

July 17, 2008

**NAME:** JOHN D. SPURRIER

**ADDRESS:** Department of Statistics  
University of South Carolina  
Columbia, South Carolina 29208

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**DATE AND PLACE OF BIRTH:** November 16, 1948, Kansas City, Missouri

**EDUCATION:** B.A. Mathematics, University of Missouri-Columbia, 1970  
M.A. Statistics, University of Missouri-Columbia, 1971  
Ph. D. Statistics, University of Missouri-Columbia, 1974

**EMPLOYMENT:** University of South Carolina, Columbia, SC  
Distinguished Professor Emeritus, 7-1-08 to present  
Professor, 8-16-84 to 6-30-08  
Associate Professor, 8-16-78 to 8-15-84  
Assistant Professor, 9-1-74 to 8-15-78

**ADMINISTRATIVE ASSIGNMENTS:**

Chairman, Department of Statistics, 7-1-93 to 6-30-96  
Assistant Chairman, Department of Statistics, 7-1-85 to 6-30-93 and 7-1-01 to 12-31-02  
Director of Graduate Studies, Department of Statistics, 7-1-85 to 6-30-93  
Director of Undergraduate Studies, Department of Statistics, 8-16-02 to 8-15-06  
Director of the Statistical Laboratory, 1-15-78 to 5-15-80  
Principal of the Capstone Scholars, 12-1-05 to present

**EDITORIAL AND REFEREEING DUTIES:**

Editorial Board Member, Journal of Nonparametric Statistics, 2003-present  
Associate Editor, Technometrics, 1986-1995.  
Editorial Board Member for Communications in Statistics - Reviews in Statistics, 1981-1985  
Served as referee for 133 papers in a variety of journals.

**HONORS:**

Elected Fellow, American Statistical Association, 1992  
Michael J. Mungo Teaching Award, 1995  
Outstanding USC Honors Professor, Sciences, 1995  
USC AMOCO Foundation Outstanding Teaching Award, 2000  
Mu Sigma Rho Statistical Education Award, 2000  
USC Mortar Board Excellence in Teaching Award, 2000-1  
Governor's Professor of the Year Award, 2002  
USC College of Science and Mathematics Outstanding Advising Award, 2004  
USC Ada B. Thomas Outstanding Faculty Advisor Award, 2005  
USC John N. Gardner Inspirational Faculty Award, 2007

**RESEARCH INTERESTS:**

Broad interests in developing methodology to solve applied problems. Recent work in multiple comparisons, nonparametric statistics, and statistics education.

**UNDERGRADUATE COURSES TAUGHT:**

Elementary Statistics, Elementary Statistics Laboratory, Proseminar in Statistics, Statistical Methods I & II, Introduction to Mathematical Statistics, Theory of Statistical Inference, Sampling, Nonparametric Statistical Methods, Probability, Statistical Quality Control, Statistics Capstone, Multiple Comparisons, Statistics for Engineers, Introduction to Descriptive Statistics

**GRADUATE COURSES TAUGHT:**

Theory of Statistics I & II, Data Analysis I & II, Applied Statistics I & II, Linear Statistical Models, Analysis of Variance, Nonparametric Inference, Statistical Computing, Simultaneous Inference, Seminar on Statistical Consulting, Multivariate Analysis

**BOOKS:**

1. John D. Spurrier, Don Edwards & Lori A. Thombs, (1995) *Elementary Statistics Laboratory Manual, DOS Version*, Belmont, CA: Duxbury.
2. John D. Spurrier, Don Edwards & Lori A. Thombs, (1995) *Elementary Statistics Laboratory Manual, Macintosh Version*, Belmont, CA: Duxbury.
3. John D. Spurrier, Don Edwards & Lori A. Thombs, (1999) *Statistics: Learning By Doing*, Long Beach, NY: Whittier Publications.
4. John D. Spurrier, (2000) *The Practice of Statistics: Putting the Pieces Together*, Belmont, CA: Duxbury Press .

**PUBLICATIONS:**

1. John D. Spurrier & John E. Hewett, "Double Sample Tests for the Mean of a Normal Population," Journal of the American Statistical Association, 70 (1975) 448-450.
2. Charles Locke & John D. Spurrier, "The Use of U-Statistics for Testing Normality Against Nonsymmetric Alternatives," Biometrika, 63 (1976) 143-147.
3. John D. Spurrier, "Double Sample Tests for the Equality of Two Means," Communications in Statistics - Theory and Methods, A5 (1976) 343-349.
4. John D. Spurrier & John E. Hewett, "Two-Stage Wilcoxon Tests of Hypotheses," Journal of the American Statistical Association, 71 (1976) 982 -987.
5. Charles Locke & John D. Spurrier, "The Use of U-Statistics for Testing Normality Against Alternatives with Both Tails Heavy or Both Tails Light," Biometrika, 64 (1977) 638-640.
6. Charles Locke & John D. Spurrier, "On Tests of Uniformity," Communications in Statistics - Theory and Methods, A7 (1978) 241-258.
7. John D. Spurrier, "Two Stage Sign Tests that Allow First Stage Acceptance and Rejection of the Null Hypothesis," Communications in Statistics - Theory and Methods, A7 (1978) 399-408.
8. John E. Hewett & John D. Spurrier, "Some Two-Stage K-Sample Tests," Journal of the American Statistical Association, 74 (1979) 398-404.
9. John D. Spurrier & W. J. Padgett, "The Application of Bayesian Techniques in Randomized Response," Sociological Methodology 1980, K.F. Schussler, Ed., Jossey-Bass, p. 533-544.
10. John D. Spurrier & L. J. Wei, "A Test of the Parameter of the Exponential Distribution in the Type I Censoring Case," Journal of the American Statistical Association, 75 (1980), 405-409.
11. John D. Spurrier & John E. Hewett, "Two Stage Tests of Independence Using Kendall's Statistic," Biometrics, 36 (1980) 517-522.
12. S. C. S. Lee, Charles Locke & John D. Spurrier, "On a Class of Tests of Exponentiality," Technometrics, 22 (1980) 547-554.
13. John D. Spurrier, "An Improved GT2 Method for Simultaneous Confidence Intervals on Pairwise Differences," Technometrics, 23 (1981) 189-192.
14. John D. Spurrier & D.R. Weier, "Bivariate Survival Model Derived from a Weibull Distribution," IEEE Transactions on Reliability, R-30 (1981) 194-197.

