

Simon J. Sheather

Position: Professor and Department Head
Department of Statistics, Texas A&M University

Tertiary Education and Qualifications:

1981 Bachelor of Science (1st Class Honours) in Mathematical Statistics, The University of Melbourne.
1986 PhD in Statistics, La Trobe University, Thesis advisor J.S. Maritz.

Awards:

1991, 1997, 2000 AGSM Alumni Association Award for Excellence in Teaching.
1994 University of New South Wales Vice Chancellor's Award for Teaching Excellence.
2001 Elected a Fellow of the American Statistical Association.
2002 Inaugural AGSM Award for Excellence in Research
2003 Citation based ranking in the top 200 mathematicians worldwide¹
2006 Listed on ISI Highly Cited.com among the top one-half of one percent of all mathematical scientists, in terms of citations of published work
2008 American Statistical Association, Statistics in Chemistry Award

Academic Career History:

1986–1987 Lecturer and Deputy Director, Statistical Consulting Centre, Department of Statistics, University of Melbourne.
1987 Visiting Associate Professor, Department of Statistics, Pennsylvania State University.
1987–2005 Australian Graduate School of Management (AGSM), University of New South Wales
Lecturer: 1987–1989
Senior Lecturer: 1989–1993
Associate Professor: 1994–1997
Professor: 1998–2005
2001 Visiting Professor, Statistics Department, Stern School of Business, New York University.
2005– Professor & Department Head, Department of Statistics, Texas A&M University
2007– Adjunct Professor of Biostatistics, University of Texas, M. D. Anderson Cancer Center

¹The July 2003 issue of the *Australian Mathematical Society Gazette* provides a worldwide ranking of mathematicians (which includes all those from the fields of pure mathematics, applied mathematics and statistics) based on citations of published work over the period from 1 January 1993 to 28 February 2003.

External Recognition:

Membership of Editorial Boards:

1991–1993	Associate Editor of <i>Journal of the American Statistical Association</i>
1991–1996	Associate Editor of the <i>Australian Journal of Statistics</i>
1993–2003	Co-editor of the Springer monographs on <i>Statistics and Computing</i> .
1997	Editor of the <i>Australian Journal of Statistics</i>
1998–2001	Inaugural Managing Editor and Theory & Methods Editor of the <i>Australian and New Zealand Journal of Statistics</i> ²

Peer Review for Granting Bodies:

2001	Invited member of the U.S. National Science Foundation (NSF) Grant Proposal Screening Panel in Statistics
2002–2004	Invited Member of the Expert Advisory Committee on Mathematics, Information & Communication Sciences for the Australian Research Council

Invited Presentations at Conferences:

1. Invited Paper, “Estimating the Standard Error of Robust Regression Estimates”, STATCOMP 1987, Melbourne, Australia, May, 1987.
2. Invited Paper, “Assessing the Accuracy of the Sample Median: Estimated Standard Errors Versus Interpolated Confidence Intervals”, First International Conference on Statistical Data Analysis Based on the L_1 -Norm and Related Methods, Neuchatel, Switzerland, September, 1987.
3. Invited Talk, “An Edgeworth Expansion for Studentized Quantiles”, Workshop on Small Sample Asymptotics, La Trobe University, Melbourne, Australia, July, 1988.
4. Invited Talk “Diagnostics for Robust Regression”, Institute for Mathematics and its Applications Summer Program on Robustness, and Diagnostics, University of Minnesota, Minneapolis, July-August, 1989.
5. Invited Talk “Reliable Bandwidth Selection for Kernel Density Estimation”, Institute of Mathematical Statistics Meeting, Baltimore, Maryland, April, 1990.
6. Invited Talk “Standardizing Residuals from a Robust Regression”, Statistical Society of Australia Biennial Conference, Sydney, Australia, July, 1990.
7. Invited Talk “The Use and Interpretation of Residuals Based on Robust Estimation”, First Great Lakes Symposium, Kalamazoo, Michigan, June 1992.
8. Invited Participant in Workshop on Semiparametric Methods in Regression, Keystone, Colorado, June, 1992.
9. Invited Paper “Interpreting Plots of L_1 -Residuals”, Second International Conference on Statistical Data Analysis Based on the L_1 -Norm and Related Methods, Neuchatel, Switzerland, August, 1992.
10. Invited Talk “Measurement of Customer Satisfaction”, Royal Institute of Public Administration Conference, Sydney, April, 1993.

