

**CURRICULUM VITAE:
DISTINGUISHED PROFESSOR KERRIE MENGERSEN**

Queensland University of Technology
ARC Centre of Excellence for Mathematical & Statistical Frontiers
Institute for Future Environments
GPO Box 2434, Brisbane Australia
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Education:

1995 Graduate Certificate in Higher Education, Queensland University of Technology.

1989 Doctor of Philosophy in Statistics, University of New England.

1985 Bachelor of Arts (Honours Class 1), University of New England.

Employment History:

2016–Present Distinguished Professor, Queensland University of Technology

2015 – 2020 Australian Research Council Laureate Fellow

2014 – Present Deputy Director of the ARC Centre of Excellence for Mathematical and Statistical Frontiers in Big Data, Big Models and New Insights

2004–Present Research Professor in Statistics, School of Mathematical Sciences, Queensland University of Technology.

2011-2012 Inaugural Director of the Collaborative Centre for Data Analysis, Modelling and Computation, Queensland University of Technology.

2005–2007 Director of Faculty of Science Research Centre, Queensland University of Technology.

2001-2004 Professor and Head of Discipline in Statistics, University of Newcastle.

1994-2000 Lecturer/Senior Lecturer in Statistics, Queensland University of Technology.

1993 Visiting Associate Professor in Statistics, Colorado State University, USA.

1990-1992 Lecturer/Senior Lecturer in Statistics, Central Queensland University.

1989-1990 Assistant Professor in Statistics, Bond University.

1987-1989 Commercial statistical consultant, Siromath Pty Ltd.

Awards and Honours:

2016 Awarded the title of Distinguished Professor by Queensland University of Technology.

2016 Awarded the Pitman Medal, by the Statistical Society of Australia and the first woman to receive it

2016 Cooperative Research Centre for Spatial Information Research Excellence Award

2016 Recipient of the JS Hunter Award, awarded in tandem with the annual J Stuart Hunter Lecture at The International Environmetrics Society 2016 meeting

2015 Australian Research Council Laureate Fellowship

2015 Biennial Medal by the Modelling and Simulation Society of Australia and New Zealand (MSSANZ)

2015 Fellow of the Modelling and Simulation Society of Australia and New Zealand (MSSANZ)

2014 Vice-Chancellor's Award for Research Excellence, Team.
2014 Elected Fellow of the International Society for Bayesian Analysis
2012 Queensland University of Technology Award for Excellence in Postgraduate Research Supervision.
2010 Wesley Research Institute Outstanding Science Researcher.
2009 Queensland University of Technology Vice-Chancellor's Award for Research Excellence, Individual.
2009 Vice-Chancellor's Award for Research Excellence, Team.
2009 Cooperative Research Centre National Plant Biosecurity Award for Research Translation.
2007 Queensland University of Technology Faculty of Science award for outstanding research.
2005 Elected Fellow of the Institute of Mathematical Sciences

Key Professional Positions:

2017 President, International Society for Bayesian Analysis
2016 President Elect, International Society for Bayesian Analysis
2015 Associate Member, Department of Statistics, University of Oxford
2015 Member of the Task Team on Satellite Imagery, Remote Sensing and Geo-Spatial Data, under the UN Statistics Division Global Working Group (GWG) on Big Data for Official Statistics
2015 Executive member, International Society for Bayesian Analysis
2015 Invited member of Australian Research Council Centres of Excellence selection panel
2014 Invited Co-Editor of an issue of Statistical Science on "Big Bayes Stories"
2014–Present Chair of the Australian and New Zealand Journal of Statistics Management Committee
2013–2014 Elected Member of the International Advisory Board, International Biometrics Society.
2012–Present Appointed Member of the Biometrics and Biostatistics Panel, National Health and Medical Research Council.
2012–Present Appointed Member of the Panel for the Provision of Social Policy Research, Evaluation, Investment in Data and Professional Development Services, Australian Government Department of Families, Housing, Community Services and Indigenous Affairs.
2012–Present Reviewer, National Health and Medical Research Council Early Career Fellowships.
2012–Present Reviewer, Australian Research Council Future Fellows and Laureate Fellows.
2011–2013 Elected National President, Statistical Society of Australia.
2011–Present Elected Member of the Australian Academy of Sciences National Heads of Mathematical Sciences Committee.
2010 Appointed Member of the World Health Organisation International Committee for the Eradication of Malaria.
2009–2012 Elected Executive Member of the International Society for Bayesian Analysis,
2007–2011 Reviewer, New Zealand Marsden Foundation Grants.
2006–Present Reviewer, National Health and Medical Research Council Project Grants.
2005–2008 Elected Executive Member of the International Society for Bayesian Analysis.