15. Charles Locke & John D. Spurrier, "On the Distribution of A New Measure of Heaviness of Tails," Communications in Statistics - Theory and Methods, **A10**, (1981) 1967-1980.
16. John D. Spurrier, John E. Hewett & Zuhdi Lababidi, "Comparison of Two Regression Lines over a Finite Interval," Biometrics, **38** (1982) 827-836.
17. John D. Spurrier, "Two Stage Tests of Hypotheses in the General Linear Model," Communications in Statistics Theory and Methods, **11** (1982) 2775-2791.
18. Thomas H. Chrzanowski, L. Harold Stevenson & John D. Spurrier, "Seasonal Variability and Transport of Suspended Microfungi in a Southeastern Salt Marsh," Applied and Environmental Microbiology, **43** (1982) 392-396.
19. Thomas H. Chrzanowski, L. Harold Stevenson & John D. Spurrier, "Transport of Particular Organic Carbon through the North Inlet Ecosystem," Marine Ecology Progress Series, **7** (1982) 231-245.
20. Thomas H. Chrzanowski, L. Harold Stevenson & John D. Spurrier, "Transport of Microbial Biomass Through The North Inlet Ecosystem," Microbial Ecology, **8** (1982) 139-156.
21. John D. Spurrier, "Exact Uniform Confidence Bands for Periodic Regression," Communications in Statistics Theory and Methods, **12** (1983) 969-973.
22. John D. Spurrier, "Comparison of Two Independent Life Tests Subject to Type II Censoring," Communications in Statistics Theory and Methods, **12** (1983) 1813-1829.
23. John E. Hewett & John D. Spurrier, "A Survey of Two Stage Tests of Hypotheses: Theory and Application," Communications in Statistics Theory and Methods, **12** (1983) 2307-2425.
24. Thomas H. Chrzanowski, L. Harold Stevenson & John D. Spurrier, "Transport of Dissolved Organic Carbon through a Major Creek of the North Inlet Ecosystem," Marine Ecology Progress Series, **13** (1983) 167-174.
25. John D. Spurrier, "An Overview of Tests for Exponentiality," Communications in Statistics Theory and Methods, **13** (1984) 1635-1654.
26. John D. Spurrier, "The Training of Statistical Consultants at the University of South Carolina," Proceedings of the Statistical Education Section of the American Statistical Association (1984) 26-28.
27. John D. Spurrier & Steven P. Isham, "Exact Simultaneous Confidence Intervals for Pairwise Comparisons of Three Normal Means," Journal of the American Statistical Association, **80** (1985) 438-442.
28. W. J. Padgett & John D. Spurrier, "On Discrete Failure Models". IEEE Transactions of Reliability, **R-34** (1985) 253-256.
29. G.J. Whiting, H.N. McKellar, B. Kjerfve and John D. Spurrier, "Sampling and Computational Design of Nutrient Flux from a Southeastern U.S. Saltmarsh," Estuarine, Coastal and Shelf Science **21** (1985) 273-286.
30. T.G. Wolaver, G. Whiting, B. Kjerfve, J. Spurrier, H. McKellar, R. Dame, T. Chrzanowski, R. Zingmark, and T. Williams, "The Flume Design - A Methodology for Evaluating Material Fluxes Between a Vegetated Marsh and the Adjacent Tidal Creek" Journal of Experimental Marine Biology and Ecology **91** (1985) 281-291.
31. John D. Spurrier & Don Edwards, "An Asymptotically Optimal Subclass of Balanced Treatment Incomplete Block Designs for Comparisons with a Control," Biometrika **73** (1986) 191-199.