²Responsibilities included:

- Drafting the agreement between the Statistical Society of Australia and the New Zealand Statistical Association to merge the journals of both entities.
- Negotiating the commercial agreement with Blackwell Publishers to publish the new journal.
- Negotiating with ISI for the new journal to be included in the Science Citation Index.

11. Invited Paper "Time Series Modelling of Metal Pollutant Concentrations in Sludge", Australia-Japan Workshop in Stochastic Models in Engineering and Management, Gold Coast, Australia, July 1993.
12. Invited Talk "Markov Chain Monte Carlo Estimation of Time Series Models", STATCOMP93, University of Wollongong, September 1993.
13. Invited Talk "Bandwidth Selection for Local Polynomial Kernel Smoothers", Second Great Lakes Symposium, Kalamazoo, Michigan, October 1993.
14. Keynote Address "The Measurement of Customer Satisfaction", The New Zealand Organization for Quality Conference, Auckland, May 1994.
15. Invited Talk "Diagnostic Procedures and Model Criticism for Robust Fits of a Linear Model", ASA JSM, Toronto, Canada, August 1994.
16. Invited Talk "Diagnostics to Detect Differences in Robust Fits of Linear Models", Third Great Lakes Symposium, Kalamazoo, Michigan, July 1995.
17. The Belz Lecture "What Every Statistician Should Know About Nonparametric and Robust Regression", Statistical Society of Australia, Victorian Branch, October 1996.
18. Invited Talk "The Analysis of Customer Satisfaction Data: It's Not as Straightforward as it Seems", Fourth Great Lakes Symposium, Kalamazoo, Michigan, October 1996.
19. Invited paper "A comparison of procedures based on inverse regression", Conference of Statistical Data Analysis Based on the L_1 -norm and Related Methods, Neuchatel, Switzerland, August 1997
20. Invited talk "Using inverse regression to test if more than one linear combination of the predictors is needed", 5th Great Lakes Symposium, Kalamazoo, Michigan, October 1998.
21. Invited participant, Workshop on Nonparametric Statistics, Bern, July 2001.
22. Invited talk "A new method of dimension reduction for discriminating between groups", Statistical Society of Australia Conference, Canberra, July 2002.
23. Invited participant, Workshop on Nonparametric Statistical Methods, University of Tampere, Finland, June 2005.
24. Invited talk, "Discriminant procedures based on efficient robust discriminant coordinates", International Conference on Robust Statistics, Finland, June 2005.
25. Keynote address, SRCOS Summer Research Conference, Kerrville, Texas, June 2006.
26. Invited talk, "Reducing the variability of least squares cross-validation", Joint Statistical Meetings, Salt Lake City, Utah, July 2007.
27. Invited one day short course, "Mixed models", Quintiles, Kansas City, October 2007 (joint with M. Speed).
28. Invited talk, "Model validity checks for regression and logistic regression", M2007 Data Mining Conference, Las Vegas, October 2007 (joint with M. Speed).
29. Invited speaker, Nonparametric Statistics and Mixture Models: Past, Present, and Future, Pennsylvania State University, May, 2008.
30. Invited speaker, Methods and Applications in Modern Statistics, Workshop in Honor of David Ruppert's 60th birthday, Keystone Colorado, June, 2008.
31. Invited speaker, American Statistical Association Workshop for Department Heads, Denver, August, 2008.
32. Invited talk, "The importance of valid models in data mining", M2008 Data Mining Conference, Las Vegas, October 2008 (joint with M. Speed).
33. Invited talk, "The role of valid models in data mining", Quality & Productivity Research Conference, IBM T. J. Watson Research Center, Yorktown Heights, New York, June 2009 (joint with M. Speed).

34. Keynote address, SRCOS Summer Research Conference, Jekyll Island, Georgia, June 2009.
35. Invited talk, "Online Delivery and the Use of Technology in the Classroom", AMA Joint Mathematics Meeting, San Francisco, January 2010 (joint with M. Speed).
36. Keynote address, "Choosing between Logistic Regression and Classification Trees in Data Mining", M2010 Data Mining Conference, Las Vegas, October 2010 (joint with M. Speed).
37. Invited talk, "A dimensionality test for Sliced Mean Variance Covariance Regression", 8th International Chinese Statistical Association International Conference, Guangzhou, China.