2005–2009 Managing Editor for the Australian and New Zealand Journal of Statistics.
2004–2006 Elected Member of the Advisory Board for the Bayesian Analysis journal.
2004–2008 Founder and Inaugural President of the Australasian Chapter of the International Society for Bayesian Analysis.
2003-Present Reviewer, Australian Research Council Discovery and Linkage Projects.
2002–2004 Associate Editor for the Australian and New Zealand Journal of Statistics.
2002–2005 Associate Editor for Biometrics.
1998–2000, 2005–2016 Member of the Research Management Board of the Wesley Research Institute.

Postgraduate supervision:

52 postgraduate students completed. Since 2008: 39 completions (36 PhD; 3 Masters)

34 postgraduate students currently enrolled. (29 Phd; 5 Masters)

Prominent Invited Lectures in Past 5 years:

2017 Speaker: International Statistical Institute 61st World Statistics Congress, Marrakech, Morocco
2017 Keynote Speaker: 37th International Symposium on Forecasting, Cairns, Australia
2016 Keynote Address: International Symposium on Big Data Visual Analytics (BDVA'16), Sydney
2016 Keynote Address: 4th International Conference on Mathematical Sciences (ICMS4), Malaysia
2016 Presenter: Annual J Stuart Hunter Lecture, The International Environmetrics Society Conference, Edinburgh, UK
2016 Invited Speaker, InterDisciplinary Institute of Data Science (IDIDS), Università della Svizzera italiana, Lugano
2016 Invited speaker, International Society for Bayesian Analysis, Sardinia, Italy
2016 Invited Speaker, 2016 Spring Statistics Seminar Series, Bocconi University, Milan
2016 Distinguished Speaker 4th Institute of Mathematical Statistics Asia Pacific Rim Meeting, Hong Kong
2016 Invited speaker, ADAC Workshop Switzerland
2016 Invited speaker, QUT's Office Professional Network Group Luncheon.
2015 Plenary Speaker, world meeting of the IISA (International Indian Statistical Association) Pune, India December
2015 Plenary Speaker, 21st International Congress on Modelling and Simulation, Gold Coast, November
2015 Invited Speaker, International Conference in Statistics, Mathematics, Teaching, and Research (ICSMTR-2015) Makassar, Indonesia ; October
2015 Invited Speaker; Statistics in Ecology and Environmental Monitoring (SEEM) Queenstown, New Zealand, June
2015 Invited Speaker, 9th Workshop on Bayesian Inference in Stochastic Processes (BISP 2015), Istanbul, Turkey, June
2015 Invited Speaker, Games and Decisions in Reliability and Risk (GDRR 2015), Istanbul, Turkey, June