32. R. Dame, T. Chrzanowski, K. Bildstein, B. Kjerfve, H. McKellar, D. Nelson, J. Spurrier, S. Stancyk, H. Stevenson, J. Vernberg & R. Zingmark, "The Outwelling Hypothesis and North Inlet, South Carolina," Marine Ecology Progress Series, 33 (1986) 217-229.
33. Thomas H. Chrzanowski, John D. Spurrier, Richard F. Dame & R. G. Zingmark, "Processing of Microbial Biomass by an Intertidal Reef Community," Marine Ecology Progress Series, 30 (1986) 181-189.
34. G.J. Whiting, H.N. McKellar, B. Kjerfve & J.D. Spurrier, "Nitrogen Exchange Between a Southeastern USA Salt Marsh Ecosystem and the Coastal Ocean," Marine Biology, 95 (1987) 173-182.
35. Thomas H. Chrzanowski & John D. Spurrier, "Exchange of Microbial Biomass Between a Spartina alterniflora Grassland and the Adjacent Tidal Creek," Estuaries, 10 (1987) 118-125.
36. John D. Spurrier, "Working-Hotelling-Scheffe Confidence Bounds," in S. Kotz & N. L. Johnson, Eds. Encyclopedia of Statistical Sciences Vol. 9 (1988) Wiley, New York, 651-653.
37. John D. Spurrier, "Generalizations of Steel's Treatment Versus Control Multivariate Sign Test," Journal of the American Statistical Association, 83 (1988) 471-476.
38. John D. Spurrier, "Comment on Hedayat, Jacroux, and Majumdar's Paper 'Optimal Designs for Comparing Test Treatments with Controls'," Statistical Science, 3 (1988) 485-486.
39. T.G. Wolaver & John D. Spurrier, "Carbon Transport Between a Euhaline Vegetated Marsh in South Carolina and the Adjacent Tidal Creek: Contributions via Tidal Inundation, Runoff and Seepage," Marine Ecology Progress Series, 42 (1988) 53-62.
40. Thomas G. Wolaver, Richard F. Dame, John D. Spurrier & Anne B. Miller, "Sediment Exchange Between A Euhaline Salt Marsh in South Carolina and the Adjacent Tidal Creek", Journal of Coastal Research, 4 (1988) 17-26.
41. T. G. Wolaver & John D. Spurrier, "The Exchange of Phosphorus Between a Euhaline Vegetated Marsh and the Adjacent Tidal Creek," Estuarine, Coastal and Shelf Science, 26 (1988) 203-214.
42. John D. Spurrier & B. Kjerfve, "Estimating the Net Flux of Nutrients Between a Salt Marsh and a Tidal Creek," Estuaries, 11 (1988) 10-14.
43. Thomas G. Wolaver, Gary Whiting, Richard F. Dame, Thomas M. Williams, and John D. Spurrier, "Bly Creek Ecosystem Study - Nitrogen Exchange within a Euhaline Salt Marsh Basin of North Inlet, South Carolina", Marine Ecology Progress Series, 49 (1988) 107-116.
44. Thomas G. Wolaver, Richard F. Dame, John D. Spurrier & Anne B. Miller, "Bly Creek Ecosystem Study - Inorganic Sediment Transport Within A Euhaline Salt Marsh Basin, North Inlet, South Carolina", Journal of Coastal Research, 4 (1988) 607-615.
45. John D. Spurrier, Josephine Wilson & James W. Park, "A Generalized Distance Multi-Sample Test of Normality with Applications to Process Control", Communications in Statistics - Simulation and Computation, 18 (1989) 553-569.
46. Gary J. Whiting, Henry N. McKellar, Jr., John D. Spurrier, & Thomas G. Wolaver, "Nitrogen Exchange Between a Vegetated Salt Marsh and the Adjoining Creek", Limnology and Oceanography, 34 (1989) 463-473.
47. Richard F. Dame, John D. Spurrier, & Thomas G. Wolaver, "Carbon, Nitrogen and Phosphorus Processing by an Oyster Reef", Marine Ecology Progress Series, 54 (1989) 249-256.
48. John D. Spurrier, & Azhar Nizam, "Sample Size Allocation for Simultaneous Inference in Comparison with Control Experiments", Journal of the American Statistical Association, 85 (1990) 181-186.

49. John D. Spurrier & L. A. Thombs, "Control Charts for Detecting Cyclical Behavior", Technometrics, 32 (1990) 163-171.
50. W. J. Padgett & John D. Spurrier, "Shewhart Charts for Percentiles of Strength Distributions", Journal of Quality Technology, 22 (1990) 283-288.
51. John D. Spurrier, "A Statistician's Role in an Ecological Research Project", Stats, (1990) No. 3, 3-6 & 22.
52. Richard Dame, Thomas G. Wolaver, Thomas M. Williams, John D. Spurrier & Anne B. Miller, "The Bly Creek Ecosystem Study: Phosphorus Transport Within A Euhaline Salt Marsh Basin, North Inlet, South Carolina", Netherlands Journal of Sea Research, 27 (1990) 73-80.
53. John D. Spurrier, "Improved Bounds for Moments of Some Rank Statistics", Communications in Statistics - Theory and Methods, 20 (1991) 2603-2608.
54. R. F. Dame, J. D. Spurrier, T. M. Williams, B. Kjerfve, R. G. Zingmark, T. G. Wolaver, T. H. Chrzanowski, H. N. McKellar & F. J. Vernberg, "Annual Material Processing by a Salt Marsh-Estuarine Basin in South Carolina, USA", Marine Ecology Progress Series, 72 (1991) 153-166.
55. John D. Spurrier, "Generalizations of Steel's Many-One Rank Sum Test", Journal of Nonparametric Statistics, 1 (1992) 287-299.
56. John D. Spurrier, "Optimal Designs For Comparing the Variances of Several Treatments with That of a Standard Treatment", Technometrics, 34 (1992) 332-339.
57. Richard F. Dame, John D. Spurrier & Richard G. Zingmark, "In Situ Metabolism of an Oyster Reef," Journal of Experimental Marine Biology and Ecology, 164 (1992) 147-159.
58. T. M. Williams, T. G. Wolaver, R. F. Dame, and John D. Spurrier, "The Bly Creek Ecosystem Study - Organic-Carbon Transport within a Euhaline Salt-Marsh Basin, North Inlet, South Carolina", Journal of Experimental Marine Biology and Ecology, 163 (1992) 125-139.
59. John D. Spurrier, "Distribution-Free and Asymptotically Distribution-Free Comparisons with a Control in Blocked Experiments", in Multiple Comparisons, Selection, and Applications in Biometry, ed. Fred M. Hoppe, (1993) 97-119, Marcel Dekker: New York.
60. John D. Spurrier, "Simultaneous Confidence Bands for Quadratic Regression Over a Finite Interval", Proceedings of the Physical and Engineering Sciences Section, American Statistical Association, (1992) 124-129.
61. John D. Spurrier, "Comparison of Simultaneous Confidence Bands for Quadratic Regression Over a Finite Interval", Technometrics, 35 (1993) 315-320.
62. John D. Spurrier & Sandra J. Kohta, "Estimation of Proportions of White and Non-White Voters Voting for Each Candidate with Applications to Possible Violations of Section 2 of the Voting Rights Act" Communications in Statistics: Simulation and Computation, 22 (1993) 845-862.
63. John D. Spurrier, Don Edwards and Lori A. Thombs, "Elementary Statistics Laboratory, Proceedings of the Statistical Education Section, American Statistical Association, (1993) 23-28.
64. Robert Edwin Lee and John D. Spurrier, "Successive Comparisons Between Ordered Treatments", Journal of Statistical Planning and Inference, 43 (1995) 323-330.
65. Robert Edwin Lee and John D. Spurrier, "Distribution-Free Multiple Comparisons Between Successive Treatments", Journal of Nonparametric Statistics, 5 (1995) 261-273.
66. John D. Spurrier, "More Bounds for Moments of Some Rank Statistics", Communications in Statistics, 24 (1995) 2679-2682.