Invited Colloquium Talks:

University of Melbourne, Monash University, Stanford University, Western Michigan University, Ohio State University, Pennsylvania State University, University of North Carolina, Victorian & NSW Branches of Statistical Society of Australia, University of New South Wales, University of South Carolina, La Trobe University, University of Sheffield, University of Glasgow, Bath University, Australian National University, Thomas J. Watson Research Center (IBM), The Upjohn Pharmaceutical Company, South Carolina Chapter of the American Statistical Association, University of Newcastle, University of Wollongong, Macquarie University, Sydney Water Board, Southern Methodist University, Rutgers University, New York University, Columbia University, MDAnderson Cancer Center, San Antonio Chapter of the American Statistical Association, Genzyme, Brigham Young University, University of Kentucky, University of Pennsylvania Wharton School

Research Grants:

1. Research Development Grant of \$4,500 in 1986, University of Melbourne.
2. Research grants of \$2,900 in 1987, \$8,900 in 1988 and \$2,000 in 1990 from the Australian Graduate School of Management, University of NSW.
3. Grant of \$36,600 in 1992 from the NSW Education and Training Foundation to prepare a book and two-day training course on productivity improvement.
4. Co-principal investigator research grants with G. Eagleson of \$20,000 in 1989, \$5,000 in 1990 and \$5,800 in 1991 from the Australian Research Council (ARC).
5. Co-principal investigator research grant with G Eagleson & M Wand of \$17,500 in 1995 from the ARC.
6. Co-principal investigator research grants with R. Kohn of \$32,800 for 1990-1991, \$184,000 for 1992-1994, \$164,000 for 1995-1997 and \$160,000 for 1998-2000 from the ARC.
7. Distance Education 2005-2007: \$300,000 from Texas A&M University to develop an online Masters degree in Statistics (with M. Speed).
8. Co-PI, 2008-2111: NIH: National Heart, Lung, and Blood Institute, Lipoprotein Density Profiling for Clinical Studies, PI Ronald MacFarlane, 1.2 months support per year, \$1,141,891

Refereeing for Journals:

Refereed papers for the American Statistician, Annals of the Institute of Statistical Mathematics, Annals of Statistics, Applied Statistics, Australian Journal of Management, Australian Journal of Statistics, Biometrics, Biometrika, Canadian Journal of Statistics, Communications in Statistics, Computational Statistics & Data Analysis, Journal of the American Statistical Association, Journal of Computational and Graphical Statistics, Journal of Income Distribution, Journal of Nonparametric Statistics, Journal of the Royal Statistical Society Series B, Journal of Statistical Computation and Simulation, Journal of Statistical Planning and Inference, Scandinavian Journal of Statistics, Statistics and Probability Letters, Water Resources Research.

Publications:

Refereed Journal Articles & Book Chapters:

1. Sheather, S.J. & Maritz, J.S. (1983). An estimate of the asymptotic standard error of the sample median. *Australian Journal of Statistics*, 25, 109–122.
2. Sheather, S. (1983). A data-based algorithm for choosing the window width when estimating the density at a point. *Computational Statistics and Data Analysis*, 1, 229–238.
3. Scott, D.W. & Sheather, S.J. (1985). Kernel density estimation with binned data. *Communications in Statistics, Theory and Methods*, 14, 1353–1360.
4. Hettmansperger, T.P. & Sheather, S.J. (1986). Confidence intervals based on interpolated order statistics. *Statistics and Probability Letters*, 4, 75–79.
5. Sheather, S.J. (1986). An improved data-based algorithm for choosing the window width when estimating the density at a point. *Computational Statistics and Data Analysis*, 4, 61–65.
6. Sheather, S.J. (1986). A finite sample estimate of the variance of the sample median. *Statistics and Probability Letters*, 4, 337–342.
7. Sheather, S.J. (1987). A new method of estimating the asymptotic standard error of the Hodges-Lehmann estimator based on generalized least squares. *Australian Journal of Statistics*, 29, 66–83.
8. Sheather, S.J. & McKean, J.W. (1987). A comparison of testing and confidence interval methods for the median. *Statistics and Probability Letters*, 6, 31–36.
9. Blair-West J.R., Gibson, A.P., Sheather, S.J., Woods, R.L., & Brook, A.H. (1987). Vasopressin release in sheep following various degrees of rehydration. *The American Journal of Physiology*, 253, 640–645.
10. Nayudu, P.L., Gook, D.A., Lapata, A., Sheather, S.J., Lloyd-Smith, C.W., Cadusch, P. & Johnston, W.I.H. (1987). Follicular characteristics associated with viable pregnancy after in vitro fertilisation in humans. *Gamete Research*, 13, 37–55.
11. Hall, P. & Sheather, S.J. (1988). On the distribution of a studentized quantile. *Journal of the Royal Statistical Society, Series B*, 50, 381–391.
12. McCormack, H.M., Horne, D.J. D. & Sheather, S.J. (1988). Clinical-applications of visual analog scales – a critical review. *Psychological Medicine*, 18, 1007–1019.
13. Robinson, I. & Sheather, S.J. (1989). Weighted selection for the multiset $X+X$ with application to R -estimates and associated confidence limits. *Journal of Statistical Computing and Simulation*, 31, 19–35.
14. Schucany, W.R. & Sheather, S.J. (1989). Jackknifing R -estimators. *Biometrika*, 76, 393–398.
15. Sheather, S.J. & Marron, J.S. (1990). Kernel quantile estimators. *Journal of the American Statistical Association*, 85, 410–416.
16. McKean, J.W., Sheather, S.J. & Hettmansperger, T.P. (1990). Regression diagnostics for rank-based methods. *Journal of the American Statistical Association*, 85, 412, 1018–1028.
17. Hall, P., Sheather, S.J., Jones, M.C. & Marron, J.S. (1991). On optimal data-based bandwidth selection in kernel density estimation. *Biometrika*, 78, 263–269.
18. Sheather, S.J. & Jones, M.C. (1991). A reliable data-based bandwidth selection method for kernel density estimation. *Journal of the Royal Statistical Society, Series B*, 53, 683–690.
19. Jones, M.C. & Sheather, S.J. (1991). Using non-stochastic terms to advantage in kernel based estimation of integrated squared density derivatives. *Statistics and Probability Letters*, 11, 511–514.
20. Hettmansperger, T.P. & Sheather S.J. (1992). A cautionary note on the method of least median squares. *American Statistician*, 46, 79–83.

21. Sheather, S.J. (1992). The performance of six popular bandwidth selection methods as same real data sets (with discussion). *Computational Statistics*, 7, 225-250.
22. Hettmansperger, T.P. & Sheather, S.J. (1992). Robust and Resistant Procedures. *Perspectives on Contemporary Statistics*, Mathematical Association of America Notes Number 21, 145-172.
23. McKean, J.W., Sheather, S.J. & Hettmansperger T.P. (1993). The use and interpretation of residuals based on robust estimation. *Journal of the American Statistical Association*, 88, 1254-1263.
24. Naranjo, J., McKean, J.W., Sheather, S.J. & Hettmansperger, T.P. (1994). The use and interpretation of rank-based residuals. *Journal of Nonparametric Statistics*, 3, 323-341.
25. Sheather, S.J., Hettmansperger, T.P. & Donald M.R. (1994). Data-based bandwidth selection for kernel estimators of the integral of $f^2(x)$. *Scandinavian Journal of Statistics*, 21, 265-275.
26. McKean, J.W., Sheather, S.J. & Hettmansperger, T.P. (1994). Robust and high breakdown fits of polynomial models. *Technometrics*, 36, 409-415.
27. Barnett, G., Kohn, R. Sheather, S.J. & Wong, J., (1995). Markov chain Monte Carlo estimation of autoregressive models with application to metal pollutant concentration in sludge. *Computer & Mathematical Modelling*, 22, 7-13.
28. George, K., McKean, J.W., Schucany, W.R. & Sheather, S.J. (1995). A comparison of confidence intervals with R-estimators in regression. *Journal of Statistical Computing and Simulation*, 53, 13-22.
29. Ruppert, D., Sheather, S.J. & Wand, M.P. (1995). An effective bandwidth selector for local least squares regression. *Journal of the American Statistical Association*, 90, 1257-1270.
30. Jones, C., Marron, J.S. & Sheather, S.J. (1996). A brief survey of bandwidth selection for density estimation. *Journal of the American Statistical Association*, 91, 401-407.
31. Waldersee, R. & Sheather, S.J. (1996). The effects of strategy type on strategy implementation actions. *Human Relations*, 49, 105-122.
32. Barnett, G., Kohn, R. & Sheather, S. (1996). Robust estimation of an autoregressive model using Markov chain Monte Carlo. *Journal of Econometrics*, 74, 237-254.
33. McKean, J.W., Naranjo, J.D. & Sheather, S.J., (1996). Diagnostics to detect differences in robust fits of linear models. *Computational Statistics*, 11, 223-243.
34. Kohn, R., Sheather, S.J., & Smith, M., (1996). Finite sample performance of robust Bayesian regression. *Computational Statistics*, 11, 269-301.
35. Jones, M.C., Marron, J.S., & Sheather, S.J. (1996). Progress in data-based bandwidth selection for kernel density estimation. *Computational Statistics*, 11, 337-381.
36. McKean, J.W., Naranjo, J.D. & Sheather, S.J., (1996). An efficient and high breakdown procedure for model criticism. *Communications in Statistics A Theory and Methods*, 25, 2575-2595.
37. Barnett, G., Kohn, R. & Sheather, S. (1997). A Bayesian analysis of integrated moving average models. *Journal of Time Series*, 18, 11-28.
38. Sheather, S.J., McKean, J.W., & Hettmansperger, T.P. (1997). Finite sample stability properties of the Least Median of Squares estimator. *Journal of Statistical Computing and Simulation*, 58, 371-383.
39. Hettmansperger, T.P., McKean, J.W., & Sheather, J.S., (1997). Rank-Based Analyses of Linear Models. *Robust Inference*, Maddala, G.S. and Rao CR.(eds), Handbook of Statistics, Volume 15, Amsterdam; Elsevier, 145-173.
40. Sheather, S.J. and McKean, J.W. (1997). A comparison of procedures based on inverse regression. *L₁ Statistical Procedures and Related Topics*, Y. Dodge (ed.), Volume 31, Institute of Mathematical Statistics Lecture Notes Series, 271-278.