- 2015** Invited Session, Spatial Statistics 2015 Emerging Patterns, Avignon, France, June
- 2014:**Invited Speaker, Computational Techniques and Applications Conference (CTAC), Canberra, Australia, December.
- 2014:**Invited Speaker, First International Conference on Science, Makassar, Indonesia, November.
- 2014** Invited Speaker, World Meeting of the International Society for Bayesian Analysis, Cancun, Mexico, July.
- 2014** Invited Speaker, Joint Australian Statistical Conference and International Mathematical Sciences Conference, Sydney, Australia, June.
- 2014** Keynote Speaker, International Workshop on Monte Carlo Methods in High Dimensions, Isaac Newton Institute, Cambridge, United Kingdom, March.
- 2014** Keynote Speaker, Living Analytics Conference, Singapore, February.
- 2013** Keynote Speaker, Standards Trade and Development Fund Closing Meeting, Bangkok, Thailand, July
- 2013** Keynote Speaker, International MaxEnt Conference, Canberra , Australia, December.

Major Research Grants in Past 5 years:

- 2017** Expedia Inc, Strategic Decision Making Platform, Devitt, Mengersen, \$63,000
- 2017** Queensland Department of State Development, Queen's Wharf Development data plan for data design, acquisition, tracking and analysis, Mengersen; \$50,000
- 2017** Department of Science, Information Technology and Innovation (DSITI), Innovation for Data and Analytics Workflows, Harch, Mengersen, Petersen, Wynn, Dimech; \$240,000
- 2017** Department of Social Services, Data Exchange - Development of the Benchmarking Methodology, Mengersen, Wu, Taylor; \$685,000
- 2016** CRC for Spatial Information. Utilisation of Spatial Cancer Models: A National Cancer Atlas, Mengersen, Baade, Cramb, Moraga Serrano, Burrage, McGree et al, \$291,000
- 2016** Australian Institute of Health and Welfare. Utilisation of Spatial Cancer Models: A National Cancer Atlas, Mengersen, Baade, Cramb, Moraga Serrano, Burrage, McGree et al, \$100,000
- 2015** Australian Research Council Laureate Fellow. Bayesian Learning for Decision Making in the Big Data Era \$2,413,112. 2015-2020
- 2015** CRC Plant Biosecurity Developing Pest Risk models of Buffel Grass using Unmanned Aerial Systems and Statistical Methods Gonzalez, Hamilton, Mengersen, McMaugh. \$230,000. 2015-2016
- 2015** CRC for Spatial Information Monitoring Through Many Eyes: Spatially Enabling People to Protect the Great Barrier Reef, Mengersen, Bednarz, Winter, Petersen, Brown. \$410,000. 2015-2016
- 2015** Australian Agricultural Company (AACo) Development of Statistical Business Intelligence Dashboard to Trace and Track in Real Time the Movement of Livestock, Bednarz, Mengersen, Wu. \$658,000. 2015-2016
- 2015** CRC for Spatial Information A Big Data Approach for Estimating Carrying Capacity and Liveweight Gain Mengersen, Bednarz, \$339,000. 2015-2016
- 2014** Australian Research Council Centre of Excellence in Mathematical and Statistical Frontiers for Big Data, Big Models and New Insights. \$20,000,000. 2014-2018.

