Hubbard, K., Beverly, L., Cloyd, M., & Bancroft, A. (2020). What Motivates STEM Students to Want to Teach? *Kappa Delta Pi Record*, October – December 2020, 56(4), 154-159. DOI: 10.1080/00228958.2020.1813507
- Wagnon, A., Hubbard, K., & Cross, C. (2020). The Impact of the Robert Noyce Mentoring Program on Increased Teaching Effectiveness among Teacher Candidates. *Texas Forum of Teacher Education*, 10, 51-60.
- Hubbard, K. (2019). Better is Worth Fighting For, *MAA Focus* (April/May), 18-19.
- Hubbard, K., Beverly, L., Cross, C.J., Mitchell, J. (2019). Where did they go? Sustaining and growing interest in mathematics teaching. In Redmond-Sanogo, A. and Cribbs, J. (Eds.). *Proceedings of the 46th Annual Meeting of the Research Council on Mathematics Learning*. Charlotte, NC, 132-139.
- Stroup, M. D. & Hubbard, K.E. (2016). A New Measure for the Variation of State Tax Prices, *Cato Journal*, 36 No.1 (Winter 2016), 55-67.
- Hubbard, K.E., Embry-Jenlink, K., & Beverly, L.L. (2015). A University Approach to Improving STEM Teacher Recruitment and Retention. *Kappa Delta Pi Record*, 51(2), 69-74, DOI: 10.1080/00228958.2015.1023139
- Hubbard, K.E. & Beverly, L.L. (2014). More than a Circumference, *Link: Official Newsletter of the Association of Mathematics Teacher Educators of Texas* (May) 5.
- Hubbard, K.E., Embry-Jenlink, K., & Beverly, L.L. (2013). Mentoring STEM Majors into a Career in Teaching. In Dominguez, N. and Gandert, Y. (Eds.). *6th Annual Mentoring Conference Proceedings: Facilitating Developmental Relationships for Success*. Albuquerque, NM: University of New Mexico, 1712-1718.
- Hubbard, K.E., Embry-Jenlink, K., & Beverly, L.L. (2013). Attracting STEM Majors into a Career in Teaching. *Texas Forum of Teacher Education* 3, 36-46.
- Stroup, M. D. & Hubbard, K.E. (2013). An Improved Index and Estimation Method for Assessing Tax. *Mercatus Center Working Papers* 13-14, August 2013.
- Hubbard, K. (2009). Vertex coalgebras, modules, commutativity and associativity, *Journal of Pure and Applied Algebra* 213, 109-126.
- Hubbard, K. (2007). The duality between vertex operator algebras and coalgebras, modules and comodules, in: *Lie Algebras, Vertex Operator Algebras and Their Applications*, ed. by Y.Z. Huang and K. Misra, *Contemporary Mathematics* 442, 339-354.
- Hubbard, K. (2006). The notion of vertex operator coalgebra and a geometric construction, *Communications in Algebra* 34 (5), 1541-1589.
- Hubbard, K. (2005). Constructions of vertex operator coalgebras via vertex operator algebras, *Journal of Algebra* 294, 278-293.
- Hubbard, K. (2005). *The notion of vertex operator coalgebra: A construction and geometric characterization*, Ph.D. dissertation. <https://curate.nd.edu/show/tm70ms3885s>

Grants:

- 2022 President's Innovation Fund – Stephen F. Austin State University; Early Detection and Intervention of Disengaged Students II (EDI2), \$34,000, PI
- 2021 National Science Foundation – Robert Noyce Teacher Scholarship Program; Talented Teachers in Training for Texas eXpanded, \$1,439,000, PI.
- 2021 National Science Foundation – Robert Noyce Teacher Scholarship Program; Collaborative Research: Investigating STEM Teacher Preparation and Rural Teacher Persistence and Retention (TPR)²; \$142,000, PI.

