

## PROFESSIONAL VITA

### Dittika Gupta

Associate Professor  
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## Education and Professional Certifications

### A. Education

Doctor of Philosophy	2014
Baylor University, Waco, TX	
Major Field: Curriculum and Learning, Mathematics Education	
Dissertation: <i>Early Elementary Students' Fractional Understanding: Examination of Cases from a Multi-Year Longitudinal Study</i>	
Master of Science in Education	2009
Baylor University, Waco, TX	
Major Field: Mathematics Education	
Bachelor of Education	2006
Indraprastha University, New Delhi, India	
Major Field: Teaching in Physics and Mathematics	
Master of Science	2004
Indian Institute of Technology, Roorkee, India	
Major Field: Physics	
Bachelor of Science	2002
Delhi University, New Delhi, India	
Major Field: Physics	
Minor Field: Mathematics	

### B. Professional Certifications

Texas Teaching Certificate (7-12 Math)

National Council of Teachers of Mathematics CAEP SPA Reviewer (Training, June 2015)

## Professional Experience

### A. University Experience

Associate Professor	Midwestern State University	2019- Present
Assistant Professor	Midwestern State University	2014- 2019
Doctoral Graduate Teaching Assistant	Baylor University	2012- 2013

## Mathematics Education

Doctoral Graduate Research Assistant      Baylor University      2010-2014

### **B. Relevant Professional Experience**

Head Coach Academic      Waco ISD – University High School      2010-2012  
Decathlon Team

Public School Math      Waco ISD – University High School      2009-2011  
Teacher

## **Teaching Responsibilities**

### **A. Undergraduate Courses- Curriculum and Learning at MSU**

EDUC 6753 – Applied Research (Fall 2019, Spring 2021)

EDUC 5763 - Introduction to Research (Summer 2019, Spring 2021)

EDUC 4071 – Teaching Mathematics-Middle School and High School (Spring 2016, Fall 2021)

EDUC 4043 – Teaching Mathematics in Elementary School (Fall 2014- Present, Mini-May 2016, Mini May 2017, Mini May 2018, Mini-May 2020)  
Hybrid, Face-to-Face and Online modalities

EDUC 4053 – Teaching Science in Elementary School (Mini May 2016, Mini May 2017, Mini May 2018)

EDUC 3162 – Classroom Management (Fall 2014, Spring 2015)

EDUC 2013 – School and Society (Fall 2014-Present, Summer 2016, Winter Mini 2016),  
Hybrid, Face-to-Face and Online modalities

COUN 2143 – Human Diversity (Summer 2020, Summer 2021)

Clinical Teaching - University Supervisor, Fall 2015, Spring 2021

### **B. Undergraduate Courses at Baylor University**

TED 4348 – Secondary Mathematics Curriculum (Fall 2013)

Guest lectured

- Critical Issues in Math Education, Spring 2013
- Secondary Mathematics Curriculum, Fall 2012

## **Research and Scholarly Activity**

### **A. Publications**

#### **Book Chapters**

Kalinec-Craig, C. A., Morton, K., Hulme, K., Mahdi, F., Eddy, C. M., **Gupta, D.**,  
Montgomery, M. S. (Under Review). Promoting Torres' Rights of the Learner with  
Elementary Preservice Teachers through Lesson Study. *Book Chapter*

**Gupta, D.**, Montgomery, M. S., Eddy, C. M., Kalinec-Craig, C. A., Morton, K., Hulme, K.,  
& Mahdi, F. (2021). Developing and Supporting Mathematics Teacher Educators

Through Virtual Collaborations. In *Shifting to Online Learning Through Faculty Collaborative Support* (pp. 279-293). IGI Global.

Medellin, K., **Gupta, D.**, & Acuña, K. (2021). Teaching Strategies During a Pandemic: Learnings and Reflections. In *Handbook of Research on Transforming Teachers' Online Pedagogical Reasoning for Engaging K-12 Students in Virtual Learning* (pp. 194-211). IGI Global.

**Gupta, D.**, Soto, M., Dick, L., Broderick, S., & Appelgate, M. (2018). Noticing and deciding the next steps for teaching: A cross-university study with elementary pre-service teachers. In G. J. Stylianides & K. Hino (Eds.), *Research advances in the mathematical education of pre-service elementary teachers – An international perspective* (pp. 261-275). Springer, Cham: Switzerland.

**Gupta, D.**, & Cobb, S. (2018) Movement in the Math Classroom. In S.C. Miller & S.F. Lindt (Eds.), *Moving INTO the classroom: A handbook for movement integration in the elementary classroom*. (pp. 201-246). Singapore, Singapore: Springer Singapore

**Gupta, D.**, Cobb, S., Butler, S. & Brady, M. (2018) Lesson Plans for Movement in the Mathematics Classroom. In S.C. Miller & S.F. Lindt (Eds.), *Moving INTO the classroom: A handbook for movement integration in the elementary classroom*. (pp. 247-266). Singapore, Singapore: Springer Singapore

### **Published Refereed Publications**

Moldovan, A. M. & Gupta, D. (In Press, Nov/December 2023). Science that Culturally Connects with Picture Books. *In Science and Children*

Dick, L. K., Appelgate, M. H., **Gupta, D.**, & Soto, M. M. (2022). Continuous improvement lesson study: A model of MTE professional development. *Mathematics Teacher Educator*, 10(2), 111-128.

Rutherford, E. & **Gupta, D.** (2021). Pre-Service Teachers' Noticing of Struggling Students' Mathematical Thinking. *Special Education Research, Policy & Practice (SERPP)*, 5, 95-101.

Lindt, S. & **Gupta, D.** (2020). Impact of Informal Experiences: Changes in Mathematics Motivation for Middle Schoolers. *World Journal of Education*. 10(3), 88-94. 10.5430/wje.v10n3p88.

Appelgate, M. H., Dick, L., Soto, M., & **Gupta, D.** (2020). Growing a Greater Understanding of Multiplication through Lesson Study: Mathematics Teacher Educators' Professional Development. *Mathematics Enthusiast*, 17 (2/3), 583-613.

Feldman, Z., Wickstrom, M., Hajra, S. G., & **Gupta, D.** (2020). The Role of Uncertainty in Mathematical Tasks for Prospective Elementary Teachers. *Mathematics Enthusiast*, 17 (2/3), 641-672

Soto, M., **Gupta, D.**, Dick, L., & Appelgate, M. (2019). Bridging Distances: Professional Development for Higher Education Faculty Through Technology-Facilitated Lesson Study. *Journal of University Teaching & Learning Practice*, 16(3), 1-19.

**Gupta, D.** & Dick, L. (2019). Launching for Mathematical Success. *Teaching Children Mathematics*, 25(4), 249-252.

Wilkerson, T., Eddy, C., Quebec-Fuentes, S., Sorto, A., **Gupta, D.**, Ward, L., Jasper, W., Parker, Y., Mallam, W., Cooper, S., & Kerschen, K. (2018). Development and Validation of the Algebra Teachers' Self-Efficacy Instrument: Assessment of Algebra Teachers' Knowledge and Personal Teaching Efficacy. *School Science Mathematics Journal*. 118(6), 206-217. DOI: 10.1111/ssm.12291

Lindt, S. F. & **Gupta, D.** (2017) Changing Motivation and Self-Efficacy for Middle School Students and College Students during a Week-Long Math Camp. *The Texas Forum of Teacher Educators*, 7, 28-37

**Gupta, D.**, Lindt, S. F., & Moss, D. (2017). Chewing Your Way to Understanding. *Ohio Journal of School Mathematics*, 76(2), 30-36.

**Gupta, D.** & Wilkerson, T. L. (2017). Hooking Students to Functions: Giving Fun Context to Mathematical Vocabulary. *Texas Mathematics Teacher*, 63(1), 20-24.