- 2014** ARC Discovery Project, New Directions in Bayesian Statistics: formulation, computation and application to exemplar challenges; Mengersen, \$239,000. 2014-2015.
- 2014** ARC Linkage Project, Improving Productivity and Efficiency of Australian Airports - A Real Time Analytics and Statistical Approach, Yarlagadda, Fookes, Mengersen, Sridharan, Goodwin, Allen, Gately et al; \$877,000. 2014-2017.
- 2014** ARC Linkage Project, Customer Responsive Risk-Managed Network Planning, Ledwich, Buys, Mengersen, Drogemuller, Bell, Walden; \$686,000. 2014-2017.
- 2014** Australian Institute of Marine Science (OCS), Model-Based Adaptive Monitoring: Improving the Effectiveness of Reef Monitoring Programs, Mengersen, McGree, Caley; \$100,000.
- 2014** State of Queensland acting through the Department of Environment and Heritage Protection, Effective strategies for translocation of endangered native fauna, Mengersen, Johnson, Bunce \$10,000.
- 2014** ARC Linkage Infrastructure Equipment and Facilities (LIEF), FlashLite: A High Performance Machine for Data Intensive Science; UQ, QUT, GU, Monash, UTS, Qld Cyber Infrastructure Foundation; Abramson, Zhou, Bernhardt, Zhang, Zhu, Mengersen, Griffiths, et al; \$1,000,000.
- 2014** Fitzroy Basin Association Inc, Provision of Statistical Support: Mengersen, Johnson, Pinto; \$216,000
- 2013** Department of Agriculture Fisheries and Forestry (QLD) (OCS). An Epidemiology Study of the Brisbane Infestation of *Solenopsis Invicta* (Fire Ant): Mengersen. \$341,000.
- 2013** Smart Futures Co-Investment Fund with Boeing Research and Technology - Australia (BR&T-A). Creating a more Resilient Queensland - Unmanned aircraft for emergency response and biosecurity (ResQu): Campbell, Alvarez, Gonzalaz, Upcroft, Fookes, Mengersen et al. \$3,500,000. 2013-2014.
- 2013** The Australian Mathematical Sciences Institute (AMSI Intern) (c/- University of Melbourne), Aus Tourism Data Warehouse; Mengersen, Thomas, Ballard; \$17,000.
- 2013** Hunter Industrial Medicine Pty Ltd, An Innovative Best Practice Framework for Monitoring, Managing and Reporting Occupational and Environmental Health, Mengersen, Tierney; \$34,000. 2013-2016.
- 2013** Healthy Waterways (OCS) Healthy Waterplay Statistical Decision Support Tools, Mengersen, Xie, Udy, Cleary, Wilson; \$15,000.

SOFTWARE LIST

bayesImageS: Bayesian Methods for Image Segmentation using a Potts Model

Zmix: Bayesian mixture model estimation and model selection

Datapasta: visualisation tool

Queuecomputer: simulation of dynamic network queues

PUBLICATION LIST

Scholarly Books:

1. A Morton, KL Mengersen, M Whitby, G Playford. Statistical Methods for Hospital Monitoring with R. Wiley, West Sussex, United Kingdom, ISBN 978-1-118-59630-2, 2013.
2. L Buys, K Mengersen, S Johnson, N Van Buuren, E Miller. A Triple Bottom Line Planning Tool for Measuring Sustainability: A Systems Approach to Sustainability Using the Australian Dairy Industry as a Case Study, Chartridge Books Oxford, 2014.

Edited Research Books:

1. CP Robert, K. Mengersen, DM Titterton. Editors, Mixtures: Estimation and Applications. Wiley, West Sussex, United Kingdom, ISBN 978-1-119-99389-6, 2011.
2. C Alston, K Mengersen, A Pettitt. Editors, Case Studies in Bayesian Statistical Modelling and Analysis. Wiley, West Sussex, United Kingdom, ISBN 978-1-119-94182-8, 2012
3. J. Koricheva, J. Gurevitch, K. Mengersen. Editors, Handbook of Meta-Analysis in Ecology and Evolution. Princeton University Press, New Jersey, USA, ISBN: 9781400846184, 2013.
4. F Jarrad, S Low-Choy, K Mengersen. Biosecurity Surveillance Quantitative Approaches, CABI Publishing, Wallingford, Oxenford, United Kingdom 2015.
5. MM Quinlan, K Mengersen, J Mumford, A Leach, J Holt, R Murphy (editors). Beyond Compliance: A Productuion Chain Framework for Plant Health Risk Management in Trade. Chartridge Books Oxford. ISBN 978-1-911033-10-3. 2016

Scholarly Book Chapters:

1. JM Marin, K Mengersen, CP Robert. Bayesian modelling and inference on mixtures of distributions. In Handbook of Statistics Vol. 25: Bayesian Statistics. D Dey and CR Rao (Eds). Elsevier, p459-508, 2005.
2. KL Mengersen. Markov chain Monte Carlo: An Update. In Encyclopedia of Biostatistics. P. Armitage and T. Colton (Eds). Wiley and Sons Ltd, Chichester. ISBN 0-470-84907-X, 2005.
3. P Rippon, KL Mengersen. Bayesian Learning. In Encyclopedia of Information Science. M. Khosrow-Pour (Ed). Information Resources Management Association, USA. (10 pp.) 2005.
4. E Stojanovski, K Mengersen. Multivariate Meta-Analysis. In Encyclopedia of Biopharmaceutical Sciences. (15pp.), 2006.
5. E Stojanovski, KL Mengersen. Bayesian Methods in Meta-Analysis. In Encyclopedia of Biopharmaceutical Sciences. (15pp.) 2006.
6. RJ Denham, KL Mengersen. Geographically assisted elicitation of expert opinion for regression models. In Bayesian Statistics 8. JM Bernardo, MJ Bayarri, JO Berger, AP Dawid, D Heckerman, AFM Smith, M West (Eds). Oxford University Press, ISBN-13:978-0-19-921465-5, 2007.
7. J Moller, KL Mengersen. Ergodic averages via dominating processes. Bayesian Statistics 8. In Bayesian Statistics 8. JM Bernardo, MJ Bayarri, JO Berger, AP Dawid, D Heckerman, AFM Smith, M West (eds). Oxford University Press. ISBN-13:978-0-19-921465-5, 2007.
8. K Lee, KL Mengersen, JM Marin, CP Robert. Bayesian inference on mixtures of distributions. In Perspectives in Mathematical Sciences I: Probability and Statistics. NSN Sastry, TSRK Rao, M Delampady, B Rajeev (Eds). Statistical Science and Interdisciplinary Research Volume 7, World Scientific Press, 24 pages, 2008.
9. DU Keogh, J Kelly, K Mengersen, R Jayaratne, L Ferreira, L Morawska. Tailpipe particle emission factors derived for motor vehicles for application to transport modelling and health impact assessments of

