

January 22, 2000

CURRICULUM VITAE

David Warren Scott
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PERSONAL DATA

Date and place of birth: July 16, 1950; Oak Park, Illinois
 Marital status: Married, three children
 Permanent address: 4143 Marlowe, Houston, TX 77005-1953
 Social Security Number: 418-70-1991

EDUCATION

B.A. 1972 Electrical Engineering and Mathematics, Rice Univ.
 M.A. 1976 Mathematical Sciences, Rice University
 Ph.D 1976 Mathematical Sciences, Rice University

PROFESSIONAL EXPERIENCE

1999-00 Visiting Mathematician, National Security Agency
 1999 Visiting Mathematician, IDA-CCR, Princeton, NJ
 1998 Visiting Fellow of the Institute of Applied and Pure Mathematics, Louvain-la-Neuve
 1993-94 Visiting Mathematician, National Security Agency
 1990-93 Chairman, Department of Statistics, Rice University
 1987- Professor of Statistics, Rice University
 1987 Visiting Professor, Wirtschaftstheorie II, Universitat Bonn
 1985- Professor of Mathematical Sciences, Rice University
 1985-86 Visiting Professor, Department of Statistics, Stanford University
 1980-85 Associate Professor of Mathematical Sciences, Rice University
 1979-80 Assistant Professor of Mathematical Sciences, Rice University
 1979- Adjunct Assistant (Associate 1981) Professor of Experimental Medicine and of Community
 Medicine, Baylor College of Medicine
 1976-79 Assistant Professor of Mathematics, Department of Community Medicine, Baylor College of
 Medicine
 1976-79 Adjunct Assistant Professor of Mathematical Sciences, Rice University
 1976 Research Associate and Instructor, Department of Mathematical Sciences, Rice University

HONORARY AND PROFESSIONAL SOCIETIES

Elected, Council Member, International Assoc of Statistical Computing IASC 1999-2003
 Elected, Ordinary Member, International Statistical Institute, January, 1995
 Texas Statistician of the Year (ASA Don Owens Award), San Antonio, April, 1993
 Fellow, American Statistical Association, August 1990
 Fellow, Institute of Mathematical Statistics, August 1990
 Fellow, American Association for the Advancement of Science, March 1987
 Who's Who in American Education 1992-1993
 Who's Who in America 1993-
 American Statistical Association 1977-
 Institute of Mathematical Statistics 1976-
 American Association for the Advancement of Science 1981-
 Royal Statistical Society 1987-
 National Computer Graphics Association 1984-1993
 American Mathematical Association 1984-
 Society for Industrial and Applied Mathematics 1985-87,88-
 The American Mathematical Society 1985-
 Classification Society of North America 1991-
 The Biometrics Society 1982-86
 Rice Fellow for seven semesters 1972-75; Sigma Tau 1972

GRANTS

Principal Investigator, "Digital Government: Collaborative Research: Quality Graphics," National Science Foundation, August, 2000 - July, 2003, \$270,000, DMS-99-83459.

Principal Investigator, "Multivariate Nonparametric Methodology Studies," National Science Foundation, June, 1999 - May, 2002, \$255,000, DMS-99-71797 (with Dennis Cox).

Co-Principal Investigator, "The Rice Virtual Lab in Statistics," National Science Foundation, July 1, 1997 - June 30, 2000, \$200,000, (David Lane, P.I., Quinones, Austin, Baggerly, co-PI's); renewed 2001-2004, \$400,000.

Principal Investigator, "Workshop on Advances in Smoothing: Bumps, Jumps, Clustering, and Discrimination," National Science Foundation, March 1, 1997 - February 28, 1998, \$9,241, DMS-96-15912.

Principal Investigator, "Multivariate Nonparametric Methodology Studies," National Science Foundation, June, 1996 - May, 1999, \$219,081, DMS-96-26187 (with Dennis Cox).

Principal Investigator, "Research and Training in Computational Statistics and Mathematical Sciences," National Security Agency, October 1, 1995 - September 30, 1998, \$600,000, MDA 904-95-C-2203.

Principal Investigator, "Spatial Estimation and Presentation of Regression Surfaces Using Complex Survey Data," U.S. Dept. Agriculture, September 29, 1995 - September 30, 1996, \$12,000, USDA 43-3AEL-5-80119.

Principal Investigator, "Multivariate Nonparametric Methodology Studies," National Science Foundation, May, 1993 - May, 1996, \$130,500, DMS-9306658.

Principal Investigator, "Senior Investigator Graduate Student Fellowship Funds", National Security Agency, 1993 - 1995, \$12,000, MOD-9086-93.

Research Associate, EPA, Phil Bedient, P.I.

Principal Investigator, "Mathematical Sciences Research Equipment," NSF, 1993, \$40,806, DMS-9305700.

Principal Investigator, "Construction of a Reactive Computing Environment for Density Estimation in Three to Five Dimensions," Office of Naval Research, January, 1985 - December, 1987, \$224,406; renewed, January, 1988 - December 1989, \$116,799; renewed, January, 1990 - June, 1993, \$250,975.

Co-Principal Investigator, "Houston Ozone Study," Texas Air Control Board, UT Subcontract IAC VID 37217217217000, (with K. Ensor), 1991, \$15,000.

Principal Investigator, "Computer Workstations for Color Graphics Laboratory: Sun-3 from Sun Microsystems, Inc." Office of Naval Research (DOD-URIP), Grant, August, 1986 - December, 1987, \$73,332 (includes \$15K matching funds).

Principal Investigator, "Nonparametric and Mixture Methods for Crop Classification and Estimation in a Reactive Computer Environment," NASA/Johnson Space Center, July, 1983 - May, 1984, \$24,990, NCC9-10; "Nonparametric and Mixture Methods for Representation and Classification of Remotely Sensed Data," May, 1984 - April, 1985, \$25,000.

Principal Investigator, "Mathematical Sciences Research Equipment," NSF, 1983, \$19,800, MCS83-05525, R.A. Tapia, co-P.I.

Principal Investigator, "Interactive Nonparametric and Mixture Methods for Crop Classification and Estimation," NASA/Lockheed, 1982-1983, \$33,601, PO-0200100079.

Research Associate, "Efficient Methods for Multidimensional Probability Density Estimation," ARO, 1982-1985, \$164,985, J.R. Thompson, P.I., DAAG-29-82-K-0014, renewed 1985-1988, renewed 1988-1991 (\$150,000).

CONSULTING EXPERIENCE

- 1999- Faculty-in-Residence, Sabre Decision Technologies
- 1973- Scientific Programming Consultant with International Mathematical and Statistical Libraries (IMSL), Houston, TX; Software Copyright Infringement Legal Consultant; Biostatistical consulting; Industrial consulting including Fulbright and Jaworski, Browning-Ferris, Dresser Industries, McGovern Clinic, and Exxon Corporation.

PROFESSIONAL ACTIVITIES

- Member, Committee on Applied and Theoretical Statistics, Board on Mathematical Sciences, The National Academies, 9/1/2000-6/30/2003.
- Editor, Journal of Computational and Graphical Statistics, 2000-2003.
- Co-chair, ASA Committee on Electronic Communications, 2001 (with Paul Velleman)
- Program Chair, Nonparametrics Section, Joint Statistical Meetings, August 6-10, 2000,

Indianapolis, IN.

- Overall Program Chair, Joint Statistical Meetings, August 9-13, 1998, Dallas, Texas.
- President, Board of Directors, Interface of Computing Science and Statistics Foundation, 1998-2000.
- Member, ASA Committee on Meetings, 1/97--12/99.
- Council of Section Representative, ASA Section on Computer Graphics, 1/99-12/01.
- Organizer and Program Chair, Interface of Computing Science and Statistics, May 14-17, 1997, Houston, Texas.
- Organizer and Program Chair, NSF Workshop on Advances in Smoothing, May 11-14, 1997, Houston, Texas.
- Member, NSF DMS Proposal Screening Panel, Arlington, VA, December 16-18, 1996.
- Member, Editorial Board, Statistical Sciences, 1995-97.
- Member, ASA Committee on Electronic Communications, 1996-1998, 1999-2001.
- NSF Workshop on Statistics and Signal Processing, Monterey, CA, Nov 1-3, 1995.
- Member, NSF DMS Proposal Screening Panel, Arlington, VA, December 5-7, 1994.
- Member, Editorial Board, Probability and Statistics Series, John Wiley & Sons, 1994-.
- President (Elect-Past), Section of Statistical Graphics, ASA, 1993-96; Members, Section Fellows Nominating Committee, 1999-2001.
- Distinguished Foreign Lecturer, South Africa Statistical Association Annual Meeting, University of Pietermaritzburg, November 3-5, 1993.
- Board of Directors, Interface of Computing Science and Statistics Foundation, elected member and secretary, 1992-1996; re-elected, 1997-.
- Co-Editor (with Wolfgang Haerdle), Journal of Computational Statistics, Physica-Verlag, 1991-1998.
- Program Chair, Section of Statistical Graphics, ASA, 1991-93.
- Management Committee, Journal on Computational and Graphical Statistics, 1990-1992.
- Associate Editor of The Annals of Statistics, 1989-1991.
- Associate Editor of JASA, Applications Section, 1983-85, 1986-88, 1989-91, 1992-94.
- Program Chair, Statistics Track, NCGA, April 22-25, 1991, Chicago; March 9-12, 1992, Anaheim.
- Member ASA Committee to Select JASA Theory and Methods Editor, 1989.
- President, Houston Area Chapter ASA 1988-89; Vice-President 1987-88.
- Member Advisory Committee on Continuing Education, ASA, 1988-1990.
- NCI-NIH Special Review Panel, March 13-14, 1990, Bethesda, MD; NSF SCREMS Review Panel for Special Equipment in Mathematical Sciences, March 8-10, 1989 and March 3-5, 1988; NSF Presidential Young Investigator Mathematical Sciences Selection Panel, Washington, DC, October 9-10, 1986.
- Organizer invited paper sessions, Annual Meeting of the ASA, San Francisco, CA, August 9-12, 1993. "Young Researchers in Statistical Graphics;" Speakers: James Hardin, Michael Minnotte, John Elder, Qiang Luo. "Novel Multivariate Applications of Statistical Graphics;" Speakers: James Schimert, Georgia Thompson, Chisheng Huang.
- Organizer invited paper session, "Current and Future Computing Environments," SRCOS Summer Research Conference, Galveston, TX, June 7, 1993. Speakers: Terry Therneau and Michael Pearlman.
- Organizer invited paper session, "Applications of Statistical Graphics and Nonparametric Regression," ASA Annual Meeting, Boston, MA, August 12, 1992. Speakers: Doug McManus, Michael Tarter, Katherine Ensor.
- Organizer invited paper session, "Visualizing Multivariate Data and Functions," Interface of Computing Science and Statistics, College Station, TX, March 19, 1992. Speakers: Qiang Luo, Georgia Thompson, Scott, and Ted Milhalisin.
- Chairman and Organizer, Statistical Graphics Technical Sessions, National Computer Graphics Association, Anaheim, CA, March 9-12, 1992. Speakers: Kuhfeld, Wilkinson, Polhemus, Scott.