67. John D. Spurrier, Don Edwards and Lori A. Thombs, "Elementary Statistics Laboratory," Communications in Statistics-Theory and Methods, 25 (1996) 2663-2673.
68. Madeline J. Boyle and John D. Spurrier, "Simultaneous Confidence Intervals Between Tukey and Scheffe," Communications in Statistics-Theory and Methods, 25 (1996) 1583-1593.
69. Nairanjana Dasgupta and John D. Spurrier, "A Class of Multivariate Chi-Square Distributions with Applications to Comparison with a Control", Communications in Statistics-Theory and Methods, 26 (1997), 1559-1573.
70. John D. Spurrier, "A Capstone Course in Statistics", Proceedings of the Statistical Education Section, American Statistical Association, (1997), 40-43.
71. Georgiana R. Baker and John D. Spurrier, "Comparison with a Control Using Normal Scores and Savage Statistics," Journal of Nonparametric Statistics, 9 (1998) 123-139.
72. John D. Spurrier, "Discussion of Barton and Nowack 'A One-Semester, Laboratory-Based, Quality-Oriented Statistics Curriculum for Engineering Students'", The American Statistician, 52 (1998) 241.
73. Eleanne Solorzano and John D. Spurrier, "One-Sided Simultaneous Comparisons with More than One Control", Journal of Statistical Computation and Simulation, 63 (1999) 37-46.
74. John D. Spurrier, "Exact Confidence Bounds for All Contrasts of Three or More Regression Lines", Journal of the American Statistical Association, 94 (1999) 483-488.
75. Robert Edwin Lee and John D. Spurrier, "Optimal Designs for Successive Comparisons Between Ordered Treatments," Utilitas Mathematica, 55 (1999) 97-112.
76. Nairanjana Dasgupta, John D. Spurrier, Edward Martinez, and Barry C. Moore, "Comparison to Control in Logistic Regression", Communications in Statistics - Simulation and Computation 29 (2000) 1039-1057.
77. John D. Spurrier, "A Capstone Course for Undergraduate Statistics Majors", Journal of Statistics Education, 9, No. 1 (2001).
78. Eleanne Solorzano and John D. Spurrier, "Nonparametric Multiple Comparisons with More than One Control", Journal of Nonparametric Statistics, 13 (2001) 397-412.
79. Eleanne Solorzano and John D. Spurrier, "Comparing More Than One Treatment to More Than One Control in Incomplete Blocks", Journal of Statistical Planning and Inference, 97 (2001) 385-398.
80. Nairanjana Dasgupta, Francis G. Pascual, and John D. Spurrier, "Small-Sample Techniques for Comparing Several Logistic Regression Slopes to a Standard", Journal of Statistical Computation and Simulation, 71 (2001) 141-161.
81. John D. Spurrier, "An Improved Lower Bound for Lehmann's Lambda," Communications in Statistics - Theory and Methods, 31 (2002) 193-199.
82. John D. Spurrier, "Exact Multiple Comparisons of Three or More Regression Lines: Pairwise Comparisons and Comparisons with a Control," Biometrical Journal, 44 (2002) 801-812.
83. John D. Spurrier, "On the Null Distribution of the Kruskal-Wallis Statistic," Journal of Nonparametric Statistics, 15 (2003) 685-691.
84. John D. Spurrier and Eleanne Solorzano, "Multiple Comparisons with More Than One Control," in Recent Developments in Multiple Comparison Procedures (ed. Yoav Benjamini, Frank Bretz, and Sanat Sarkar) IMS Lecture Notes Monograph Series, (2004) Vol. 47, 119-128.

