

## **Madhuri S. Mulekar Professor of Statistics**

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### **Oral and Poster Presentations**

#### Oral Presentations:

1. Estimating sampling distributions of statistical measures of similarity, Joint Statistical Meetings, Miami Beach, FL, August 2011.
2. Is Central Park Warming? South Alabama Conference on Teaching and Learning, Mobile, AL, May 2011.
3. Assessing and improving mesonet data for advanced coastal decision making, Bays and Bayous Symposium, Mobile, Dec. 2010.
4. Estimation of statistical measures of income similarity, MAA Florida Chapter Meeting, Pensacola FL, Nov. 2010.
5. 'Assessing practical usefulness of approximations to mean and variance of index of dissimilarity', University of Alabama, Feb. 2009.
6. 'Teaching statistics using meteorological data', MAA Florida Chapter Meeting, Pensacola, FL, Nov 2008.
7. 'Estimating bias in similarity measures for the Pareto populations', E.J. Dudewicz Honor Conference, Syracuse, NY, July 2008.
8. 'Issues involved in undergraduate research in statistics', International Conference on Interdisciplinary Mathematical and Statistical Techniques, Memphis, MS, May 2008.
9. 'How good is water in the Dog River Watershed?' Bays and Bayous Conference, Biloxi, 2008.
10. 'Is Central Park warming?', MAA Florida Chapter Meeting, Pensacola, FL, Nov 2007.
11. 'Preparing Teachers of Statistics in the United States', 56<sup>th</sup> Session of International Statistical Institute, Lisbon, Portugal, AUG 2007. Invited.
12. 'Is Central Park Warming?' Presented at Math in Action, Student Seminar Series, University of South Alabama, Mobile, AL, Sept 2006.
13. 'Graphs: Different faces of data', Joint Mathematical Meetings, New Orleans, Jan 2007.
14. 'Selecting a grade with most (or least) overlapping in assessment categories', Presented at the Bechhofer-Sobel-Gupta Symposium at the 12<sup>th</sup> International Conference on Statistics, Combinatorics, Mathematics, and Applications, Auburn, AL, December 2005.
15. 'Selection using Gini Coefficient', Presented at the Gini-Lorenz Conference, Sienna, Italy, 2005.
16. 'Evaluating knowledge through student oral reports', Presented at the 84<sup>th</sup> Annual meeting of the Mathematical Association of America, SE section, Raleigh, NC 2005.
17. 'On selecting a process with the smallest number of unfortunate events', 34<sup>th</sup> Annual Lloyd Roeling Mathematics Conference, Lafayette, LA, 2004.
18. 'Visualizing Central Limit Theorem', International Conference on Technology in Collegiate Mathematics', New Orleans, LA, 2004.
19. 'Visualizing Characteristics of Hurricanes', 13<sup>th</sup> Annual USA/USM Mini-Conference on Undergraduate Research in Science and Mathematics, Mobile, AL, March 2004.
20. 'Comparison of Standard versus modified expiratory techniques during spirometry, Odyssey, Mobile, AL, January 2004.

21. 'AP Statistics', Invited to present at Advanced Placement National Conference, Los Angeles, CA, July 2003.
22. 'Statistics of Hurricanes', Foley high school, Foley, AL, Dec. 2003.
23. 'As a statistician, what do I do?' Foley, Dec 2003.
24. 'Effects of n-acetylcysteine on the formation of dense cells and the quality of life for patients with sickle cell disease' The Joint Statistical Meetings, San Francisco, CA, Aug. 2003
25. 'AP Statistics compared to the introductory statistics course in colleges', Invited to present at Summer Research Conference in Statistics by Southern Regional Council on Statistics and the American Statistical Association, Natchez, MS, June 2002.
26. 'More powerful but still easy to use data analysis with JMP version 5', The Joint Statistical Meetings, New York, NY, August 2002.
27. 'Comparison of standard versus modified expiratory technique during spirometry', International Biometric Society's ENAR meeting, Tampa, FL, Mar-Apr 2003.
29. 'Sequential sampling plans to estimate mean number of individuals per sampling unit', University of Georgia, September 2002.
30. 'Estimating overlap of two exponential populations', The Joint Statistical Meetings, Atlanta, GA, August 2001.
31. 'Professional development and continuing education in statistics', invited to present at the ENAR meeting in March 2001. Other presenters in this invited session were the President of the American Statistical Association and the President of the ENAR.
32. 'Job Search in Academia', in an invited series titled "Launching a Successful Job Search Series" at the Joint Statistical Meetings, Indianapolis, IN, August 2000.
33. 'Professional development in Statistics at the JSM', in Professional Development Forum, Joint Statistical Meetings, Indianapolis, IN, Aug. 2000.
34. 'Using graphical techniques to summarize medical data', OB/GYN, USA Women and Children's Hospital, Mobile, AL, April 2000.
35. 'Confidence Interval estimation of Overlap: equal means case', the Joint Statistical Meetings, Indianapolis, IN, August 2000.
36. 'Approximations to an SPRT for hypergeometric sampling', the 5<sup>th</sup> World Congress of the Bernoulli Society, May 2000, Guanajuato, Mexico.
37. 'The Advanced Placement Statistics Exams', Regional NCTM Conference, Mobile, Alabama, March 2000.
38. 'Internet resources for AP-Statistics teachers', the Joint Statistical Meetings, Baltimore, August 1999.
39. 'Selection procedures for count data', the International Conference on Combinatorics, Statistics, Pattern Recognition and other related Areas, Mysore, December 1998.
40. 'Parental involvement in children's education Maysville Area', Mobile Area Education Foundation, Mobile, October 1998.
41. 'Maysville Area Project: An Overview', Mobile, AL, July 10, 1998.
42. 'Parental involvement of Kindergarden kids', Mobile, AL, August 20, 1998.
43. 'A selection procedure for service simulations and manufacturing procedures', International conference on Combinatorics, Information Theory and Statistics, July 1997, Portland, Maine.
44. 'Student activities in introductory statistics classes', Invited to present at the Annual Meeting of the Southern Regional Council on Statistics, June 1997, Gatlinberg, TN.

