Jennifer Julia Kaplan
CURRICULUM VITAE

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Department of Statistics
250 Statistics Building
101 Cedar Street
University of Georgia, Athens, GA 30602-7952

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http://www.stat.uga.edu/

RESEARCH INTERESTS
Undergraduate statistics education, adult statistical literacy, quantitative reasoning.

TEACHING INTERESTS
Undergraduate: Introductory statistics, Statistics and mathematics content courses for pre-service teachers, Mathematical statistics and probability, Applied statistics
Graduate: Statistics and mathematics education research and pedagogy courses; Applied statistics

EDUCATION
The University of Texas at Austin
Ph.D. Mathematics, with focus in statistics education, May 2006
Dissertation Advisor: Philip Uri Treisman
Dissertation Title: Cognitive Dispositions that Affect Undergraduate Students' Mastery of Statistical Hypothesis Testing.
*M.A. Mathematics***,** with focus in statistics, May 2001
Master's Advisor: Peter W. M. John
Report Title: Regression and Cluster Analysis of Demographic Data: A Study of Clustering Techniques Used in Creating Campus Comparison Groups
Brandeis University
B.A. Mathematics, Cum Laude, May 1989

UNIVERSITY APPOINTMENTS
August 2011 – present: Assistant Professor, University of Georgia, Department of Statistics
August 2006 – August 2011: Assistant Professor, Michigan State University, Department of Statistics and Probability and Division of Science and Mathematics Education
Jan 2006 – May 2006: Graduate Research Assistant, The Charles A. Dana Center of the University of Texas at Austin
August 2003 – December 2005: Assistant Instructor, The University of Texas at Austin, Department of Mathematics
August 2002 – August 2003: Graduate Research Assistant, The Charles A. Dana Center of the University of Texas at Austin
August 2000 – August 2002: Assistant Instructor, The University of Texas at Austin, Department of Mathematics
August 1999 – August 2000: Teaching Assistant, The University of Texas at Austin, Department of Mathematics

PUBLICATIONS

PEER REVIEWED JOURNAL ARTICLES

Kaplan, J.J., Haudek, K.C., Ha, M., Rogness, N. & Fisher, D. (2014). Using lexical analysis software to assess student writing in statistics. *Technology Innovations in Statistics Education, 8*(1). http://www.escholarship.org/uc/item/57r90703

Urban-Lurain, M., Cooper, M. M., Haudek, K. C., **Kaplan, J. J.**, Knight, J. K., Lemons, P. P., Lira, C. T., Merrill, J. E., Nehm, R., Prevost, L. B., Smith, M. K., Sydlik, M. (accepted, 2014). Expanding a national network for automated analysis of constructed response assessments to reveal student thinking in STEM. *Computers in Education Journal.*

Kaplan, J.J., Gabrosek, J.G., Curtiss, P. & Malone, C. (2014). Investigating student understanding of histograms. *Journal of Statistics Education*, *22*(2). http://www.amstat.org/publications/jse/v22n2/kaplan.pdf

Kaplan, J.J., Rogness, N., & Fisher, D. (2014). Exploiting Lexical Ambiguity to Help Students Understand the Meaning of *Random*. *Statistics Education Research Journal, 13*(1), 9 – 24. http://iase-web.org/documents/SERJ/SERJ13%281%29_Kaplan.pdf

Smith, M., Annis, S. L., **Kaplan, J. J.** & Drummond, F. (2012). Using Peer Discussion Facilitated by Clicker Questions in an Informal Education Setting: Enhancing Farmer Learning of Science. *PLoS ONE,* 7(10). http://www.ncbi.nlm.nih.gov/pubmed/23077638

Kaplan, J.J. & Otten, S. (2012) Optimization: Old dogs and new tasks. *Mathematics Teacher*, 105 (9), 686 – 691.