**Gupta, D.** & Wilkerson, T. L. (2015). Teaching and Learning of Fractions in Elementary Schools: Let the Dialogue Begin!!! *Curriculum and Teaching Dialogue*, 17(1), 27-44.

Wilkerson, T., Cooper, S., **Gupta, D.**, Montgomery, M., Mechell, S., Arterbury, K. Moore, S., Baker, B. R., & Sharp, P. T. (2015). An Investigation of Fraction Models in Early Elementary Grades: A Mixed Methods Approach. *Journal of Research in Childhood Education*, 29(1), 1-25, DOI: 10.1080/02568543.2014.945020

### **Invited Referred Publication**

**Gupta, D.** & Moldovan, A. M. (2022). Integrating Literacy in Secondary Mathematics Classrooms With Multicultural Books. In *Content Area Literacy* (pp.1-13). Kendall Hunt

Manuel, A. K., **Gupta, D.**, & Hinchman, T. (2018). The Potential for Dispositions Assessments to Evaluate PDS Relationships. *School-University Partnerships*, 11(3), 1-7.

### **Referred Conference Proceedings**

Soto, M. M., **Gupta, D.**, Lewis, C. C., Hakansson, S. W., Appelgate, M. H., & Dick, L. K. (Nov, 2022). Adaptations to Lesson Study to support equitable teaching practices working group. Presented at the 44th Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA) in Nashville, TN.

- Gupta, D.** , Soto, M., Appelgate, M., & Dick, L., (2021). Continuous Improvement Lesson Study Working Group. Published in *Proceedings of the 43rd annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, Philadelphia, PA
- Moldavan, A. & **Gupta, D.** (2021). Elementary Preservice Teachers Integrating Multicultural Literature to Design Culturally Relevant Mathematical Tasks. Published in *Proceedings of the 43rd annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, Philadelphia, PA
- Kalinec-Craig, C. A., Eddy, C. M., Montgomery, M. S., Morton, K., Montgomery, M. S., & **Gupta, D.** (October, 2021). Modeling Equitable Practices: Math Teacher Educators' Reflection and Practice. *Proceedings of the 43rd annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, Philadelphia, PA
- Dick, L., Soto, M., Appelgate, M., & **Gupta, D.** (2020). Continuous improvement lesson study with mathematics teacher educators. *Proceedings of the 42nd annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, Mazatlán, Mexico
- Hinchman, T. & **Gupta, D.** (2020). STEAMED UP: A Mixed Methods Creativity Evaluation. In *Society for Information Technology & Teacher Education International Conference* (pp. 1121-1127). Association for the Advancement of Computing in Education (AACE).
- Gupta, D.**, Hinchman, T., Hood, J., Manuel, A. K., & Lopez, M. D. (2019). *Learning Through Play*. Proceedings of the forty-first annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. St Louis, MO: University of Missouri.
- Dick, L. K., Soto, M. M., Appelgate, M. H., **Gupta, D.** (2018). Elementary preservice teachers whole-class instructional decision-making. *Proceedings of the 40th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, Greenville, SC.
- Mohanan, R., Stringfellow, C., & **Gupta, D.** (2017). An Emotionally Intelligent Tutoring System in *Proceedings of 2017 SAI Computing Conference*, July 2017, London, UK, pp. 1099-1107
- Curry, D. L., Reeves, E., McIntyre, C. J., & **Gupta, D.** (March, 2017). Taking Sheltered Instruction Digital: A Review of Classroom Technologies that Support ELL Students. In *Society for Information Technology & Teacher Education International Conference* (pp. 1498-1500). Association for the Advancement of Computing in Education (AACE).

- Appelgate, M., **Gupta, D.**, Soto, M., Dick, L., & Broderick, S. (November, 2016). *Elementary Mathematics Teacher Educators' Learning through Lesson Study: A Cross-Institutional Study* (pp. 845-848). In M. B. Wood, E. E. Turner, M. Civil, & J. A. Eli. (Eds.). *Proceedings of the 38th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*.
- Broderick, S., Dick, L., **Gupta, D.**, Appelgate, M., & Soto, M. (November, 2016). A cross-institutional study on pre-service teachers deciding “next steps” through noticing children's mathematical thinking (pp. 928). In M. B. Wood, E. E. Turner, M. Civil, & J. A. Eli. (Eds.). *Proceedings of the 38th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*.
- Wilkerson, T. L., **Gupta, D.**, & Kerschen, K. (November, 2016). Building Conceptual Understanding of Fractions through a Six-Week Intervention in Early Elementary (pp. 309). In M. B. Wood, E. E. Turner, M. Civil, & J. A. Eli. (Eds.). *Proceedings of the 38th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*.
- Hutson, T. & **Gupta, D.** (2015). Teacher candidates and STEM-based efficacy: A pilot Study. In M. J. Mohr-Schroeder, & J. N. Thomas (Eds.), *Proceedings of the 114th annual convention of the School Science and Mathematics Association* (Vol. 2, pp. 60-67).

### **Referred Conference Proceeding with undergraduate students**

- Gupta, D., **Bussue, N.**, & **Whitwood, M.** (November, 2016). Integrating Children's Literature in Math: Fostering Pre-service Teachers' Understanding and Connections (pp. 939). In M. B. Wood, E. E. Turner, M. Civil, & J. A. Eli. (Eds.). *Proceedings of the 38th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*.

### **Other Published Articles**

- Gupta, D.**, Appelgate, M., Broderick, S., Dick, L., & Soto, M (2018). Reaching New Possibilities on Lesson Study Collaboration. *Curriculum and Teaching Dialogue, Volume 20(1)*, 129-131.
- Soto, M., Broderick, S., Dick, L., **Gupta, D.**, & Appelgate, M. (2018). Fitting it all in: Time challenges in lesson pacing. *Curriculum and Teaching Dialogue, Volume 20(2)*, 149-151.

## **B. Presentations**

### **Invited Presentation**

#### **National**

- Soto, M, Appelgate, M., & **Gupta, D.** (April 2018). *Using lesson study to grow our practice and our students' learning*. Bucknell University, Lewisburg, Pennsylvania.

- Gupta, D.** (October, 2015). *Early Elementary Students' Fractional*

*Understanding: Examination of Cases from a Multi-Year Longitudinal Study.*  
Presented at School Science and Mathematics Association (SSMA). Oklahoma City, OK.

### **State and Regional**

**Gupta, D.** (June, 2016). *Let's Get Savvy! Nailing Technology.* Presented at Texoma Regional Math/Science Conference, Wichita Falls, TX.

Hutson, T. & **Gupta, D.** (November, 2015). *Mirror, Mirror: Delivering Effective Interdisciplinary Lessons to Grades K-5.* Presented at TAIR Conference, Wichita Falls, TX.

**Gupta, D.** (February, 2015). *Activities, Activities, Activities... Oh My!* Presented at Conference on the Teaching of Mathematics (CTM). Sam Houston University, Huntsville, TX.

Wilkerson, T., Rogers, R., Bryan, T., Johns, B., **Gupta, D.**, Nelson, P., Haugh, S. J., & Holden, D. (October 2013). *GEARing UP for Success through Integrating Mathematics and Science* (SSMA Award for Excellence in Integrating Science), San Antonio, TX.

### **Referred International Presentations**

Soto, M. M., **Gupta, D.**, Lewis, C. C., Hakansson, S. W., Appelgate, M. H., & Dick, L. K. (Nov, 2022). Adaptations to Lesson Study to support equitable teaching practices working group. Presented at the 44th Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA) in Nashville, TN.

