2006 PUBLICATIONS

Journal - Research Article


ANDERSON, M.J. 'Distance-based tests for homogeneity of multivariate dispersions', Biometrics, 62, p245-253, 2006


DANAIEI, G., LAWES, C.M., VANDER HOORN, S., MURRAY, C.J.L., EZZATI, M. 'Global and regional mortality from ischaemic heart disease and stroke attributable to higher-than-optimum blood glucose concentration', *Lancet, 368*, p1651-1659, 2006


JOUNELA, P., SUURONEN, P., MILLAR, R.B., KOLJONEN, M.L. 'Interactions between grey seal (Halichoerus grypus), Atlantic salmon (Salmo salar L.) and harvest controls on the salmon fishery in the Gulf of Bosnia.', *ICES Journal of Marine Science, 63*, p936-945, 2006


PFANNKUCH, M., READING, C. 'Reasoning about distribution: A complex process', *Statistics*


ROEVER, C., MEYER, R., CHRISTENSEN, N. L. 'Bayesian inference on compact binary inspiral gravitational radiation signals in interferometric data', *Classical and Quantum Gravity*, 23, p495-4906, 2006


WRAPSON, W., HARRE, N., MURRELL, P.R. 'Reductions in driver speed using posted feedback of speeding information: Social comparison or implied surveillance?', Accident Analysis and Prevention, 38, p1119-1126, 2006


Journal - Commentary/letter

BROWNING, B.L. 'DLG5 variants and susceptibility to inflammatory bowel disease in the Scottish population', Gut, 55, (7), p1050-1050, 2006


Book - Chapter


Conference Contribution - Abstract


GROOM, K., POPPE, K.K., NORTH, R.A., MCCOWAN, L.M.E. 'Relationship between preeclampsia and small for gestational age pregnancies in nulliparous pregnancies', Annual NZ college of Obstetrics and gynaecology scientific meeting., Bay of Islands NZ, September, 2006, p.-

Conference Contribution - Oral Presentation

ANDERSON, M.J. 'Nonlinear canonical models of principal coordinates in multivariate ecological studies', Australian Statistical Conference/ New Zealand Statistical Association Conference, Auckland, New Zealand, 3-7 July, 2006

BIBBY, C.M., ROBINSON, E.M., WALDIE, K.E., THOMPSON, J.M.D., WILD, C.J., BECROFT, D.M.O., MITCHELL, E.A. 'Factors related to symptoms of ADHD in school age children; Findings from
the Auckland Birthweight Collaborative Study,’ 58th Annual Scientific Meeting of the Paediatric Society of New Zealand., Nelson, November 1-3, 2006


BROWNING, S.R. 'Whole-genome multilocus association mapping using localized haplotype clusters', International Genetic Epidemiology Society 15th Annual Meeting, St. Petersburg Beach, FL, USA, November 15-17, 2006


FORD, R.B., ANDERSON, M.J. 'Beach monitoring: can we detect anthropogenic impacts over time?', Sandy Beaches Symposium, Vigo, Spain, October 9-13, 2006


MILLAR, R.B. 'Local influence in Bayesian models.', Joint NZ and Australia Statistical Conference, Auckland, July, 2006


ROEVER, C., CHRISTENSEN, N. L., MEYER, R. 'Bayesian parameter estimation techniques for binary inspiral events in three or more interferometers', ILLIAS Gravity Wave Meeting, Florence, Italy, April 12, 2006

ROEVER, C., MEYER, R., CLARK, J., CHRISTENSEN, N. L., HENDRY, M., UMSTAETTER, R.,
WOAN, G. 'Inference on inspiral signals using LISA MLDC data', 11th Gravitational Wave Data Analysis Workshop, Potsdam, Germany, Dec 18-21, 2006


Conference Contribution - Conference Paper

CUI, T., FOX, C., NICHOLLS, G., O'SULLIVAN, M.J. 'Bayesian Inference for Geothermal Model Calibration', New Zealand Geothermal Workshop, Auckland, 15th November, 2006


