

DUSTIN L. JONES

Curriculum Vita

Office:

Associate Professor
Department of Mathematics & Statistics
Sam Houston State University
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PROFESSIONAL PREPARATION

Degrees:

- 2004 Ph. D. University of Missouri, Columbia, Missouri.
Curriculum and Instruction, Mathematics Education emphasis
Advisors: Dr. James E. Tarr and Dr. Robert E. Keys
- 1999 M. S. Texas A&M University, College Station, Texas.
Mathematics, Mathematics Education emphasis
Advisor: Dr. Sue Geller
- 1997 B. S. Southwest Baptist University, Bolivar, Missouri.
Mathematics

Certificates:

- 1997 Missouri Teaching Certificate (inactive)
Mathematics, grades 9-12
- 1999 Texas Teaching Certificate (valid until 2021)
Secondary Mathematics, grades 7-12
Core Subjects, Early Childhood-grade 6
Core Subjects, grades 4-8
Mathematics, grades 4-8

TEACHING

Post-Secondary Experience:

Associate Professor of Mathematics: Sam Houston State University, Huntsville, Texas.

September 2011 – present.

Assistant Professor of Mathematics, September 2006 – August 2011.

Graduate Faculty Status granted October 2006.

Tenure granted September 2011.

MATH 1384 Introduction to the Foundations of Mathematics I
 MATH 1385 Introduction to the Foundations of Mathematics II
 MATH 2384 Functions and Graphs
 MATH 2385 Fundamentals of Calculus
 MATH 3380 Historical Perspective of Mathematics
 MATH 3381 Introduction to the Foundations of Mathematics III
 MATH 3382 Foundations of Middle School Mathematics
 MATH 3384 Foundations of Mathematics
 MATH 3386 Foundations of Probability and Statistics
 MATH 4385 Mathematical Problem Solving
 MATH 5380 Research Project in Mathematics Education
 MATH 5386 Seminar in Algebra for Teachers
 MATH 5387 Seminar in Geometry for Teachers
 MATH 5388 Seminar in Analysis for Teachers
 MATH 5360 Algebra: Structure and Applications
 MATH 5360 Mathematical Connections: Algebra, Trigonometry & Combinatorics
 MATH 5360 Quantitative and Qualitative Data Analysis Internship
 MATH 5360 Seminar in Rings & Fields for Teachers

Graduate Student Supervision

Melissa A. Tydlacka	MA Mathematics, 2010	<i>Textbook Comparison of Statistical Displays</i>
Maureen Feste	MA Mathematics, 2011	<i>Unit on Functions and Transformations</i>
Mary B. Sczech	MA Mathematics, 2011	<i>Understanding Geometry with the Use of Technology</i>

Visiting Clinical Assistant Professor: University of Florida, Gainesville, Florida.

August 2012 – May 2013.

MAE 3312 Content and Methods for Teaching Mathematics in the Inclusive Elementary Classroom Part I
 MAE 4310 Teaching Mathematics in the Inclusive Elementary School
 SMT 3100 Knowing and Learning in Mathematics and Science Teaching

Assistant Professor of Mathematics: Central Missouri State University, Warrensburg, Missouri.
January 2005 – May 2006.

MATH 1620 Contemporary Mathematics
MATH 1800 Introduction to Teaching Elementary and Middle School Mathematics
MATH 2801 Concepts and Methods in Elementary School Mathematics
MATH 3890 Concepts and Methods of Teaching Mathematics for Special Education
MATH 4821 Elements of Algebra
MATH 4822 Elements of Geometry
MATH 4890 Mathematics for Special Education

Doctoral Teaching/Research Assistant: Department of Curriculum and Instruction, University of Missouri, Columbia, Missouri. August 2001 – December 2004.

ED 326 Teaching Mathematics in Elementary School
ED 353 Teaching Secondary School Mathematics: Focus on Geometry, Probability, and Statistics
ED 399 Supervision of Student Teachers

Graduate Teaching Assistant: Mathematics Department, Texas A&M University, College Station, Texas. January 1997 – May 1999.

Functions, Trigonometry, and Linear Systems
Calculus II

Public & Private School Experience:

Elementary School Teacher: Samuel Walker Houston Elementary School, Huntsville, Texas.
August 2016-May 2017

Mathematics, Science, and Social Studies (Grade 4)

High School Mathematics Teacher: Christian Fellowship School, Columbia, Missouri.
August 2003-June 2004.

Algebra I, Algebra II (Grades 8, 9, 10, 11)

Mathematics Teacher: Sun Ray Chinese School, Dallas, Texas. June 2001 – July 2001.

Mathematics (Grades 4 & 9)

Mathematics Teacher: Jasper High School, Plano, Texas. August 1999 – May 2001.