- Organizer and Co-Chairman, Conference of Texas Statisticians, COTS, Houston Hilton, March 23-24, 1990.
- Grant from Rice Center for the Study of Institutions and Values for visit of Wolfgang Haerdle April 5-25, 1988 from the University of Bonn: MIT, Texas Conference of Statisticians invited talk, Texas A&M, Rice University (series of 4 talks), Chapel Hill, Interface of Computer Science and Statistics.
- Session Organizer: "Future of Statistical Computing," Statistical Computing Section Program special invited paper section for ASA150 Sesquicentennial Annual Meeting, August, 1989 (Wegman, Becker/Chambers, Thompson, Breiman); Organizer of invited paper session entitled "Detecting Nonlinear Structure in Several Dimensions" for 1989 ASA150 meetings, August, 1989 (Flury, Inselberg, and Carr); Organizer of invited paper session entitled "Density Estimation and Smoothing" for the 20th Interface of Computer Science and Statistics meeting in Washington, D.C., April 21-23, 1988: Speakers W. Haerdle, M. Tarter, D. Scott; "New Methods and Applications in Dimension Reduction," ENAR-ASA, Boston, March 28-30, 1988 (Nychka, Terrell, and Salsburg; Boswell, chair); "Applications of Recent Methodology in Statistical Graphics for Nonspecialist," Statistical Graphics Section Program, ASA Annual Meeting, San Francisco, CA, August 17-20, 1987 (Wendelberger, Cooper, Greenacre, Wegman); "New Methods in Statistical Graphics," ASA Statistical Graphics Section, ENAR-IMS meeting, Dallas, TX, March 22-25, 1987 (Gabriel, Brown, Gasko).
- Chairman and Organizer, Statistical Graphics Technical Sessions, National Computer Graphics Association, Chicago, IL, April 22-25, 1990. Speakers: Wegman, Carr, Tierney, and Rodriguez.
- Co-Chairman, Statistical Graphics Technical Sessions, National Computer Graphics Association, Anaheim, CA, May 12-15, 1986.
- Representative of the American Statistical Society to the AFIPS Education Committee, 1982-1984.
- Referee for Annals of Statistics, JASA, Math Reviews, Communications in Statistics, Statistics & Probability Letters, Journal of Official Statistics, Cancer Research, and Artery
- Reviewer for Mathematical Sciences Section of NSF, ARO, ONR, AFOSR, and the English Science & Engineering Research Council.
- Member of NIH National Cancer Institute site visit team to the University of California at Berkeley and the West Coast Cancer Foundation, October 19-20, 1980
- SREB Committee on Statistics representative

UNIVERSITY ACTIVITIES

- Member, University Parking Committee, 2000-
- Engineering Representative, Information Technology Computer Committee, 1998-
- Member, Research Council, 1998-1999
- Member, Provost's Ad Hoc Faculty Advisory Committee on Retirement, 1998
- Faculty Associate, Baker College, 1998-
- Chair, Fringe Benefits Committee, 1995-97, Member 1997-1998
- Member, CITI Steering Committee, 1995-
- Chair, Statistics Computer Committee, 2000-
- Chair, Statistics Graduate Committee, 1987-1990, 1994-1999
- Member, Graduate Council, 1995-98
- President, Rice Faculty Club Board of Directors, 1991-93
- Member, Rice Faculty Club Board of Directors, 1989-96
- Member, University Fringe Benefits Committee, 1991-93
- Chairman, University Committee of Computers, 1989-91
- Acting Chairman, Department of Statistics, Summer 1988

Member, University Graduate Council, 1984-85, 88-91
Member, Search Committee for Dean of Social Sciences, 1987-88
Member, Administrative Subcommittee, Computer Planning Board, 1987-90
Member, University Committee on Computers, 1987-
Member, Mathematical Sciences Search and Planning Committee, 1986-87
Member, Mathematical Sciences Undergraduate Curriculum Committee, 1986-87
Chairman, Mathematical Sciences Graduate Committee, 1979-85
Elected Member, University Faculty Council, 1981-85
Elected Member, University Tenure and Ethics Committee, 1981-85
Faculty Associate, Lovett College, 1981-86
Member, Mathematical Sciences Goals and Search Committee, 1983-85
Member, University Marshalls Committee, 1983-85,86-89
Member, University Library Committee, 1984-85
Member, School of Engineering Computer Planning Committee, 1984-85,86-87
Member, University Admissions Committee, 1980-1983
Member, University Undergraduate Curriculum Committee, 1979-1982

STUDENTS DIRECTED

Lynette E. Factor (Lamstein), M.A. degree received May, 1979, "A Comparison of Three Data-Based Nonparametric Probability Density Estimators."

Donna Nezames, Ph.D. degree received May, 1980, "Some Results for Estimating Bivariate Densities Using Kernel, Orthogonal Series, and Penalized-Likelihood Procedures." Currently at Exxon Production Research.

DeBow Freed II, Ph.D. degree received May 1983, Department of Mechanical Engineering, co-director, "Effects of Cavitation on Normal Human Platelets." Currently a consultant in Dallas.

Anna E. Baron, Ph.D. degree received July 1984, University of Texas School of Public Health, co-director, "Distributional Properties Affecting Classification in Multiple Group Discrimination Analysis." Currently faculty member at University of Colorado Medical School.

Rodney Jee, Ph.D. degree received May, 1985, "A Study of Projection Pursuit Methods." With JPL until 1994; with HNC Insurance Solutions, a private consulting firm.

Roland Sanchez, Ph.D. degree received May, 1990, "A Nonparametric Regression Algorithm for Time Series Forecasting with Application to the Predict Analysis of Urban Ozone Daily Maximum Levels." (J.R. Thompson co-director).

Ferdie T. Wang, Ph.D. degree received May, 1990, "A New Method for Robust Nonparametric Regression." Currently with Freddie Mac Corporation, Washington, D.C.

Michael C. Minnotte, Ph.D. degree requirements satisfied June, 1992, "Bump-Hunting and Multimodality Testing with the Modal Tree." Currently Associate Professor, Utah State University, Logan, UT.

Stephan R. Sain, Ph.D. degree received May, 1994, "Adaptive Kernel Density Estimation." Currently Assistant Professor, Southern Methodist University.

Keith A. Baggerly, Ph.D. July, 1994, "Visual Estimation of Structure in Ranked Data." Co-directed with Georgia L. Thompson, SMU. Currently Assistant Professor, Rice University.

John Salch, Ph.D. November, 1997, "Practical Methods for Data Mining with Massive Data Sets." Currently with Pros Strategic Solutions, Houston.

Will Wojciechowski, Ph.D. January, 2001, "Robust Modeling." Currently working on digital government grant.

DOCTORAL DISSERTATION

"Nonparametric Probability Density Estimation by Optimization Theoretic Techniques," Rice University, May, 1976.

Directors: James R. Thompson and Richard A. Tapia

BOOKS AND CHAPTERS

1. Scott, D.W. (1998), Editor. "Mining and Modeling Massive Data Sets in Science, Engineering, and Business with a Subtheme in Environmental Statistics," Proceedings of the 29th Symposium on the Interface, Houston, TX, May 14-17, 1997, Interface Foundation of North America, Fairfax Station, VA (643 pages).
2. Scott, D.W. (2000). "Multidimensional Smoothing and Visualization," In *Smoothing and Regression. Approaches, Computation and Application*, M. G. Schimek, Ed., John Wiley, New York, pp. 451--470 (with 5 color plates).
3. Scott, D.W. (1992). "Multivariate Density Estimation: Theory, Practice, and Visualization," John Wiley, New York.
4. Scott, D.W. (1991). "On Estimation and Visualization of Higher Dimensional Surfaces," In *IMA Computing and Graphics in Statistics*, Volume 36 in IMA Volumes in Mathematics and its Applications, P. Tukey and A. Buja, Eds., New York: Springer-Verlag, pp. 187-205.
5. Scott, D.W. and Schmidt, H.-P. (1989). "Calibrating Histograms with Applications to Economic Data," in *Semiparametric and Nonparametric Economics*, A. Ullah, Ed., Physica-Verlag, Heidelberg, pp. 33-46 (reprinted).
6. Scott, D.W. (1986). "Data Analysis in 3 and 4 Dimensions With Nonparametric Density Estimation," in *Statistical Image Processing and Graphics*, E.J. Wegman and D. DePriest, Eds., Marcel Dekker, New York, pp. 291-305.