Conference Contribution - Poster


BROWNING, B.L., BROWNING, S.R. 'Powerful and efficient whole genome haplotypic analysis using Beagle', Annual meeting of the American Society of Human Genetics, New Orleans, 9-13 October, 2006


HUEBNER, C., PETERMANN, I., BROWNING, B.L., SHELLING, A.N., PHILPOTT, M., FERGUSON, L.R. 'Different genotyping approaches for investigating the four allelic variant G2677/T/A/C in the MDR1 gene', *The International Conference on Nutrigenomics & Gut Health, Takapuna, Auckland, New Zealand, 30 April-3 May, 2006*


PETERMANN, I., HUEBNER, C., BROWNING, B.L., SHELLING, A.N., PHILPOTT, M., FERGUSON, L.R. 'DLG5 polymorphisms and inflammatory bowel disease', *The International Conference on Nutrigenomics & Gut Health, Takapuna, Auckland, New Zealand, 30 April-3 May, 2006*

ROEVER, C., MEYER, R., CHRISTENSEN, N. L. 'Coherent Analysis of Gravitational Wave Chirps and Bursts.', *ISBA (International Society for Bayesian Analysis) 8th World Meeting on Bayesian Statistics, Valencia, Spain, Jun, 2006*

UMSTAETTER, R., MEYER, R., CHRISTENSEN, N. L. 'Setting upper limits from LIGO on Gravitational Waves from SN1987a', *11th Gravitational Wave Data Analysis Workshop, Potsdam, Germany, Dec 18-21, 2006*

Conference Contribution - Paper Published on Proceedings


PFANNKUCH, M. 'Informal inferential reasoning', *7th International Conference on Teaching Statistics*, A. Rossman & B. Chance(ed.), *Working Cooperatively in Statistics Education, Salvador, Bahia, Brazil, 2-7*

**Software**


BROWNING, B.L. 'BEAGLE Genetic Association Analysis Software' 2006
http://www.stat.auckland.ac.nz/~browning/beagle/beagle.html


YEE, T.W. 'VGAM package 0.7-1', CRAN, 2006, http://cran.r-project.org

**Interview - Radio, TV, Other**

CURRAN, J.M., TRIGGS, C.M. 'GLASS STUDY OPENS WINDOW FOR DETECTIVES', The Dominion Post, 11-10-2006, 2006

MILLAR, R.B. 'Live 30 minute interview about probability with Eva Radich on the Ideas program, National Radio.', National Radio, 12-11-2006, 2006

**Oral Presentation**


ANDERSON, M.J. 'Multivariate methods for multi-species data', *Invited speaker, Quantitative Seminar, College of Ocean and Fishery Science, University of Washington, Seattle, USA*, 13-10-2006

BROWNING, S.R. 'Multilocus genetic association testing using localized haplotype clustering', *Department of Statistics Seminar, The University of Chicago*, 11-08-2006

BROWNING, S.R. 'Multilocus genetic association testing using variable-length Markov chains', *Bioinformatics Seminar, Walter and Eliza Hall Institute, Melbourne, Australia*, 29-08-2006
DEPARTMENT OF STATISTICS

CURRAN, J.M. 'Some issues surrounding the interpretation of Low Copy Number (LCN) DNA evidence', *Department of Mathematics and Statistics, University of Otago*, 19-10-2006

LOADER, C.R., PILLA, R.S. 'Model Complexity and High Dimensional Mixtures', *Joint Statistical Meetings, Seattle*, 08-07-2006

YEE, T.W. 'A Framework for Regression', *Seminar, Victoria University*, 29-09-2006

YEE, T.W. 'A Framework for Regression', *Seminar, Waikato University*, 18-09-2006

**Technical Report**

ANDERSON, J., JERAM, M., GENET, R., BREAM, F., TRIGGS, C.M. 'Alternatives to chemical sprout suppressants - cultivar dormancy and cool storage ability', *Confidential Report No. 1734*, Crop & Food Research Ltd, 2006, 1-12


**2005 PUBLICATIONS**

**Journal - Research Article**


AMERATUNGA, S.N., MACMILLAN, A.K., STEWART, J.M., SCOTT, D.J., CRENGLE, S.M.,


BUCKLETON, J. S. 'Relatedness and DNA: are we taking it seriously enough?', *Forensic Science International*, 152, (2), p115-119, 2005