Algebra I, Geometry, Honors Geometry, Protected Geometry (Grades 9 & 10)

SCHOLARSHIP

Publications:

Refereed Journals

(* denotes undergraduate student)

- 1 **Jones, D.** (accepted). What I learned from being a first-year elementary teacher. *Link*.
- 2 **Jones, D.** (accepted). The pathway to protractors, and beyond. *Texas Mathematics Teacher*.
- 3 **Jones, D.** (2017). Sharing a birthday: Technology-supported investigations in middle school. *Statistics Teacher*. <http://www.statisticteacher.org/2017/02/17/sharing-a-birthday-technology-supported-investigations-in-middle-school/>
- 4 **Jones, D.**, Hollas, V., & Klespis, M. (2017). The presentation of technology for teaching and learning mathematics in textbooks: Content courses for elementary teachers. *Contemporary Issues in Technology and Mathematics Teacher Education*, 17(1).
- 5 **Jones, D. L.**, Brown, M.*, Dunkle, A.*, Hixon, L.*, Yoder, N.*, & Silbernick, Z.* (2015). The statistical content of elementary school mathematics textbooks. *Journal of Statistics Education*, 23(3).
- 6 **Jones, D. L.**, & Jacobbe, T. (2014). An analysis of the statistical content in textbooks for prospective elementary teachers. *Journal of Statistics Education*, 22(3).
- 7 **Jones, D. L.**, & Scariano, S. M. (2014). Measuring the variability of data from other values in the set. *Teaching Statistics*, 36(3), 93-96.
- 8 Lee, H. S., Kersaint, G., Harper, S. R., Driskell, S. O., **Jones, D. L.**, Leatham, K. R., Angotti, R. L., & Adu-Gyamfi, K. (2014). Teachers' use of transnumeration in solving statistical tasks with dynamic statistical software. *Statistics Education Research Journal*, 13(1), 25-52.
- 9 **Jones, D.** (2013). Happy birthday to ... two? *STatistics Education Web (STEW): Online journal of K-12 statistics lesson plans*. <http://www.amstat.org/education/stew/>
- 10 **Jones, D. L.**, & Scariano, S. M. (2012). Medians, modes, and making decisions. *Texas Mathematics Teacher*, 59(1), 18-20.
- 11 **Jones, D. L.**, & Scariano, S. M. (2012 Spring). A classroom note on strengthening statistical reasoning with loaded dice. *Mathematics and Computer Education*, 46(2), 86-97.
- 12 **Jones, D. L.** & Coleman, M. (2012). Tapering timbers: Conical frusta volume formulas. *Mathematics Teacher*, 105(7), 500-505.

- 13 **Jones, D. L.** (2012). The birthday problem, empirically. *Mathematics Teacher*, 105(6), 480.
- 14 Klespis, M., & **Jones, D.** (2011, Spring). Exploring irrational numbers with the TI-Nspire. *Ohio Journal of School Mathematics*, 63, 17-21.
- 15 **Jones, D. L.** (2011). Exploring volumetrically indexed cups. *International Journal of Mathematical Education in Science and Technology*, 42(2), 272-275.
- 16 Swarthout, M., **Jones, D.**, Klespis, M., & Cory, B. (2009, Fall). Sneaking a peek at students' understanding of functions: Why not concept maps? *Ohio Journal of School Mathematics*, 60, 24-28.
- 17 **Jones, D. L.** (2009). Random devices utilized in mathematics textbooks. *Journal of Mathematical Sciences and Mathematics Education*, 4(2), 32-42.
- 18 **Jones, D. L.** (2009). Examining cylindrical dice. *Mathematics Teacher*, 102, 420-424.
- 19 **Jones, D. L.** (2008). Probability topics addressed in U.S. middle-grades textbooks, 1957-2004. *International Journal for the History of Mathematics Education*, 3(1), 1-18.
- 20 **Jones, D. L.**, & Tarr, J. E. (2007). An examination of the levels of cognitive demand required by probability tasks in middle grades mathematics textbooks. *Statistics Education Research Journal*, 6(2), 4-27.
- 21 **Jones, D. L.** (2007). Components of probability lessons in textbooks. *Academic Exchange Quarterly*, 11(2), 112-116.
- 22 **Jones, D. L.** (2007). A collection of loci using two fixed points. *Missouri Journal of Mathematical Sciences*, 19(2), 141-150.
- 23 **Jones, D.** (2007). Probability tasks in textbooks: Not all are created alike. *Texas Mathematics Teacher*, 54(1), 6-10.
- 24 Arbaugh, F., Lannin, J., **Jones, D. L.**, & Park-Rogers, M. (2006). Examining instructional practices in Core-Plus lessons: Implications for professional development. *Journal of Mathematics Teacher Education*, 9(6), 517-550.
- 25 Reys, R., Chávez, Ó., & **Jones, D.** (2005). Spatial visualization: What happens when you turn it? *Mathematics Teaching in the Middle School*, 11(4), 190-196.
- 26 **Jones, D.**, & Arbaugh, F. (2004) What do students know about time? *Mathematics Teaching in the Middle School*, 10, 82-84.

Books

- 1 Chval, K., Lannin, J., & **Jones, D.** (2016). *Putting essential understanding of geometry and measurement into practice in grades 3–5*. Reston, VA: National Council of Teachers of Mathematics.
- 2 Lannin, J., Chval, K., & **Jones, D.** (2013). *Putting essential understanding of multiplication and division into practice in grades 3–5*. Reston, VA: National Council of Teachers of Mathematics.
- 3 Chval, K., Lannin, J., & **Jones, D.** (2013). *Putting essential understanding of fractions into practice in grades 3–5*. Reston, VA: National Council of Teachers of Mathematics.