REFEREED PUBLICATIONS

7. Scott, D.W. (1999). "Comment on Paper by J.H. Friedman and N.I. Fisher," "Bump Hunting in High-Dimensional Data" (1999), *Statistics and Computing*, 2, 24--25.
8. Sain, S.R. and Scott, D.W. (1996). "On Locally Adaptive Density Estimation," *Journal of the American Statistical Association*, 91:1525-1534.
9. Sain, S.R. and Scott, D.W. (1996). "Comment on Paper by Eilers and Marx," *Statistical Science*, 11, 114--115.
10. Scott, D.W. and Whittaker, G. (1996), "Multivariate Applications of the ASH in Regression," *Communications in Statistics*, 25, 2521-2530.
11. Sain, S.R., Baggerly, K.A., and Scott, D.W. (1994). "Cross-Validation of Multivariate Densities." *Journal of the American Statistical Association*, 89:807--817. Rice Technical Report 92-10, August, 1992.
12. Wang, F.T. and Scott, D.W. (1994). "The L1 Method for Robust Nonparametric Regression," *J. Amer. Statist. Assoc.*, 89:65-76. Rice Technical Report 1992.

13. Minnotte, M.C. and Scott, D.W. (1993). "The Mode Tree: A Tool for Visualization of Nonparametric Density Features." *Journal of Computational and Graphical Statistics*, 2:51-68. Rice Technical Report 92-7, May, 1992.
14. Terrell, G.R. and Scott, D.W. (1992). "Variable Kernel Density Estimation," *The Annals of Statistics*, 20:1236-1265. Rice Technical Report 90-007.
15. Haerdle, W. and Scott, D.W. (1992). "Smoothing in Low and High Dimensions by Weighted Averaging Using Rounded Points." *Computational Statistics*, 7:97-128.
16. Scott, D.W. (1991). Comment on "Transformations in Density Estimation" by Wand, Marron, and Ruppert. *J. American Statistical Association*, 86, p. 359, June.
17. Scott, D.W. and Wand, M.P. (1991). "Feasibility of Multivariate Density Estimates." *Biometrika*, 78:197-206.
18. Austin, J.D. and Scott, D.W. (1991). "Beyond Histograms: Averaged Shifted Histograms." *Mathematics and Computer Education Journal*, 25:42-52.
19. Scott, D.W. and Schmidt, H.-P. (1988). "Calibrating Histograms with Applications to Economic Data." Invited contribution to special issue of *Empirical Economics* on Semiparametric and Nonparametric Inference, 13:155-168.
20. Scott, D.W. "A Note on Choice of Bivariate Histogram Bin Shape." *J. of Official Statistics*, July, 1988, 4:47-51, Rice Technical Report No. 85-311-3.
21. Scott, D.W. "Comment on paper by Haerdle, Hall, and Marron," in *J. American Statistical Association*, 83, 96-98, March, 1988.
22. Scott, D.W. and Terrell, G.R. "Biased and Unbiased Cross-Validation in Density Estimation," *J. American Statistical Association*, 82:1131-1146, December, 1987. Technical Report No. 23, Laboratory for Computational Statistics, Department of Statistics, Stanford University.
23. Scott, D.W. "Averaged Shifted Histograms: Effective Nonparametric Density Estimators in Several Dimensions." *The Annals of Statistics* 13:1024-1040, September, 1985.
24. Scott, D.W. (1986), "Comment on 'Computers in Statistical Research' by Eddy, et al," *Statistical Sciences*, 1:419-453 (442-444), December.
25. Ricketts, A.P., Scott, D.W., and Bullock, D.W. (1986), "Radioiodinated Surface Proteins of Rabbit Trophectoderm Cells," *Cell and Tissue Research*, 246:667-671.
26. Scott, D.W. "Frequency Polygons: Theory and Application." *J. American Statistical Association* 80:348-354, June, 1985.
27. Terrell, G.R. and D.W. Scott. "Oversmoothed Nonparametric Density Estimates." *J. American Statistical Association* 80:209-214, March, 1985.
28. Scott, D.W. and S.J. Sheather. "Kernel Density Estimation with Binned Data." *Communications in Statistics*, 14:1353-1359, June, 1985.

29. Ricketts, A.P., Scott, D.W., and Bullock, D.W. "Radioiodinated Surface Proteins of Separated Cell Types from Rabbit Endometrium in Relation to the Time of Implantation." *Cell and Tissue Research*. 236:421-429, May, 1984.
30. Scott, D.W. and L.E. Factor. "Monte Carlo Study of Three Data-Based Nonparametric Density Estimators." *J. American Statistical Association* 76:9-15, March, 1981.
31. Scott, D.W., G.A. Gorry, and A.M. Gotto. "Diet and Coronary Heart Disease: The Statistical Analysis of Risk." (Invited Editorial). *Circulation* 63:516-518, March, 1981.
32. Scott, D.W., G.A. Gorry, R.G. Hoffmann, J.J. Barboriak, and A.M. Gotto. "A New Approach for Evaluating Risk Factors in Coronary Artery Disease: A Study of Lipid Concentrations and Severity of Disease in 1847 Males." *Circulation* 62:477-484, September, 1980.
33. Terrell, G.R. and D.W. Scott. "On Improving Convergence Rates for Nonnegative Kernel Density Estimators." *Annals of Statistics* 8:1160-1163, August, 1980.
34. Scott, D.W., R.A. Tapia, and J.R. Thompson. "Nonparametric Probability Density Estimation by Discrete Maximum Penalized-Likelihood Criteria." *Annals of Statistics* 8:820-832, July, 1980.
35. Scott, D.W. "Comment on a Paper by Good and Gaskins." *J. American Statistical Association* 75:61-62, 1980.
36. Scott, D.W. "On Optimal and Data-Based Histograms." *Biometrika* 66:605-610, 1979.
37. Scott, D.W., L. Factor, and G.A. Gorry. "Predicting the Response Time for an Urban Ambulance System." *Health Services Research* 13:404-417, Winter, 1978.
38. Scott, D.W., A.M. Gotto, J.S. Cole, and G.A. Gorry. "Plasma Lipids as Collateral Risk Factors in Coronary Artery Disease: A Study of 371 Males with Chest Pain." *Journal of Chronic Diseases* 31:337-345, May, 1978.
39. Hoff, H.F., C.L. Heideman, J.W. Gaubatz, D.W. Scott, J.L. Titus, and A.M. Gotto. "Correlation of Apolipoprotein B Retention with the Structure of Atherosclerotic Plaques from Human Aortas." *Laboratory Investigations* 38:560-567, 1978.
40. Hoff, H.F., C.L. Heideman, J.W. Gaubatz, D.W. Scott, and A.M. Gotto. "Detergent Extraction of Tightly-Bound ApoB From Extracts of Normal Aortic Intima and Plaques." *Experimental and Molecular Pathology* 28:290-300, 1978.
41. Gorry, G.A. and D.W. Scott. "Cost-Effectiveness of Cardiopulmonary Resuscitation Training Programs." *Health Services Research* 12:30-41, Spring, 1977.
42. Skinner, T.J., B. S. Price, D.W. Scott, and G.A. Gorry. "Factors Affecting the Choice of Hospital-Based Ambulatory Care by the Urban Poor." *American Journal of Public Health* 67:439-445, 1977.
43. Scott, D.W., R.A. Tapia, and J.R. Thompson. "Kernel Density Estimation Revisited." *Journal of Nonlinear Analysis* 1:339-372, 1977.

44. Hacker, C.S., D.W. Scott, and J.R. Thompson. "A Transfer Function Model for Mosquito Populations." *Canadian Entomologist* 107:243-249, 1975.
45. Hacker, C.S., D.W. Scott, and J.R. Thompson. "A Forecasting Model for Mosquito Population Data." *Journal of Medical Entomology* 10:544-551, 1973.
46. Hacker, C.S., D.W. Scott, and J.R. Thompson. "Time Series Analysis of Mosquito Population Data." *Journal of Medical Entomology* 10:533-543, 1973.

PAPERS IN PROCEEDINGS

47. Scott, D.W. (1999), "Remarks on Fitting and Interpreting Mixture Models," *Computing Science and Statistics*, K. Berk and M. Pourahmadi, Eds., 31, 104--109.
48. Szewczyk, W.F. and Scott, D.W. (1999), "Simplifying Mixture Models with Applications," *Computing Science and Statistics*, K. Berk and M. Pourahmadi, Eds., 31, 118--122.
49. Wojciechowski, W.C. and Scott, D.W. (1999), "Robust Location Estimation with L2 Distance," *Computing Science and Statistics*, K. Berk and M. Pourahmadi, Eds., 31, 292--295.
50. Salch, J.D. and D.W. Scott, (1997), "Data Exploration with the Density Grand Tour," *FI Statistical Graphics and Computing Newsletter*, ASA, Alexandria, VA, 8: 7-11, April, 1997.
51. Boeckenhauer, R.K., Ensor, K.B., Scott, D.W., and Bedient, P.B. (1996), "Visualization of Groundwater Contamination Data," *Computing Science and Statistics*, 27: 76-84.
52. Whittaker, G. and Scott, D.W. (1994), "Spatial Estimation and Presentation of Regression Surfaces in Several Variables Via the Averaged Shifted Histogram," *Computing Science and Statistics*, 26: 8-17.
53. Ensor, K.B., Sain, S.R., and Scott, D.W. (1992). Ozone Air Quality in Houston, 1980-1990. Proceedings of the ASA Statistical Graphics Section, pp. 39-48.
54. Scott, D.W. (1991). "Visualization of Low-Dimensional Statistical Data." Proceedings of the 48th Meeting of the ISI, Book 2, Cairo, Egypt, pp. 598-599.
55. Scott, D.W., M.C. Minnotte, and R.W. West (1991), "The Decline of the Kodiak Island King Crab" *1990 Proceedings of the Section on Statistical Graphics* pp. 134-139, American Statistical Association, Alexandria, VA.
56. Scott, D.W. (1990) "Statistical Data Analysis: How Far Will Computer Graphics Take Us?" *Proceedings of the Thirty-Fifth Army Conference on the Design of Experiments*, pp. 1-6, ARO, Research Triangle Park, August, 1990.