- 2021 President's Innovation Fund – Stephen F. Austin State University; Early Detection and Intervention of Disengaged Students using Deep Learning; \$15,000, co-PI.
- 2016 National Science Foundation - Robert Noyce Teacher Scholarship Program; Collaborative Research: Understanding Robert Noyce Teacher Scholarship Outcomes in Texas, \$50,000, PI.
- 2016 National Science Foundation - Robert Noyce Teacher Scholarship Program; Talented Teachers in Training for Texas Phase II (T4 II), \$1,050,000, co-PI, PD.
- 2015 National Science Foundation – Scholarships for Science, Technology, Engineering, and Mathematics; Science and Mathematics Attraction, Retention and Training for Texas (SMART Texas), \$624,000, PI.
- 2015 SFA Faculty Research Engagement Grant; Comparative Analysis of Flipped Learning in College Algebra, \$9,264, PI.
- 2012 National Science Foundation, Texas Undergraduate Mathematics Conference funding, \$3,000, co-PI.
- 2011 National Science Foundation - Robert Noyce Teacher Scholarship Program; Talented Teachers in Training for Texas (T4), \$1,450,000, co-PI, PD.
- 2008 SFA Faculty Research Grant; Bialgebra structure subsuming vertex operator coalgebra, PI.
- 2006 SFA Minigrant; Funding outside speakers for the Yeagy Colloquium.

Honors and Awards:

- 2022 Distinguished Grant Award, Million Dollar Club – Office of Sponsored Research and Programs
- 2022 Bravo Award, Academic Assistance and Resource Center (AARC), awarded to a faculty member “who demonstrates above and beyond support of the AARC”
- 2017 Distinguished Grant Award, Silver Level – Office of Sponsored Research and Programs
- 2016 Distinguished Grant Award for Collaborative Research – Office of Sponsored Research and Programs
- 2015-2016 Jim Towns Endowed Mentoring Professorship – Stephen F Austin State University
- 2015 Distinguished Grant Award for Senior Faculty Research - Stephen F Austin State University
- 2014 Teaching Excellence Award for the College of Sciences and Mathematics
- 2014 STEM oriented Residential Learning Community proposal selected for implementation by Residential Life Department
- 2008 College Algebra curriculum selected as a model state curriculum, Texas College Readiness Project, Educational Policy Improvement Center
- 2006-2007 Texas NExT fellow
- 2003 Outstanding Graduate Student Teacher, Kaneb Center for Teaching and Learning, University of Notre Dame
- 2000-2004 Arthur J. Schmidt Fellowship for mathematics and the sciences
- 2000 Winner of poster competition, Mathematics Association of America meeting at University of California Los Angeles
- 2000 Honored first in graduating class (by grade point average), Point Loma Nazarene University

Teaching Experience:

- Graduate courses taught: Abstract Algebra I and II, Linear Algebra, Independent Study, Thesis Research & Writing

- Undergraduate courses taught: Abstract Algebra, Calculus I, II and III, Mathematics Seminar I, Business Calculus II, Precalculus (A & B), Analytic Geometry, Trigonometry, College Algebra, Finite Mathematics, First-Year Success Seminar
- Online course designed and taught: Concepts of Calculus for 4-8 Mathematics Teacher Specialists
- Directed graduate research in cognitive progressions of questioning within undergraduate mathematics coursework
- Co-Directed graduate research (with Dr. Lesa Beverly) in implementation of research-based pedagogy in the high school classroom, in pedagogical content knowledge for secondary mathematics teachers, and in the predictive value of societal factors on high stakes school mathematics testing
- Led independent study in Hopf algebras and commutative diagrams
- Led independent study in elliptic curve cryptography
- Undergraduate Presentation Co-Directed in triangle trigonometry

Training in Teaching:

- 2005-pres I have observed colleagues teach over 150 times, improving my own teaching and supporting other instructors' growth
- 2020 "Hybrid-ging Modalities: Creating Instructional Blends that Work" workshop, Center for Teaching and Learning, SFA
- 2020 "How to Flourish at a distance" workshop, Center for Teaching and Learning, SFA
- 2019 "Solving the Mystery of Student Engagement: Harnessing the Potential of Experiential Learning" workshop, Center for Teaching and Learning, SFA
- 2019 "Connecting with Gen Z" workshop, Center for Teaching and Learning, SFA
- 2019 "Implementation of Math Pathway" webinar, Seminole State College, Hawkes Learning
- 2018 "Intro to Zoom" workshop, Center for Teaching and Learning, SFA
- 2018 "Content and Communication Tools" workshop, Center for Teaching and Learning, SFA
- 2018 "Online Course Estate Planning 101" workshop, Center for Teaching and Learning, SFA
- 2012 "Technology Blast" gathering, Teaching Excellence Center, SFA
- 2010-2011 Brown Bag Teaching Lunches, Department of Mathematics and Statistics, SFA
- 2008 "Online Teaching" teaching circle, Teaching Excellence Center, SFA
- 2006 "Communicating in the classroom" teaching circle, Teaching Excellence Center, SFA
- 2006 "Student Advising" teaching circle, Teaching Excellence Center, SFA
- 2005-2008 Observed over 50 colleague lectures
- 2005 "Striving for Excellence in Teaching" Certification, Kaneb Teaching Center, Notre Dame
- 2002 Teaching Seminar Series, Department of Mathematics, Notre Dame
- 2001 Teaching Seminar Series, Department of Mathematics, Notre Dame

National Service:

- 2017-2020 Chairperson, Committee on Articulation and Placement, Mathematics Association of America
- 2017-2020 Council on Teaching and Learning, Mathematics Association of America
- 2011-2017 Committee on Articulation and Placement, Mathematics Association of America

State Service:

- 2012 Eighth Annual Texas Undergraduate Mathematics Conference, Co-Organizer

University Service:

2022-Present	Provost's PAM-CAM (Personnel Allocation Model & Contribution at Margin) assessment model, modeling team and coauthor
2022-Present	College PAD (Plan for Assisted Development) Committee for a colleague
2022-Present	Building Emergency Response liaison
2021-Present	Budget Status Monitoring Team
2021-Present	University Budget Council
2021	VP for Finance and Administration Search Committee
2021-Present	University Holiday Schedule Committee (for staff)
2021-Present	Math Club advisor
2021-Present	Pi Mu Epsilon Advisor
2021	Math Department Scientific Computing Course Exploratory Committee
2018-Present	University Calendar Committee, currently chair
2019-Present	Increasing Hispanic and Underrepresented Groups Committee
2018-Present	Monday Math Lunch / Munchies coordinator
2018-2020	GenJacks Mentor
2018-2019	Julia Robins Mathematics Festival presenter
2018	Summer Undergraduate Research Experience selection committee
2017-2019	Progress Through Calculus (P2C2) MAA project, local coordinator
2017-2018	Precalculus Review Committee, chair
2016-2018	Reimagining the First Year university planning committee
2015-2016	Strategic Planning Committee, College of Sciences and Mathematics
2014-2018	STEM Residential Learning Community Coordinator
2014-Present	SFAS1101 instructor for STEM dedicated section
2014-2015	Department Computing Committee
2013-2019	College Convocation, Co-Organizer and emcee
2012-2020	ACE (Acing College Mathematics) Workshops for freshmen presenter
2012-2014	University STEM Day, Co-Founder and Co-Organizer
2012-2014	Hiring Committee
2012-2014	Department Advisory Council
2011-2012	STEM Center Outreach Liaison
2009-Present	Department Assessment Advisor
2009-Present	Certified Online Instructor
2009-2012	University First Year Experience Committee
2008-Present	Department Safety Officer
2008-2019	College Algebra EEO Core Curriculum Committee, chair
2008-Present	Mathematics B.S. Program Assessment Committee, chair
2008-2011	Faculty Senate, Treasurer
2008-2010	University Academic Integrity Committee
2008-2009	Analytic Geometry EEO Core Curriculum Committee
2008-2009	Designed Online Course for University
2008-2009	Ad Hoc Committee on Graduate Students
2007-Present	Graduate student mentor
2007-2011	Faculty Government and Involvement Committee
2007-2011	Faculty Senate
2007-2010	Outreach Committee, chair
2007-2009	College Counsel