Book Chapters

- 1 **Jones, D. L.** & Tarr, J. E. (2010). Recommendations for statistics and probability in school mathematics over the past century. In R. Reys & B. Reys (Eds.), *The K-12 mathematics curriculum: Issues, trends, and future directions – 72nd NCTM yearbook* (pp. 65-76). Reston, VA: National Council of Teachers of Mathematics.
- 2 Arbaugh, F., Lannin, J. K., **Jones, D. L.**, & Barker, D. (2010). Textbook-specific professional development: Impacting teachers' knowledge and views. In J. W. Lott & J. Luebeck (Eds.), *AMTE Monograph 7 – Mathematics teaching: Putting research into practice at all levels* (pp. 91-108). San Diego, CA: Association of Mathematics Teacher Educators.

Conference Proceedings

- 1 Klespis, M., Hollas, V. & **Jones, D.** (2017). The presentation of technology in mathematics textbooks used in content courses for elementary teachers. In P. Resta & S. Smith (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2017* (pp. 1948-1953). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).
- 2 **Jones, D. L.** (2014). The role of technology for learning stochastics in U.S. textbooks for prospective teachers. In K. Jones, C. Bokhove, G. Howson, & L. Fan (Eds.), *Proceedings of the International Conference on Mathematics Textbook Research and Development (ICMT-2014)* (pp. 269-274). Southampton, UK: University of Southampton.
- 3 Cory, B., Dawkins, P., Eddy, C., Epperson, J., Fuentes, S. Q., Gawlik, C., **Jones, D.**, Jorgensen, T., Mallam, W., Ward, E., & Wheeler, A. (2010). Developing models for localized cross-institutional mathematics education research groups. In P. Brosnan, D. B. Erchick, & L. Flevaris (Eds.), *Proceedings of the 32nd annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 1591-1598). Columbus, OH: The Ohio State University.

- 4 **Jones, D.** (Ed.) (2009). *Proceedings: Second conference on mathematics education research in Texas*. Huntsville, TX: Sam Houston State University.
- 5 **Jones, D. L.** (2009). A summary of No Common Denominator. In D. Jones (Ed.) *Proceedings: Second conference on mathematics education research in Texas* (pp. 7-8). Huntsville, TX: Sam Houston State University.
- 6 Klespis, M., Cory, B., **Jones, D.**, Swarthout, M., & Zientek, L. (Eds.) (2008). *Proceedings: First conference on mathematics education research in Texas*. Huntsville, TX: Sam Houston State University.
- 7 Arbaugh, F., Lannin, J., Barker, D., & **Jones, D.** (2005). Curriculum-specific professional development: A phenomenographical study of teachers' perceptions. In G. M. Lloyd, S. Wilson, J. L. M. Wilkins, & S. L. Behm (Eds.), *Proceedings of the twenty-seventh annual meeting of the North American chapter of the International Group for the Psychology of Mathematics Education*. Blacksburg, VA: Virginia Tech.

Book Reviews

- 1 **Jones, D. L.** (2009). Review of the book *Euler's gem: The polyhedron formula and the birth of topology*. *Mathematics Teacher*, 103, 87.

Other Works

- 1 Cruz-White, I., Eddy, C.M., Brown, S., Weilmuenster, J., Fuentes, S. & **Jones, D.** (2017). An alignment of the Educational Testing Service customized Texas state licensure tests to competencies identified in the *NCTM CAEP Standards (2012) Mathematics content for Middle Grades*. National Council of Teachers of Mathematics. Retrieved from <http://www.nctm.org/Standards-and-Positions/CAEP-Standards/State-Licensure-for-NCTM-CAEP-Standards/>
- 2 **Jones, D.** (2016). President's message. *Link*, 6(2), 1-2.
- 3 **Jones, D.** (2015). President's message. *Link*, 6(1), 1-2.
- 4 **Jones, D.** (2015). President's message. *Link*, 5(3), 1-2.
- 5 **Jones, D.** (2015). President's message. *Link*, 5(2), 1-2.
- 6 **Jones, D.** (2014). President's message. *Link*, 5(1), 1-2.
- 7 **Jones, D.** (2013). Getting creative with history and mathematics. *Link*, 4(1), 4-5.
- 8 **Jones, D.** (2011). In memoriam: John Huber, 1948-2011. *AMTE-TX Newsletter*, 1(2), 5.
- 9 **Jones, D. L.** (2010). Triangle. *College Mathematics Journal*, 41(5), 392.

- 10 **Jones, D. L.** (2004). *Probability in middle-grades mathematics textbooks: An examination of historical trends, 1957-2004*. Unpublished doctoral dissertation, University of Missouri-Columbia.
- 11 Barker, D., & **Jones, D.** (2002). Missouri mathematics teacher recruitment/preparation/certification conference. *The Golden Rectangle*, 8(2), 1-2.

Presentations:

International Level

- 1 **Jones, D. L.** (2014 July). The Role of Technology for Learning Stochastics in U.S. Textbooks for Prospective Teachers. International Conference on Mathematics Textbook Research and Development, Southampton, United Kingdom.