CLARK, G. E., BURGE, G. K., TRIGGS, C. M. 'Effects of bulb storage, leaf and root pruning, on flower production in *Cyrtanthus elatus*', *New Zealand Journal of Crop and Horticultural Science.*, 33, (2), p169-
CURRAN, J.M. 'An introduction to Bayesian credible intervals for sampling error in DNA profiles', *Law, Probability and Risk, 4, (1)*, p115-126, 2005


FERREIRA, S.M. 'Individual-level management trade-offs for populations of Dactylanthus taylorii (Balanophoraceae) on Little Barrier Island.', *New Zealand Journal of Botany, 43*, p415-424, 2005


FISHER, N.I., LEE, A.J. 'No more static', *Marketing Research, 17*, p14-19, 2005


HICKS, T., SCHUTZ, F., CURRAN, J.M., TRIGGS, C.M. 'A model for estimating the number of glass fragments transferred when breaking a pane: experiments with firearms and hammer', *Science and Justice, 45, (2)*, p65-74, 2005


MANDA, S., MEYER, R. 'Age at first marriage in Malawi: a Bayesian multilevel analysis using a discrete time to event model', *Journal of the Royal Statistical Society A, 168*, p439-455, 2005
MANDA, S., MEYER, R. 'Bayesian Inference for recurrent events data using time dependent frailty', *Statistics in Medicine*, 24, p1263-1274, 2005

MILLAR, R.B., ANDERSON, M.J., ZUNUN, G. 'Fitting nonlinear environmental gradients to community data: A general distance-based approach', *Ecology*, 86, p2245-2251, 2005

MILLAR, R.B., STEWART, W.S. 'Sensitivity of fisheries models to specification of prior information.', *Canadian Journal of Fisheries and Aquatic Sciences*, 62, p1028-1036, 2005

MILLER, A.E. 'The analysis of unreplicated factorial experiments using all possible comparisons', *Technometrics*, 47, p51-63, 2005


MURRELL, P.R. 'Recent changes in grid graphics', *R News*, 5, (1), p12-20, 2005


SCOTT, D.J., HASCHENBURGER, J.K. 'Using the hyperbolic distribution to estimate the precision of size distribution percentiles of fluvial gravels', *Computers Geosciences*, 31, p1224-1233, 2005

SENA RATNE, I., KELLIHER, F.M., TRIGGS, C.M. "Source apportionment of PM10 during cold, calm weather in Christchurch, New Zealand: Preliminary results from a receptor model", *Clean Air and Environmental Quality*, 29, (3), p47-54, 2005

SENA RATNE, I., KELLIHER, F.M., TRIGGS, C.M. 'Source apportionment of Airborne Particles during Winter in Contrasting, Coastal Cities', *Aerosol and Air Quality.*, 5, (1), p51-67, 2005


VEITCH, J., UMSAETTER, R., MEYER, R., CHRISTENSEN, N. L., WOAN, G. 'A time-domain MCMC search technique for gravitational waves of uncertain frequency from a targeted neutron star', Classical and Quantum Gravity, 22, pS995-S1002, 2005


WILLIS, T.J., MILLAR, R.B. 'Using marine reserves to estimate fishing mortality', Ecology Letters, 8, p47-52, 2005

WRIGHT, P.J., TRIGGS, C.M. 'Control of bacterial soft rot of calla (Zantedeschia spp.) by pathogen exclusion, elimination and removal', New Zealand Journal of Crop and Horticultural Science., 33, (2), p117-123, 2005


Journal - Commentary/letter

FEWSTER, R.M., LAAKE, J.L., BUCKLAND, S.T. 'Line transect sampling in small and large regions', Biometrics, 61, p856-859, 2005

Book - Authored

MURRELL, P.R. R Graphics, Boca Raton, Chapman Hall / CRC, p1-301, 2005
Book - Chapter