41. McKean, J.W. and Sheather, S.J. (1997). Exploring data sets using partial residual plots based on robust fits. L_1 *Statistical Procedures and Related Topics*, Y. Dodge (ed.), Volume 31, Institute of Mathematical Statistics Lecture Notes Series, 241-256.
42. Sheather, S.J. & Maritz, J.S. (1998). A general method for estimating standard errors. *Journal of Nonparametric Statistics*, 9, 141-154.
43. Chang, W.H., McKean, J.W., Naranjo, J.D. and Sheather, S.J. (1999). High-breakdown rank regression. *Journal of the American Statistical Association*, 94, 205-219.
44. McKean, J.W., Naranjo, J.D. and Sheather, S.J., (1999). Diagnostics for comparing robust and least squares fits. *Journal of Nonparametric Statistics*, 11, 161-188.
45. McKean, J.W., and Sheather, S.J. (1999). Comment on Regression Depth. *Journal of the American Statistical Association*, 94, 411-415.
46. McKean, J.W., and Sheather, S.J. (2000). Partial residual plots based on robust fits. *Technometrics*, 42, 249-261.
47. Hettmansperger, T.P., McKean, J.W., and Sheather, S.J. (2000). Robust nonparametric methods. *Journal of the American Statistical Association*, 95, 1308-1311.
48. Harrold, T., Sharma, A. & Sheather, S. (2001). Selection of a kernel bandwidth for measuring dependence in hydrologic time series using the mutual information criterion. *Stochastic Environmental Research & Risk Assessment*, 15, 310-324.
49. Hettmansperger T.P., McKean J.W. & Sheather S.J. (2002). Finite sample performance of tests for symmetry of the errors in a linear model. *Journal of Statistical Computing and Simulation*, 72, 863-879.
50. Hettmansperger, T.P., McKean, J.W., and Sheather, S.J. (2002). Robust nonparametric methods. *Statistics in the 21st Century*, Raftery, A, Tanner, M & Wells, M. (eds.), Chapman & Hall, London, 359-367.
51. Burton, S., Sheather, S. & Roberts, J. (2003). Reality or perception? The effect of actual and perceived performance on satisfaction and behavioural intention. *Journal of Service Research*, 5, 292-302.
52. Apanasovich, T., Sheather, S., Lupton, J., Popovic, N., Turner, N, Chapkin, R. & Carroll, R. (2003). Testing for spatial correlation in nonstationary binary data with application to aberrant crypt foci in colon carcinogenesis. *Biometrics*, 59, 752-761.
53. Harrold, T., Sharma, A. & Sheather, S. (2003). A nonparametric model for stochastic generation of daily rainfall occurrence. *Water Resources Research*, 39 (10), Article 1300, 1-11.
54. Harrold, T., Sharma, A. & Sheather, S. (2003). A nonparametric model for stochastic generation of daily rainfall amounts. *Water Resources Research*, 39(12), Article 1343, 1-12.
55. Hettmansperger T.P., McKean J.W. & Sheather S.J. (2003). Testing symmetry of the errors in a linear model. In *Mathematical Statistics and Applications: Festschrift for Constance van Eeden*, Moore, M., Froda, S & Leger, C. (ed.), Institute of Mathematical Statistics, 99-112.
56. Sheather, S.J. (2004). Density estimation, *Statistical Science*, 19, 588-597.
57. Hettmansperger T.P., McKean J.W. & Sheather S.J. (2005). Rank Based Inference. *Encyclopedia of Statistics in Behavioral Sciences*. pp 1688-1691, John Wiley: Chichester, UK.
58. Riechman, S.E., Andrews, R.D., MacLean, D.A. & Sheather. S. (2007). Statins, dietary and serum cholesterol are associated with increased lean mass following resistance training. *Journal of Gerontology A: Biological Sciences & Medical Sciences*, 62, 1164-1171.