National Level

(* denotes undergraduate student)

- 1 Klespis, M., Driskell, S., Murawska, J., & **Jones, D.** (2017 February). Technology's Role in a Calculus Course for Middle Grades Mathematics Teachers: A Multi-Institutional Perspective. Association of Mathematics Teacher Educators Annual Conference, Orlando, FL.
- 2 **Jones, D.**, & Klespis, M. (2016 January). A Calculus Course for Prospective Middle Grades Teachers. Association of Mathematics Teacher Educators Annual Conference, Irvine, CA.
- 3 **Jones, D.**, Dunkle, A.*, Hixon, L.*, & Yoder, N.* (2015 April). Statistical Content of Elementary Textbooks. National Council of Teachers of Mathematics Research Conference, Boston, MA.
- 4 **Jones, D.**, Lannin, J., & Chval, K. (2014 February). The Sixth Sense: Drawing Inferences from Student Work. Association of Mathematics Teacher Educators Annual Conference, Irvine, CA.
- 5 **Jones, D.** & Sharon, V. (2013 January). Rational Numbers: Ramp or Roadblock to Algebra? Association of Mathematics Teacher Educators Annual Conference, Orlando, FL.
- 6 Hollebrands, K., Lee, H., Dick, T., **Jones, D.**, Berry, R. Q., Stallings, L., & Mohr-Schroeder, M. (2013 January). Technology-Based Tasks in Mathematics Teacher Education. Association of Mathematics Teacher Educators Annual Conference, Orlando, FL.
- 7 Sharon, V., **Jones, D.**, & Zientek, L. (2012 February). Prospective Teachers' Ability to Solve Algebra Equations. 39th Annual Meeting of Research Council on Mathematics Learning, Charlotte, NC.

- 8 **Jones, D.** (2011 April). Loaded Dice and Central Tendency: Analyzing Games of Chance. National Council of Teachers of Mathematics Annual Meeting and Exposition, Indianapolis, IN.
- 9 Lee, H., Driskell, S., Harper, S., **Jones, D.**, & Kersaint, G. (2011 April). Creating a Framework to Examine Mathematics Teachers' Exploratory Data Analysis. Research Presession of the National Council of Teacher of Mathematics Annual Meeting and Exposition, Indianapolis, IN.
- 10 **Jones, D.**, & Jacobbe, T. (2011 January). Analyzing the Statistical Content of Textbooks for Prospective Elementary Teachers. Association of Mathematics Teacher Educators Annual Conference, Irvine, CA.
- 11 Cory, B., Fuentes, S. Q., Gawlik, C., **Jones, D.**, Jorgensen, T., Parker, Y., & Ward, E. (2010 November). Developing Models for Localized Cross-Institutional Mathematics Education Research Groups. 32nd Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education. Columbus, OH.
- 12 **Jones, D.**, Cory, B., & Swarthout, M. (2009 February). Strengthening Probability Understanding with Cylindrical Dice. Association of Mathematics Teacher Educators Annual Conference, Orlando, FL.
- 13 **Jones, D. L.** (2008 April). Preservice Teachers' Conceptions of Fair Cylindrical Dice. Research Presession of the National Council of Teacher of Mathematics Annual Conference, Salt Lake City, UT.
- 14 Swarthout, M., **Jones, D.**, & Klespis, M. (2008 January). Using Concept Maps to Assess Prospective Middle Grades Mathematics Teachers' Understanding of Function. Association of Mathematics Teacher Educators Annual Conference, Tulsa, OK.
- 15 **Jones, D.** (2006 April). Changes in chance? Probability in Middle Grades Textbooks, Historically. National Council of Teachers of Mathematics Annual Meeting and Exposition, St. Louis, MO.
- 16 **Jones, D.** (2006 April). Probability in Mathematics Textbooks, 1957-2004. Research Presession of the National Council of Teacher of Mathematics Annual Meeting and Exposition, St. Louis, MO.
- 17 Arbaugh, F., **Jones, D.**, Lannin, J., & Barker, D. (2006 January). Using Pedagogical Thinking as a Lens to Study Teacher Change. Association of Mathematics Teacher Educators Annual Conference, Tampa, FL.
- 18 Arbaugh, F., Lannin, J., **Jones, D. L.**, & Barker, D. (2005 October). Curriculum-specific professional development: A phenomenographical study of teachers' perceptions.

The Annual Meeting of the North American Chapter of Psychology of Mathematics Education.

- 19 Reys, B., Barker, D., & **Jones, D.** (2003 April). In Search of More Mathematics Teachers. National Council of Teachers of Mathematics Annual Meeting and Exposition, San Antonio, TX.
- 20 Reys, R., Chávez, Ó., & **Jones, D.** (2003 January). MMM and M: Modeling Middle School Mathematics and More. Association of Mathematics Teacher Educators Annual Conference, Atlanta, GA.

Regional/State Level

- 1 Klespis, M., & **Jones, D.** (2017 July). A Calculus Course for Prospective Middle Grades Teachers. Conference for the Advancement of Mathematics Teaching, Fort Worth, TX.
- 2 **Jones, D.** (2014 November). Learning What Your Students Know about Multiplication and Division. National Council of Teachers of Mathematics Regional Conference, Houston, TX.
- 3 **Jones, D.** (2014 July). Learning What Your Students Know About Fractions. Conference for the Advancement of Mathematics Teaching, Fort Worth, TX.
- 4 **Jones, D.** (2013 November). Analyzing Games of Chance with Loaded Dice. 48th Annual Mathematics Conference, Rio Grande Valley Council of Teachers of Mathematics. Edinburg, TX.
- 5 **Jones, D.** (2013 November). Learning What Your Students Know About Fractions. 48th Annual Mathematics Conference, Rio Grande Valley Council of Teachers of Mathematics. Edinburg, TX.
- 6 **Jones, D.** (2013 July). Statistics for Elementary Teachers: What's in the Book. Conference for the Advancement of Mathematics Teaching, San Antonio, TX.
- 7 **Jones, D.** (2011 October). A History of Statistics in the School Mathematics Curriculum. National Council of Teachers of Mathematics Regional Conference, St. Louis, MO.
- 8 Swarthout, M., & **Jones, D.** (2011 July). Popsicle Sticks, Ping Pong Balls, and Pennies: Tasks and Instruction Designed for Place Value Understanding. Conference for the Advancement of Mathematics Teaching, Grapevine, TX.
- 9 **Jones, D.** (2010 July). Shopping at the Farmer's Market with Diophantus. Conference for the Advancement of Mathematics Teaching, San Antonio, TX.