- urban fleets. In *Traffic Related Air Pollution and Internal Combustion Engines*, S Demidov and J Bonnet (Eds). Nova Science Publishers, ISBN 978-1-60741-145-1, p69-101, 2009.
10. S Low Choy, J Murray, A James, K Mengersen. Indirect elicitation from ecological experts: from methods and software to habitat modelling and rock-wallabies. In *The Oxford Handbook of Applied Bayesian Analysis*, A O'Hagan and M West (Eds), p511-544, 2010.
 11. C Robert, K Mengersen. Exact Bayesian analysis of mixtures. In *Mixtures: Estimation and Applications*. KL Mengersen, CP Robert and M Titterington (Eds). John Wiley and Sons, Ltd, p241-254, 2011.
 12. C Alston, KL Mengersen, G Gardner. Bayesian mixture models: A blood-free dissection of a sheep. In *Mixtures: Estimation and Applications*. KL Mengersen, CP Robert and M Titterington M (Eds), p293-308, 2011.
 13. MD Jennions, KL Mengersen. Meta-Analysis. In *Encyclopedia of Theoretical Ecology, Encyclopedias of the Natural World*, 4. A Hastings, L Gross. (Eds). University of California Press ISBN: 9780520269651, p423-425, 2012.
 14. S Low-Choy, A James, J Murray, K Mengersen. Elicitor: a user-friendly, interactive tool to support scenario-based elicitation of expert knowledge. In *Expert Knowledge and Its Application in Landscape Ecology*. A Perera, C Drew, CJ Ashton. Johnson, (Eds). Springer, ISBN 978-1-4614-1033-1, p 39-67, 2012.
 15. P Graham, K Mengersen, D Cook. Adapting ICU mortality models for local data: a Bayesian approach In *Case Studies in Bayesian Statistical Modelling and Analysis*. C Alston, K Mengersen and A Pettitt (Eds). John Wiley and Sons Ltd. p90-102, 2013.
 16. C Chen, K Mengersen, K Ickstadt, J Keith. A Bayesian regression model with variable selection for genome-wide association studies. In *Case Studies in Bayesian Statistical Modelling and Analysis*. C Alston, K Mengersen and A Pettitt (Eds). John Wiley and Sons, p103-117, 2013.
 17. J Pitchforth, K Mengersen. Bayesian meta-analysis. In *Case Studies in Bayesian Statistical Modelling and Analysis*. C Alston, K Mengersen and A Pettitt (Eds). John Wiley and Sons Ltd, p118-140, 2013.
 18. C Alston, C Strickland, K Mengersen, G Gardner. Bayesian mixed effects models. In *Case Studies in Bayesian Statistical Modelling and Analysis*. C Alston, K Mengersen and A Pettitt (Eds). John Wiley and Sons Ltd, p141-158, 2013.
 19. C Walsh, K Mengersen. Ordering of hierarchies in hierarchical models: Bone mineral density estimation. In *Case Studies in Bayesian Statistical Modelling and Analysis*. C Alston, K Mengersen and A Pettitt (Eds). John Wiley and Sons Ltd, p159-170, 2013.
 20. T Thamrin, J McGree, K Mengersen. Bayesian Weibull survival model for gene expression data. In *Case Studies in Bayesian Statistical Modelling and Analysis*. C Alston, K Mengersen and A Pettitt (Eds). John Wiley and Sons Ltd, p171-185, 2013.
 21. H Assareh, I Smith, AN Pettitt, KL Mengersen. Bayesian change point detection in monitoring clinical outcomes. In *Case Studies in Bayesian Statistical Modelling and Analysis*. C Alston, K Mengersen and A Pettitt (Eds). John Wiley and Sons Ltd, p186-196, 2013.
 22. M Donald, C Alston, R Young, K Mengersen. Moisture, crops and salination: An analysis of a three-dimensional agricultural data set. In *Case Studies in Bayesian Statistical Modelling and Analysis*. C Alston, K Mengersen and A Pettitt (Eds). John Wiley and Sons Ltd, p240-251, 2013.
 23. C Alston, K Mengersen, G Gardner. Bayesian mixture models: When the thing you need to know is the thing you cannot measure. In *Case Studies in Bayesian Statistical Modelling and Analysis*. C Alston, K Mengersen and A Pettitt (Eds). John Wiley and Sons Ltd, p267-286, 2013.

24. N White, H Johnson, P Silburn, J Rousseau, K Mengersen. Hidden Markov models for complex stochastic processes: A case study in electrophysiology. In *Case Studies in Bayesian Statistical Modelling and Analysis*. C Alston, K Mengersen and A Pettitt (Eds). John Wiley and Sons Ltd, p310-329, 2013.
25. R O'Leary, S Low Choy, H Hu, K Mengersen. Bayesian classification and regression trees. In *Case Studies in Bayesian Statistical Modelling and Analysis*. C Alston, K Mengersen and A Pettitt (Eds). John Wiley and Sons Ltd, p330-347, 2013.
26. J Lee, K Mengersen, C Robert. Issues in designing hybrid algorithms. In *Case Studies in Bayesian Statistical Modelling and Analysis*. C Alston, K Mengersen and A Pettitt (Eds). John Wiley and Sons Ltd, p403-420, 2013.
27. C Strickland, R Denham, C Alston, K Mengersen. A Python package for Bayesian estimation using Markov chain Monte Carlo. In *Case Studies in Bayesian Statistical Modelling and Analysis*. C Alston, K Mengersen and A Pettitt (Eds). John Wiley and Sons Ltd, p421-460, 2013.
28. K Mengersen, JM McGree & CH Schmid, Statistical Analysis of N-of-1 Trails, Chapter 12, In *The Essential Guide to N-of-1 Trails in Health*, J Nikles & G Mitchell (Eds), Springer, p135-153, 2015
29. K Mengersen, JM McGree & CH Schmid, Systematic Review and Meta-analysis Using N-of-1 Trails, Chapter 16, In *The Essential Guide to N-of-1 Trails in Health*, J Nikles & G Mitchell (Eds), Springer, p211-231, 2015
30. S Johnson, K Mengersen, M Ormsby & P Whittle, Using Bayesian networks to model surveillance in complex plant and animal health systems. In F Jarrad, S Low-Choy & K Mengersen, (Eds.) *Biosecurity Surveillance - Quantitative Approaches*. CABI, Wallingford, Oxenford, United Kingdom, pp. 278-295. 2015