Kalinec-Craig, C. A., Eddy, C. M., Montgomery, M. S., Morton, K., Montgomery, M. S., & **Gupta, D.** (October, 2021). Modeling Equitable Practices: Math Teacher Educators' Reflection and Practice. Presented at the *43rd annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, Philadelphia, PA

**Gupta, D.**, Soto, M., Appelgate, M., & Dick, L., (October, 2021). Continuous Improvement Lesson Study Working Group. Presented at the *43rd annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, Philadelphia, PA

Moldavan, A. & **Gupta, D.** (October, 2021). Elementary Preservice Teachers Integrating Multicultural Literature to Design Culturally Relevant Mathematical Tasks. Presented at the *43rd annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*, Philadelphia, PA

Soto, M., Dick, L., Appelgate, M. & **Gupta, D.** (June, 2021). *Using a Community of Practice Perspective to Analyze MTE Learning During Lesson Study.* Paper Presented Virtually at the International Conference on Mathematical Education (ICME-14). Shanghai, China

Appelgate, M., Dick, L., **Gupta, D.**, & Soto, M. (November, 2018). *Investigating mathematics teacher educators' learning through the phases of lesson study*. Presented at the World Association of Lesson Studies (WALS) International Conference 2018, Beijing, China

Soto, M. M., Dick, L. K., **Gupta, D.**, Appelgate, M. H., & Broderick, S. (November, 2017). *Improving our own teaching practice: Mathematics teacher educators' participation in a cross-institutional Lesson Study*. Paper Presented at the World Association of Lesson Studies (WALS) International Conference. Nagoya University, Japan.

Mohanan, R. Stringfellow, C., & **Gupta, D.** (July, 2017) *An Emotionally Intelligent Tutoring System*. Paper Presented at the Computing Conference. London, UK.

**Gupta, D.**, Soto, M., Dick, L., Broderick, S., & Appelgate, M. (June, 2016). *Noticing and Deciding the "Next Steps" for Teaching: A Cross-University Study with Elementary Pre-Service Teachers*. Paper Presented at International Conference on Mathematical Education (ICME-13). Hamburg, Germany.

Appelgate, M., **Gupta, D.**, Soto, M., Dick, L., & Broderick, S. (November, 2016). *Elementary Mathematics Teacher Educators' Learning through Lesson Study: A Cross-Institutional Study*. Presented at PME-NA (North American chapter of the International Group for the Psychology of Mathematics Education). Tucson, AZ.

Broderick, S., Dick, L. **Gupta, D.**, Appelgate, M. & Soto, M. (November, 2016). *A Cross-Institutional Study of Pre-Service Teachers' Deciding "Next Steps" through Noticing Children's Mathematical Thinking*. Presented at PME-NA (North American chapter of the International Group for the Psychology of Mathematics Education). Tucson, AZ.

### **Referred Presentations**

**Gupta, D.**, & Moldavan, A. M. (March, 2023). PSTs Using Culturally Relevant Math Tasks: Framework to Critique Learning. Presented at the 2022 Annual Research Council of Mathematics Learning (RCML), Las Vegas, Nevada.

**Gupta, D.**, Moldavan, A. and Bullard, A. (Oct, 2022). *Use of Multicultural Texts to Promote Culturally Relevant Tasks in Teacher Education*. Presented at the 2022 School Science and Mathematics Association (SSMA), Missoula, MT.

**Gupta, D.**, and Bullock, E. (Oct, 2022). Assessing the Effectiveness of Middle School Digital Mathematics Games for Teaching. Presented at the 2022 School Science and Mathematics Association (SSMA), Missoula, MT.

Zomora-Robles, S., **Gupta, D.** & Lamb, K. (June, 2022). Using a Values-Based Framework to Achieve Equity and Justice for Students, Faculty, and Staff. Presented at (COPLAC)



Annual Meeting, Massachusetts, MI (Presentation chosen as from all colleges to represent the university)

**Gupta, D.** and Moldavan, A (March 2022) *Enhancing Culturally Relevant Math Tasks with Multicultural Literature*. Presented at the 2022 Annual Research Council of Mathematics Learning (RCML), Grapevine, TX.

Donham, M., **Gupta, D.**, Wilkerson, T. Eddy. C. (March 2022). Validating the Algebra Teacher Self-Efficacy Instrument for PSTs. Presented at the 2022 Annual Research Council of Mathematics Learning (RCML), Grapevine, TX.

Moldavan, A. & **Gupta, D.** (March, 2022). *Leveraging Multicultural Texts to promote Culturally relevant Tasks in STEM Teacher Education*. Presented at the International Consortium for Research on Science & Mathematics Education, 2022 Virtual Conference.

**Gupta, D.** Moldavan, A. Bullard, A., & Melloan, M (March, 2022). *Enhancing Culturally Relevant Math Tasks with Multicultural Literature*. Presented at the 2021 Annual Research Council of Mathematics Learning (RCML), Grapevine, TX.

Medellin, K. & **Gupta, D.** (Feb, 2022). *Teaching Strategies During a Pandemic: Learnings and Reflections*. Paper Presented at the Southwest Educational Research Conference (SERA), New Orleans, LA.

Wilkerson, T, **Gupta, D.**, Jasper, W. & Donham, M. (Feb, 2022). *Validation of the Algebra Teacher Self-Efficacy Instrument for Pre-Service Mathematics Teachers*. Paper Presented at the Southwest Educational Research Conference (SERA), New Orleans, LA.

**Gupta, D.** & Modavan, A. (Feb, 2022). *Engaging Preservice Teachers in Culturally Relevant Math Tasks through Multicultural Picture Books*. Paper Presented at the Southwest Educational Research Conference (SERA), New Orleans, LA.

Montgomery, M.S., Eddy, C.M., Kalinec-Craig, C.A., **Gupta, D.**, & Hulme, K. (Feb, 2022). *Modeling Equity: Mathematics Teacher Educators Use of Torres' Rights of the Learner in Methods Courses*. Presented at the 26th Annual Conference of the Association of Mathematics Teacher Educators. Las Vegas, NV.

**Gupta, D.**, Donham, M., Wilkerson, T., Eddy, C., & Ward, E. (Oct, 2021). *The Process of Validating the Algebra Teacher Self-Efficacy Instrument for Pre-Service Teachers*. Presented at School Science and Mathematics Association, Virtual Conference.

**Gupta, D.**, Wilkerson, T., Eddy, C., Ward, E., & Donham, M. (Feb, 2021). *Algebra Teacher Self-Efficacy Instrument Validation for Preservice Teachers*. Presented at the 2021 Annual Research Council of Mathematics Learning (RCML) Virtual Conference.