- 10 **Jones, D.** (2010 July). My Role in Preparing Teachers to Teach Mathematics with Technology. Conference for the Advancement of Mathematics Teaching, San Antonio, TX.
- 11 **Jones, D.** (2009 July). Beyond 'Because I Said So': Better Reasons Against Dividing By Zero. Conference for the Advancement of Mathematics Teaching, Houston, TX.
- 12 **Jones, D.** (2009 July). Cylindrical Dice: Understanding Probability Through Activities. Conference for the Advancement of Mathematics Teaching, Houston, TX.
- 13 **Jones, D.** (2008 October). Connecting Circles and Ratios with TI-Nspire. Teachers Teaching with Technology (T³) Regional Conference, Waco, TX.
- 14 **Jones, D.** (2007 November). Using Spreadsheets to Generate Fractal-Like Images. National Council of Teachers of Mathematics Regional Conference, Houston, TX.
- 15 **Jones, D.** (2007 October). Textbook Examples of Great Probability Tasks. National Council of Teachers of Mathematics Regional Conference, Kansas City, MO.
- 16 **Jones, D.** (2007 June). Representing (and Misrepresenting) Data Graphically Using Spreadsheets. Conference for the Advancement of Mathematics Teaching, San Antonio, TX.
- 17 **Jones, D.** (2007 February). Components and Structure of Probability Lessons in Mathematics Textbooks. Southwest Educational Research Association 2007 Annual Meeting, San Antonio, TX.
- 18 **Jones, D.** (2006 October). An Analysis of Volumetrically Correct Cups. Texas Undergraduate Mathematics Conference, Huntsville, TX.
- 19 **Jones, D.** (2005 December). Probability in Middle Grades Textbooks Over the Decades. Missouri Council of Teachers of Mathematics Annual Conference, Columbia, MO.
- 20 **Jones, D.** (2005 December). Equiprobability (Mis)conceptions: Are All Outcomes Equally Likely? Missouri Council of Teachers of Mathematics Annual Conference, Columbia, MO.
- 21 Arbaugh, F. & **Jones, D.** (2003 December). Rewriting Test Questions: Strategies for Making Math Tests More Meaningful. Missouri Council of Teachers of Mathematics Annual Conference, Columbia, MO.
- 22 **Jones, D.** (2003 February). This Session Has No Title, and Other Lies. Interface 2003, Osage Beach, MO.

- 23 **Jones, D.** (2002 December). Livin' la Vida Loci! Missouri Council of Teachers of Mathematics Annual Conference, Columbia, MO.
- 24 **Jones, D.** (2002 December). This Session Has No Title, and Other Lies. Missouri Council of Teachers of Mathematics Annual Conference, Columbia, MO.
- 25 **Jones, D.** (2002 December). Livin' la Vida Loci! Kansas Association of Teachers of Mathematics Annual Conference, Pittsburg, KS.

Invited Presentations/Workshops

- 1 **Jones, D.** (2017 June). God > {My Problems}. Math Contest Camp, Bolivar, MO
- 2 **Jones, D.** (2015 October). Promoting Active Membership. Annual Affiliate Webinar, Association of Mathematics Teacher Educators. Online.
- 3 **Jones, D.** (2015 July). Problem Solving: Faith, Life, and Math. Math Contest Camp, Bolivar, MO.
- 4 **Jones, D.**, Smith, K., Smith, K. H., & Cook, T. (2014 October). Panel on Undergraduate Research. Mathematics Education Research in Texas Conference, Huntsville, TX.
- 5 **Jones, D.** (2014 June). Putting Essential Understandings of Multiplication and Division into Practice. ESC Region VI, Huntsville, TX.
- 6 **Jones, D.** (2012 February). Research on NCTM Principles and Standards: Classroom and Large Scale Assessment. ESC Region VI Texas Regional Collaborative for Excellence in Mathematics Teaching, Huntsville, TX.
- 7 **Jones, D.** (2011 July). Problem Solving, Mathematics, Faith, and My Life. Math Contest Camp, Bolivar, MO.
- 8 **Jones, D.** (2011 February). PRIME Leadership Framework – Curriculum. ESC Region VI Texas Regional Collaborative for Excellence in Mathematics Teaching, Huntsville, TX.
- 9 **Jones, D.** (2010 January). Research on NCTM Principles and Standards: Classroom and Large Scale Assessment. ESC Region VI Texas Regional Collaborative for Excellence in Mathematics Teaching, Huntsville, TX.
- 10 **Jones, D.** (2009 October). Math TEKS Connections K-2, Day 1: Children's thinking and Place Value. Corrigan-Camden ISD, Corrigan, TX.
- 11 Swarthout, M., & **Jones, D.** (2009 August). Mathematics TEKS Refinement, K-5. Measurement. Turner Elementary School, Willis ISD, Willis, TX.