2007-2008	College Strategic Planning Committee
2007-2008	Webpage Design Committee
2007-2008	Organized reading group on Linearity, Symmetry, and Prediction in the Hydrogen Atom
2007-2008	Department Convocation Committee
2006-2014	Three College Algebra and one Trigonometry Textbook committees, chair
2006-2009	Yeagy Colloquium Committee, chair
2006-2007	Organized reading group on Derivatives in Financial Markets
2006	Organized reading group on Dynamic Asset Pricing Theory
2006	Parents' Day math table presenter
2006-	Present Graduate Student Orientation speaker
2006-2009	SFA Move-in Day greeter
2005-2018	Showcase Saturday, Mathematics & Statistics, contact person & presenter

Outside Service:

- Coordinated and moderated a national panel discussion (at the Joint Mathematics Meetings) featuring David Bressoud, Uri Treisman, John Hetts, and Elisabeth Barnett on innovations the increase equity on mathematics articulation and placement.
- Coordinated and moderated a national webinar, cosponsored by MAA and AMATYC, featuring Uri Treisman and focused on best practices in articulation and placement issues within mathematics
- Coordinated and moderated a national webinar, cosponsored by MAA and AMATYC, featuring Elisabeth Barnett and focused on research in articulation and placement issues within mathematics
- Central ISD tutoring; started program and coordinated tutoring efforts
- Martinsville ISD tutoring; started program with Dr. Kimberly Child and coordinated tutoring efforts
- Math Blitz, coordinator, reaching over 400 middle school students each year
- Nacogdoches High School; presenter
- McMichael Middle School; presenter
- Mike Moses Middle School; presenter, observer
- Martinsville ISD; presenter, observer
- Central Heights ISD; presenter, observer
- Central ISD; presenter, observer
- College Algebra, College Readiness curriculum contributor for the Texas Higher Education Coordinating Board
- Initiated a 'fact finding' trip for actuarial careers, did an actuarial job shadow, and established an industry contact for actuarial positions and internships
- Reviewed multiple textbooks and articles
- Solid Foundation Tutoring - volunteer for at risk high school and junior high students

Presentations:

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| 2021 | Early Engagement of STEM Majors into a Community of STEM Majors, Joint Mathematics Meetings, virtual. |
| 2020 | Collaborative Research: Understanding Robert Noyce Teacher Scholarship Outcomes in Texas, Noyce Virtual Summit, virtual. |