- Eddy, C., Morton, K., **Gupta, D.**, Kalinec-Craig., & Montgomery, M. (Feb, 2021). *Modeling Equitable Practices: Math Teacher Educators' Reflections & Practices*. Presented at the 2021 Annual Research Council of Mathematics Learning (RCML) Virtual Conference.
- Soto, M. M., Dick, L. K., **Gupta, D.**, & Appelgate, M. (Feb, 2021). *Continuous Improvement Lesson Study to develop an educative lesson*. Presented at the 2021 Annual Association of Mathematics Teacher Educators' Virtual Conference.
- Gupta, D.**, & Lindt, S. (Feb, 2021) *Influence of Informal Experiences: Change in Mathematics Teaching Efficacy of Pre-Service Teachers*. Presented at the 2021 Annual Association of Mathematics Teacher Educators' Virtual Conference.
- Hinchman, T, & **Gupta, D.** (April, 2020). *STEAMED-UP: A mixed Methods Creativity Evaluation*. Paper Presented at Society for Information Technology and Teacher Education (SITE) Virtual Conference.
- Hinchman, T, & **Gupta, D.** (March, 2020). *STEAMED-UP Two weeks Later: A mixed Methods Creativity Evaluation*. Presented at the 2021 Annual Research Council of Mathematics Learning (RCML), Las Vegas, Nevada.
- Gupta, D.** (Feb, 2020). *Integrating Children's Literature in Elementary Math methods: Fostering Understandings and Connections*. Presented at the 2020 Annual Association of Mathematics Teacher Educators (AMTE), Phoenix, AZ.
- Medellin, K. & **Gupta, D.** (Feb, 2020). *Analyzing Multicultural Picture Books and Culturally Relevant Activities for Content Areas*. Paper Presented at Southwest Educational Research Association (SERA), Arlington, TX.
- Manuel, A. K. & **Gupta, D.** (Feb, 2020). *Coding with Coder-Pillars: Coding is Possible in Early Grades*. Paper Presented at Southwest Educational Research Association (SERA), Arlington, TX.
- Taylor, C., Hinchman, T, & **Gupta, D.** (June, 2019). *Flipgrid A student perceptions of the Use of Flipgrid in Online Classes: Advancement of technology*. Presented at St. Edwards University Austin TX.
- Appelgate, M., Dick, L., **Gupta, D.**, & Soto, M (April, 2019). *MTEs Learning through Lesson Study: A Community of Practice Perspective*. Presented at the National Council of Teachers of Mathematics (NCTM) Research Conference. San Diego, CA.
- Appelgate, M., Dick, L., **Gupta, D.**, & Soto, M. (February 2019). *Lesson study as a vehicle for establishing early career MTE learning from practice*. Presented at the 23<sup>rd</sup> Annual Association of Mathematics Teacher Educators (AMTE) Conference, Orlando, FL.

Dick, L. K., Soto, M. M., Appelgate, M. H., & **Gupta, D.** (November, 2018). *Elementary Pre-service Teachers Whole Class Instructional Decision Making*. Poster to be Presented at PME-NA (North American chapter of the International Group for the Psychology of Mathematics Education). Greenville, South Carolina.

Dick, L. K., **Gupta, D.**, Appelgate, M. H., Broderick, S., & Soto, M. M. (April, 2018). *Lesson study with mathematics teacher educators across five universities: Implementation and learning*. Presented at the 2018 American Educational Research Association Annual Meeting (AERA). New York, NY.

**Gupta, D.** (February, 2018). *Using Children's Literature to Foster Mathematical Ideas: Research and Practice*. Poster Presented at the 22<sup>nd</sup> Annual Association of Mathematics Teacher Educators (AMTE). Houston, TX.

**Gupta, D.** & Lindt, S. (February, 2018). *Impact of Informal Experiences on Mathematics Teaching Efficacy of Preservice Teachers*. Paper Presented at Southwest Educational Research Association (SERA). New Orleans, LO.

Dick, L., Broderick, S., **Gupta, D.**, Appelgate, M., & Soto, M. (April, 2017). *MTEs learning through cross-institutional Lesson Study*. Presented at the National Council of Teachers of Mathematics (NCTM) Research Conference. San Antonio, TX.

**Gupta, D.** & Curry, L. (April, 2017). *Integrating Children's Literature in elementary math Methods: Fostering understandings and Connections*. Paper Presented at the American Educational Research Association (AERA). San Antonio, TX.

**Gupta, D.** & Lindt, S. (April, 2017). *Changing Self-efficacy of Preservice Teachers During a Weeklong Mathematics Camp*. Poster Presented at American Educational Research Association (AERA), San Antonio, TX.

Corp, A. & **Gupta, D.** (April, 2017). *Engaging Students in Mathematics with Culturally Responsive Stories*. Presented at National Council of Teachers of Mathematics (NCTM) Annual meeting. San Antonio, TX.

**Gupta, D.** & Corp, A. (March, 2017). *Integrating Children's Literature: Fostering Understandings and Connections*. Presented at Research Council of Mathematics Learning (RCML). Dallas, TX.

Curry, D. L., Reeves, E., McIntyre, C. & **Gupta, D.** (March, 2017). *Taking Sheltered Instruction Digital: A Review of Classroom Technologies that Support ELL Students*. Paper Presented at Society for Information Technology and Teacher Education (SITE). Austin, TX.

Rutherford, E. & **Gupta, D.** (February, 2017) *Learning to Use Students' Mathematical Thinking: Preservice Teachers' Noticing*. Paper Presented at Southwest Educational Research Association (SERA). San Antonio, TX.

- Gupta, D.** & Lindt, S. (February, 2017). *Impact of Informal Experiences: Changes in Perceived Self-efficacy of Mathematics for Middle Schoolers*. Paper Presented at Southwest Educational Research Association (SERA). San Antonio, TX.
- Broderick, S., **Gupta, D.**, Appelgate, M., Dick, L., & Soto, M. (February 2017). *Development of a rubric to assess PST's noticing of children's mathematical thinking: A cross-institutional study*. Presented at the 21<sup>st</sup> Annual Association of Mathematics Teacher Educators (AMTE). Orlando, FL.
- Gupta, D.** & Rutherford, E. (February, 2016). *Pre-service Teachers' Noticing of Struggling Students' Mathematical Thinking*. Presented at Southwest Educational Research Association (SERA). New Orleans, LA.
- Lindt, S. & **Gupta, D.** (February, 2016). *Mathematics Teaching Self-efficacy Beliefs: The Influence of Facilitating a Week-Long Summer Camp for College Students*. Paper Presented at Southwest Educational Research Association (SERA). New Orleans, LA.
- Gupta, D.**, Eddy, C., Wilkerson, T. L., Sorto, A. & William, J. (February, 2016). *Refining and Validating of Algebra Teacher Self-Efficacy Instrument*. Paper Presented at Southwest Educational Research Association (SERA). New Orleans, LA.
- Gupta, D.**, William, J., Fuentes, S. Q., Cooper, S. & Mallam, W. A. (October, 2015). *Advancing the Field: Development and Validation of Algebra Teachers' Self-efficacy Instrument*. Presented at School Science and Mathematics Association (SSMA). Oklahoma, OK.
- Hutson, T. & **Gupta, D.** (October, 2015). *How does the STEAM Model of Interdisciplinary Teaching affect Pre-service Teacher Self-efficacy?* Presented at School Science and Mathematics Association (SSMA). Oklahoma, OK.
- Gupta, D.** & Hutson, T. (January, 2015). *Improving Efficacy and Outcomes in Math and Science: providing Enrichment STEM Experiences in elementary Pre-Service Method Courses*. Paper Presented at Southwest Educational Research Association (SERA). San Antonio, TX.
- Gupta, D.**, Wilkerson, T., & Cooper, S. (November, 2014). *Pieces and Parts! A Longitudinal View of Early Fractional Understanding*. Presented at National Council of Teachers of Mathematics (NCTM) Regional Conference and Exposition. Houston, TX.
- Wilkerson, T., **Gupta, D.**, & Thornhill, A. (April, 2014). *Making Mathematics a Habit*. Presented at the National Council of Teachers of Mathematics (NCTM) Annual meeting, New Orleans, LA.
- Wilkerson, T.; Rogers, R.; Bryan, T.; Johns, B.; **Gupta, D.**; Nelson, P.; Haugh, S.J., & Holden, D. (November, 2013). *GEARing UP for Success through Integrating Mathematics and Science*. Presented at School Science and Mathematics Association,

San Antonio, TX.

**Gupta, D.** & Wilkerson, T. (November, 2013). *Understanding Fractions is Possible: Looking at Cases from a Longitudinal Study*. Paper Presented at School Science and Mathematics Association (SSMA). San Antonio, TX.

Corp, A., **Gupta, D.**, Wilkerson, T. (November, 2013). *Preservice Teachers' Learning about Teaching Fractions*. Paper Presented at School Science and Mathematics Association (SSMA). San Antonio, TX.

**Gupta, D.** & Wilkerson, T. (July, 2012) *Mathematical Immersion for Facilitating Development of Mathematical Habits of Mind*. Paper Presented at Conference for Advancement of Mathematics Teaching (CAMT). AMTE-TX Strand at Houston, TX.