Book - Edited


Conference Contribution - Abstract


Conference Contribution - Oral Presentation


Conference Contribution - Conference Paper

CUNLIFFE, R.V. 'Pilot Study into the Use and Usefulness of Instant Messaging Within an Educational Context', IASE/ISI-Satellite Conference on Statistics Education and the Communication of Statistics, Sydney, 4-5 April, 2005

CUNLIFFE, R.V. 'The New Zealand Experience with CensusAtSchool', ISI 55, Sydney, 7-12 April, 2005


Conference Contribution - Paper Published on Proceedings


Software


Review


Commissioned Report


Technical Report

PRITCHARD, G., WILSON, M.C. 'Exact results on manipulability of positional voting rules', *CDMTCS Research Reports*, (274), 2005, 1-24


SCHEFFER, J.J.C., TRIGGS, C.M. 'The keeping quality of Rave Hybrid and Pukekohe Longkeeper Onions', *Crop & Food Research Ltd, Confidential Report*, (1303), 2005, 1-4
2004 PUBLICATIONS

(a) Books


(b) Book Chapters


(c) Journal Articles


MILLAR, R. B. 'Sensitivity of Bayes estimators to hyper-parameters, with an application to maximum yield from fisheries.'. Biometrics, 60, 536-542, 2004.


(d) Books Edited


(e) Conference Publications – full written papers, refereed


(f) Scholarly Reviews and Comments


XIAO, Y. PUNT, A. E., MILLAR, R. B., QUINN II, T.J. 'Editorial'. Models in Fisheries Research: GLMs, GAMs and GLMMs. Review (or comment) in Fish Res. 70, 137-139, 2004.

(g) Professional and Technical Reports


(l) Other Works


MURRELL, P., The gridBase add-on package for R (versions 0.3-2 and 0.4) http://cran.r-project.org/, 2004.

MURRELL, P., The gridSVG add-on package for R (versions 0.3 and 0.4) http://www.stat.auckland.ac.nz/~paul/, 2004.


2003 PUBLICATIONS

(a) Books


(b) Book Chapters


(c) Journal Articles


DEPARTMENT OF STATISTICS


(e) Conference Publications – full written papers, referred


(f) Scholarly Reviews and Comments


(g) Professional and Technical Reports


AMERATUNGA, S., LENNON, D., STEWART, J., SCOTT, D.J. FOR THE VACCINE EFFECTIVENESS EVALUATION TEAM. 'Post-licensure evaluation of the Meningococcal B Vaccine (MeNZB): Data analysis plan'. Auckland, Department of Paediatrics, University of Auckland, 65 pp, November 2003


DEPARTMENT OF STATISTICS


(i) Patents


(l) Other Works


MURRELL, P., 2003 The gridBase add-on package for R (version 0.1) http://cran.r-project.org/
2002 PUBLICATIONS
(a) Refereed Journal Articles


WRIGHT, P.J., BURGE, G.K., AND TRIGGS, C.M. ‘Effects of time of lifting of tubers and cessation of irrigation on bacterial soft rot of calla,’ New Zealand Journal of Crop and Horticultural Science, 30, 265-272, 2002

YEE, T. W. and MACKENZIE, M. ‘Vector generalized additive models in plant ecology,’ Ecological Modelling, 157, 141-156, 2002


(b) Sections in books (including articles in books, anthologies & edited collection)


(c) Papers in Referred Conference Proceedings

ANDERSON, M.J. ‘Teaching multivariate statistics to ecologists and the design of ecological experiments to statisticians: lessons from both sides’. Proceedings of the Sixth International Conference on Teaching of Statistics, July 7 - 12, 2002, Cape Town, South Africa. CD-ROM Published by ISI Permanent Office, Netherlands.


(d) Books Edited


(e) Technical Reports


(f) Designs, Inventions and Patents

C.M. TRIGGS, J.S. BUCKLETON, L. FOREMAN, I.W. EVETT, S. POPE. Improvements in and relating analysis ANP/LDR/P17960.

C.M. TRIGGS, J.S. BUCKLETON, P.D. GILL. Improvements in and relating to interpreting DNA ANP/LDR/P17961.