59. Spiegelman, C., Tobin, W. A., James, Sheather, S.J., Wexler, S. & Roundhill, D. M. (2007). Chemical and forensic analysis of JFK assassination bullet lots: Is a second shooter possible? *Annals of Applied Statistics*, 1, 287–301.³
60. Crimin, K., McKean, J.W. & Sheather, S.J. (2007). Discriminant procedures based on efficient robust discriminant coordinates. *Journal of Nonparametric Statistics*, 19, 199–213.
61. Sheather, S.J., McKean, J.W. & Crimin, K. (2008). Sliced Mean Variance Covariance Inverse Regression, *Computational Statistics and Data Analysis*, 52, 1908– 1927.
62. Lauziere, I., Sheather, S. and Mitchell, F. (2008). Seasonal abundance and spatio-temporal distribution of dominant xylem fluid-feeding Hemiptera in vineyards of Central Texas and surrounding habitats. *Environmental Entomology*, 37, 925-937.
63. McKean, J.W. & Sheather, S.J. (2009). Diagnostic procedures. *WIRES: Computational Statistics*, 1, 221–233.
64. Savchuk, O., Hart, J., and Sheather, S.J. (2010). Indirect cross-validation for density estimation. *Journal of the American Statistical Association*, 105, 415-423.
65. Lindsey, C., & Sheather, S. (2010). Power transformation via multivariate Box–Cox. *Stata Journal*, 10, 69-81.
66. Phisitkul, S., Khanna, A., Simoni, J., Broglio, K.R., Sheather, S.J., Rajab, M.H. and Wesson, D.E. (2010). Amelioration of metabolic acidosis in patients with low GFR reduced kidney endothelin production and kidney injury, and better preserved GFR. *Kidney International*, 77, 617–623.
67. Mahajan, A., Simoni, J., Sheather, S.J., Broglio, K.R., Rajab, M.H. and Wesson, D.E. (2010). Daily oral sodium bicarbonate preserves glomerular filtration rate by slowing its decline in early hypertensive nephropathy. *Kidney International*, 78, 303-309.
68. Lindsey, C., & Sheather, S. (2010). Model fit assessment via marginal model plots. *Stata Journal*, 10, 200-214.
69. Lindsey, C., & Sheather, S. (2010). Optimal power transformation via inverse response plots. *Stata Journal*, 10, 215-225.
70. Lindsey, C., & Sheather, S. (2010). Power transformation via multivariate Box-Cox. *Stata Journal*, 10, 69-81.
71. Savchuk, O. Y., J. D. Hart, and S. J. Sheather (2011). An empirical study of indirect cross-validation. *Nonparametric Statistics and Mixture Models: A Festschrift in Honor of Thomas P. Hettmansperger*. World Scientific Publishing, Singapore, 288-308.