45. 'Visualizing the Central Limit Theorem', 47th Annual meeting of Alabama Association of College Teachers of Mathematics, February 1997, Mobile, AL.
46. 'Sequential sampling procedures for testing insect population density', Invited seminar at Auburn University, November 1996, Auburn AL.
47. 'Estimation of bias for statistical measures of income inequality', 4th World Congress of the Bernoulli Society, August 1996, Vienna, Austria.
48. 'Estimation of Bias for overlap of Pareto distributions', Joint Statistical Meetings, August 1996, Chicago, IL.
49. 'Using *Visual Statistics* to illustrate concepts in undergraduate statistics course', Univ. of South Alabama, February 1996.
50. 'Statistical Analysis and weather elements', Invited seminar, Jackson State University, Jackson, MS, April 1996.
51. '*JMP* for quantitative Analysis', Univ. of South Alabama, May 1996.
52. 'Selecting best negative binomial population using two distance measures', Joint Statistical Meetings, August 1995, Orlando, FL.
53. 'Detection of population with least average nonconformities', International Biometric Society/ENAR Meeting, March 1995, Birmingham, AL.
54. 'On selection procedures for fraction nonconforming and average nonconformities', ASA Winter Conference, January 1995, Raleigh, NC.
55. 'Selection using difference and ratio of success probabilities.' the Annual Joint Statistical Meetings, ASA, August 1994, Toronto, Canada.
56. 'Application of an asymptotic solution to Kiefer-Weiss problem for medical experiments', Department of Statistics, University of Connecticut, May 1994, Storrs, CT.
57. 'Using 2-SPRT for testing insect population density.' Department of Experimental Statistics, Louisiana State University, October 1993, Baton Rouge, LA.
58. 'On the confidence interval estimation of overlap.' ASA Joint Statistical Meetings, August 1993, San Francisco, CA.
59. 'Selection using overlap coefficients.' Seventh International Conference on Multivariate Analysis, December 1992, New Delhi, India.
60. 'Overlap coefficients of two Normal densities: equal means case.' Biometric Society (ENAR) Spring Meeting, March 1992, Cincinnati, OH.
61. 'Approximations for a fixed sample size selection procedure for negative binomial distribution.' ASA Joint Statistical Meetings, August 1991, Atlanta, GA.
62. 'An approximate Kiefer-Weiss solution for the negative binomial distribution.' ASA Joint Statistical Meetings, August 1989, Washington, D.C.
63. 'A fixed sample size procedure for selecting the best negative binomial population.' ASA Joint Statistical Meetings, August 1988, New Orleans, L.A.
64. 'Application of the 2-SPRT for the negative binomial distribution.' ASA Winter Conference, January 1988, San Antonio, TX.
65. 'A sequential test of population means from two negative binomial distributions with a common k.' Biometric Society Spring Meetings, March 1987, Dallas, TX.