- 12 **Jones, D.** (2009 April). Revealing Conceptions of Chance with Cylindrical Dice. Texas State University Mathematics Education Seminar Series, San Marcos, TX.
- 13 **Jones, D.** (2008 November). Summary of *No Common Denominator*. Mathematics Education Research in Texas (MERiT) Conference, Huntsville, TX.
- 14 **Jones, D.** (2005 March). Analyzing the Probability Content of Middle Grades Mathematics Textbooks. Seminar on Probability in Mathematics Education, University of Missouri, Columbia, MO.

Departmental Colloquia & Seminars

- 1 **Jones, D.** (2014 April). Analyzing the Statistical Content of Textbooks: SAMREU Preview. Friday Afternoon Club, SHSU Department of Mathematics & Statistics.
- 2 **Jones, D.** (2013 October). Statistics for Elementary Teachers: What's in the Book? SHSU Department of Mathematics & Statistics Colloquium.
- 3 **Jones, D.** (2011 March). Volumetrically Indexed Cups: From Preschool to Differential Calculus. Friday Afternoon Club, SHSU Department of Mathematics & Statistics.
- 4 **Jones, D.** (2010 December). Let's Talk About Sexagesimals. Friday Afternoon Club, SHSU Department of Mathematics & Statistics.
- 5 **Jones, D.** (2010 October). A History of Statistics in the K-12 Curriculum. SHSU Department of Mathematics & Statistics Colloquium.
- 6 Huber, J., & **Jones, D.** (2007 November). SMART Board Technology and Mathematics. SHSU Department of Mathematics & Statistics Colloquium.
- 7 Swarthout, M., & **Jones, D.** (2007 November). The Evolution of a Rubric. SHSU Department of Mathematics & Statistics Colloquium.
- 8 **Jones, D.** (2007 February). Probability in Middle Grades Textbooks over the Decades. SHSU Department of Mathematics & Statistics Colloquium.
- 9 **Jones, D.** (2005 October). Probability in Mathematics Textbooks for Students in Grades 6-8. CMSU Department of Mathematics & Computer Science Seminar.
- 10 Arbaugh, F., Sanders, T. & **Jones, D.** (2003 May). Mucking Around in Teacher Survey Data: What Can We Learn? MU Science and Mathematics Education Research Colloquium.

Grant Activity:

Funded projects – PI or Co-PI

Director. Math Academy at Sam Houston (MASH). \$179,974 requested from the Teacher Quality Grants Program of the Texas Higher Education Coordinating Board. Award #1617-551. Award: \$252,000. (February 2016-February 2018)

Co-Director. Teaching Algebra the TEKS Way. Director: Max Coleman. Award: \$86,952 from the Texas Teacher Quality Grants Program. (Summers 2007, 2008, 2010, 2011)

Principal Investigator. Faculty Senate Professional Development Assistance Grant. I was awarded \$558.50 through an internal grant at Central Missouri State University for the purchase of school mathematics textbooks, grades K-12. I analyzed the mathematical content of these textbooks. (Fall 2005-Fall 2006)

Funded projects – Other roles

Content and Research Consultant. Enhancing Statistics Teacher Education with E-Modules (ESTEEM). PI: Hollylynne Lee, North Carolina State University. Co-PIs: William Finzer, Stephanie Casey, and Rick Hudson. \$1,999,190 requested from the National Science Foundation. Award #1625713. Award: \$1,500,000. (Fall 2016-Summer 2021)

Research Team Leader. Sam Houston State Research Experiences for Undergraduates in Mathematics (SAMREU). PI: Scott Chapman, Sam Houston State University. Co-PI: Ken Smith. Award: \$388,001 from the National Science Foundation. I led a team of five undergraduates in a research project in mathematics education. (2014).

Test Development Committee Member. LOCUS: Levels of Conceptual Understanding in Statistics. PI: Tim Jacobbe, University of Florida. Co-PIs: Robert delMas; Bradley Hartlaub; Jeff Haberstroh. Award: \$424,404 from the National Science Foundation. I worked with a team to develop assessments for GAISE level B and C. (2012).

Faculty Partner. Preparing to Teach Mathematics with Technology. PI: Karen Hollebrands, North Carolina State University. Co-PI: Hollylynne Lee. Award: \$500,416 from the National Science Foundation. I assisted in piloting materials and conducting research on their use and effectiveness. (Summer 2009-Summer 2011).

Consultant. ESC VI Texas Regional Collaborative for Excellence in Mathematics Teaching. Director: Susan Bohan. Awards: \$169,000 (2007-2008) and \$140,000 (2008-2009) from The University of Texas at Austin, the Texas Education Agency, and the U.S. Department of Education. (Fall 2007-Summer 2012, Fall 2013-Spring 2015)

Evaluator. Missouri Elementary Mathematics Leadership Project. PI: Terry Goodman, Central Missouri State University. Co-PI: Larry Campbell. Award: \$2.4 million from U.S. Department of Education through Missouri Department of Elementary and Secondary Education. (Fall 2005-Spring 2006)

Show-Me Doctoral Fellow. Show-Me Project. Director: Barbara Reys, University of Missouri. Award: \$11,080,748 from the National Science Foundation. (2001-2004)

Proposals that were submitted but not funded

Faculty Research Grant. Elementary Teachers' Opportunities to Learn Statistics via Textbooks. Applied for 2013 Faculty Research Grant. \$5000 requested from SHSU Internal Grant Program. Not funded.