Kaplan, J.J., Rogness, N. & Fisher, D. (2012). Lexical ambiguity: Making a case against *spread*. *Teaching Statistics*, 34(2), 56 – 60. DOI: 10.1111/j.1467-9639.2011.00477.x

Kaplan, J.J. (2011). Innovative Activities: How Clickers can Facilitate the Use of Simulations in Large Lecture Classes. *Technology Innovations in Statistics Education,* 5. http://escholarship.org/uc/item/1jg0274b

Sikorskii, A., Melfi, V., Gilliland, D., **Kaplan, J.** & Ahn, S. (2011) Quantitative Literacy at Michigan State University, 1: Development and Initial Evaluation of the Assessment**.** *Numeracy*, 4 (2). Available Online: http://services.bepress.com/numeracy/vol4/iss2/art5/

Haudek, K.C., **Kaplan, J.J.**, Knight, J., Long, T., Merrill, J., Munn, A., Nehm, R., Smith, M. Urban-Lurain, M. (2011) Harnessing Technology to Improve Formative Assessment of Student Conceptions in STEM: Forging a National Network. *CBE – Life Sciences Education*, 10 (2), pp. 149 – 155. http://www.lifescied.org/cgi/reprint/10/2/149

Kaplan, J.J., Fisher, D. & Rogness, N. (2010). Lexical Ambiguity in Statistics: How students use and define the words: association, average, confidence, random and spread. *Journal of Statistics Education, 18(2),* http://www.amstat.org/publications/jse/v18n2/kaplan.pdf

Kaplan, J.J. & Du, J. (2009). Question Format and Representations: Do Heuristics and Biases Apply to Statistics Students? *Statistics Education Research Journal, 8 (2),* 56 – 73. http://www.stat.auckland.ac.nz/serj

Kaplan, J.J., Fisher, D. & Rogness, N. (2009). Lexical Ambiguity in Statistics: What do students know about the words: association, average, confidence, random and spread? *Journal of Statistics Education, 17 (3).* http://www.amstat.org/publications/jse/v17n3/kaplan.html

Kaplan, J. J. (2009). Effect of Belief Bias on Undergraduate Students' Reasoning about Inference. *Journal of Statistics Education, 17, (1).* Available online: http://www.amstat.org/publications/jse/v17n1/kaplan.html

Casey, S.A. & **Kaplan, J.J.** (in review, 2014). Statistical knowledge for teaching: The case of bivariate data analysis. *Mathematics Teaching and Learning.*

Jansen, G.G., **Kaplan, J.J.**, & Jennings, J.K. (in review, 2014). Applying measurement theory to assessment in statistics: Validity. *Journal of Statistics Education*.

Jennings, J.K, **Kaplan, J.J.**, & Jansen, G.G. (in review, 2014). Applying measurement theory to assessment in statistics: Reliability. *Journal of Statistics Education*.

Moore, A.A. & **Kaplan, J.J.** (submitted, 2014). Program assessment for an undergraduate statistics major. *The American Statistician.*

Kaplan, J.J. & Casey, S.A. (in progress). Considering the marriage of mathematics and statistics in the classroom: The case of bivariate data. *Journal of Research in Mathematics Education.*

Woodard, R. & **Kaplan, J.J.** (in progress). Creating a classic manipulative to illustrate sampling variability. *Journal of Statistics Education*.

CONFERENCE PROCEEDINGS

(Peer-Reviewed) Urban-Lurain, M., Cooper, M. M., Haudek, K. C., **Kaplan, J. J.**, Knight, J. K., Lemons, P. P., Lira, C. T., Merrill, J. E., Nehm, R., Prevost, L. B., Smith, M. K., Sydlik, M. (2014). Expanding a national network for automated analysis of constructed response assessments to reveal student thinking in STEM. *Proceedings of the Annual Conference of the American Society for Engineering Education*, Indianapolis, IN, June 15-18.

Kaplan, J.J. (2014). Clickers, Simulations, and Conceptual Understanding of Statistical Inference. *Proceedings of the Ninth International Conference on Teaching Statistics (ICOTS-9*). IASE, Flagstaff, AZ, USA.