57. Scott, D.W. and Hall, M.R. (1989), "Interactive Multivariate Density Estimation in the S Language." *Proceedings of the 20th Interface of Computing Science and Statistics*, American Statistical Association, Alexandria, Virginia, pp. 241-245. Rice Technical Report 88-7-311, July, 1988.
58. Scott, D.W. (1986), "Choosing Smoothing Parameters for Density Estimators." *Computer Science and Statistics: Proceedings of the 17th Symposium on the Interface*, North-Holland, pp. 225-230.
59. Scott, D.W. "Experiences with Examining Large Multivariate Data Sets with Graphical Nonparametric Methods," *Proceedings of the Third Symposium on Mathematical Pattern Recognition and Image Analysis*, Department of Mathematics, Texas A&M University, pp. 141-148, February, 1986.
60. Scott, D.W. "Classification Using Multivariate Nonparametric Density Estimation," *Proceedings of the Sixth Annual National Computer Graphics Association Conference*, Volume III, 715-718, April, 1985.
61. Scott, D.W. and R. Jee. "Nonparametric Analysis of Minnesota Spruce and Aspen Tree Data and Landsat Data," *Proceedings of the Second Symposium on Mathematical Pattern Recognition and Image Analysis*, pp. 27-49, 1984.
62. Scott, D.W. "Multivariate Density Function Representation," *Proceedings of the Fifth Annual National Computer Graphics Association Conference*, Volume II, 794-801, May, 1984.
63. Scott, D.W. "Nonparametric Probability Density Estimation for Data Analysis in Several Dimensions." *Proceedings of the Twenty-Eighth Conference on the Design of Experiments in Army Research Development and Testing*, pp. 387-397, June, 1983.
64. Scott, D.W. "Multivariable Density Estimation and Remote Sensing." *Proceedings of the First Symposium on Mathematical Pattern Recognition and Image Analysis*, pp. 77-92, 1983.
65. Scott, D.W. and Thompson, J.R. "Probability Density Estimation in Higher Dimensions." *Proceedings of the 15th Symposium on the Interface of Computer Science and Statistics*, J.E. Gentle, Ed., North-Holland, Amsterdam, pp. 173-179, March, 1983.
66. Scott, D.W. "Review of Some Results in Bivariate Density Estimation." *Proceedings of the NASA Workshop on Density Estimation and Function Smoothing*, pp. 165-194, March, 1982.
67. Scott, D.W. "Using Computer-Binned Data for Density Estimation." *Computer Science and Statistics: Proceedings of the Thirteenth Symposium on the Interface*, W.F. Eddy, Ed., Springer-Verlag, New York, pp. 292-294, March, 1981.
68. Scott, D.W., R.A. Tapia, and J.R. Thompson. "Multivariate Density Estimation by Discrete Maximum Penalized-Likelihood Methods." *Graphical Representation of Multivariate Data*, Peter C.C. Wang, Editor, Academic Press, New York, 1978.

69. Scott, D.W., R.A. Tapia, and J.R. Thompson. "Karl Pearson Was Right." *Computer Science and Statistics: Tenth Annual Symposium on the Interface*, May, 1977.
70. Gorry, G.A. and D.W. Scott. "A Planning Model for Cardiopulmonary Resuscitation Training Programs." *Proceedings of the IEEE Conference on Systems, Man, and Cybernetics*, pp. 78-82, Nov., 1976.
71. Scott, D.W., R.A. Tapia, and J.R. Thompson. "An Algorithm for Nonparametric Density Estimation." *Computer Science and Statistics: Ninth Annual Symposium on the Interface*, pp. 287-292, May, 1976.

REVIEWS

72. Scott, D.W. "Review of 'Nonparametric Estimation of Probability Densities and Regression Curves,' E. A. Nadaraya, author," *J. Amer. Statist. Assoc.*, 85:598, May, 1990.
73. Scott, D.W. "Review of 'The New S Language,' R.A. Becker, J.M. Chambers, and A.R. Wilks, authors," *Technometrics*, 32:103-104, February, 1990.
74. Scott, D.W. "Review of 'Density Estimation for Statistics and Data Analysis,' B. W. Silverman, author," *Mathematical Reviews*, November, 1986.

TECHNICAL REPORTS

75. Scott, D.W. "Software for Univariate and Bivariate Averaged Shifted Histograms," Rice Technical Report 311-87-1 January, 1987.
76. Scott, D.W. "Handouts for ASA Short Course in Density Estimation," Rice Technical Report No. 776-331-86-2, June, 1986, 210 pp.
77. Scott, D.W. "Optimal Meshes for Histograms Using Variable-Width Bins." Rice Technical Report, August, 1982.
78. Terrell, G.R. and D.W. Scott. "Variable Window Density Estimates." Working paper presented at ASA meetings, Toronto, August, 1983.
79. Scott, D.W. "Some Computational Problems in Density Estimation." Rice Technical Report, March, 1982.
80. Scott, D.W. "Software for Cross-Validation of Density Estimates," Rice Technical Report 88-8-311.
81. Scott, D.W. "Statistics in Motion: Where Is It Going?" ASA 1989 Proceedings of Statistical Graphics Section, 1990, pp. 17-22, ASA, Alexandria, VA.

PAPERS SUBMITTED OR IN PROGRESS

82. Scott, D.W. and Kaggerly, K.A. "Comment on Paper by Jones, et al." JRSS-B, September, 1994.
83. Scott, D.W. "Constrained Oversmoothing in Regression and Density Estimation." Technical Report 92-8, 1992.
84. Scott, D.W. "Averaged Shifted Histogram," In *Encyclopedia of Statistical Sciences--Update*, John Wiley, New York, in press, 1995.
85. Sain, S.R. and Scott, D.W. (1995). "Zero-Bias Bandwidths for Locally Adaptive Kernel Density Estimation," Revision submitted to JRSS-B, August, 1997.
86. Scott, D.W. (1995). "Incorporating Density Estimation Into Other Exploratory Tools." Proceedings of the Statistical Graphics Section ASA, pp. 28--35, ASA, Alexandria, VA.
87. Otto, G.H. and Scott, D.W. (1996). "Joint Confidence Regions for Correlated Multidimensional Environmental Control Variables," *Proceedings of the Section on Statistics and the Environment*, American Statistical Association, pp. 71--76.
88. Scott, D.W. (1998). "Density Estimation," In *Encyclopedia of Biostatistics*, P. Armitage and T. Colton, eds. John Wiley, New York, pp. 1134--1139.
89. Whittaker, G., Srinivasan, R., Fare, R., and Scott, D.W. (1997). "Basin Scale Analysis of Agricultural Nonpoint Pollution Policy," Submitted to *Land Economics*.
90. Sagae, M. and Scott, D.W. (1997). "Bin Interval Method of Locally Adaptive Nonparametric Density Estimations," Submitted to AOS, December.
91. Scott, D.W. and Sagae, M. (1997). "Adaptive Density Estimation With Massive Data Sets," Proceedings of the Statistical Computing Section, ASA, pp. 104-108.
92. Whittaker, G. and Scott, D.W. (1998). "Applications of the Averaged Shifted Histogram in Environmental Economics," *Computing Science and Statistics*, Vol. 29, pp. 570--579.
93. Marson, M. and Scott, D.W. (1998). "Projection Pursuit via Decomposition of Bias Terms of Kernel Density Estimators," *Computing Science and Statistics*, Vol. 29, pp. 347--356.
94. Scott, D.W. (1998). "Comment on 'Model Indexing and Smoothing Parameter Selection in Nonparametric Function Estimation' by Chong Gu," *Statistica Sinica*, Vol. 8, pp. 629--632 (of pp. 607--646).
95. Whittaker, G. and Scott, D.W. (1999). "Nonparametric Regression for Analysis of Complex Surveys and Geographic Visualization," *Sankhya, Series B*, special issue on small-area sampling, P. Lahiri and M. Ghost, Eds., 61, 202--227.
96. Lane, D.M. and Scott, D.W. (2000). "Simulations, Case Studies, and an Online Text: A Web-Based Resource for Teaching Statistics," *Metrika*, special issue on Interactive Statistics, 51(1), 67--90.