- 2020 Collaborative Research: Understanding Robert Noyce Teacher Scholarship Outcomes in Texas, Annual Association of Mathematics Teacher Educators Conference, Phoenix, AZ.
- 2020 Effective Mentorships for Talented Teachers in Training for Texas, Joint mathematics Meetings, Denver, CO.
- 2020 Cultivating Undergraduate Research with S-STEM Scholars, Joint mathematics Meetings, Denver, CO.
- 2019 Succeeding in STEM by the Numbers: How much do SATs, scholarships, etc. predict your success?, Texas Undergraduate Mathematics Conference, Tyler, TX.
- 2019 Designing co-curricular engagements that students actually attend, S-STEM Symposium, Washington, DC (with Laura MacDonald)
- 2019 Incorporating departmental data into decisions and curricular discussion, Progress through Calculus and SEMINAL Joint Conference, Lincoln, NE (with Lesa Beverly)
- 2019 Who really teaches? The untold story of who actually teaches math in Texas and how it works out for them, MAA Annual Texas Meeting, Tarleton State University
- 2019 Where did they go? Sustaining and growing interest in mathematics teaching, National Meeting of the Research Council on Mathematics Learning, Charlotte, NC
- 2017 Examining Scalability for Flipped Classrooms: Implementing and Studying Flipped College Algebra Across 32 Sections, Teaching and Learning Conference, Sam Houston State University (with Beth Cory)
- 2017 College Algebra Flipped: Comparative Results from 1000 students, MAA Annual Texas Meeting, Texas A & M Commerce (with Beth Cory)
- 2016 Mangling Triangles: What's the Best Way to Split a Triangle?, Mathematics Teaching Circle, Stephen F. Austin State University
- 2015 What makes a Math Major Succeed? – Designing Research to Track and Predict Mathematics Success, Trinity University
- 2015 How does Google Rank all those pages?, Mathematics Teaching Circle, Stephen F. Austin State University
- 2015 How do you get a Successful Math Student?, Texas Undergraduate Mathematics Conference, University of Texas at Tyler
- 2015 Multi-mentoring Strategies for Mathematics Teacher Preparation and Induction, Research Council on Mathematics Learning conference, Las Vegas
- 2013 Mentoring STEM Majors into a Career in Teaching, Mentoring Institute, University of New Mexico
- 2012 Spotting the Dots, Stephen F. Austin, Pi Mu Epsilon / Math Club
- 2011 Research Designs Related to the Role of STEM Faculty in Student Success, Washington, D.C., MSP Learner Network Conference, National Science Foundation (with Dr. Kimberly Childs)
- 2010 Tax Progressivity: How do we compare the taxes of the rich and the poor?", University of Texas at Tyler, Texas Undergraduate Mathematics Conference
- 2010 The Genie and the Hotel, Stephen F. Austin, Pi Mu Epsilon / Math Club meeting
- 2009 Making Sense of Assessment, Stephen F. Austin, Math/Science Articulation Conference
- 2009 Mathematics in Public Schools, Full Staff In-Service, Central Height ISD
- 2009 Mathematics in Public Schools and in Life, Fredonia Rotary Club
- 2008 Group Algebras, Monoids and Vertex Bialgebras, Stephen F. Austin, R.W. Yeagy Colloquium
- 2008 What to do About College Algebra: What should we teach, how should we teach it, and why?, Stephen F. Austin, Math Science Articulation Conference
- 2007 Financial Arbitrage: How would you model a costless, riskless investment, Sam Houston State University, Texas Undergraduate Mathematics Conference

- 2006 Coding Theory: Why scratched credit cards swipe & cell phones work indoors, Stephen F. Austin, Pi Mu Epsilon / Math Club meeting
- 2006 Understanding an Economy in Equilibrium, Stephen F. Austin, mathematical finance seminar
- 2006 Arbitrage and the impossibility of investmentless profit, Stephen F. Austin, mathematical finance seminar
- 2005 An introduction to Representations and Lie Theory, Stephen F. Austin, research seminar
- 2005 Lattice vertex operator algebras, coalgebras and bialgebras, Bard College Regional AMS meeting
- 2005 Vertex operator coalgebras and their relations to VOAs, North Carolina State University, Lie algebras, vertex operator algebras and their applications conference
- 2005 Vertex operator coalgebras, St. Edward's University, seminar & topology class
- 2005 Vertex operator coalgebras, Stephen F. Austin, colloquium
- 2004 Vertex operator coalgebras: Their operadic motivation and concrete constructions, Rutgers University, quantum theory seminar
- 2004 Vertex operator coalgebras, Erwin Schrodinger Institute, program on tensor categories
- 2004 String theory, operads and sewing pants, Taylor University, math club
- 2004 Vertex operator coalgebras part II: Examples and a correspondence with VOAs, University of Notre Dame, algebra seminar
- 2004 Vertex operator coalgebras part I: A definition motivated by conformal field theory, University of Notre Dame, algebra seminar
- 2004 Conformal geometry and actions of the Virasoro algebra on world-sheets, University of Notre Dame, graduate topology seminar
- 2004 Operads, string theory and how to get a Ph.D., Point Loma Nazarene University, senior seminar
- 2004 Lie groups, Lie algebras and invariants (joint with Ben Jones), University of Notre Dame, graduate student seminar
- 2003 Operads: The geometric road to vertex operator algebras, University of Notre Dame, graduate student seminar
- 2002 The joys of vertex operator algebras, University of Notre Dame, graduate student seminar
- 2000 An investigation of random number generation (Poster session), University of California Los Angeles, MAA meeting