**Gupta, D.**, Wilkerson, T., Cooper, S., & Meyer, R. (February, 2012). *Reflective Teaching Practices: Facilitating Research for Teaching*. Paper Presented at The Association of Teachers' Educators (ATE). San Antonio, TX.

Wilkerson, T., **Gupta, D.**, Sharp, P., & Baker, B. R. (February, 2012). *University K-12 School Partnerships: Informing Program development in Teacher Education*. Paper Presented at The Association of Teachers' Educators (ATE). San Antonio, TX.

**Gupta, D.**, Conaway, B. J., Dixon, E., Zandstra, A., Henry, A., Nelson, P., Ray, B., Tang, A., & Trumble, J. (February, 2012). *Anchoring the Doctoral Candidates: Supporting the Transition from student to Professional*. Paper Presented at The Association of Teachers' Educators (ATE). San Antonio, TX.

**Gupta, D.** (November, 2011). *An Examination of Teaching Models: Exploring Elementary Students' Fractional Understanding*. Paper Presented at School Science and Mathematics Association, Colorado Springs, CO.

Wilkerson, T. & **Gupta, D.** (February, 2011). *An Examination of Fractional Understanding in Second Graders: A Mixed Methods Approach*. Paper Presented at Southwest Educational Research Association (SERA). San Antonio, TX.

**Gupta, D.**, Purdum-Cassidy, B. A.; Meyer, R.; & Cooper, S. (February, 2011). *Breaking the Silence: Pre-Service Teachers' Attitudes Towards Action Research*. Paper Presented at The Association of Teachers' Educators (ATE). Orlando, FL.

Cooper, S., **Gupta, D.** & Mechell, S. (November, 2008). *Discrete or Continuous: Fraction Models for Young Students*. Paper Presented at School Science and Mathematics Association Annual Convention. Raleigh, NC.

### **Workshops**

**Gupta, D.** & Bullard, A. (June, 2022). *Math+ Books+ Culture+ Activities+ Learning :Yes! It is possible!* Presented at Region 9 Service Center, Wichita Falls, TX

**Gupta, D.** (July, 2021). Using Multicultural Texts to Promote Culturally Relevant Tasks in Math Teacher Education -AMTE-TX. Virtual workshop session presented at Conference for Advancement of Mathematics Learning (CAMT), San Antonio, TX

Lindt, S. & **Gupta, D.** (July, 2021). Math+ Movement+ Fun = Learning! In-Person workshop session presented at Conference for Advancement of Mathematics Learning (CAMT), San Antonio, TX

**Gupta, D.** (July, 2019). *Fraction Frenzy*. Workshop Presented at Conference for Advancement of Mathematics Teaching (CAMT). San Antonio, TX

Lopez, M., Hinchman, T., Manuel, A. K. & **Gupta, D.** (July, 2019). Play! Learn! Play! Learn! Workshop Presented at Conference for Advancement of Mathematics Teaching (CAMT). San Antonio, TX

**Gupta, D.**, Cobb, S., Miller, S., & Lindt, L. (July, 2018). *I like to Move it! I like to learn it!* Workshop Presented at Conference for Advancement of Mathematics Teaching (CAMT). Houston, TX

Miller, S., Lindt, L., & **Gupta, D.** (June, 2018). *Move it! Learn it! !* Workshop Presented at Texoma Regional Math/Science Conference Collaborative. Wichita Falls, TX.

**Gupta, D.**, Hinchman, T., Hood, J., Lopez, M., & Manuel, A. K. (June, 2018). *Yes! You can Code!* Workshop Presented at Texoma Regional Math/Science Conference Collaborative. Wichita Falls, TX.

**Gupta, D.** & Corp, A. (July, 2017). 2 for 1: Math+Reading. Presented *twice* at the Conference for Advancement of Mathematics Teaching, Fort Worth, TX

**Gupta, D.** & Lindt, S. L. (June, 2016) *Math's Not Hard When it's Fun!* Presented at Conference for Advancement of Mathematics Teaching, San Antonio, TX.

**Gupta, D.** (June, 2015). *Making Math Exciting*. Presented at Texoma Regional Math/Science Conference, Wichita Falls, TX.

**Gupta, D.** (June, 2015). *Making Math Exciting*. Presented at Texoma Regional Math/Science Conference, Wichita Falls, TX.

**Gupta, D.** & BerryHill, L. (June, 2015). *A "Byte" at Technology: Engaging Today's Students*. Presented at Texoma Regional Math/Science Conference, Wichita Falls, TX.

**Gupta, D.** & Hutson, T. (November, 2014). *Linking Reading and Math: It's Possible!!!* Workshop Presented at Texas Association for Improvement of Reading (TAIR). Wichita Falls, TX.

Hutson, T. & **Gupta, D.** (November, 2014). *Next Time You See a Sunset*. Workshop

Presented at Texas Association for Improvement of Reading (TAIR). Wichita Falls, TX.

**Gupta, D.** (November, 2013). *Making Algebra Exciting!!!* Presented at School Science and Mathematics Association (SSMA). San Antonio, TX

Wilkerson, T. & **Gupta, D.** (October, 2012). *Making Mathematics a Habit*. Presented at the National Council of Teachers of Mathematics Regional Conference and Exposition, Dallas, TX.

**Gupta, D.** & Wilkerson, T. (October, 2012). *Hooking Students on Algebra: Activities that Make it Fun*. Presented at the National Council of Teachers of Mathematics Regional Conference and Exposition, Dallas, TX.

**Gupta, D.** (July, 2012) *Patterns, Patterns Everywhere: Exploring Pascal's Triangle*. Presented at Conference for Advancement of Mathematics Teaching (CAMT) Houston, TX.

**Gupta, D.** (February, 2010). *Be a Magician or a Giant: Similarity and Proportions*. Presented at Central Texas Council of Teachers of Mathematics (CTCTM). Waco, TX.

**Gupta, D.** & Montgomery, M. (October, 2008). *Exploring Pascal's Triangle in the Classroom*. Presented at National Council of Teachers of Mathematics Regional Conference and Exposition, Oklahoma, TX.

### **Presentations at MSU**

#### **ADD MOSAIC presentations - last two years**

#### **Add TLRC presentation**

**Gupta, D.**, Hinchman, T., Hood, J., Lopez, M., & Manuel, A.K. (April, 2018). *Coding with Code-a-Pillar*. Oral Presentation at Celebration of Scholarship. Wichita Falls, TX

**Gupta, D.** & Lindt, S. (April, 2017). Changing Self-efficacy of Pre-service Teachers during a Week-long Mathematics Camp. Poster presented at the Celebration of Scholarship. Wichita Falls, TX.

Lindt, S. F. & **Gupta, D.** (April, 2016). *Mathematics Teaching Self-Efficacy Beliefs: The Influence of Facilitating a Week-Long Summer Camp for College Students*. Oral Presentation at Celebration of Scholarship. Wichita Falls, TX.

### **Presentations with Undergraduate Students**

#### **National, State, and Regional**

Gupta, D. Moldavan, A. Bullard, A., & **Melloan, M** (March, 2022). *Enhancing Culturally Relevant Math Tasks with Multicultural Literature*. Presented at the 2021 Annual

Research Council of Mathematics Learning (RCML), Grapevine, TX.

**Ginnings, C., Latham, A.,** Rutherford, E. & Gupta, D. (February, 2019). Impact of Professional Noticing Framework on Pre-Service Teachers Understanding of Struggling Students' Mathematical Thinking. Paper Presented at Southwest Educational Research Association (SERA). San Antonio, TX.