97. Scott, D.W. (1998). "Parametric Modeling by Minimum L2 Error." Submitted to *J. American Statistical Association*.
98. Keating, J.P. and Scott, D.W. (1999). "A Primer on Density Estimation for the Great Home Run Race of '98," *STATS*, 25, 16--22.
99. Baggerly, K.A. and Scott, D.W. (1999). "Comment on Paper by R.Y. Liu, J.M. Parelus, and K. Singh," "Multivariate Analysis by Data Depth: Descriptive Statistics, Graphics and Inference," *Annals of Statistics*, 27, 843--844.
100. Scott, D.W. and Szewczyk, W.F. (2000), "The Stochastic Mode Tree and Clustering," submitted to *J. Comp. Graph. Stat.*.
101. Scott, D.W. and Szewczyk, W.F. (2001), "From Kernels to Mixtures," *Technometrics*, in press, August.
102. Wojciechowski, W.C. and Scott, D.W. (2000), "High-Dimensional Visualization Using Continuous Conditioning," *Computing Science and Statistics*, to appear.
103. Scott, D.W. (1998), "On Fitting and Adapting of Density Estimates," *Computing Science and Statistics*, S. Weisberg, Ed., 30, 124--133.
104. Scott, D.W. (2001), "Probability Density Estimation," *International Encyclopedia of the Social and Behavioral Sciences*, J. Harrison, ed., Elsevier Science, in press.

INVITED PRESENTATIONS AND CONFERENCES ATTENDED

- "Nonparametric Clustering," Invited talk, Conference on Nonparametrics in Large, Multidimensional Data Mining, SMU, Dallas, January 13, 2001.
- "Assessing Risk and Fairness: The Role of Statistical Science in Policy," Scientia Colloquium, Rice University, December 5, 2000; Sabre, Dallas, December 9, 2000; Statistics Colloquium, Los Alamos National Labs, December 15, 2000.
- "Clustering and Partial Mixture Estimation," Contributed talk, Army Conference on Applied Statistics, Houston, October 18, 2000.
- "Graphical Data Mining With Applications," Plenary talk, Taller Internacional de Minería de Datos, Colegio de Postgrado, Texcoco, Mexico, September 28, 2000. Panel discussion on Future of Data Mining, September 29, 2000.
- "The Role of Continuity in Visualization of High-Dimensional Data," Invited Presentation, Joint Statistical Meetings, Indianapolis, IN, August 17, 2000.
- "High-Dimensional Data Analysis, Visualization, and Nonparametric Function Estimation," Short Course (7 hours), III Taller de Computación Matemática, CIMAT, Guanajuato, Mexico, July 3-6, 2000.
- "Bank Failures, Household Income Distribution, and Robust Mixture Modeling," Invited Talk, Washington

Statistical Society, Washington, D.C., May 31, 2000.

“Robust Mixture Modeling and Data Mining Applications,” Invited Speaker, Data Mining Theme, Army Research Laboratory, Aberdeen, Maryland, April 27, 2000.

“Multivariate Density Estimation and Visual Clustering” Short Course, National Security Agency, March/April, 2000; Sabre, Inc., Spring, 2000.

“Remarks on Fitting and Interpreting Mixture Models,” Invited Talk, Institute for Defense Analysis, Bowie, Maryland, Spring, 2000.

“From Bumps to Modes to Statistical Clustering,” Invited Presentation, Sabre, Inc., Dallas, March 26, 2000.

“Feature Testing by Kernel Patches and Mixture Estimation,” invited presentation, ENAR/IMS meetings, Chicago, March 19, 2000.

“Robust Mixture Modeling and Applications,” Colloquium, Department of Statistics, Case Western Reserve University, March 3, 2000.

Attended, Third Annual DOE/MICS Workshop on Predictability of Complex Phenomena, December 6-8, 1999, Los Alamos; NAS Complex Modeling Workshop, December 3-4, 1999, Santa Fe.

“Robust Mixture Modeling and Applications,” Statistics Colloquium, Rutgers University, November 3, 1999; Keynote Address, Mid-Atlantic Probability and Statistics Day, University of Maryland Baltimore County, November 13, 1999; Colloquium, National Security Agency, 2000. Colloquium, Department of Statistics, George Washington University, Washington, D.C., January 21, 2000.

“Multivariate Spatial Estimation and Robust Estimation,” Invited Talk, National Academy of Sciences, Workshop on Statistical Methods for Reducing Uncertainty in Ocean Sciences Models, Washington, DC, September 13-14, 1999.

“Modeling the Stochastic Frontier with a Nonparametric Criterion,” Invited Talk, Joint Statistical Meetings, August 10, 1999, Baltimore, MD.

“After Maximum Likelihood, What? With Econometric Applications to Income Distribution Trends and Stochastic Frontier Modeling,” Invited Colloquium, SABRE Technology, November 6, 1998, Dallas; Invited Colloquium, Los Alamos National Laboratories, January 28, 1999; Invited Colloquium, Dept. of Math and Statistics, University of New Mexico, Albuquerque, January 29, 1999.

“After Maximum Likelihood, What? Fitting Mixtures With Applications to Income Distribution Trends and Stochastic Frontier Modeling,” Econometrics Seminar, Rice University, October 30, 1998; Mathematics Seminar, William and Mary, February 19, 1999; Mathematical Sciences Colloquium, Johns Hopkins University, September 14, 1999; Statistics Colloquium, Virginia Tech, October 21, 1999.

“Fitting Mixtures With Applications to Income Distribution Trends Using Minimum Distance Criteria,” Invited talk, Clifford Conference, Tulane University, New Orleans, Louisiana, October 23-25, 1998.

“After Maximum Likelihood, What? Remarks on Econometric Applications to Income Distribution Trends

- and Frontier Modeling,” Statistics Colloquium, Texas A&M University, October 1, 1998.
- “After Maximum Likelihood, What? Remarks on Fitting Mixtures With Applications to Income Distribution Trends and Frontier Modeling,” Statistics Colloquium, Rice University, October 14, 1998.
- “After Maximum Likelihood, What?” Mathematics Colloquium, National Security Agency, August 20, 1998; Mathematics Colloquium, IDA-CCR, Princeton, NJ, May 3, 1999.
- “Clustering Techniques with an Application to Tissue Typing using 3D MRI Slices,” Invited Talk, Image Research Workshop, Pittsburgh Supercomputer Center, July 26, 1998.
- “Structure Criteria and Visualization for Projection Pursuit,” Invited talk, Data Visualization in Statistics workshop, Drew University, Madison, New Jersey, July 6-10, 1998.
- “Remarks on Fitting Mixtures With Applications to Income Distribution Trends and Frontier Modeling,” Statistics Colloquium, University of Louvain-la-Neuve, Belgium, June 9, 1998.
- “On Fitting and Adapting of Density Estimates,” Invited talk, Houston Area Chapter of the American Statistical Association, Houston, May 12, 1998.
- “Statistics and Massive Data Sets: A New Look at Exploration Challenges and the Method of Moments,” Mathematics Colloquium, University of Arizona, Tucson, March 12, 1998.
- “Remarks on Fitting Mixtures With Applications to Income Distribution Trends and Frontier Modeling,” Statistics Colloquium, University of Louvain-la-Neuve, Belgium, March 4, 1998.
- “Nonparametric Regression for Geographical Visualization and Analysis of Complex Surveys,” (with Gerald Whittaker), Invited Paper, Current Topics in Survey Sampling Workshop, University of Nebraska, Lincoln, October 24-26, 1997.
- “Statistics and Massive Data Sets: A New Look at Exploration Challenges and the Method of Moments,” Invited Paper, San Diego Supercomputer Center Workshop on “Approaches to the Analysis Visualization of Massive Data Sets” March 14-15, 1997, San Diego; Invited Paper, University of Washington/Microsoft Summer Research Institute on Data Mining, July 7-11, 1997, Seattle; Invited Colloquium, SABRE Technology, July 18, 1997, Dallas; Invited Paper, 12th Annual Meeting of the Mexican Statistical Association, September 22-26, 1997, Mexico City; Invited Colloquium, Dept. of Statistics, Southern Methodist University, October 31, 1997, Dallas.
- “Adaptive Density Estimation With Massive Data Sets,” Contributed paper, ASA Annual Meeting, August 10-14, 1997, Anaheim, CA.
- “Clustering and Density Estimation With Massive Data Sets,” Invited paper, IMS Annual Meeting, July 28-31, 1997, Park City, Utah; Invited paper, Symposium on Nonparametric Functional Estimation, October 13-24, 1997, CRM, Universite de Montreal; Statistics Colloquium, University of Louvain-la-Neuve, Belgium, March 4, 1998.
- “Applications of the Averaged Shifted Histogram in Environmental Economics,” (with Gerry Whittaker), and “Dimension Reduction Via Kernel Bias Decomposition,” (with Mark Marson), Invited Papers 29th Interface of Computing Science and Statistics, May 14-17, 1997, Houston.
- Director, RIMS (Rice Institute for Mathematical Sciences), Summer 1996, 1997, and 1998; Series of Lectures on Pattern Recognition and Nonparametrics, with guest lecturers, some 15 undergraduate and graduate Rice students each summer.