## Poster Presentations:

1. Mulekar, M.S. and Kimball, S.K. (2010). Quality control for meteorological data collected by the University of South Alabama mesonet stations, Joint Statistical Meetings, Vancouver, Canada.
2. Fruh, S., Mulekar, M.S., and Roussel, L. (2010). Benefits of family meals: Nurse practitioner's perspective, USARC Research Forum, Mobile, AL.
3. Mulekar, M.S. and Kimball S.K. (2009) Investigating spatial and seasonal variations in radiation levels, Joint Statistical Meetings, Washington, D.C. August 2009.
4. Kimball, S.K., Blackwell, K., Dougherty, C., and Mulekar, M.S. (2008). The Center for Hurricane Intensity and Landfall Investigation (CHILI), Bays & Bayous, Biloxi, MS.
5. Mulekar, M.S. , Kimball, S., and Sowell, J. V. (2008). Comparison of soil temperatures in Agricola and Pascagoula, MS, Joint Statistical Meetings, Denver, CO, August 2008.
6. Mulekar, M.S., Richardson, S., and Kimball, S. (2008). Similarities and differences in daily weather at Agricola and Pascagoula, Professional Night, Louisville, KY, June 2008.
7. MS, Mulekar, M.S., Kimball, S., and Boone, J. (2008). Variations in diurnal temperature ranges, University of South Alabama's 15<sup>th</sup> Annual Research Forum, March 2008, Mobile, AL.
8. Richardson, S., Mulekar, M.S., and Fearn, M.L. (2008). Analysis of quality of water in Dog river watershed, University of South Alabama's 15<sup>th</sup> Annual Research Forum, March 2008, Mobile, AL.
9. Huber, S., Kimball, S., Stamates, J., Cummings, S., and Mulekar, M.S. (2007). The University of South Alabama Mesonet: Statistical analysis, climographs, and meteorological case studies, Bays & Bayous, Biloxi.
10. Mulekar, M.S. and Siegel, M. (2007). Estimating effect of sample size on the location, spread, and shape of the sampling distribution, Professional Night, Louisville, KY, June 2007.
11. Mulekar, M.S. and Kimball S. (2007). Is there weekend effect in diurnal temperatures? Joint Statistical Meetings, Salt Lake City, Utah, Aug. 2007
12. Henderson, S.D., Rizk, B., Mulekar, M. (2005). Uterine Leiomyomas and Their Effect on In Vitro Fertilization Outcome: A Controlled Retrospective Study. ASRM & CFAS, Montreal. Poster-246
13. Grace, J., Rizk, B., Mulekar, M. (2005). Coasting Decreases Ovarian Hyperstimulation Syndrome in Patients at Risk. Is the Quality of Oocytes, Embryos and Pregnancy Rate the Price to Pay? ASRM & CFAS, Montreal, Poster-416
14. 'Bootstrap estimation of bias when using geometric mean to estimate mean of the lognormal distribution', Presented at 12<sup>th</sup> Annual USARC Research Forum, April 2005.
15. 'Effects of expansions on stream health', Presented at 12<sup>th</sup> Annual USARC Research Forum, April 2005.
16. 'Cultural Similarities and Differences in Response to Postpartum Depression', Presented at 12<sup>th</sup> Annual USARC Research Forum, April 2005.
17. 'Is counseling helpful in educating SCD patients and their relatives? Annual Research Forum, Univ. of South Alabama, April 2003.
18. Binomial sequential sampling for density estimation. Research Forum, Univ. of South Alabama, April 2003.
19. Assessing the effect of educational program on the school children's general knowledge

- about the Sickle cell disease. Research Forum, Univ. of South Alabama, April 2003.
20. 'More powerful but still easy to use data analysis with JMP version 5', The Joint Statistical Meetings, New York, NY, August 2002.
  21. 'Geographical Mapping of Cancer Death Rate in Alabama' Annual Research forum of USARC and Sigma Xi, 2001.
  22. 'Estimation and inference for the overlap of two exponential distributions', The Undergraduate Research Forum sponsored by UCUR, Mobile, AL, 2001.
  23. 'Estimation of overlap coefficients', the Sigma Xi Annual Meeting, November 2000, Albuquerque, New Mexico.
  24. 'Activities in introductory statistics courses', Joint Statistical Meetings, Aug. 1998, Dallas, Texas.
  25. 'Kindergarten parent involvement in Mayesville', 1998, 5<sup>th</sup> Annual Research Forum of USARC and Sigma Xi.
  26. 'The current status of accountant liability: Audit practice impact', Current topics in survey sampling, November 1997, Lincoln, Nebraska.
  27. 'Citation analysis of accounting research', 3rd annual Research Forum of USARC and Sigma Xi, May 1996.
  28. 'Impact of Accountant liability upon the profession of accounting', 3rd annual Research Forum of USARC and Sigma Xi, May 1996.
  29. 'College education in the southeastern region', Joint Statistical Meetings, Orlando, FL, August 1995.
  30. 'Comparison of Sequential Testing Procedures', Shirley Butts\*, Presented at the Undergraduate research poster session, the Annual Meeting of Sigma Xi, the scientific research society, Atlanta, 1994.