Travel Grant. Applied for travel grant to attend the Twelfth International Congress on Mathematics Education in Seoul, Korea. \$2,500 requested from the National Science Foundation. Not funded.

Enhancement Grant for Research. Textbook Use in Mathematics Courses for Elementary Teachers. Applied for 2008 SHSU Enhancement Grant for Research. \$17,969 requested from SHSU Internal Grant Program. Not funded.

Other Scholarly Activity:

Acknowledged as a consultant in the following publications:

Reys, R. (Spring-Summer 2013). Promoting leadership in doctoral programs in mathematics education. *Journal of Mathematics Education at Teachers College*, 4, 15-18.

Reys, R.E., Cox, D., Dingman, S., & Newton, J. (2009). Transitioning to careers in higher education: Reflections from recent PhDs in mathematics education. *Notices of the AMS*, 56(9), 1098-1103.

Hogue, A., Henderson, C. E., Dauber, S., Chinchilla, P., Fried, A., & Liddle, H. A. (2008). Treatment adherence, competence, and outcome in individual and family therapy for adolescent behavior problems. *Journal of Consulting and Clinical Psychology*, 76(4), 544-555.

Wrote the following tasks that were published online as a part of the Illustrative Mathematics Project. These were accepted after blind peer-review.

Jones, D. (2012). Buttons: Statistical questions. *Illustrative Mathematics Project*.
<http://www.illustrativemathematics.org/illustrations/1040>

Jones, D. (2012). Tossing cylinders. *Illustrative Mathematics Project*.
<http://www.illustrativemathematics.org/illustrations/1047>

SERVICE

Organizations:

Association of Mathematics Teacher Educators (AMTE)

Celebrations Task Force Member, 2015-2016

Conference Program Committee

Chair, 2014-2015

Co-Chair, 2013-2014, 2015-2016

Member, 2012-2016

Technology and Mathematics Teacher Education Committee

Member, 2011-2013

Association of Mathematics Teacher Educators in Texas (Affiliate of AMTE)

President, 2014-2016

President-Elect, 2013-2014

Board Member At Large, 2010-2013

Co-editor of newsletter (2013-2014)

Co-authored proposal for funds to support a 2013 Conference for AMTE-TX. \$1200 awarded by the Texas Council of Teachers of Mathematics.

Chair, 2013 Conference Program Committee

National Council of Teachers of Mathematics (NCTM)

2017 Annual Program Committee Member, 2015-2017

Service to the University:

Faculty Advisor, Baptist Student Ministry of SHSU, 2016-present

Bearkat Camp, Faculty Q&A with incoming students, 2010, 2011, 2017

Career Services Advisory Board, 2014-2015

Mentor to Wendy Fernandez through the SHSU Mentoring Program, 2013-2014

Social Media Committee, 2013-2014

Service to the College:

College of Education Assessment Committee, 2015-2016

College of Arts & Sciences Special Graduate Scholarship Award Committee, Spring 2012

Service to the Department:

Graduate Advisor, M.A. Program in Mathematics, Fall 2009-Summer 2012

Mathematics Education Research Group, Facilitator, Fall 2009-Spring 2011

Committees

Merit Committee, Chair, 2014

Distance Learning Committee, 2009

Textbook Selection Committee for MTH 386, 2009

Developmental Mathematics Textbook Selection Committee, Chair, 2008

Mathematics Education Committee, 2006-present

Presentations:

Jones, D. (2015 January). Learning What Your Students Know About Fractions. Region 4 Math Conference, Houston, TX.

Jones, D. (2010 February). Diophantus Goes to the Farmer's Market. Conference on the Teaching of Mathematics 6-12, Huntsville, TX.

Jones, D. (2008 February). Using Spreadsheets to Generate Fractal-Like Images. Conference on the Teaching of Mathematics 6-12, Huntsville, TX.

Jones, D. (2007 February). Choosing Probability Activities with Replacement. Conference on the Teaching of Mathematics 6-12, Huntsville, TX.

Arbaugh, F., Barker, D., Chen, J.-C., Hundley, M., **Jones, D.**, Sanders, T., Townsend, B., Weingarth, D., & Wu, Z. (2002 October). Roller Derby. GEAR-UP Missouri PEAK Institute Training, Lake Ozark, MO.

Arbaugh, F. & **Jones, D.** (2002 August). Closing the Gap: Choosing a Mathematics Curriculum. Middle School Mathematics Teacher Inservice, Webster Groves, MO.

Arbaugh, F., Alajmi, A., Barker, D., Chávez, Ó., Helmreich, M., **Jones, D.**, Rogers, K., Sanders, T., Stevens, B., Townsend, B., Weingarth, D., & Wu, Z. (2001 October). Fun with Factors! GEAR-UP Missouri PEAK Institute Training, Lake Ozark, MO.

Other Service Activities:

Editorial Board Member for the International Journal of Educational Research, published by Elsevier.

Leader for SHSU Mathematical Scholars Circle. I led sessions for a 5th grade students in October 2014; and for 6th grade students in September, October, and November 2015 and in January, February, March, and April 2016.

Editorial Advisory Board Member for the forthcoming Handbook of Research on Transforming Mathematics Teaching in the Digital Age. This book is edited by Dr. Margaret Niess, Dr. Shannon Driskell, and Dr. Karen Hollebrands, and will be published by IGI Global.