- “Remarks on Making Smoothing Methods Work Better in Several Dimensions,” Invited Paper, Nonparametric Function Estimation Workshop, NYU Stern School, May 30, 1997, New York City.
- “Bumps Along the Road Towards Multivariate Mode Trees,” (with William Szewczyk) Invited talk, NSF Workshop on Bumps, Jumps, Clustering and Discrimination, May 11-14, Houston.
- “Locally Adaptive Density Estimation: Theory and Application,” Invited Presentation, Workshop on the Art of Nonparametric Statistics: Methodologies and Applications, February 19-21, 1997, Louvain-la-Neuve, Belgium.
- “Visualization and Exploration of Statistical Data,” Keynote Address, 13th Annual Ohio Statistics Conference, The Cleveland Clinic Foundation, November 22, 1996, Cleveland, Ohio.
- Fourth Invitational Mathematics Meeting, NSA, Fort Meade, November 17-19, 1997.
- “Remarks on Improved Density Estimation in the Tails,” Invited paper, IMS-SISC Congress, July 11, 1996, Sydney, Australia.
- “Remarks on Locally Adaptive Kernel Density Estimation,” Invited paper, Workshop on Future of Smoothing, July 2, 1996, Canberra, Australia; Colloquium, Department of Statistics, George Mason University, September 6, 1996; Invited paper, ASBMB Workshop on Biochemistry, October 26, 1996, Whistler, Canada; Colloquium, Department of Statistics, Case Western Reserve University, November 21, 1996; Colloquium, Department of Statistics, Ohio State University, March 6, 1997.
- “Adaptive Kernel Density Estimation,” Colloquium, Department of Statistics and Probability, Michigan State University, January 12, 1996, Lansing, Michigan.
- “Visual Clustering, Modes, and Nonparametric Density Estimation,” Campus Theory Seminar, Michigan State University, January 11, 1996, Lansing, Michigan.
- “Histogram Estimation with Censored Data and Spatial Smoothing,” Invited paper, Smoothing and Resampling in Economics Conference, October 4-7, 1995, Berlin, Germany.
- “The Density Grand Tour: A New Visualization Tool,” Invited paper, Satellite Workshop on Dynamic Statistical Graphics, July 7, 1996, Macquarie University, Sydney, Australia; Invited paper, Paris-Berlin Seminar on Mathematical Statistics, September 25-29, 1995, Schmerwitz, Germany.
- “Incorporating Density Estimation Into Other Exploratory Tools,” Special contributed paper, Annual Meeting of the ASA, Orlando, FL, August 15, 1995.
- “ ‘X’ Years From the Grand Tour,” Discussion of papers by Buja, Cook, and Stuetzle, Annual Meeting of the ASA, Orlando, FL, August 14, 1995.
- “Multivariate Applications of the ASH in Regression,” Invited paper, IMS Regional Meeting, Iowa City, May 15, 1995; Colloquium, Bureau of Labor Statistics, Washington, D.C., February 24, 1997 (with Gerald Whittaker).
- “A Day in the Life of a Statistician: Research and Teaching,” Lecturer, 5 periods, pre-calculus, Bellaire High School, May 9, 1995; March 21, 1997.
- “Data Understanding and Visualization,” Keynote Address, Conference of Texas Statisticians, Trinity University, San Antonio, TX, April 7, 1995.

Discussant, Paper by R.O. Wells, Scientia, Rice University, February 21, 1995.

“Unusual Regressions: Coping With Practical Problems,” Invited Presentation, Groundwater Session, SIAM, San Antonio, February 8, 1995; Sabre, Inc., Dallas, January 10, 2000; CIMAT, Guanajuato, Mexico, July 5, 2000.

“Spatial Mapping with Several Covariates, Adaptive Smoothing, and Clustering,” Colloquium, Rand Corporation, Santa Monica, CA, November 17, 1994.

“Regression, Clustering, and Modes,” Colloquium, Dept. Statistics, Rice University, November 7, 1994.

“Making Sense of Data: Computer-Aided Pattern Discovery,” Short Course (John Elder main instructor), Continuing Education Dept, Rice University, October 13-14, 1994; ASA Continuing Education, Chicago, August 4, 1996.

“Overview of the Mode Tree and Nonparametric Methods for Clustering and Discrimination,” Colloquium, CML Research Group, Rice University, September 23, 1994.

“The Mode Tree and Multivariate Classification” Special Invited Paper, Annual Meeting of the ASA, Toronto, CA, August 17, 1994.

Discussant of papers by Trevor Hastie, Peter Green, and Randy Eubank, “Fitting Curves to Data: How to Do It”, Annual Meeting of the ASA, Toronto, CA, August 17, 1994.

“Statistical Graphics Section: Spending Section Funds and New Initiatives,” ASA Annual Meeting, Round Table Luncheon, Toronto, CA, August 15, 1994.

“Overview of Nonparametric Density Estimation and Regression Estimation” Colloquium, Federal Reserve Bank, Washington, DC, July 5, 1994.

“Spatial Estimation and Presentation of Regression Surfaces in Several Variables Via the Averaged Shifted Histogram” Invited Talk, Interface of Computer Science and Statistics, Research Triangle Park, NC, June 17, 1994.

“Algorithms for Estimation and Visualization of Multivariate Density Functions with Applications to Clustering” Short Course, Interface of Computer Science and Statistics, Research Triangle Park, NC, June 15, 1994.

“Visualization and Estimation of Density Functions of Three and Four Dimensional Geological Data” Invited presentation, Annual Meeting of the American Geophysical Union, Baltimore, MD, May 24, 1994.

Discussant of paper by J. Whittaker on “Mapping and the Averaged Shifted Histogram”, Washington Statistical Society, January 31, 1994.

“Visual Clustering, Modes, and Nonparametric Density Estimation” Colloquium, Department of Math and Statistics, American University, Washington, DC, November 30, 1993; Colloquium, Cryptology-Mathematics Institute, NSA, January 6, 1994; Invited presentation, Annual Meeting of the VA/MD/DC Chapter of the Mathematical Association of America, University of St. Mary’s, St. Mary’s City, Maryland, April 15-16, 1994; Invited talk, Washington Statistical Society, ASA, Bureau of Labor Statistics, Washington, DC, May 4, 1994; Stephen F. Austin University, Nacogdoches, TX, October 21, 1994; Colloquium, Houston Area Chapter of the ASA, November 8, 1994.

- “Elements of Histogram Estimation” Round table discussion, Medical Research Council, Tygerberg, Capetown, South Africa, November 15, 1993.
- “Finding Structure in Multivariate Data Using Density Estimators and Advanced Visualization” Colloquium, Sandoz Pharmaceuticals Co, East Hanover, NJ, October 5-6, 1993.
- “Introduction to Data Visualization” and “From Histograms to Kernel Estimators” Keynote Speaker, Annual Meeting of the SASA, University of Natal, Pietermaritzburg, South Africa, November 3--5, 1993.
- “Quality of Estimation and Issues in Bandwidth Selection” Address, Joint meeting of ORSSA and SASA, Johannesburg, South Africa, November 8, 1993.
- “Multivariate Density Estimation and the Curse of Dimensionality” Invited talk, National Institutes of Health, October 14, 1992; National Security Agency, October 15, 1992; Colloquium, SUNY Albany, March 26, 1993; Colloquium, Department of Statistics, East Lansing, MI, April 29, 1993; Colloquium, Department of Mathematics, Michigan Tech University, Houghton, MI, February 17, 1994; Colloquium, Department of Statistics, Bell Labs, Murray Hill, NJ, April 28, 1994.
- “Multivariate Density Estimation and Visual Clustering” Short Course, Classification Society of North America, University of Pittsburgh, June 24, 1993; Short Course, Army Research Office Design of Experiments Conference, Rice University, October 18-19, 1993; Short Course, National Security Agency, Fort Meade, MD, April 5 - May 17, 1994; Short Course, Annual Meetings of the American Statistical Association, Toronto, Canada, August 13, 1994.
- “Nonparametric Density Estimation as an Aid to Tissue Characterization in Magnetic Resonance Imaging” Contributed Poster, 3rd Keck Symposium on Computational Biology, Houston, November 1-3, 1992, with R.K. Hutson.
- “Visualization of Response Surfaces in Several Variables” Invited lecture, 38th Conference on the Design of Experiments in Army Research, Development, and Testing, Santa Monica, CA, October 28-30, 1992.
- “Modern Statistics, Exploring Multivariate Data, and Computer Visualization” Invited Talk, Rice University High School NSF Math Project, September 26, 1992; High School NSF Math Project, June 10, 1993.
- “Cross-Validation of Multivariate Density Estimates” Colloquium, Department of Statistics, Rice University, September 21, 1992; National Security Agency, January 4, 1993; Interface of Computer Science and Statistics, San Diego, April 15-17, 1993; Colloquium, Department of Statistics, Michigan State University, April 28, 1993; Colloquium, Department of Statistics, George Mason University, September 17, 1993; Colloquium, Department of Mathematics, Michigan Tech University, Houghton, MI, February 18, 1994.
- “Visualization of Multivariate Data Through Nonparametric Estimators” Invited Talk, ASA Annual Meeting, Boston, MA, August 11, 1992.
- “Stimulating Research in Statistical Graphics,” ASA Annual Meeting, Round Table Luncheon, Boston, MA, August 11, 1992.
- “Ozone and Air Quality in Houston, 1980-1990” Invited Talk, ASA Annual Meeting, Boston, MA, August 12, 1992 (joint with K. Ensor).