Other contributions in refereed journals:

1. Sheather, S.J. (1993). Discussion of the paper by Hall and Johnstone. *Journal of the Royal Statistical Society, Series B*, 54, 524-525.
2. Sheather, S. J. and McKean, J. W. (1999). Comment on Multivariate L-estimation, *Test*, 8, 302-305.
3. Sheather, S. J. and McKean, J. W. (2001). Dimension reduction and visualization in discriminant analysis – Discussion. *Australian & New Zealand Journal of Statistics*, 43, 185-190.
4. Wilcox, R.R., Sheather, S., Brunner E. and Schimek. M.G. (2007). Nonparametric and robust methods (Editorial) *Computational Statistics & Data Analysis*, 51, 5010-5012.
5. Sheather, S.J. (2010). Review of "Running Regressions: A Practical Guide to Quantitative Research in Economics, Finance and Development Studies" by M. C. Baddeley and D. V. Barrowclough. *American Statistician*, 64, 359.

³ Winner of the 2008 American Statistical Association, Statistics in Chemistry Award
January, 2011

Books:

1. Staudte, R.G. & Sheather, S.J. (1990). *Robust Estimation and Testing*. Wiley, New York.
2. Sheather, S. J. (2010). *A Modern Approach to Regression with R*. Springer, New York.

Conference Proceedings:

1. Sheather, S.J. (1987). Assessing the accuracy of the sample median: estimated standard errors versus interpolated confidence intervals. *Statistical Data Analysis Based on the L₁-Norm and Related Methods*, ed. Y. Dodge (ed.), North-Holland Amsterdam, 203–216.
2. Robinson, I. & Sheather S.J. (1988). Fast Computation of the Hodges-Lehmann estimator and its associated confidence limits. *Proceedings of Statistical Computing Section of the American Statistical Association*, 187–191.
3. McKean, J.W., Sheather, S.J. & Hettmansperger, T.P. (1990). Regression diagnostics for rank-based methods II. *Directions in Robust Statistics and Diagnostics*, Part II, Stahel, W. and Weisberg S (eds.), Springer-Verlag, New York, 21–32.
4. McKean, J.W. & Sheather, S.J. (1990). Small sample properties of robust analyses of linear models based on R-estimates: a survey. *Directions in Robust Statistics and Diagnostics*, Part II, Stahel, W. and Weisberg S (eds.), Springer-Verlag, New York, 1–20.
5. McKean, J.W., Sheather, S.J. & Hettmansperger, T.P. (1990). On the use of standardized residuals from a high breakdown GM-fit of a linear model. *Proceedings of the Business and Economic Statistics Section of the American Statistical Association*, 242–247.
6. Thombs, L.A. & Sheather, S.J. (1992). Local bandwidth selection. *Computer Science and Statistics: Proceedings of the 22nd Symposium on the Interface*, Page C. and Le Page R. (eds.), Springer-Verlag, New York, 111-116.
7. Sheather, S.J. & McKean, J.W. (1992). The interpretation of residuals based on L₁ estimation. *L₁ - Statistical Analysis and Related Methods*, ed. Yadolah Dedge, North-Holland Amsterdam, 145-156.
8. Barnett, G., Kohn, R., Sheather, S. and Wong, J. (1993). Markov chain Monte Carlo estimation of autoregressive models with application to metal pollutant concentration in sludge. *Proceedings of the Australia-Japan Workshop on Stochastic Models in Engineering, Technology and Management*, Osaki, S. and Pra Murthy, D.N. (eds), World Scientific, Singapore, 26-36.
9. Waldersee, R., and Sheather, S.J. (1993). The effect of strategy type on strategy implementation behaviour. *Proceedings of the Academy of Management*, p. 399.
10. McKean, J.W., Sheather, S.J. & Hettmansperger, T.P. (1994). The interpretability of LMS and LTS residual plots. *Proceedings of the Statistical Consulting Section of the American Statistical Association*.
11. Sheather, S.J. & Burton, S.M. (1994). The measurement of customer satisfaction. *Proceedings of the New Zealand Organisation for Quality Conference*.
12. Sheather, S.J., Wand, M.P., Smith, M.S., & Kohn, R., (1996). Invited comments on the papers by Marron, Cleveland & Loader, Seifert & Gasser. *Statistical Theory and Computational Aspects of Smoothing*, Proceedings of the COMPSTAT '94 Satellite Meeting, Physica-Verlag, Heidelberg, 93-102.