85. Parul Bhargava and John D. Spurrier, "Exact Confidence Bounds for Comparing Two Regression Lines with a Control Regression Line on a Fixed Interval", Biometrical Journal, 46 (2004) 720-730.
86. John D. Spurrier, "Multiple Comparisons with the Best Control in a One-Way Layout," Communications in Statistics - Theory and Methods, 34 (2005) 651-660.
87. John D. Spurrier, "Improved Upper Bounds for Hollander's Mu and Lehmann's Lambda," Communications in Statistics - Theory and Methods, 34 (2005) 1851-1855.
88. John D. Spurrier, "Additional Tables for Steel-Dwass-Critchlow-Fligner Distribution-Free Multiple Comparisons of Three Treatments", Communications in Statistics - Simulation and Computation, 35 (2006) 441-446.
89. David R. Hare and John D. Spurrier, "Simultaneous Inference for Ratios of Linear Combinations of General Linear Model Parameters," Biometrical Journal, 60 (2007) 854-862.
90. John D. Spurrier, "A-optimal and MV-optimal incomplete block designs for comparing successive treatments," Communications in Statistics - Simulation and Computation, to appear.

#### **BOOK REVIEWS:**

1. Probability and Random Variables by G. P. Beaumont for Journal of the American Statistical Association, 82 (1987) 947.
2. Multiple Comparison Procedures by Yosef Hochberg and Ajit C. Tamhane for SIAM Review, 31 (1989) 349-350.
3. Applied Nonparametric Statistical Methods by Peter Sprent for Journal of Quality Technology, 22 (1990) 79.

#### **GRANTS AND CONTRACTS:**

1. NSF Graduate Traineeship, University of Missouri 1970-1974.
2. Summer Research Grant, University of South Carolina 1976
3. Consulting Contract (with L. J. Wei) Teepak, Inc. 1978, \$16,000
4. Consulting Contract, S.C. Dept. of Social Service, 1978-80, \$6,000.
5. Productive Scholarship Grant, Univ. of S.C., 1979, \$450
6. Grant - S. C. Dept. of Social Services and Social Security Administration (with D. R. Weier), 1980-81, \$11,300
7. Grant - S. C. Dept. of Social Services (one of 3 PI's) "AFDC-Food Stamp Consolidation Project" 10-1981 to 9-1983, \$31,770
8. NSF Ecosystem Grant "Mechanisms of Coupling Between the Water Column and Intertidal Regions of a Southeastern Estuarine System" (one of the 9 PI's) 3-1982 to 3-1985, \$714,062
9. Air Force Reliability Grant "Some Inference Procedures for Quantile and Density Function and Accelerated Life Testing" (co-PI) 5-1984 to 5-1985, \$35,087
10. NSF Ecosystem Grant "Landscape Ecology of a Southeastern Saltmarsh-Forest: A Nutrient Cycling Approach" (one of the 11 PI's), 4-1985 to 9-1986, \$450,000
11. NSF Grant "Undergraduate Statistics Computation Laboratory" (PI), 5-15-91 to 10-31-93, \$8,390
12. USC Instructional Innovation Grant (one of 3 PI's), 7-1-91 to 6-30-92, \$2,981
13. NSF Grant "Elementary Statistics Laboratory Course Development" (PI), 5-1-92 to 10-31-94, \$94,980.

14. NSF Grant "A Capstone Course in Statistics" (PI), 6-1-95 to 5-31-97, \$29,660.
15. NSF Grant "Elementary Statistics Laboratory Workshop" (PI), 3-1-97 to 8-28-99, \$67,845.
16. S.C. Commission on Higher Education Contract "Operating Characteristics of Performance-Based Funding Strategies (Co-PI), 6-99 to 4-00, \$4,000.

#### **CONSULTING EXPERIENCE:**

1. Director, Statistical Laboratory  
Department of Mathematics, Computer Science, and Statistics  
University of South Carolina, 1-78 to 5-80.  
Duties - Headed the Department's statistical consulting service which serves the University community, certain State agencies, and local industries. Primary users were biological, medical, and social sciences. Supervised two graduate students.
2. Consultant to City of Columbia, S.C., 1978-1980, 1989, 1992-1993  
Duties - Data analysis and expert testimony in connection with cases in U.S. District Court.
3. Consultant to Teepak, Inc., 6-78 to 12-78.  
Duties - Data analysis in connection with Sandy Run, S.C. Production facility.
4. Consultant to USC Baruch Institute for Marine Biology and Coastal Research's NSF Outwelling, LTER, Bly Creek Studies, 6-80 to 9-86.  
Duties - Developed statistical models for estimation of material exchange in a coastal ecosystem, Chief Statistical Advisor.
5. Consultant to Mepco/Electra Inc., 6-80 to 6-81.  
Duties - Data analysis in connection with Irmo, S.C. production facility.
6. Consultant to South Carolina Department of Social Services in connection with a Social Security Administration State Demonstration Grant, 10-80 to 9-30-83.  
Duties - Developing integrated quality control sampling plan for AFDC, Medicaid, and Food Stamp program.
7. Consultant to City of Orangeburg, S.C., 11-88.  
Duties - Data analysis in connection with case in U.S. District Court.
8. Consultant to city of Lancaster, S.C. 7-89 to 12-89.  
Duties - Data analysis in connection with case in U.S. District Court.
9. Consultant to City of Georgetown, S.C. 3-90.  
Duties - Data analysis in connection with pending legal action.
10. Consultant to Kershaw County, S.C. 6-90 to 9-92.  
Duties - Data analysis in connection with case in U.S. District Court.
11. Consultant to Ogletree, Deakins, Nash, Smoak & Stewart, P.C. 9-05 to present.
12. Informal statistical consulting within the University of South Carolina.