Gould, R. & **Kaplan, J.** (2013). Preface to the special edition. *Technology Innovations in Statistics Education, 7*(2). http://www.escholarship.org/uc/item/6tn9h4jm

Kaplan, J.J. & Melfi, V. (2013). New perspectives: A statistician and a statistics educator discuss lessons learned from cross disciplinary sojourns. *Proceedings from the 59th World Statistics Congress*. ISI, Hong Kong, China. http://www.statistics.gov.hk/wsc/IPS069-P1-S.pdf

(Peer-Reviewed) **Kaplan, J.J.** & Thorpe, J. (2010). Post secondary and adult statistical literacy: Assessing beyond the classroom. *Proceedings of the Eighth International Conference on Teaching Statistics (ICOTS-8*). IASE, Ljubljana, Slovenia. **Excellence Award for best refereed paper by an early career author at The 8th International Conference on Teaching Statistics: Highly Commended**

Kaplan, J.J., Cervello, K., & Corcoran, E. (2009). Lesson Study as a Tool for Professional Development: A Case of Undergraduate Calculus. *Proceedings of the 2009 Conference on Research in Undergraduate Mathematics Education.* Available online: http://mathed.asu.edu/crume2009/Kaplan_LONG.pdf

Otten, S., Park, J., Mosier, A. & **Kaplan, J.J.** (2009). Lesson Study as a Tool for Research: A Case of Undergraduate Calculus. *Proceedings of the 2009 Conference on Research in Undergraduate Mathematics Education.* Available online: http://mathed.asu.edu/crume2009/Otten_LONG.pdf

Johnson, Y.N. & **Kaplan, J.J.** (2008). The Assessment of Quantitative Literacy at a Large Public Institution. *Proceedings of the 2008 Conference on Research in Undergraduate Mathematics Education.* http://cresmet.asu.edu/crume2008/Proceedings/Proceedings.html

Kaplan, J.J. & Urban-Lurain, M. (2008). Personal Response Systems in Statistics: Using clickers to foster active learning and address student misconceptions. Proceedings of *the Inaugural Conference on Classroom Response Systems: Innovations and Best Practices.* http://iclicker.com/dnn/UserCommunity/ConferencePapers/tabid/171/Default.aspx

Hilton, S., **Kaplan, J.** Hooks, T., Harrell, L. Fisher, D. & Sorto, M. A. (2008) Collaborative projects in statistics education. In *JSM Proceedings*, Statistics Education Section. Alexandria, VA: American Statistical Association.

Kaplan, J.J. (2008) i>clicker Pedagogy Case Study. *Invited paper for the iclicker.com website.* Available online: http://iclicker.com/dnn/Portals/0/Kaplan_Case_Study.pdf

PRESENTATIONS

INVITED

Clickers, simulations, and conceptual understanding of statistical inference. *The 9th International Conference on Teaching Statistics (ICOTS-9).* Flagstaff, AZ, July, 2014.

A statistician and a statistics educator discuss the lessons learned from cross disciplinary sojourns. *59th World Statistics Congress*. Hong Kong, August 2013

Learning to teach and assess statistics at the tertiary level. Discussant. *59th World Statistics Congress*. Hong Kong, August 2013

K-12 Teacher Preparation in Statistics: It Is No Longer Optional but Essential. Breakout Session, *U.S. Conference on Teaching Statistics* (with Anna Bargagliotti, Christine A. Franklin, Tim Jacobbe, and Randall Groth). Cary, NC, May 2013.

Assessing Student Writing in Statistics. *Joint Statistical Meetings*. San Diego, CA, August 2012

Growing the Field of Statistics Education. P.M. Roundtable discussion leader. *Joint Statistical Meetings*, San Diego, CA, August 2012

Simulation Activities for Large Classes: Using Clickers to Collect Data. Webinar. *Consortium for the Advancement of Undergraduate Statistics Education (CAUSE)*. April 2012

Simulations, Clickers and Conceptual Understanding of Statistical Inference. *The Annual Conference of the Mathematical Association of America – Southeastern Section (MAA-SE)*. March 2012

How Clickers Can Facilitate the Use of Simulations in Large Lecture Classes. Webinar, *i>clicker, Macmillan New Ventures.* February 2012.