Elementary Classroom Volunteer. Observed and facilitated classrooms during mathematics instruction in the following classes.

- Mrs. King (Grade 1), Stewart Elementary, Huntsville, TX (2014-2015)
- Ms. Conway (Grade 3), Stewart Elementary, Huntsville, TX (2014-2015)
- Mrs. Webb (Grade 2), Stewart Elementary, Huntsville, TX (2013-2014)
- Mrs. Henley (Grade 4), Stewart Elementary, Huntsville, TX (2013-2014)
- Mrs. Beckett (Grades 1 & 3), Littlewood Elementary, Gainesville, FL (Spring 2013)

Recognized in local newspaper article:

Conway, P. (2015, April 8). Operation walkway helps students learn skills. *The Huntsville Item*, p. 3A.

Review Panelist. Served as a panelist for the National Science Foundation by reviewing proposals related to mathematics education. March 2012.

Local Arrangements Committee, Technology Chair. Gathered resources and organized volunteers related to the set-up and use of LCD projectors and audio speakers at the Association of Mathematics Teacher Educators Conference in Fort Worth, Texas. February 2012.

Conference Coordinator. Led efforts to plan, organize, and conduct the Mathematics Education Research in Texas (MERiT) conference. This event was a gathering of faculty of similar institutions around the state, focused on developing collaboration and mentoring opportunities. January 2008, November 2008.

Faculty Sponsor. Initiated the efforts to encourage undergraduate prospective teachers to attend the 2007 National Council of Teachers of Mathematics Regional Conference in Houston. Helped students become informed about and register for the conference. Fall 2007.

Reviewer. Reviewed manuscripts for the following journals:

- *Contemporary Issues in Technology and Teacher Education – Math*
- *International Journal of Educational Research*
- *International Journal for the History of Mathematics Education*
- *International Journal of Mathematical Education in Science and Technology*
- *Journal of Statistics Education*
- *Mathematical Thinking and Learning*
- *Mathematics Teacher*
- *Mathematics Teacher Educator*
- *Mathematics Teaching in the Middle School*
- *Missouri Journal of Mathematical Sciences*
- *North American GeoGebra Journal*
- *National Council of Supervisors of Mathematics Journal of Mathematics Education Leadership*
- *School Science and Mathematics*
- *Statistics Education Research Journal*
- *Texas College Mathematics Journal*

Reviewer. I served as a blind reviewer for a chapter submitted to the National Council of Teachers of Mathematics book series *Mathematics for All: Strategies for Differentiating Instruction*. Summer 2007.

Reviewer. Reviewed a pre-publication copy of: Usiskin, Z., Griffin, J., & Witonsky, D. *The Classification of Quadrilaterals: A Study in Definition*. The Center for the Study of Mathematics Curriculum and the University of Chicago School Mathematics Project. September 2004.

Volunteer. I worked with the Local Arrangements Committee during one morning of the 2011 National Council of Teachers of Mathematics Annual Meeting and Exposition, and also helped the Association of Mathematics Teacher Educators by working two hours in their booth in the Exhibition hall at the same meeting.

Coordinator, Annual Math Fair for Kids. University of Missouri. I organized an event for 150 fifth-graders with over 25 booths of mathematical activities staffed by faculty, undergraduate, and graduate students. In the previous year I staffed a booth. March 2003.

AWARDS AND HONORS

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|---------|---|
| 2016 | Outstanding Faculty Service Award, Baptist Student Ministry of Sam Houston State University |
| 2009-15 | Recognized for contributing to the success of the following SHSU graduates by Frank Parker, SHSU Vice President for Student Services |
| | 2015 Ms. Lindsay Hixon |
| | 2011 Ms. Michelle Hernandez |
| | 2011 Ms. Rachael Maricle |
| | 2010 Ms. Kim Ashworth |
| | 2010 Ms. Amanda Barker |
| | 2009 Mr. Tony Matthews |
| 2012 | Recognized as an Anderson Scholar Faculty Honoree by the UF College of Liberal Arts and Sciences; each Anderson Scholar names one faculty member who has been particularly inspiring or influential. Named by Ms. Kate Logan and Ms. Janelle Lopez. |
| 2012 | Recognized for outstanding service as 2012 Local Arrangements Co-Chair by the Association of Mathematics Teacher Educators. |
| 2008 | Recognized for outstanding commitment to student success by the Texas Omicron Chapter of Alpha Chi, a national academic honor society |
| 2005 | Faculty Fellow, Information Technology and Instruction, Center for Teaching and Learning, Central Missouri State University. |

- 2001-2004 G. Ellsworth Huggins Doctoral Scholarship. University of Missouri.
- 2001-2004 Mathematics Education Enhancement Fellowship. University of Missouri.
- 2002-2003 Walter Scott Monroe Research Fellowship. University of Missouri.
- 2001-2002 Theo W. H. Irion Memorial Fund. University of Missouri.
- 2001 Outstanding Beginning Teacher. Missouri Association of Colleges of Teacher Education.
- 2000 New Teacher of the Year. Jasper High School, Plano, Texas.
- 1999 Outstanding Teaching Assistant. Texas A&M Mathematics Department.

PROFESSIONAL MEMBERSHIPS

American Mathematical Society
Association of Mathematics Teacher Educators
Association of Mathematics Teacher Educators – Texas Affiliate
Association of Texas Professional Educators
National Council of Teachers of Mathematics
Texas Council of Teachers of Mathematics