

Name: Dustin L. Jones
Mathematics and Statistics

Title: Associate Professor
College of Sciences

Degrees Earned

Ph.D. Curriculum & Instruction, University of Missouri, 2004

M.S. Mathematics, Texas A&M University, 1999

B.S. Mathematics, Southwest Baptist University, 1997

Professional Licensure and Certifications

Missouri Mathematics Teaching Certificate Grades 8-12

Texas Mathematics Teaching Certificate Grades 6-12

Peer-Reviewed Publications

Articles

Klespis, M., & Jones, D. (2011, Spring). Exploring irrational numbers with the TI-Nspire. *Ohio Journal of School Mathematics*, 63, 17-21.

Jones, D. L. (2011). Exploring volumetrically indexed cups. *International Journal of Mathematical Education in Science and Technology*, 42(2), 272-275.

Jones, D. L. (2010). Triangle. *College Mathematics Journal*, 41(5), 392.

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.

Jones, D. L. (2009). Random devices utilized in mathematics textbooks. *Journal of Mathematical Sciences and Mathematics Education*, 4(2), 32-42.

Jones, D. L. (2009). Examining cylindrical dice. *Mathematics Teacher*, 102, 420-424.

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.

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.

Jones, D. L. (2007). Components of probability lessons in textbooks. *Academic Exchange Quarterly*, 11(2), 112-116.

Jones, D. L. (2007). A collection of loci using two fixed points. *Missouri Journal of Mathematical Sciences*, 19(2), 141-150.

Jones, D. (2007). Probability tasks in textbooks: Not all are created alike. *Texas Mathematics Teacher*, 54(1), 6-10.

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.

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.

Jones, D., & Arbaugh, F. (2004) What do students know about time? *Mathematics Teaching in the Middle School*, 10, 82-84.

Jones, D. L. & Coleman, M. (accepted). Tapering timbers: Conical frusta volume formulas. *Mathematics Teacher*.

Jones, D. L. (accepted). The birthday problem, empirically. *Mathematics Teacher*.

Book Chapters

- 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.
- 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.

Proceedings

- 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.
- 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.

Peer-Review Presentations/Posters

National Level

- 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.
- Lee, H., Driskell, S., Harper, S., Jones, D., & Kersaint, G. (2011 April). Creating a Framework to Examine Mathematics Teachers' Exploratory Data Analysis. Research Pre-session of the National Council of Teacher of Mathematics Annual Meeting and Exposition, Indianapolis, IN.
- 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.
- Jones, D., Cory, B., & Swarthout, M. (2009 February). Strengthening Probability Understanding with Cylindrical Dice. Association of Mathematics Teacher Educators Annual Conference, Orlando, FL.
- Jones, D. L. (2008 April). Preservice Teachers' Conceptions of Fair Cylindrical Dice. Research Pre-session of the National Council of Teacher of Mathematics Annual Conference, Salt Lake City, UT.
- 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.
- 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.

- Jones, D. (2006 April). Probability in Mathematics Textbooks, 1957-2004. Research Pre-session of the National Council of Teachers of Mathematics Annual Meeting and Exposition, St. Louis, MO.
- 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.
- 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.
- 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.
- 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

- 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.
- Jones, D. (2010 July). Shopping at the Farmer's Market with Diophantus. Conference for the Advancement of Mathematics Teaching, San Antonio, TX.
- Jones, D. (2010 July). My Role in Preparing Teachers to Teach Mathematics with Technology. Conference for the Advancement of Mathematics Teaching, San Antonio, TX.
- Jones, D. (2009 July). Beyond 'Because I Said So': Better Reasons Against Dividing By Zero. Conference for the Advancement of Mathematics Teaching, Houston, TX.
- Jones, D. (2009 July). Cylindrical Dice: Understanding Probability Through Activities. Conference for the Advancement of Mathematics Teaching, Houston, TX.
- Jones, D. (2008 October). Connecting Circles and Ratios with TI-Nspire. Teachers Teaching with Technology (T3) Regional Conference, Waco, TX.
- Jones, D. (2007 November). Using Spreadsheets to Generate Fractal-Like Images. National Council of Teachers of Mathematics Regional Conference, Houston, TX.
- Jones, D. (2007 October). Textbook Examples of Great Probability Tasks. National Council of Teachers of Mathematics Regional Conference, Kansas City, MO.
- Jones, D. (2007 June). Representing (and Misrepresenting) Data Graphically Using Spreadsheets. Conference for the Advancement of Mathematics Teaching, San Antonio, TX.
- Jones, D. (2007 February). Components and Structure of Probability Lessons in Mathematics Textbooks. Southwest Educational Research Association 2007 Annual Meeting, San Antonio, TX.
- Jones, D. (2006 October). An Analysis of Volumetrically Correct Cups. Texas Undergraduate Mathematics Conference, Huntsville, TX.
- Jones, D. (2005 December). Probability in Middle Grades Textbooks Over the Decades. Missouri Council of Teachers of Mathematics Annual Conference, Columbia, MO.
- Jones, D. (2005 December). Equiprobability (Mis)conceptions: Are All Outcomes Equally Likely? Missouri Council of Teachers of Mathematics Annual Conference, Columbia, MO.
- 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.

- Jones, D. (2003 February). This Session Has No Title, and Other Lies. Interface 2003, Osage Beach, MO.
- Jones, D. (2002 December). Livin' la Vida Loci! Missouri Council of Teachers of Mathematics Annual Conference, Columbia, MO.
- Jones, D. (2002 December). This Session Has No Title, and Other Lies. Missouri Council of Teachers of Mathematics Annual Conference, Columbia, MO.
- Jones, D. (2002 December). Livin' la Vida Loci! Kansas Association of Teachers of Mathematics Annual Conference, Pittsburg, KS.

Work or Professional Experiences

Sam Houston State University, Associate Professor of Mathematics (2011-present), Assistant Professor (2006-2011)

Central Missouri State University, Assistant Professor of Mathematics (2005-2006)

University of Missouri, Graduate Research Assistant (2001-2004)

High School Mathematics Teacher

Christian Fellowship School, Columbia, Missouri (2003-2004)

Sun Ray Chinese School, Richardson, Texas (Summer 2001)

Jasper High School, Plano, Texas (1999-2001)

Honors and Awards

- 2010 Recognized for contributing to the success of SHSU graduates Amanda Barker and Kim Ashworth by Frank Parker, SHSU Vice President for Student Services
- 2009 Recognized for contributing to the success of SHSU graduate Tony Matthews by Frank Parker, SHSU Vice President for Student Services
- 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.