Helping Students Understand the Meaning of Random: Addressing Lexical Ambiguity. Webinar, *Consortium for the Advancement of Undergraduate Statistics Education (CAUSE*). (with Diane Fisher and Neal Rogness). August 2010.

Post secondary and adult statistical literacy: Assessing beyond the classroom. *The 8th International Conference on Teaching Statistics (ICOTS-8).* Ljubljana, Slovenia, July 2010

Letting Go of Assumptions About How Students Understand Statistical Language. Breakout Session, *United States Conference on Teaching Statistics (USCOTS) 2009*. (with Diane Fisher and Neal Rogness). Columbus, OH, June 2009.

Promoting active learning in introduction to statistics using personal response systems (clickers). Webinar, *Consortium for the Advancement of Undergraduate Statistics Education (CAUSE).* March 2009.

Lesson Study in Undergraduate Calculus: What Can We Learn About Teachers and Teaching from Lesson Study? *2009 Conference on Research in Undergraduate Mathematics Education.* (with Ed Corcoran and Kim Cervello). Raleigh, NC, February 2009

Lesson Study in Undergraduate Calculus: What Can We Learn about Mathematical and Classroom Discourse from Lesson Study? *2009 Conference on Research in Undergraduate Mathematics Education.* (with Sam Otten, Junguen Park and Aaron Mosier). Raleigh, NC, February 2009

Personal Response Systems in Statistics: Using clickers to foster active learning and address student understanding of statistical inference. *The Inaugural Conference on Classroom Response Systems: Innovations and Best Practices*. University of Louisville, Louiville, KY, November 2008

The Assessment of Quantitative Literacy at a Large Public Institution. *2008 Conference on Research in Undergraduate Mathematics Education.* (with Nicole Johnson). San Diego, CA, February 2008

Mathematics Curriculum Presentation to the Pittsburgh Board of Public Education, (with Philip Uri Treisman) Pittsburgh, PA, October 2002.

CONTRIBUTED

Everyone knows what a histogram is, or do they?: How non-statisticians read histograms, Topic Contributed Paper, *Joint Statistical Meetings*, Boston, MA, August 2014

Clickers in Statistics Classes: Connecting Research and Practice, Topic Contributed Panel, *Joint Statistical Meetings* (organizer and panelist) Miami Beach, FL, August 2011

Zebras vs. Hats: Exploiting the Lexical Ambiguity of the Word Random, Contributed Poster, *Joint Statistical Meetings*, Miami Beach, FL, August 2011

Challenges in Large Sections: GAISE-ing Toward Solutions, Contributed Panel, *Joint Statistical Meetings* (panelist), Vancouver, BC, August 2010.

Addressing the Lexical Ambiguity Associated with the Word Random in Introductory Statistics Classes, Contributed Talk, *Joint Statistical Meetings*, Vancouver, BC, August 2010.

What Do Students Hear When We Say 'Random'?: Empirical Results from a Study of Lexical Ambiguity. Contributed Paper, *2009 Joint Statistical Meetings*. Washington, DC, August 2009.

Collaborative Projects in Statistics Education Research. *2008 Joint Statistical Meetings.* (with Robert delMas, Sterling Hilton, Tisha Hooks, Leigh Harrell, Diane Fisher). Denver CO, August 2008

Advancing the assessment of quantitative and scientific reasoning: First-year results. *2008 International Assessment and Retention Conference.* (with Donna Sundre, Amy Thelk, Glenn Wehner, Emmet Ridley), Scottsdale, AZ, June 2008

COLLOQUIA AND SEMINARS

Lexical Ambiguity in Statistics: The Cases of Random and Spread. Colloquium,
- Department of Statistics, Iowa State University, March 2011.
- Department of Statistics, University of Georgia, February 2011.
- Department of Statistics and Probability, Michigan State University. October 2010.