**Garay, M., Arredondo, F.,** Gupta, D. & Medellin, K. (February, 2018). *From Margin to Center: Multicultural Picture books for Math Science, and Social Studies*. Paper Presented at the Southwest Educational Research Conference (SERA). New Orleans, LO.

**Brown, J.R., Woods, T. &** Gupta, D. (February, 2017). *Integrating STEAM into Elementary Education: Fostering Self-Efficacy in Pre-service Teachers*. Paper Presented at Southwest Educational Research Association (SERA). San Antonio, TX

**Whitwood, M.** (April, 2017). *Integrating Children's Literature in Math: Fostering Pre-service Teachers' Understanding and Connections*. Presented at National Alpha Chi Conference in Louisville, Kentucky. *Faculty Mentor for the project.*  
● Won Patricia A. Williams Prize in Education

**Bussue, N. R.** (April, 2017). *Integrating Children's Literature in Math: Fostering Pre-service Teachers' Understanding and Connections*. Presented at the Texas Council for Exceptional Children's Conference, Austin, TX. *Faculty Mentor for the project*

**Bussue, N. R. & Whitwood, M.** (March, 2017). *Integrating Children's Literature in Math: Fostering Pre-service Teachers' Understanding and Connections*. Poster Presented at the Texas Undergraduate Day at the Capitol. *Faculty Mentor for the project*

**Gupta, D., Bussue, N. R., & Whitwood, M.** (November, 2016). *Integrating Children's Literature in Math: Fostering Pre-service Teachers' Understanding and Connections*. Poster Presented at PME-NA (North American chapter of the International Group for the Psychology of Mathematics Education). Tucson, AZ.

**Bussue, N. R., Whitwood, M. &** Gupta, D. (February, 2016). *Integrating Children's Literature in Elementary Math Methods: Fostering Understandings and Connections*. Paper Presented at Southwest Educational Research Association (SERA). New Orleans, LA.

**Cason, L.,** Gupta, D., & Hutson, T. (October, 2015). *Integration across Disciplines: Math, Science and Physical Education in Elementary Classrooms*. Presented at School Science and Mathematics Association, Oklahoma, OK.

**Forums at Midwestern State University** (*Faculty Mentor for the Projects*)

**Clarke, B.** (July, 2021). *Assessing Effectiveness of Digital Mathematics Games*. Oral Presentation at the Summer 2021 UGROW forum at MSU in Wichita Falls, TX



**Rayna, T.** (April 2020). *Exploring Digital Math Games*. Presented virtually at the Spring 2020 Undergraduate Research and Creative Activities Forum at MSU in Wichita Falls, TX

**Rayna, T.** (Summer 2020). *Exploring Digital Math Games*. Presented virtually at the Summer 2020 UGROW Forum in Wichita Falls, TX

**Ginnings, C. & Latham, A.** (November, 2018). *Pre-Service Teachers Noticing of Struggling Students' Mathematical Thinking* Oral Presentation at the Fall 2018 Undergraduate Research and Creative Activities Forum at MSU in Wichita Falls, TX *Faculty mentor with Dr. Emily Rutherford*

**Arredondo, F. & Garay, M.** (April, 2018). *From Margin to Center: Multicultural Picture-Books*. Oral Presentation at the Spring 2018 Undergraduate Research and Creative Activities Forum at MSU in Wichita Falls, TX. (*Faculty mentor with Ms. Kelly Medellin*)

- *Won Best Interdisciplinary Project,*
- *Won First Place for Best Oral Presentation*

**Hailey, M. (November, 2017).** *Educational Research Gone Wrong*. Oral Presentation at the Fall 2017 Undergraduate Research and Creative Activities Forum at MSU in Wichita Falls, TX. (*Faculty mentor for the project*)

- *Second Place for Oral Presentation*
- *Most Interdisciplinary Oral Presentation*
- *Most Creative Oral Presentation*

**Arredondo, F. & Garay, M.** (November, 2017). *From Margin to Center: Multicultural Picture-Books*. Poster Presented at the Fall 2017 Undergraduate Research and Creative Activities Forum at MSU in Wichita Falls, TX. (*Faculty mentor with Ms. Kelly Medellin*)

- *Won Second Place for Best Poster Presentation*

**Woods, T. & Brown, J. R.** (April, 2017). *The Effect of STEAM units on Pre-service Teachers' Self-Efficacy*. Poster Presentation at the Spring 2017 Undergraduate Research and Creative Activities Forum at MSU in Wichita Falls, TX. (*Faculty mentor for the project*)

- *Won First Place for Best Poster Presentation*

**Brown, J. R. & Woods, T.** (November, 2016). *The Effect of STEM and STEAM*. Oral Presentation at the Fall 2016 Undergraduate Research and Creative Activities Forum at MSU in Wichita Falls, TX. (*Faculty mentor for the project*)

- *Won Second Place in Oral Presentation*

**Whitwood, M. & Bussue, N. R.** (April, 2016). *Integrating Children's Literature in Elementary Math Methods: Fostering Understandings and Connections*. Poster Presentation at the Spring 2016 Undergraduate Research and Creative Activities

Forum at MSU in Wichita Falls, TX. (*Faculty mentor for the project*)

- *Won First Place*
- *Awarded Most Creative and Original presentation*
- *President's Award Winner*- Overall Top Winner from All Colleges, poster and oral presentations. The only presentation with a perfect score of 24 and a perfect score of 10 for Originality and Creativity for that Forum.

**Whitwood, M. & Bussue, N.** (November, 2015). *Integrating Children's Literature in Elementary Math Methods: Fostering Understandings and Connections*. Oral Presentation at the Fall 2015 Undergraduate Research and Creative Activities Forum at MSU in Wichita Falls, TX. (*Faculty mentor for the project*)

- Won Best Oral Presentation Award

**Maegan, T. (April, 2015).** *Integrating Reading in Elementary Mathematics Classrooms*. Oral Presentation at the Spring 2015 Undergraduate Research and Creative Activities Forum at MSU in Wichita Falls, TX. (*Faculty mentor with Dr. Christian Northrup*)

**Cason, L. & Giamporcaro, M.** (April, 2015). Learning Through Movement. Poster Presentation at the Spring 2015 Undergraduate Research and Creative Activities Forum at MSU in Wichita Falls, TX (*Faculty mentor with Dr. Tommy Hutson*)

### C. Applied research

Exploring Effectiveness of Digital math Games with undergraduate students and faculty at Sam Houston University

Designing Culturally Relevant Mathematics Tasks – project in collaboration with Fordham University, New York

Using Rights of Learner Framework to create environment of Access, Equity, and Identify in Math Methods – collaborative project with University of North Texas, Stephen F. Austin, and University of Texas- San Antonio

Learning through Play: Coder Pillar research in collaboration with Midwestern State University mathematics department and Wichita Falls Independent School District

Serving as lead faculty for the NOYCE NSF grant to bring together WCOE and COSM for the benefit of increasing numbers of 7-12 science and math students, 2017-Present

Pre-service Teachers Noticing of Struggling Students' Mathematical Thinking. EURECA Project with Dr. Emily Rutherford, Fall 2018

From Margin to Center: Multicultural Picture-Books. EURECA project with Mrs. Kelly Medellin, 2017-2018

Project MUSTANG: Increasing mathematics self-efficacy for middle school students. Mixed

Methods Study– Summer 2015, Summer 2016, and Summer 2017

Camp SUM (Sparking Understanding of Mathematics) for Elementary School Students – Summer 2016 and Summer 2017

The Effect of STEAM units on Pre-service Teachers' Self-Efficacy. EURECA Project, 2016-2017

Integrating Children's Literature in Elementary Math Methods: Fostering Understandings and Connections. EURECA Project, 2015-2016

Why STEAM is HOT: Integrating Science, Technology, Engineering, Art, and Mathematics (STEAM) for Higher-Order Thinking (HOT) Skills!!! Case Study with Dr. Tommye Hutson, 2014-2015

Movement Integration Textbook for Classroom Teachers (Math Chapter of the Book), 2016-2018

D. **Professional involvements**

Southwest Educational Research Association (SERA)

- Member, 2014- Present
- Co-chair Division II: Instruction, Learning, and Cognition for *Southwest Educational Research Association*, 2015, 2016, 2017
- Proposal Reviewer for the annual SERA conferences
- Member-at-Large, 2017-2020
- Session Discussant
- Conference Volunteer

Association of Teacher Educators-Texas (AMTE-TX)

- VP of Conferences, 2019- 2022
- Member, 2015-Present
- Website Designer
- Proposal Reviewer
- Member Publicity Committee and Conference Committee

Texas Council of Teachers of Mathematics

- CAMT Board Liaison, 2021- Present
- VP of Elementary, 2019-2021
- Member, 2016-Present
- Conference Volunteer
- Manuscript Reviewer

National Council of Teachers of Mathematics (NCTM)

- Member, 2008-2011, 2014- Present
- Specialized Professional Association (SPA) reviewer for the Council for the

Accreditation of Education Preparation.