- “Extensions of Oversmoothed Bandwidth Rules to Regression” Invited talk, IMS Regional Meeting, Corvallis, OR, June 17, 1992.
- “Multivariate Density Estimation” Series of six invited talks at the 15th Finnish Summer School in Probability, Lahti, Finland, June 1-5, 1992.
- “Statistical Aspects of the Ozone Problem in Houston” Invited presentation, Texas Air Quality Board, Austin, TX, February 4, 1992.
- “Visualization and Quality of Multidimensional Statistical Functions” Colloquium, Department of Mathematics and Statistics, University of Texas, El Paso, January 31, 1992; Colloquium, University of Texas School of Management, February 4, 1992; Interface of Computer Science and Statistics, College Station, March 19, 1992; Department of Statistics, Rice University, March 30, 1992; Department of Mathematics, Rice University, April 1, 1992; Invited colloquium, Mathematical Sciences Research Institute, Berkeley, CA, May 13, 1992.
- “Unusual Regressions” Speech, Austin Chapter of the American Statistical Association, February 4, 1992; Invited lecture, National Computer Graphics Association, Anaheim, CA, March 12, 1992; Invited colloquium, Keck Symposium, Rice University, May 8, 1992; Invited colloquium, Department of Statistics, Stanford University, May 12, 1992; Invited colloquium, Department of Math, Sam Houston State, February 5, 1993; Invited colloquium, San Antonio Chapter of the ASA, April 21, 1993; Invited colloquium, Department of Statistics, University of Wits, Johannesburg, South Africa, November 9, 1993; Invited colloquium, Department of Statistics, University of Orange Free State, Bloemfontein, South Africa, November 10, 1993; Invited colloquium, Department of Statistics, University of Cape Town, South Africa, November 12, 1993; Colloquium, Delaware/Maryland ASA Chapter, Aberdeen, MD, March 10, 1994.
- “Visualization and Animation of Statistical Functions,” Invited lecture, 37th Conference on the Design of Experiments in Army Research, Development, and Testing, Vicksburg, MS, October 23-25, 1991.
- “Variations on Oversmoothed Bandwidth Rules” Contributed Lecture, Annual Meeting ASA, Atlanta, GA, August 19-22, 1991.
- Invited lecturer, 48th Session ISI, “Visualization of Low-Dimensional Statistical Data,” Cairo, Egypt, September 10, 1991.
- Invited lecturer, Annual Meeting, South Carolina ASA Chapter, April 26, 1991, “Density Estimation.”
- Invited lecturer, Clemson University, April 22-26, 1991: “Scientific Visualization and Multidimensional Statistical Functions”; “Quality of Estimation of Multidimensional Surfaces”; “Multivariate Adaptive Procedures and Projection.”
- “Visualization and Quality of Multidimensional Statistical Functions” research seminar, IMSL, Inc., Houston, February 8, 1991; Workshop on Trends in the Analysis of Curve Data, University of Heidelberg, March 18-21, 1991.
- “Multivariate Nonparametric Function Estimation and Visualization,” ONR Workshop -- New Directions in Statistics, Arlington, VA, November 19, 1990.
- “Analysis of King Crab Data,” Poster Session, ASA Annual Meeting, Anaheim, August 6, 1990.

- “Adaptive Smoothing and High--Dimensional Performance,” Invited talk, IMS Annual Meeting, Uppsala, Sweden, August 14, 1990.
- “Quality of Multivariate Density Estimation,” Invited talk, Workshop on “Function Estimation and Statistical Applications,” MSI, Cornell University, June 14-16, 1990.
- “Multivariate Function Estimation and Visualization,” Invited talk, Statistical Computing Conference, UT Austin, May 18, 1990.
- Ulf Grenander conference, November 11-13, 1989.
- “Statistical Data Analysis,” Keynote Presentation, Thirty-Fifth ARO Design of Experiments Conference, Monterey, CA, October 18-19, 1989.
- “Some Reflections on Estimation and Visualization of Multivariate Density Functions,” Invited talk, Institute of Mathematics and Its Applications, Minneapolis, MN, August 18, 1989.
- “Statistics in Motion: Where Is It Going?,” Invited talk, ASA session “Is Real-Time Rotation Useful?,” Washington, D.C., August 8, 1989.
- “Visualizing Structure in High-Dimensional Data Using Density Estimation and Computer Graphics,” Invited colloquium, Naval Postgraduate School, October 12, 1988; Invited colloquium, Texas A&M University, October 26, 1988; Invited colloquium, University of North Carolina, November 7, 1988; Invited colloquium, University of Iowa, November 18, 1988; Invited colloquium, University of Rochester, November 28, 1988; Invited colloquium, Southern Methodist University, January 27, 1989; Invited colloquium, University of Chicago, April 3, 1989; Invited colloquium, Yale University, December 11, 1989; Invited colloquium, Utah State University, January 25, 1990.
- Invited participant, NSF-CBMS Regional Conference on Modern Computer Intensive Methods for Exploring and Modeling Multivariate Data, Jerome H. Friedman, Lecturer, George Washington University, June 12-16, 1989.
- “Computer Graphics and Statistics,” Invited colloquium, University Texas School of Public Health, March 20, 1989; Springwoods High School, May 11, 1989.
- “The NeXT Computer Introduction,” invited developers meeting, San Francisco, October 12-13, 1988.
- “Unix Workstations: Constructing an Integrated Environment for Statistical Research, Education, and Administration,” SREB Summer Research Conference in Statistics, Holiday Island, Arkansas, June 20, 1988.
- “Recent Advances in Statistical Graphics,” Invited colloquium talk, NSF School Mathematics Project, Rice University, June 16, 1988.
- “Interactive Multivariate Density Estimation in the S Package,” Invited Talk, Interface Conference, April 22, 1988; Organizer of invited paper session entitled “Density Estimation and Smoothing” for the 20th Interface of Computer Science and Statistics meeting in Washington, D.C., April 21-23, 1988: Speakers W. Haerdle, M. Tarter, D. Scott.
- “Exploring Multivariate Data from Mount St. Helens,” Invited Talk, American Statistical Association, Civic Center, San Francisco, August 20, 1987.

- Organizer of invited paper theme session for ASA Statistical Graphics Section entitled “Applications of Recent Methodology in Statistical Graphics for Nonspecialist” at ASA San Francisco meeting, August 20, 1987: Speakers J. Wendelberger, D. Scott, M. Greenacre, and E. Wegman.
- “Efficient Density Estimation in High Dimensions,” Colloquium, Wirtschaftstheoretische Abteilung II, University of Bonn, June 25, 1987; Statistical Computing Conference, Gunzburg, GDR, July 8, 1987.
- “Computational Issues and Examples in Multivariate Density Estimation,” Invited Talk, Army Research Conference on Computational Statistics, George Mason University, Fairfax, Virginia, June 3-5, 1987.
- “How Far Will Computer Graphics Take Us?” Invited Talk, The Biometric Society, Dallas, Texas, March 23, 1987: in IMS session “Statistics and the Computer Revolution: What Does the Future Hold?” with Bill Eddy (organizer) and Paul Tukey.
- Organizer of invited paper session for ASA Statistical Graphics Section at the Biometric Society Meeting, Dallas, Texas, March 23, 1987: “New Methods in Statistical Graphics,” Speakers: K. Ruben Gabriel, Barry W. Brown, and Andrew Donoho.
- “Density Estimation as a Tool for Multivariate Graphical Data Analysis,” Colloquium, Dept. of Statistics, North Carolina State University, January 30, 1987; Dept. of OR and Statistics, George Mason University, March 6, 1987; Dept. of Statistics, Penn State University, April 30, 1987; Dept. of Statistics, University of Kentucky, October 2, 1987; Western Research, Western Geophysical, Houston, October 28, 1987; Dept. of Mathematics, University of Texas - San Antonio, November 12, 1987; Dept. of Mathematics, Trinity University, November 13, 1987. Dept. of Statistics, University of Toronto, January 28, 1988;
- ASA Regional Meeting, Orlando, FL, January 8-9, 1987; “Density Estimation in Data Analysis,” Hands-on demonstration of ASH software on Macintosh; Discussant of papers by A. Buja and J. Bentley on “Graphics and Computing.”
- Short Course “Density Estimation for Statistics and Data Analysis,” American Statistical Association, Palmer House, Chicago, August 16-17, 1986, 1.20 CEU’s, (with Bernard Silverman).
- “Comparative Analysis of Selected Data Sets Using Density Estimation,” Invited poster session, ASA Annual Meeting, Chicago, August 19, 1986.
- “Biased and Unbiased Cross-Validation for Nonparametric Density Estimators,” Colloquium, Dept. of Statistics, Stanford, January 21, 1986; Colloquium, Dept. of Mathematics, U.C. San Diego, June 3, 1986; invited research seminar, Battelle Pacific Northwest Laboratories, Richland, WA, July 15, 1986; Colloquium, Dept. of Math Sciences, Rice University, October 20, 1986; Colloquium, Dept. of Statistics, Texas A&M University, October 24, 1986; research seminar, IMSL, Inc., Houston, November 21, 1986; Houston Chapter of ASA, January 13, 1987; Colloquium, Dept. of Statistics, University of North Carolina, Chapel Hill, February 2, 1987; invited talk, NSF-CBMS Regional Conference on Spline and Partial Spline Models in Statistics, Grace Wahba lecturer, Ohio State University, March 24 (23-27), 1987; invited talk, Semiparametric and Nonparametric Inference Conference, University of Western Ontario, May 24, 1987; Colloquium, Wirtschaftstheoretische Abteilung II, University of Bonn, July 2, 1987.
- “Modern Data Analysis in Several Variables with Large Samples,” invited research seminar, Battelle Pacific Northwest Laboratories, Richland, WA, July 15, 1986.

Session leader, AMS Summer Research Conference on Graphics, Human Interfaces, and Programming Paradigms for Data Analysis, University of Santa Cruz, CA, June 30- July 3, 1986.

“A Look at Earthquakes Preceding the March 20, 1982 Eruption of Mount St. Helens,” Invited Talk, National Computer Graphics Association, Anaheim, CA, May 15, 1986; colloquium, Dept. of Geophysics & USGS, University of Washington, July 14, 1986.

Eighteenth Interface of Computer Science and Statistics, Fort Collins, CO, March 19-21, 1986.

“Empirical Modeling of the Response Time of Houston’s Ambulance System,” Colloquium, Dept. of Statistics, Stanford University, February 6, 1986; Sabre, Inc., Dallas, March 9, 2000.

“Density Curve Estimation and Representation in 3 and 4 Dimensions,” ISI, Maastricht, Netherlands, August 23, 1985; Colloquium, Dept. of Statistics, Berkeley, September 10, 1985; Colloquium, Division of Statistics, U.C. Davis, October 10, 1985; Research Seminar, Becton-Dickinson, December 11, 1985; Colloquium, Dept. of Mathematics, U.C. San Diego, June 2, 1986.