#### **MEMBERSHIPS:**

American Statistical Association  
 Founders Award Selection Committee, 1996-97, 2000-1, Vice-Chair 1996  
 Section on Physical and Engineering Sciences  
 Secretary Treasurer, 1994-95  
 Industrial Speakers Coordinator, 1995-1997  
 Council on Sections Representative, 1998-1999  
 Fellows Nomination Committee, 1998-1999  
 Council of Sections



Financial Oversight Committee, 1999  
 Institute of Mathematical Statistics  
 South Carolina Chapter of the American Statistical Association  
 Secretary-Treasurer 1979-80, Vice President 1980-81  
 President - Elect 1981-82, President 1982-83

**INVITED PAPERS PRESENTED AT PROFESSIONAL MEETINGS:**

1. "Tests of Normality" SREB Summer Research Conference in Statistics, DeGray State Park Lodge, Arkadelphia, Arkansas, 6-77.
2. "An Overview of Test of Normality" South Carolina Chapter of the American Statistical Association, Columbia, S.C., 4-78.
3. "The Uses and Abuses of Statistical Packages" Statistical Computing Conference, USC Computer Services, 5-78.
4. "Acceptance Sampling" Columbia Section, ASQC, 5-79
5. "Common Attitudes Toward Statistical Consulting and Consultants," S.C. Chapter of the American Statistical Association, 4-80.
6. "Two Stage Designs in Genetic Toxicology Studies" (with John E. Hewett) Fifth Annual Midwest Biopharmaceutical Statistics Workshop, Muncie, Indiana, 5-83.
7. "The Training of Statistical Consultants at the University of South Carolina" Joint Statistical Meetings, Philadelphia, 8-84.
8. "Statistical Quality Control" South Carolina Quality Conference, Columbia, S.C., 10-85.
9. "Generalizations of Steel's Treatments-Versus-Control Multivariate Sign Test" Conference on Statistics: Present and Future, University of Missouri, Columbia, Missouri, 4-89.
10. "Distribution-Free and Asymptotically Distribution-Free Comparisons with a Control in Blocked Experiments", A Symposium on Biostatistics and Statistics in Honour of Charles W. Dunnett, McMaster University, Hamilton Ontario, 5-91.
11. "Distribution-Free and Asymptotically Distribution-Free Comparisons with Control", SRCOS Summer Research Conference, Melbourne, Florida, 6-91.
12. "Training of Graduate Student Teaching Assistants: A Panel and Open Discussion", (with E. M. Eltinge, W. Notz, T. Kuczek and R. W. Stephenson) ASA Winter Conference, Louisville, KY 1-92.
13. "Elementary Statistics Laboratory", (with Lori Thombs and Don Edwards) SIAM Meeting, Philadelphia, 7-93.
14. "Elementary Statistics Laboratory", (with Lori Thombs and Don Edwards) Joint Statistical Meetings, San Francisco, 8-93.
15. "Elementary Statistics Laboratory", (with Lori Thombs and Don Edwards) NSF Project Impact: Disseminating Innovation in Undergraduate Education Conference, Arlington, VA, 6-94.
16. "Elementary Statistics Laboratory", (with Lori Thombs and Don Edwards) SRCOS Summer Research Conference, Williamsburg, VA, 6-94.
17. "Elementary Statistics Laboratory", (with Lori Thombs and Don Edwards) Central Regional Meeting of The Institute of Mathematical Statistics, Iowa City, Iowa, 5-95.
18. "A Capstone Course in Statistics", Annual Meeting of South Carolina Academy of Science, Columbia, SC, 4-97.
19. "Five Points of Light", Statistics Partnerships Between Academics, Industry, and Government Workshop, Raleigh, NC, 5-97.

20. "A Capstone Course in Statistics", Joint Statistics Meetings, Anaheim, CA 8-97.
21. "Statistics as a Lab Science", 12th Annual Department Chairs Colloquium, Bethesda MD 11-97.
22. "A Capstone Course in Statistics", Sixth International Conference of Forum for Interdisciplinary Mathematics on Statistics, Combinatorics and Related Areas, Mobile, AL, December 1999.
23. "Comparing More than One Treatment to More than One Control in Incomplete Blocks" (with Eleanne Solorzano), 2<sup>nd</sup> International Conference on Multiple Comparisons, Berlin, Germany, June 2000.
24. Panel Discussion "The Isolated Statistician: Challenges and Opportunities for the Statistics Profession", Joint Statistical Meetings, Indianapolis, IN, August 2000.
25. "A Capstone Course in Statistics", Annual Meeting of the Florida Chapter of the American Statistical Association, Jacksonville, FL, February 2001.
26. "Multiple Comparisons with More Than One Control", NSF-CBMS New Horizons in Multiple Comparison Procedures Conference, Philadelphia, PA, August 2001.
27. "Exact Multiple Comparisons of Three or More Regression Lines: Pairwise Comparisons and Comparisons with a Control," Fourth Biennial International Conference on Statistics, Probability and Related Areas, DeKalb, IL June 15, 2002
28. "Lessons Learned in 10 Years of Hands On Learning at the University of South Carolina," Beyond the Formula VI,, Rochester, NY, August 2002.
29. "A Hands-On Experiment Comparing the Tastes of Two Competing Products," Beyond the Formula VI, Rochester, NY, August 2002.
30. "More Hands-On Experiments Used at the University of South Carolina," Beyond the Formula VI, Rochester, NY, August 2002.
31. "How Are My Students' Lives Going to Be Different Because They Took My Course?", Meeting of South Carolina Mathematical Association of Two Year Colleges, Columbia, SC, April 2005.