Ph D Students:

1. 1998, Suzan Burton, *An Investigation of the Determinants of Customer Satisfaction* (joint with J. Roberts, Marketing)
2. 1999, Glen Barnett, *Bayesian Estimation of Time Series Models* (joint with R. Kohn)
3. 2002, Tim Harrold, *Stochastic Generation of Daily Rainfall for Catchment Water Management Studies* (joint with A. Sharma, Civil Engineering)
4. 2009, Olga Savchuk, *Choosing a Good Kernel for Cross-Validation* (co-chair with Jeff Hart)
5. 2010, Charles Lindsey, *SMVCIR Dimensionality Test* (chair)

Masters Students:

1. 2007, Charles Lindsey, *A regression package based on Excel*
2. 2007, Andrew Redd, *Marginal; model plots*
3. 2009, Dana Bergstresser, *Spline models for counts*

Administrative Career History:**University of New South Wales**

1994–1997	Program Director, Full-time MBA Program, AGSM.
1998–2003	Program Director, Senior Manager Development Program, AGSM.
1999–2001	Program Director, Hong Kong Administrative Development Program, AGSM.
2003–2005	Program Director, Consortium Program, AGSM.
2003–2005	Head of Statistics and Operations Group, AGSM.
2004 –2005	Associate Dean (Research), AGSM.

Texas A&M University

2005 –	Department Head, Department of Statistics
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Service:

University of New South Wales

Collegiate:

1994–1997	Higher Degree Executive Committee
1994–2003	Scholarship Committee
1995–1998	Faculty representative AGSM Board of Management
1998	AGSM Strategy Reference Group
1998, 2000, 2003	Faculty Performance Appraisal Committee
1999	Speaker at the Toyota Executive Forum
2000	MBA Review Reference Group
2001–2005	Curriculum Committee
2001–2003	Author of the reports “Statistical Analysis of the Financial Times 2001 & 2002 Rankings of Full-time MBA Programs”, “Regression Analysis of Financial Times EMBA Rankings”, “Statistical Analysis of the Financial Times 2001 Rankings of Open Enrolment Executive Education Programs”, “Predicted EMBA course enrolments for 2003”, “Price elasticity of executive education programs”
2002–2005	Dean’s Advisory Committee
2002	Chair of the Growth Options Working Party
2002, 2003	Alumni Conference Speaker
2002, 2003	Speaker at corporate lunches including “Meet the AGSM” and Chief Executive Women
2003	Corporate and Executive Education Strategic Review Committee

University:

1999	University of New South Wales (UNSW) Vice Chancellor’s Award of Excellence in Teaching Selection Committee
2002	Speaker at a UNSW forum on how to obtain an ARC grant
2004	UNSW Research Committee

Texas A&M University**Collegiate:**

2005- College of Science Executive Committee

University:

2006-2008 President of the International Faculty and Scholar Network
2008-2009 Academic Master Plan Steering Committee
2008-2009 Teaching-Learning Roadmap Committee
2009-2010 President's Task Force on Faculty Evaluations

Profession:

1982-1983, 1986 Member of the Council of the Statistical Society of Australia (Victorian Branch)
1982-1983, 1991 Member of the Organizing Committee for the Young Statisticians Annual Workshop.
1988-1992 Member of the Council of the Statistical Society of Australia (New South Wales Branch).
1991 Co-organizer of an international symposium on Modern Regression Methods held April 1991 at the University of New South Wales.
1997-2001 Member of the National Executive Committee of the Statistical Society of Australia
2001 Chair of the Best Paper Committee, ASA Section on Nonparametric Statistics
2006-2007 Member of the ASA Task Force on Science Policy
2007-2008 Chair-elect ASA Program Committee Section on Nonparametric Statistics
2008-2009 Chair ASA Program Committee Section on Nonparametric Statistics
2009-2010 Member of the ASA Task Force on Membership Growth
2010 Member of the Interface 2010 Program Committee
1982- Member of the American Statistical Association.
1981- Member of the Institute of Mathematical Statistics.
1981- Member of the Statistical Society of Australia.

Consulting:

1985-1987 Deputy Director, Statistical Consulting Centre, Department of Statistics, University of Melbourne
1987-2005 Consultant for Unisearch, UNSW and AGSM Limited.
2005-2008 Member of the Scientific Advisory Panel, Apollo Life Sciences
2007- Scott & White, Temple Texas

Extensive consulting experience, particularly in the application of statistical methods to medicine and the health sciences. Prepared a number of expert witness reports and appeared as an expert witness in a matter in the Supreme Court of NSW.