Lexical Ambiguity in Statistics: How I learned to love random zebras, Colloquium, Department of Mathematics and Statistics, University of New Hampshire, February 2011.

Lesson Study in calculus: What we learned about teaching and learning. Seminar on Teaching Mathematics, Department of Mathematics, University of Michigan. December 2009.

What do students hear in statistics classes?: Results for a study of lexical ambiguity. Faculty Research Colloquium, College of Liberal Arts and Sciences, Grand Valley State University. (with Neal Rogness and Diane Fisher). October 2009.

What do students hear in statistics classes?: Results for a study of lexical ambiguity. Seminar Talk, Department of Statistics, Grand Valley State University. (with Neal Rogness and Diane Fisher). October 2009.

What do students hear when we say 'random' and 'association'?: Empirical results from a study of lexical ambiguity. Seminar Speaker: Center for Research in College Science Teaching and Learning (CRCSTL), Michigan State University. (with Neal Rogness and Diane Fisher). September 2009.

Clickers: Not just for assessment anymore. Seminar Speaker: "Explorations in Instructional Technology" Michigan State University, College of Natural Science, and Libraries, Computing, and Technology. February 2009.

Lesson Study in undergraduate calculus: What can we learn about teaching and learning from Lesson Study? Colloquium, Division of Science and Mathematics Education, Michigan State University. (with Ed Corcoran Kim Cervello, Sam Otten, Junguen Park and Aaron Mosier). January 2009.

The psychology of STT 200. Colloquium speaker. Department of Statistics and Probability, Michigan State University. November 2007

EXTERNAL FUNDING

UGA PI: Collaborative research: Expanding a National Network for Automated Analysis of Constructed Response Assessments to Reveal Student Thinking in STEM. National Science Foundation, DUE – 1322962. (September 15, 2013 – August 31, 2018, $502,755)

PI: Fostering Active Learning in Statistics: Research on Students and Graduate Teaching Assistants National Science Foundation Improving Undergraduate STEM Education (IUSE) competition Recommended for funding Jan 2015

CO-PI: The HILT-LAS Project: High Impact, Little Time Activities that address Lexical Ambiguity in Statistics. National Science Foundation Improving Undergraduate STEM Education (IUSE) competition. Submitted Oct 2014

AWARDS AND SCHOLARSHIPS

Excellence Award for best refereed paper by an early career author at The 8th International Conference on Teaching Statistics: Highly Commended
University of Texas at Austin, Department of Mathematics, Undergraduate Teaching Excellence Award
Commonwealth of Massachusetts, Paul Douglas Teaching Scholarship
General Electric Corporation, Teaching Scholarship

PROFESSIONAL AFFILIATIONS

American Statistical Association
International Association for Statistics Education
Mathematical Association of America
Association for Women in Mathematics

PH.D. STUDENTS

Oguz Koklu, Department of Mathematics and Science Education, UGA: Dissertation Advisor (2014 – present)
Alexander James Lyford, Department of Statistics, UGA: Dissertation Advisor (2013 – present)
R. Adam Molnar, Department of Mathematics and Science Education, UGA: Dissertation Advisor (2012 – present)
Oh Hoon Kwon, Department of Mathematics, MSU: Dissertation committee member (2009 – 2012)
Irini Papaiero, Division of Science and Mathematics Education, MSU: Dissertation committee member (2008 – 2012)
Marie Turini, Department of Teacher Education, MSU: Dissertation committee member (2007 – 2011)
Aaron Mosier, Division of Science and Mathematics Education, MSU: Guidance and practicum committee member (2007 – 2011)
Ed Corcoran, Division of Science and Mathematics Education, MSU: Guidance committee member (2008 – 2011)
Adrienne Hu, Division of Science and Mathematics Education, MSU: First year advisor (2010 – 2011)