R. PINCHIN, J.S. BUCKLETON, C.M. TRIGGS. Improvements in and relating to considerations, evaluations, investigations and searching ANP/LDR.
(g) Other Works


2001 PUBLICATIONS

(a) Refereed Journal Articles


HU, F.-P., YOUNG, J.M., TRIGGS, C.M., PARK, D-C and SAUL, D.J. ‘Relationships within the Proteobacteria of plant pathogenic Acidovorax species and subspecies, Burkholderia species and


(b) Sections in books (including articles in books, anthologies & edited collections)


(c) Papers in Refereed Conference Proceedings


(d) Reviews and Comments (published in journals of repute)

(e) Technical Reports


ZIEDINS, I. Expert opinion on MRTG data.. Technical report, Knight Coldicutt and Co. 43pp

(f) Designs, Inventions and Patents

ZIEDINS, I., MITRA, D. “Method for sharing network resources by virtual partitioning”. Canadian patent no. 2,197,585.

(g) Other Works

MURRELL, P., Released the "grid" add-on package for R- new graphics functions for R. There were two minor releases of R (version 1.3 and version 1.4)

2000 PUBLICATIONS

(h) Refereed Journal Articles

- ANDERSON, M. J. 'Permutation tests for univariate or multivariate analysis of variance and regression'. Canadian Journal of Fisheries and Aquatic Sciences, in press, accepted 21 December 2000.


DEPARTMENT OF STATISTICS


- METCALF, P.A., SWINBURN, B.A., SCRAGG, R.K.R.,  'Factors associated with changes in serum cholesterol levels over 7 years in middle-aged New Zealand men and women: a prospective study' [submitted].


- MILLER, A., SITTER, R.R.  'Using the folded-over 12-run Plackett-Burman design to consider interactions', Technometrics (accepted to appear Feb 2001).


DEPARTMENT OF STATISTICS

• SCOTT, A.J. and WILD, C.J. 'Fitting models in generalized case-control designs'. Journal of Statistical Inference & Planning, 30, 2001 (accepted September 1999)


• SWINBURN, B.A. METCALF, P.A., LEY, S.J., WILSON, S.J. 'Long term (5 year) effects of a 1 year reduced fat diet intervention in individuals with glucose tolerance'. Diabetes Care (in press)


(i) Sections in books (including articles in books, anthologies & edited collections)


(j) Books


(k) Papers in Refereed Conference Proceedings


• LEWTHWAITE, S.L., TRIGGS, C.M. 'Plug transplants for sweetpotato establishment'. Proceedings of the Agronomy Society of New Zealand 29, 47–50. 1999
DEPARTMENT OF STATISTICS


• PRITCHARD, G., ZAKERI, G. 'Stochastic optimisation and importance sampling'. Proc. 4th Hungarian Colloqium on limit theorems in probability and statistics.


(l) Reviews and Comments (published in journals of repute)


(m) Technical Reports


• COLLINS, J., METCALF, P. 'New Zealand Dialysis Indicators Study'. 1st Report. January 2000


• SWINBURN, B., MARLEY-JOHN, J., METCALF, P., WRIGHT, H. 'The hot chips project' Report to the MOH.


• ZIEDINS, I., SENGUPTA, A., RAMANAN, K., MITRA, P. 'Analysis of multicasting on tree networks' Technical Memorandum. Lucent Technologies Bell Labs.

(n) Designs, Inventions and Patents

- ZIEDINS, I., MITRA, D. "Method for sharing network resources by virtual partitioning'. Canadian patent no. 2,197,585.

(o) Other Works

- ANDERSON, M. J., 'DISTCLASS.' A FORTRAN program to calculate jackknife misclassification probabilities of multivariate observations in a priori groups on the basis of a least-squares linear criterion in the canonical principal coordinate space, as described by Anderson and Robinson (in press). Department of Statistics, University of Auckland, New Zealand, 2000.

- ANDERSON, M. J., 'DISTCVA'. A FORTRAN program for generalised canonical analysis on the basis of any distance measure, for ordination and including a test using permutations, as described by Anderson and Robinson (in press). Department of Statistics, University of Auckland, New Zealand, 2000.