“Graphical Multivariate Classification and Discrimination Using Nonparametric Density Estimation,” seminar, Dept. of Statistics, Stanford University, July 9, 1985.

AMS Joint Summer Research Conference on Function Estimates, Humboldt State, July 28-August 3, 1985.

“Experiences with Examining Large Multivariate Data Sets with Graphical Nonparametric Methods,” NASA/MPRIA Symposium, Texas A&M University, June 9-11, 1985; Remote Sensing Seminar, Dept. of Statistics, Stanford University, July 22, 1985, Paul Switzer, organizer.

“Classification Using Multivariate Nonparametric Density Estimation,” NCGA, April 15-17, 1985.

“Using Workstations for Nonparametric Discrimination,” Texas Conference of Statisticians/IMS, Austin, TX, March 28-30, 1985; College Station, 1987; Waco, 1988 (Organizer: Haerdle, Ensor, and Johnstone).

“Choosing Smoothing Parameters for Nonparametric Kernel Density Estimators,” Interface of Computer Science and Statistics, Lexington, KY., March 19, 1985.

“New Graphical Methods for Examining Multivariate Data Sets with Computer Workstations,” Invited colloquium lecture, Dept. of Mathematics and Statistics, Stephen F. Austin University, Nacogdoches, TX, October 22, 1984; Research seminar, IMSL, Inc., Houston, TX, November 16, 1984.

“Graphical Methods for Examining Multiple Channel Image Data,” Houston Digital Imaging Series, Engineering, U. of Houston, October 4, 1984.

“A New Look at Raw 4-D Landsat Data,” ASA Annual Meeting, Philadelphia, August 13-16, 1984.

“New Graphical Techniques for Analyzing Large Multivariable Medical Data Sets,” colloquium, U. Houston Clear Lake City, July 25, 1984.

“Nonparametric Analysis of Minnesota Spruce and Aspen Tree Data and Landsat Data,” (with R. Jee), Symposium on Mathematical Pattern Recognition and Image Analysis, NASA/JCS, Houston, June 6-8, 1984.

“Another Look at Fisher’s Iris Data Using 4-D Density Estimation,” invited talk, SREB Summer Research

Conference in Statistics, DeGray Lodge, Arkansas, June 10-15, 1984.

“Multivariate Density Function Representation,” invited talk, National Computer Graphics '84, Anaheim, California, May 15, 1984.

“Nonparametric Density Estimation for Three and Four Dimensional Data Analysis and Computer Graphical Representation” and “Introduction to Practical Nonparametric Density Estimation in One and Two Dimensions,” colloquia, presented to the Departments of Mathematics and Geography, respectively, University of California at Santa Barbara, March 7-8, 1984.

SREB representative, Gainesville, Florida, October, 1983.

“Density Estimation in Three and Four Dimensions and Applications in Data Analysis, Remote Sensing, Image Processing, and Oceanography,” ONR, Research Seminar, Oceanography Site Visit, Texas A&M University, September 26, 1983; Annual Meeting American Statistical Association, Toronto, August 18, 1983; NASA Symposium on MPRIA: Mathematical Pattern Recognition and Image Analysis, JSC, June 1-3, 1983; ONR Statistical Image Processing and Graphics Workshop, Luray, Virginia, May 25-27, 1983; ARO, Aberdeen Proving Grounds, May 24, 1983; 15th Interface of Computer Science and Statistics, Houston, March 17-18, 1983;

“Nonparametric Probability Density Estimation as a Tool for Data Analysis,” invited talk, Twenty-Eighth Conference on the Design of Experiments in Army Research Development and Testing, Monterey, CA, October 20-22, 1982. Also presented at the Johnson Space Center research seminar, November 5, 1982 and at the Mathematical Sciences colloquium, Rice University, October 18, 1982.

“Optimal Meshes for Histograms Using Variable-Width Bins,” poster session, ASA Annual Meeting, Cincinnati, Ohio, August 16-19, 1982.

Computer Science and Statistics: 14th Symposium on the Interface, RPI, Troy, NY, July 6-7, 1982.

“Some Computational Problems in Density Estimation,” invited talk, Biometrics ENAR meeting, San Antonio, TX, March 14-17, 1982.

“Review of Some Results in Bivariate Density Estimation,” invited talk, NASA Workshop on Density Estimation and Function Smoothing, Texas A&M University, College Station, TX, March 11-13, 1982.

Conference on Scientific Inference, Data Analysis, and Robustness, University of Wisconsin, Madison, November 4-6, 1981.

“Frequency Polygons and the Quantile Function,” NSF conference on Quantile Processes, Texas A&M University, College Station, TX, July 8, 1981.

SREB Summer Conference, DeGray Lodge, Arkansas, June, 1981.

“Nonparametric Density Estimation Theory and Applications in Medicine,” invited colloquium lecture, Dept. of Mathematics and Statistics, Stephen F. Austin University, Nacogdoches, TX, March 23, 1981.

“Using Computer-Binned Data for Density Estimation,” poster session, Computer Science and Statistics: 13th Symposium on the Interface, Pittsburgh, PA, March 12-13, 1981.

“Relaxing Model Assumptions in Medical Data Analysis Using Nonparametric Density Estimation,” invited colloquium lecture, Department of Preventive Medicine, Medical College of Wisconsin, Milwaukee, WI, December 9, 1980.

ASA Annual Convention, Houston, TX, August, 1980.

“Applications of Nonparametric Density Estimation to Medical Data,” invited talk, Southeast Texas Chapter, ASA, Institute of Statistics, Texas A&M University, College Station, TX, February 28, 1980.

“Analysis of Risk Factors Using Nonparametric Density Estimation,” invited talk, Department of Biostatistics, University of North Carolina, Chapel Hill, NC, October 17, 1979.

“Comment on the Invited Paper by I.J. Good and R.A. Gaskins,” ASA Annual Meeting, Washington, D.C., invited discussant with E. Parzen, W. Eddy, and M. Tarter, Washington, D.C., August 14, 1979.

“Patterns of Risk Factors and the Severity of Coronary Artery Disease,” Cardiovascular Center, Baylor College of Medicine, Houston, TX, December 28, 1978.

“Multivariate Density Estimation by Discrete Maximum Penalized Likelihood Methods,” Naval Postgraduate School, Monterey, CA, February 23-25, 1978.

“Statistical Capabilities of the IMSL Library,” ASA Annual Meeting, Round Table Luncheon, San Diego, CA, August 15, 1978.

“A Model of Ambulance Response Time,” Cardiovascular Center, Baylor College of Medicine, Houston, TX, January 9, 1978; Colloquium, UTSPH, Jan. 24, 1978; Colloquium, Rice University, December 5, 1977; Masc 300, Model Building, Rice University, Oct 11, 1977, Nov 6, 1979, Jan, 1982.

“New Frontiers in Nonparametric Density Estimation,” M.D. Anderson Hospital and Tumor Institute, Department of Biostatistics, April 28, 1977; Vanderbilt University, Spring, 1976.

“Statistics for reading Medical Journals” and “Statistical Thinking and Testing,” Department of Anesthesiology Didactic Lectures, Baylor College of Medicine, March 14, 1977 and October 11, 1978; Department of Pediatric Cardiology, Texas Children’s Hospital and St. Lukes Hospital, November 30 and December 7, 1978.

COURSES ORIGINATED AT RICE

MaSc 686 “Nonparametric Biometric Models for Risk Assessment”

MaSc 687 “Statistical Computing and Simulation”

Stat 682 “Clustering and Discrimination”

COURSES TAUGHT

- MASC 280 - Fall 79, "Probability and Statistics for Social Scientists"
- MASC 300 - Spring 82-85, "Model Building"
- STAT 310 - Spring 92,93 Fall 94 Spring 01 "Introduction to Probability and Statistics"
- STAT 331 - Fall 98 "Applied Probability"
- MASC 382 - Fall 80-84, 86, Spring 87 "Introduction to Probability and Statistics"
- STAT 410 - Spring 92,93,95,96,97,99 "Statistical Computing and Regression"
- MASC 476 - Spring 80 and 81, "Stochastic Operations Research"
- MASC 480 - Spring 76, 77, 78, 79 and 82, "Introduction to Statistical Methods"
- MASC 481 - Fall 77, "Mathematical Statistics"
- STAT 481 - Fall 87-89, "Mathematical Statistics I"
- STAT 482 - Spring 88-90, "Mathematical Statistics II"
- STAT 487 - Spring 90, "Multivariate Analysis"
- STAT 541 - Spring 01, "Multivariate Analysis"
- STAT 550 - Spring 96 "Nonparametric Functional Estimation"
- MASC 587 - Spring 84, "Time Series Analysis"
- MASC 588 - Spring 87, "Nonparametric Density Estimation"
- STAT 589 - Spring 89,91 "Nonparametric Functional Estimation"
- MASC 589 - Fall 84, "Nonparametric Density Estimation"
- STAT 682 - Spring 95, Fall 96 "Clustering and Discrimination"
- STAT 682 - Fall 97 "Nonparametric Functional Estimation"
- STAT 682 - Fall 99 "Pattern Recognition and Cluster Analysis"
- MASC 686 - Fall 79, "Nonparametric Methods in Risk Analysis"
- STAT 686 - Spring 88, "Statistical Computing and Simulation"
- MASC 687 - Spring 81, "Statistical Computing and Simulation"
- STAT 300 - Summer 85, "Nonparametric Density Estimation," Dept. Statistics, Stanford