M.S. STUDENTS

Beatrice Zhang, Department of Statistics, UGA: Thesis Advisor (2014 – present)
Jeremy Kyle Jennings, Department of Statistics, UGA: Thesis Advisor (2013 – 2014)
Allison Moore, Department of Statistics, UGA: Thesis Advisor (2103 – 2014)
Elizabeth Amick, Department of Statistics, UGA: Thesis Advisor (2012 – 2013)
Kristi Clark, Department of Statistics, UGA: Thesis Advisor (2012 – 2013)
Gregory Jensen, Department of Statistics, UGA: Thesis Advisor (2012 – 2013)

UNIVERSITY OF GEORGIA SERVICE

Department of Statistics, Mentoring Committee: Jack Morse, STAT 2000 coordinator, 2012 –
Department of Statistics, STAT 2000 Committee, 2012 – 2015
Department of Statistics, Data Analysis Qualifying Exam Committee, 2014 – 2015
Department of Statistics, Ad Hoc Committee on Graduate Issues, 2014 – 2015

Department of Statistics, Lecturer Search Committee, 2014
Department of Statistics, Graduate Program Committee, 2013 – 2014
Department of Statistics, Learning Outcomes Assessment Committee, 2013 – 2014
Department of Statistics, Undergraduate Program Committee, 2012 – 2013
Department of Statistics, Service Course Committee, 2011 – 2012
Department of Statistics, Academic Professional Search Committee, 2011 – 2012

MICHIGAN STATE UNIVERSITY SERVICE

Michigan State University, Faculty Advisory Committee to the ADVANCE grant, 2011
Division of Science and Mathematics Education Course and Curriculum Development Committee 2008 – 2011 (Chair: 2010 – 2011)
Statistics and Probability Service Course Committee, 2007–11
Statistics and Probability Katz Library Committee, 2007–08
Statistics and Probability Quantitative Literacy Search Committee, 2008
Secretary of the STT Advisory Committee, 2007–08
Division of Science and Mathematics Education Curriculum and Scheduling Committee, 2007
Division of Science and Mathematics Education SME 954 Course Development Committee, 2007
Division of Science and Mathematics Education Integrated Major in Mathematical Sciences Committee, 2007
Division of Science and Mathematics Education Supervisor for TAs of MTH 202 "Geometry content course for elementary education majors," Spring 2007
Statistics and Probability Teaching Specialist Search Committee, 2006–07
Quantitative Literacy Task Force, Committee Member, 2006–present

EXTERNAL PROFESSIONAL SERVICE

Publications Officer (elected position), Section on Statistical Education, American Statistical Association, 2014 – 2016.
Associate Editor, Statistics Education Research Journal, September 2014 – present
Associate Editor, Journal of Statistics Education, January 2010 – present
Invited Session Organizer, 9th International Conference on Teaching Statistics (ICOTS-9).
AP Statistics Test Development Committee, November 2010 – August 2015
External Evaluator: Collaborative Research: Project UPLIFT (Universal Portability of Learning Increased by Fun Teaching): NSF DUE S-STEM/TUES Type I Award 1140592, August 2012 – July 2014.
Associate Editor, Special Edition of Technology Innovations in Statistics Education (TISE) for papers presented at the International Association for Statistics Education (IASE) Roundtable on Technology.
Invited Session Organizer, Joint Statistical Meetings, American Statistical Association Section on Statistics Education, 2013
Panel Reviewer for the National Science Foundation (NSF)
AP Statistics Reader, Educational Testing Service, June 2008, 2009, 2011, 2012, 2013
Session Organizer, Annual Conference of the Mathematical Association of America – Southeastern Section, March 2012
Session Chair, Joint Statistical Meetings, American Statistical Association Section on Statistics Education, August 2009, 2010, 2011

Served as a referee for journals including:

The American Statistician (TAS)
Statistics Education Research Journal (SERJ).
http://www.stat.auckland.ac.nz/~iase/publications.php?show=serj
Journal of Statistics Education (JSE). http://www.amstat.org/publications/jse
Technology Innovations in Statistics Education (TISE):
http://repositories.cdlib.org/uclastat/cts/tise/
Journal for Research in Mathematics Education (JRME):
http://www.nctm.org/publications/jrme.aspx
Journal of Engineering Education (JEE): http://www.jee.org/
INFORMS Transactions on Education (ITE). http://ite.pubs.informs.org/index.php
CBE – Life Sciences Education. http://www.lifescied.org/

Served as a judge for national competitions including:

2008 and 2010 American Statistical Association (ASA) National K-12 Poster Competition
2009 American Statistical Association (ASA) Michigan K-12 Poster Competition
2007, 2009 and 2011 Undergraduate Statistics Project Competition (USPROC), National Competition for Undergraduates in Statistics, sponsored by the Consortium for the Advancement of Undergraduate Statistics Education (CAUSE)

COMMUNITY SERVICE

Community-Based Mentor, Big Brothers/Big Sisters, Lansing, MI, 2008 – 2011
Construction Volunteer, Habitat for Humanity, Austin, TX, 2000 – 2006

UNIVERSITY COURSES TAUGHT

UNIVERSITY OF GEORGIA, 2011 –

1. Introductory Statistics: undergraduate service course
2. Statistics for Teachers: second course in statistics for pre-service and in-service high school mathematics teachers (combined undergraduate and masters' level)
3. Graduate Assistant Teaching in Statistics: course to prepare graduate students in statistics for teaching and grading duties.

MICHIGAN STATE UNIVERSITY, 2006–2011

1. Design and Methods in Mathematics Education Research: graduate course for second year mathematics education Ph.D. students
2. Teaching College Mathematics: graduate course for mathematics education Ph.D. students
3. Statistical Methods: undergraduate service course
4. Data, Statistics and Probability for Pre-service K-8 teachers: undergraduate content course for elementary education majors
5. Special Problems for K – 8 Teachers: Data Analysis and Probability: masters level content course for in-service teachers

UNIVERSITY OF TEXAS AT AUSTIN, 1999–2005

1. Introductory Statistical Methods: undergraduate service course
2. Foundations of Arithmetic: undergraduate content course for elementary education majors
3. Foundations of Geometry, Probability and Statistics: undergraduate content for elementary education majors
4. Discussion Section for Second Semester Calculus for Engineers: undergraduate service course

INVOLVEMENT IN CONFERENCES, WORKSHOPS AND COLLABORATIONS

Advanced Placement (AP) Statistics Faculty Colloquium: Part of the team that organized and facilitated a 2-day workshop designed to increase 50 faculty participants' awareness of the AP Statistics Course & Exam and opportunities for post-secondary faculty involvement in the AP Program, elicit feedback from participants about course and exam alignment with colleges and universities and identify opportunities for collaboration between higher education and secondary schools, March 2013

Workshop on Graduate Programs in Statistics Education– Invited Participant to two day workshop on creating statistics education graduate programs. University of Minnesota, MN, September 2012.

IASE Roundtable Conference on *Technology in Statistics Education: Virtualities and Realities*. Invited Discussant. International Association for Statistics Education, Cebu City, The Philippines, July 2012.

Helping Statistics Students Develop Understanding and Communication about Statistical Inference: Morning Short Course for Advanced Placement (AP) statistics teachers and university instructors of introduction to statistics courses. Presentor. Annual Conference of the Mathematical Association of America – Southeastern Section (MAA-SE). March 9, 2012.

Best Uses of i>clicker in the Classroom: On-site training session for faculty at Florida International University. Part of i>clicker day sponsored by *i>clicker, MacMillan New Ventures*, Miami, FL. April, 2, 2102.