- Proposal reviewer for the annual and regional NCTM conferences
- Manuscript reviewer for the Teaching *Children Mathematics*, *Mathematics Teaching for the Middle School*, and *The Mathematics Teacher*
- Member of NCTM Curriculum Resource team for Elementary (CRDT-E) tasked with developing resources for teachers throughout U.S., 2015-2016

School Science and Mathematics Association (SSMA)

- Board member, Chair of Nominations and Elections Committee, 2021-Present
- Member, 2011-2016
- Proposal reviewer for conferences
- Manuscript reviewer for the Proceedings of the *School Science and Mathematics Journal*

Research Council of Mathematics Learning

- Member, 2016-2017
- Conference Volunteer

Association of Mathematics Teacher Educators (AMTE) – Member, 2014-Present

Texas Association of Teacher Educators (ATE) – Member, 2014-2017

Central Texas Council of Teachers of Mathematics (CTCTM), 2009-2016

- Member, 2009-2016
- Website Designer, 2012-2016

Add AERA lesson Study SIG

## E. Grants

### ▪ External Grants

#### West Center of Educational Research

- *Project MUSTANG* (Middle School Summer Math Camp), awarded Spring 2017: **\$3,510.62**
- *Camp SUM* (Elementary Summer Math Camp), awarded Spring 2017: **\$3,448.77**
- *Project MUSTANG* (Middle School Summer Math Camp), awarded Spring 2016: **\$4,833.25**
- *Camp SUM* (Elementary Summer Math Camp), awarded Spring 2016: **\$3,550.25**
- *Project MUSTANG* (Middle School Summer Math Camp), awarded Spring 2015: **\$5,521.00**

### ▪ Midwestern State University Internal Research Grant

- *STEAMing HOT Camp (Science, Technology, Engineering, Arts, and Mathematics Higher Order Thinking)*, Accepted and funded **\$6,485 in 2018**
- *Why STEAM is HOT: Integrating Science, Technology, Engineering, Art, and Mathematics (STEAM) for Higher-Order Thinking (HOT) Skills*, Accepted and funded **\$3,298.00 in 2014**

- **EURECA grants for undergraduate research**
  - Amanda Latham and Connie Ginnings, Fall 2018 with Dr. Emily Rutherford
  - Frida Arredondo and Monserrath Garay, Fall 2017 and Spring 2018, mentor with Mrs. Kelly Medellin
  - Tamra Woods and Jocelyn Brown, Fall 2016 and Spring 2017
  - Nikki Bussue and Melissa Whitwood, Fall 2015 and Spring 2016
  - Maegan Thurston, Spring 2015
  - Mario Giamporcaro, Spring 2015
  
- **Other Grants**
  - TCTM (Texas Council of Teachers of Mathematics) grant for conference attendance for pre-service teachers, Awarded in 2020, **\$780**
  - Bryant Edwards Foundation, Collaboration between MSU and River Bend Nature Center, awarded in 2017, **\$1,500.00**
  - MSU TAIR award with undergraduate students, *Integrating Children's Literature in Elementary Math Methods: Fostering Understandings and Connections*, awarded in 2015, **\$500**.
  - Dorothy Kendall Bracken Award for Special projects, *Mirror, Mirror*, awarded in 2014, **\$500**.
  - Travel Grants, Curriculum and Instruction Department (each semester), Baylor University, Waco, TX
  - Data Analyst for *Action Research and Its Impact on PDS Partnerships*, \$7460, Baylor University

F. **Consultancies**

**Gupta, D.** (June, 2018). *Algebraic Thinking and Proportional Reasoning*. Presented at Region 9 Service Center

**Gupta, D.** (June, 2017). *Algebraic Thinking and Proportional Reasoning*. Presented at Region 9 Service Center

**Service**

**University**

College IRB Representative, 2021- Present

College T&P Committee, 2020- Present

Member, QEP High Impact Practices, 2021-Present

Member, Value-based Communication Committee, 2021- Present

Member, University Readmission Committee, 2021-2022

Chair, Teaching and Learning Center (TLRC) Committee, 2017-2020

Member of TLRC Committee, 2016-2020

Member of the Academic Appeals Committee, 2017-2019

Campus Liaison for Texas Undergraduate Research Day at the Capitol (UGRD), 2017-2018

Library Research Committee, 2015- Present

#### EURECA

- EURECA Grant Proposal Reviewer- Fall 2016, Fall 2017, Fall 2018, Spring 2019
- UGRCA Oral Presentation Evaluator- Spring 2015, Fall 2015, Spring 2016, Fall 2019, Spring 2020
- UGRCA Poster Presentation Evaluator- Fall 2015, Spring 2016
- UGRCA Forum Moderator- Fall 2017

Evaluator for Celebration of Scholarship Graduate Oral Presentations- Spring 2017, Spring 2018, Spring 2020

#### MSU Student Recruitment Events

- Discover MSU- Spring 2017, Spring 2018
- Mustang Rally – Spring 2015, Fall 2015, Fall 2017
- Family Day- Fall 2014, Fall 2015, Fall 2016
- Part of Recruiting Group to Allen, TX, Spring 2015

#### Faculty Advisor for student organization

- Future Educators Association
- Kappa Delta Pi, 2017-Present

Organized Discover MSU day on March 3<sup>rd</sup>, 2017 with Dr. Angela Cartwright

Invited to participate in the open forum at the MSU Museum of Arts (Museum Taskforce open forum on January 25<sup>th</sup>, 2017) to discuss ideas for museum and university to collaborate and support each other in their respective missions

Participate in the *Math, Science, and U conference* organized by the College of Sciences and Mathematics for the public middle school girls attending the conference

- Volunteer, 2014- Present
- Plan lunch activities, 2015-Present

#### Attended University events

- Comprehensive campaign plan to guide a seven year, \$50 million fundraising effort of MSU and shared ideas to support the endeavor, Nov 18<sup>th</sup>, 2017
- Book Plating Ceremony and Reception honoring the faculty who have received tenure and/or advancement in professional rank at Midwestern State University, Nov 9<sup>th</sup>, 2016

- Attended visits to “Rhonda Blevins” and “Barbara Morgan” - candidates for the Coordinator of Sponsored Programs and Research position, October, 2016.
- Attended sessions with McAllister and Quinn grant writing group, 2014, 2016.