Poster Presentations:

- 2022 Broader Impact of Talented Teachers in Training for Texas in Rural East Texas, Noyce Summit, Washington D.C.
- 2022 Investigating STEM Teacher Preparation with Focus on Rural Persistence and Retention (TPR)², Noyce Summit, Washington D.C.
- 2020 Effective Mentorships for Talented Teachers in Training for Texas, Joint mathematics Meetings, Denver
- 2020 Cultivating Undergraduate Research with S-STEM Scholars, Joint mathematics Meetings, Denver
- 2019 Attracting STEM Majors to Teaching Through a Job Shadow, Joint mathematics Meetings, Baltimore
- 2019 Supporting S-STEM Scholars and Longitudinally Examining Outcomes, Joint Mathematics Meetings, Baltimore
- 2018 Attracting STEM Majors to Teaching Through a Job Shadow, Noyce Summit, Washington, D.C.
- 2018 SMART Texas: Early Engagement Through STEM Community and Activities, Joint Mathematics Meetings, San Diego

- 2018 The influence of mentoring during educator preparation and beyond graduation on novice teacher's choice of instructional methods, Joint Mathematics Meetings, San Diego
- 2017 SMART Texas: Establishing Longitudinal Paired Comparison Groups to Document Project Impacts, Joint Mathematics Meetings, Atlanta
- 2017 Talented Teachers in Training for Texas: Maintaining Contact and Support for Noyce Graduates, Joint Mathematics Meetings, Atlanta
- 2016 Maintaining Contact and Support for Noyce Graduates, Noyce Summit, Washington, D.C.
- 2016 Induction Mentoring, Joint Mathematics Meetings, Seattle
- 2016 Engaging STEM Freshmen Using S-STEM Scholars as a Nucleus, Joint Mathematics Meetings, Seattle
- 2015 Seamless Mentoring for STEM Teachers, Joint Mathematics Meetings, San Antonio
- 2014 Talented Teachers in Training for Texas: Year Two, Bright Ideas Conference, Nacogdoches, TX
- 2014 Talented Teachers in Training for Texas: Year Two, Joint Mathematics Meetings, Baltimore
- 2013 Talented Teachers in Training for Texas: Year Two - Building a Culture of Engagement, National Science Foundation, Washington, D.C.
- 2013 Talented Teachers in Training for Texas, Joint Mathematics Meetings, San Diego
- 2012 Talented Teachers in Training for Texas: Filling the Pipeline, National Science Foundation, Washington, D.C.

Conferences Attended:

- 2022 Noyce Summit, Washington, D.C.
- 2021 Joint Mathematics Meetings, Virtual
- 2020 Virtual Noyce Summit, Virtual
- 2020 Annual Association of Mathematics Teacher Educators Conference, Phoenix, AZ
- 2020 Joint Mathematics Meetings, Denver
- 2019 Texas Undergraduate Mathematics Conference, Tyler, TX (with students)
- 2019 Conference for the Advancement of Mathematics Teaching, San Antonio, TX (with students)
- 2019 Progress through Calculus and SEMINAL Joint Conference, Lincoln, NE
- 2019 MAA Annual Texas Meeting, Stephenville, TX (with students)
- 2019 National Meeting of the Research Council on Mathematics Learning, Charlotte, NC
- 2019 Joint Mathematics Meetings, Baltimore
- 2018 Texas Undergraduate Mathematics Conference, Nacogdoches, TX
- 2018 Noyce Summit, Washington, D.C. (with students)
- 2018 MAA Annual Texas Meeting, Dallas, TX (with students)
- 2018 Joint Mathematics Meetings, San Diego
- 2017 Teaching and Learning Conference, Sam Houston State University
- 2017 Conference for the Advancement of Mathematics Teaching, Fort Worth (with students)
- 2017 MAA Annual Texas Meeting, Commerce, TX (with students)
- 2017 Joint Mathematics Meetings, Atlanta
- 2016 Texas Undergraduate Mathematics Conference, Beaumont, TX (with students)
- 2016 Noyce Summit, Washington, D.C. (with students)
- 2016 Conference for the Advancement of Mathematics Teaching, San Antonio (with students)
- 2016 Bright Ideas Conference, Nacogdoches, TX
- 2016 Joint Mathematics Meetings, Seattle
- 2015 Texas Undergraduate Mathematics Conference, Nacogdoches, TX (with students)
- 2015 Conference for the Advancement of Mathematics Teaching, Houston (with students)
- 2015 NCTM National Meeting, Boston (with students)