Research Retreat focused on developing a set of research priorities for undergraduate statistics education types of assessments and data needed to move these priorities forward – Invited Participant. Funded by the National Science Foundation (NSF) and held at the American Statistical Association (ASA). Alexandria, VA. June 2010

Examining Curriculum Interactions in Teacher Education (ExCITE) Conference – Co-organizer of four-day working conference and retreat designed to the continue the work begun but the NSF funded Center for the Study of Mathematics Curriculum (CSMC) by producing a suite of coordinated studies and grant proposals, which have as a basis curriculum in K – 20 mathematics education. East Lansing, MI. November 2008

Workshop on Developing Graduate Programs in Statistics Education and Supporting Statistics Education Research faculty – Invited Participant. Funded by a membership grant from the American Statistical Association (ASA). Alexandria, VA. October 2008

Realizing the Vision: Quantitative Literacy **–** Active member of the research group to assess quantitative literacy at Michigan State University. Funded by Michigan State University Quality Fund. Fall 2006 – Present

CAUSEmos Research Cluster – Active member of NSF funded national mentoring program designed to encourage new researchers in statistics education. Currently working with faculty members at Grand Valley State University and Louisiana Tech to study the effects of lexical ambiguity on student learning in non-calculus based introduction to statistics courses. Summer 2007 – Present

American Statistical Association LearnSTAT program – Co-leader of half-day workshop entitled: Teaching College-Level Statistics Using the GAISE Guidelines. Pre-session workshop for the Joint Mathematical Meetings, San Antonio, TX. January 2006

The Teaching Company – Collaborated with Dr. Michael Starbird on video lecture series (24 half hour lectures) entitled: Meaning from Data: Statistics Made Clear. January – October 2005
The ARTIST Round Table Conference on Assessment in Statistics Education – Lawrence University, Appleton, WI: Invited participant. August 2004

Conference on Statistical Reasoning, Thinking and Learning (SRTL-3) – University of Nebraska, Lincoln, NE: Invited Discussant. July 2003

Andean Association of International Baccalaureate Schools: Organized and led two-day bilingual workshop for math teachers on the implementation of the International Baccalaureate mathematical studies syllabus in Venezuelan schools. Caracas, VE. September 1998

HIGH SCHOOL TEACHING EXPERIENCE

COLEGIO INTERNACIONAL DE CARACAS, Caracas, Venezuela
K – 12 Mathematics Department Head June 1998 – June 1999
Mathematics Teacher - Grades 9 - 12 September 1994 – June 1998

Courses Taught:

- All levels of International Baccalaureate mathematics
- Piloted Integrated Math program - second year
- Pre-calculus - IB level & College Preparatory
- Algebra 2 – Honors level
- Geometry – Honors level
- Algebra 1 - College Preparatory

Other responsibilities:

- Chaired committee to rewrite and implement 7 – 12 mathematics curriculum
- Odyssey of the Mind Program Coordinator

ISTANBUL INTERNATIONAL COMMUNITY SCHOOL, Istanbul, Turkey
Mathematics Teacher - Grades 7 – 10 September 1992 – June 1994

Courses Taught:

- Modified ISAC Integrated Program Years One, Two and Three
- U.S. Pre-Algebra, Algebra One, Geometry

Other Responsibilities:

- Revised curriculum based on study of curricula available to international schools.
- Coached girl's basketball and MathCounts teams.

WESTON HIGH SCHOOL, Department of Mathematics, Weston, MA
Mathematics Teacher - Grades 8 – 12 September 1990 – June 1992

Courses Taught:

- Pre-calculus - Honors & College Preparatory
- Algebra 2 - College Prep & Modified
- Integrated Math Year Two - Modified
- Algebra One - College Preparatory & Modified

NEWTON NORTH HIGH SCHOOL, Department of Mathematics, Newton, MA:
Mathematics Teacher - Grades 10 – 12, Math Team Advisor Sep 1989 - June 1990

Courses Taught:

- Trigonometry - College Preparatory
- Integrated Math Year Two - Honors and College Preparatory
- BASIC Computer language – Honors