**College/Departmental**

WCOE IRB representative, 2021- Present

Conduct Study Sessions for students failing EC-6 core certification test and 4-8 Math, Spring 2018-Present

Member, West Coellge of Education, DEI (Diversity, Equity, and Inclusion) committee, 2022- Present

West College of Education- CAEP Standard Five Committee Member, Fall 2017- Present

WCOE Advisory Committee of Program Quality- Fall 2016-present

WCOE College Research Committee- Fall 2016-2019

West College of Education- Alternative Certification Committee Member, Spring 2016-Present

Regularly conduct Haberman interviews with other faculty members to admit students into the teacher education program- Spring 2014- Present

Committee Member of MSU TAIR (Texas Association for Improvement of Reading) for WCOE, 2015- Present

Data Analysis and program reports for 4-8 and 7-12 Mathematics, SACS and NCATE- Fall 2010-Present

WCOE Search Committees

- WCOE Science Instructor Search Committee, Fall 2021
- WCOE Math Instructor Search Committee, Summer 2021
- WCOE Social Studies Instructor Search Committee, Summer 2018
- WCOE Science Instructor Search Committee, Summer 2016
- WCOE Social Studies Instructor Search Committee, Summer 2016
- WCOE Reading Faculty Search Committee, Fall 2015

WCOE Student Thesis Committee

- Christina Shubert, Master’s thesis on *Supporting New Teachers Through Reading Specialists*, 2017
- Shasta Smith, Master’s Thesis on *The Effects of Graphic Organizers on Reading Comprehension*, 2017

West College of Education- CAEP Standard Two Committee Member, Fall 2014-2017

Conducted reliability training analyzing the CAEP data for the faculty to achieve reliability for the key assessments of WCOE with Dr. Suzanne Lindt in

Part of the Recruiting Group to Lubbock, TX at the regional Texas Association of Future Educators (TAFE) Teach Tomorrow Summit- Spring 2015.

Evaluation of Teacher Work Samples or Impact on Student Learning Assessments, 2015 and 2018.

Volunteered to attend the Digital Day in collaboration with WFISD to promote and showcase technology used in partnering schools, 2017, 2018

Attended the “Reading is Power”, to represent the West College of Education at the 4<sup>th</sup> Annual Educational Banquet, 2017

Attended Honors Banquet, 2017

A. **Professional**

Board Member- Chair Nominations and Elections Committee, School Science and Mathematics Association, 2021-Present

Board member (CAMT Liaison-on for Texas Council of Teachers of Mathematics), 2021-Present

Vice President of Conferences, AMTE-TX (Texas Chapter of Association of Mathematics Teacher Educators), 2019- 2022.

VP of Conferences, Texas Chapter of Association of Mathematics Teacher Educators (AMTE-TX), 2019- Present

CAEP-SPA Reviewer for NCTM- Spring 2015- Present

AMTE-TX (Association of Teacher Educators-Texas)

- Proposal Reviewer, 2015-Present
- Reviewer for the LINK, online journal for the AMTE-TX organization
- Served on Publicity Committee – 2016- Present
- Served on Conference Committee, 2015, 2016

Manuscript Reviewer

- Texas Math Teacher, 2017-Present
- Teaching Children Mathematics, 2015-Present
- Mathematics Teaching in the Middle School, 2015-Present
- Mathematics Teacher, 2015-Present
- Curriculum and Teaching Dialogue, 2014-Present



- Ohio Journal of School Mathematics, 2017- Present
- Texas Council of Teachers of Mathematics, 2014-2016
- Journal of Research in Childhood Education, 2010-2013
- TCTM, 2019 -1,

Proposal Reviewer

- Association of Mathematics Teacher Educators (AMTE), 2016 –Present
- Southwest Educational Research Association (SERA) conference, 2014 - Present
- National Council of Teachers of Mathematics (NCTM) Research Conference proposals, 2016
- American Educational Research Association, 2013, 2016
- Reviewer for the PMENA conference, 2016, 2017
- PMENA, 2019 (1)
- TxATE, 2019 (22)

Conference Volunteer for the Texas Council of Teachers of Mathematics (TCTM) and National Council of Teachers of Mathematics (NCTM)

Website Designer for Central Texas Council of Teachers of Mathematics (CTCTM), 2008-2016.

Teaching and Learning Resources Council Presentation to MSU faculty, Fall 2015

Wrote recommendation letter for tenure for Dr. Marsha Sowell, Texas A&M University—Kingsville

**B. Community**

Treasurer, West Foundation Elementary PTO, 2022- Present

President, West Foundation Elementary PTO, 2021- 2022

Board member, West Foundation Elementary PTO, 2019-2020

Board member, School for Little People, PTO. 2018-2020.

Board member, Wichita Falls Adult Literacy Council, 2019- 2020.

Board member for River Bend Nature Center, 2016-2021

- Volunteer at events Not-so-Scary Halloween
- Volunteer at Electric Critters
- Volunteer for other events towards increasing membership of the organization

Workshop at the Wichita Falls public Library on “Coding Beginnings for Ages 4-6 with Code-a-pillar” on Nov 29<sup>th</sup> and Dec 6<sup>th</sup>, 2017

Board member (MSU Faculty Liaison) for Head Start, Wichita Falls, TX, 2016-2017

Participated in community clean-up for Sikes Lake Center, 2015

School of Little People Parent Teacher Organization

- Volunteer at Anniversary Celebration, 2017, 2018
- Volunteer for making 100 Scholastic Reading Flyers,
- Participated in Park Day Clean, 2015

Volunteer for Read2Learn program at Scotland Park Elementary School, 2014-2015

Organized for MSU students participate and judge Wichita Falls Independent School District MacGyver STEAM fair on Jan 26<sup>th</sup>, 2017

### **Awards and Honors**

2021 – Midwestern State Nominee for the Piper Professor Award

2021 – West College of Education Nominee for the Piper Professor Award

2021 – Nominated as the WCOE Distinguished Faculty Scholar Award

2021 - Gordon T. & West College of Education, Excellence in Scholarship Nominee

2020 – Nominated and elected on the Board of Directors for the School Science and Mathematics Association for 2021-2024 term.

2019 – Elected as the Vice-President of Conferences for Texas Chapter of Association of Mathematics Teacher Educators (AMTE-TX)

2018 – Invited to conduct a 6-hour math workshop at Region 9 for area teachers

2017 – Invited National Presentation *Using lesson study to grow our practice and our students' learning* at Bucknell University, Lewisburg, Pennsylvania

2017 - MSU Liaison on as the faculty advisor for Austin trip

2017 - Research chosen to represent MSU at the Texas Undergraduate day at the Capitol

2017 - Student-selected Sponsor for Alpha Chi Induction, University Honor Society

2017 – Invited to conduct a 6-hour math workshop at Region 9 for area teachers

2016 - Student-selected Sponsor for Alpha Chi Induction, University Honor Society

Spring 2016 - President's award for EURECA project, "*Integrating Children's Literature in Elementary Math Methods: Fostering Understandings and Connections*" with undergraduate students Nikki Bussue and Melissa Whitwood.

2015 – Early Career Scholar Award for Outstanding Dissertation from SSMA (School Science

and Mathematics Association) titled *Early Elementary Students' Fractional Understanding: Examination of Cases from a Multi-Year Longitudinal Study*

2015 - Chosen as one of the 32 early career mathematics education faculties to be part of the STaR Program (Service, Teaching and Research) in Mathematics education through a grant from NSF to Association of Mathematics Teacher Educators (AMTE).

2014 - Student-selected Sponsor for Alpha Chi Induction, University Honor Society

2014 - Dorothy Kendall Bracken Award for Special projects, \$500.

2014 - Nominated to represent the School of Education and C&I to the SOE Advisory Council, Baylor University, Waco, TX.

2013 - Part of the group presented with "Award for Excellence in Integrating Math and Science" for the project *GEARing UP for Success through Integrating Mathematics and Science* at School Science and Mathematics Association, San Antonio, TX,

2011 and 2009 - District Awards for Teacher Excellence and received.

2009-2010 - Awarded the Bowden Award of one of the five best teachers of the school year.