#### **CONTRIBUTED PAPERS PRESENTED AT PROFESSIONAL MEETINGS:**

1. "Double Sample Test for Means of Normal Populations" (with John E. Hewett), Central Regional Meeting of the Institute of Mathematical Statistics, Iowa City, IA, 10-73.
2. "Two Stage Wilcoxon Tests of Hypotheses" (with J.E. Hewett), Central Regional Meeting of the Institute of Mathematical Statistics, St. Paul, MN, 3-75.
3. "Tests for Normality Based on U-Statistics Against Nonsymmetric Alternatives" (with Charles Locke). Eastern Regional Meeting of the Institute of Mathematical Statistics, Rochester, NY, 5-75.
4. "Comparison of Assignment Designs for Small Sized Sequential Experiments (with L. J. Wei). Second Annual University of South Carolina Symposium on Cancer Research, 3-76.
5. "The Use of U-Statistics for Testing Normality Against Alternatives with Both Tails Heavy or Both Tails Light and a Comparison with Other Statistics (with Charles Locke), American Statistical Association, Boston, MA, 8-76.
6. The Use of Bayes Estimation in Randomized Response (with W. J. Padgett), Eastern Regional Meeting of the Institute of Mathematical Statistics, Chapel Hill, NC, 4-77.
7. On Tests of Uniformity (with Charles Locke), Eastern Regional Meeting of the Institute of Mathematical Statistics, Chapel Hill, NC, 4-77.
8. Some Two-Stage K-Sample Tests (with John Hewett), Joint Statistical Meetings Chicago, IL, 8-77.

9. "A Test of the Exponential Parameter in the Type I Censoring Case" (with L. J. Wei) Joint Statistical Meetings, San Diego, CA, 8-78.
10. "An Almost Optimal Integrated Sampling Plan" (with R.S. Porter & P.G. Spurrier) Annual Meeting of South Carolina Chapter of the American Statistical Association, Columbia, 4-79.
11. "Predicting Success for First Semester Freshmen Enrolling in Calculus (with P. N. Cavallieri & J. H. Wahab) Annual Meeting of South Carolina Chapter of the American Statistical Association, Columbia, 4-79.
12. "On a Class of Tests of Exponentiality" (with S.C.S. Lee & Charles Locke) Joint Statistical Meetings, Washington, DC, 8-79.
13. "An Improved GT2 Procedure for Pairwise Comparison of 3 or 4 Population Means" Eastern Regional Meeting, Institute of Mathematical Statistics, Charleston, SC, 3-80.
14. "Comparison of Two Regression Lines over a Finite Interval" (with J. E. Hewett & Z Lababidi) Joint Statistical Meetings, Houston, TX, 8-80.
15. "A Bivariate Model Derived from a Weibull Distribution" (with D.R. Weier) Joint Statistical Meetings, Houston, TX, 8-80.
16. "An Overview of Recent Work in Two Stage Tests of Hypotheses," ONR/IMS Advanced Research Seminar on Sequential Statistics and Their Applications, University of Kentucky, 6-81.
17. "Two Stage Tests of Hypotheses," in General Linear Model," Joint Statistical Meetings, Detroit, MI, 8-81.
18. "Comparison of Two Independent Life Tests Subject to Type II Censoring," IMS Special Meeting on Survival Analysis, Columbus, OH, 10-81.
19. "Exact Uniform Confidence Bands for Periodic Regression," Joint Statistical Meetings, Cincinnati, OH, 8-82.
20. "Exact Simultaneous Confidence Intervals for Pairwise Comparison of Three Normal Means Based on Unequal Sample Sizes" (with Steven P. Isham), Joint Statistical Meetings, Toronto, ON, 8-83.
21. "An Asymptotically Optimal Subclass of BTIB Designs for Comparisons with Control" (with D. Edwards) Joint Statistical Meetings, Philadelphia, PA, 8-84.
22. "On Discrete Failure Models" (with W.J. Padgett) Biometric Society Meeting, Raleigh, NC, 3-85.
23. "Estimating the Net Flux of Nutrients Between a Salt Marsh and a Tidal Creek" (with B. Kjerfve) Joint Statistical Meetings, Chicago, IL, 8-86.
24. "A Generalized Distance Multi-Sample Test of Normality with Applications to Quality Control" (with Josephine Wilson) Annual Meeting of South Carolina Chapter of American Statistical Association, Columbia, SC, 4-87.
25. "Generalizations of Steel's Treatments Versus Control Multivariate Sign Test" Joint Statistics Meetings, San Francisco, CA, 8-87.
26. "Generalizations of Steel's Many-One Mann-Whitney Test", Joint Statistical Meetings, Washington, DC, 8-89.
27. "Comparing the Variances of Several Treatments with that of a Control", Joint Statistical Meetings, Anaheim, CA 8-90.
28. "Simultaneous Confidence Bands for Quadratic Regression Over a Finite Interval", Joint Statistical Meetings, Boston, MA 8-92.
29. "Elementary Statistics Laboratory Workshop", Joint Statistics Meetings, Dallas TX 8-98 (with Lori Thombs).