2015 Joint Mathematics Meetings, San Antonio
2014 Bright Ideas Conference, Nacogdoches, TX
2014 Conference for the Advancement of Mathematics Teaching, Fort Worth (with students)
2014 Joint Mathematics Meetings, Baltimore
2013 UNM Mentoring Institute, Albuquerque, NM
2013 SFA STEM Fall Research Conference, Nacogdoches, TX
2013 NSF Noyce National Conference, Washington, D.C. (with students)
2013 NCTM National Meeting, Denver (with students)
2013 Math, Science, and Technology Teacher Preparation Academy Conference, Nacogdoches, TX
2013 Joint Mathematics Meetings, San Diego
2012 Texas Undergraduate Mathematics Conference, Nacogdoches, TX (with students)
2012 NSF Noyce National Conference, Washington, D.C. (with students)
2012 MAA Annual Texas Meeting, Dallas, TX (with students)
2012 Joint Mathematics Meetings, Boston
2011 Texas Undergraduate Mathematics Conference, Tyler, TX (with students)
2011 MAA Annual Texas Meeting, Tyler, TX (with students)
2011 Teachers Development Group 2011 Leadership Seminar, Portland, OR
2011 MSP Learner Network Conference, NSF, Washington, D.C.
2010 Texas Undergraduate Mathematics Conference, Tyler, TX (with students)
2010 MAA Annual Texas Meeting, Abilene, TX (with students)
2009 Math/Science Articulation Conference, Stephen F. Austin
2009 MAA MathFest, Portland, OR
2009 Texas Undergraduate Mathematics Conference, Huntsville, TX (with students)
2009 MAA Annual Texas Meeting, Denton, TX
2008 College Readiness Initiative Faculty Collaborative: Mathematics Symposium, Texas Higher Education Coordinating Board, Austin, TX
2008 MAA Annual Texas Meeting, Stephenville, TX (with students)
2008 Math/Science Articulation Conference, Stephen F. Austin
2007 Texas Undergraduate Mathematics Conference, Huntsville, TX (with students)
2007 MAA Annual Texas Meeting, Edinburg, TX
2007 Community College Collaboration Conference, Stephen F. Austin
2006 Texas Undergraduate Mathematics Conference, Huntsville, TX (with students)
2006 MAA Annual Texas Meeting, Wichita Falls, TX (with students)
2005 Lie algebras, vertex operator algebras and their applications conference, North Carolina State University
2005 Joint Mathematics Meetings, Atlanta
2004 ESI Conference on Tensor Categories, Austria
2004 MAA Annual Texas Meeting, Terre Haute, IN
2003 Regional AMS, SUNY Binghamton
2003 Regional AMS, Indiana University Bloomington
2003 Graduate Topology Conference, Notre Dame
2003 Meeting of the Association of Christians in the Mathematical Sciences, San Diego, Point Loma Nazarene University
2002 Joint Mathematics Meetings, San Diego
2001 Arithmetical Geometry in Cryptography Workshop, University of Illinois Urbana-Champaign
2000 MAA Annual Southern California Meeting, Los Angeles