30. "Elementary Statistics Laboratory Workshop", Joint Statistics Meetings, Baltimore, MD 8-99 (with Lori Thombs).
31. "Nonparametric Multiple Comparisons with More Than One Control", Joint Statistics Meetings, Indianapolis, IN 8-00 (with Eleanne Solorzano).
32. "Exact One-Sided Confidence Bounds Comparing Two Regression Lines" Joint Statistical Meetings, San Francisco, CA 8-03 (with Parul Bhargava).
33. "Simultaneous Inference for Two Ratios of Linear Combinations of General Linear Model Parameters", Joint Statistical Meetings, San Francisco, CA 8-03 (with David Hare).

### **SHORT COURSES AT PROFESSIONAL MEETINGS**

Capstone Experiences: Putting the Pieces Together, Joint Statistical Meetings, Baltimore, MD 8-99 and Joint Statistical Meetings, Indianapolis, IN 8-00.

### **DIRECTION OF PH.D STUDENTS:**

1. Shu-Chen Susan Lee, Summer 1978, The Use of U-Statistics for Testing Exponentiality (with Charles Locke).
2. Robert Edwin Lee, Fall 1992, The Comparison of Successive Effects.
3. Nairanjana Dasgupta, Spring 1996, Comparison to Control in Logistic Regression.
4. Eleanne Solorzano, Summer 1999, Simultaneous Comparisons with More Than One Control.
5. Parul Bhargava, Fall 2003, Exact Confidence Bounds Comparing Two Regression Lines with a Control Regression Line.
6. David Hare, Summer 2004, Simultaneous Inference for Ratios of Linear Combinations of General Linear Model Parameters.

### **DIRECTION OF MASTER'S STUDENTS:**

1. M.A. Theses - Jenny Chen Wei, Spring 1976, Some Tests for Normality Against Nonsymmetric Alternatives.
2. M.S. Thesis - Andre Putz Lubecke, Fall 1977, Maximum Likelihood Estimation in Quantal Bioassay.
3. M.M. Paper - Peggy N.Cavalieri, Summer 1978, Comparisons of Placement Policies for Freshman Calculus (with James Wahab).
4. M.S. Thesis - Patricia Gorman Monroe, Summer 1978, The Effects of Asymmetry on Confidence Intervals for Location Parameters (with Jeff Robinson)
5. M.S. Thesis - James J. Ashton, Summer 1979, LINMOD - A Statistical Computing Package.
6. M.S. Thesis - Molly M. Jones, Summer 1980, LINCOM - A Statistical Computing Package for Multiple Comparisons of Means.
7. M.S. Thesis - John E. Gleissner, Spring 1981, STATS - A Statistical Computing System.
8. M.S. Thesis - Audrey Comiskey, Summer 1981, Inference for the Exponential Parameter for Complete and Censored Data.
9. M.S. Thesis - Steve Isham, Summer 1983, Exact Simultaneous Confidence Intervals for Pairwise Comparison of Three Normal Means Based on Unequal Sample Sizes.
10. M.S. Thesis - Greg Osenga, Spring 1984, Computer Performance Evaluation: Linear Regression Analysis.

11. M.S. Thesis - Chen-Kuei Shih, Spring 1986, An Extension of Steel's Comparison with Control Procedure.
12. M.S. Thesis - Brett L. Peeler, Spring 1986, Comparison of Two Estimators of the Proportion.
13. M.S. Thesis - James W. Park, Summer 1986, Testing for Normality in Control Chart Type Data.
14. M.S. Thesis - Josephine Wilson, Spring 1987, The Generalized Distance Test: A Test for Normality.
15. M.S. Thesis - Huey Lin, Spring 1987, A Multiple Comparison Procedure: Treatments Versus Control Using Permutation Tests.
16. M.S. Thesis - Azhar Nizam, Fall 1988, Optimal Designs When Comparing Experimental Treatments with a Control.
17. M.S. Thesis - Kari L. Richardson, Summer 1989, Inference for Comparison with Control Experiments Using Median Statistics.
18. M.S. Thesis - Sandra J. Kohta, Summer 1989, Comparison of Regression Estimators in Election Data.
19. M.S. Thesis - Leslie M. Jones, Spring 1991, Consideration of Problems with Regression Estimators in Election Data.
20. M.S. Thesis - Jerome Musial, Summer 1991, Optimal Incomplete Block Designs When Comparing Several Treatments with a Control.
21. M.S. Thesis - Madeline Boyle, Spring 1995, Simultaneous Confidence Intervals Between Tukey and Scheffe.
22. M.S. Thesis - Georgiana Baker, Spring 1996, Some Rank Tests for Comparisons to a Control.
23. M.S. Thesis - David Hare, Summer 2001, When Is It Desirable to Use Stratified Random Sampling Rather than Simple Random Sampling?
24. M.S. Thesis - Heather Ridings, Spring 2002, K Sample Distribution-Free Tests of Location.
25. M.I.S. Project - Chris Colvin, Summer 2004, Efficiency in College Athletics.
26. M.S. Thesis - Nicholas Anderson, Spring 2005, Reducing Sample Size Requirements for Nonparametric Control Charts Based Upon the Sign Test Statistic.
27. M.I.S. Project - Legare Gresham, Spring 2005, An Analysis of Medical Malpractice Data from 1991 to 2003.
28. M.I.S. Project - Leticia Ramlal, December 2007