Refereed Journal Publications:

1. E Bofinger and K Mengersen. Subset-selection of the t-best populations. *Communications in Statistics-Theory and Methods*, 15(10):3145–3161, 1986.
2. E Bofinger and K Mengersen. Simultaneous comparisons with a control and with the best. *Communications in Statistics-Theory and Methods*, 17(5):1507– 1540, 1988.
3. K Mengersen and E Bofinger. Confidence-bounds and selection of the t best populations. *Communications in Statistics-Simulation and Computation*, 17(3):927–945, 1988.
4. W Dunsmuir, R Tweedie, L Flack, and K Mengersen. Modelling of transitions between employment states for young Australians. *Australian and New Zealand Journal of Statistics* 31A (1), 165-196: 1989.
5. K Mengersen. Robustness to normality of a selection rule. *Communications in Statistics-Simulation and Computation*, 21(1):35–56, 1992.
6. RL Tweedie and KL Mengersen. Lung-cancer and passive smoking – reconciling the biochemical and epidemiologic approaches. *British Journal of Cancer*, 66(4):700–705, 1992.
7. E Bofinger and K Mengersen. An upper bound on a ratio of variances. *Communications in Statistics-Theory and Methods*, 22(7):1907–1922, 1993.
8. PJ Hutchinson and K Mengersen. The financial characteristics of dynamic small enterprises: predicting success and failure. *Journal of Enterprising Culture*, 1(2), 183-202, 1993.
9. KL Mengersen. And the winner is ... statistical selection for excellence in quality management. *Journal of Mathematical and Management Sciences*, 13, 177-194, 1993.
10. BJ Biggerstaff, RL Tweedie, and KL Mengersen. Passive smoking in the workplace - classical and Bayesian metaanalyses. *International Archives of Occupational and Environmental Health*, 66(4):269–277, 1994.

11. PJ Hutchinson and K Mengersen. The distributional properties of accounting ratios and stage of development of the firm. *Indian Journal of Accounting*, XXV, 31-40, 1994.
12. RL Tweedie, KL Mengersen, and JA Eccleston. Garbage in, garbage out: can statisticians quantify the effects of poor data? *Chance* 7, 20-27, 1994.
13. J Besag, P Green, D Higdon, and K Mengersen. Bayesian computation and stochastic systems (with discussion). *Statistical Science*, 10(1):3-41, 1995.
14. MJ Merrilees and K Mengersen. Sidestream cigarette-smoke and arteriosclerosis. *Circulation*, 91(12):3022-3023, 1995.
15. KL Mengersen, RL Tweedie, and B Biggerstaff The impact of method choice on meta-analysis. *Australian and New Zealand Journal of Statistics*, 37(1):19-44, 1995.
16. RL Tweedie and KL Mengersen. Metaanalytic approaches to dose-response relationships, with application in studies of lung-cancer and exposure to environmental tobacco-smoke. *Statistics in Medicine*, 14(5-7):545-569, 1995.
17. KL Mengersen and RL Tweedie. Rates of convergence of the Hastings and Metropolis algorithms. *Annals of Statistics*, 24(1):101-121, 1996.
18. RL Tweedie, DJ Scott, BJ Biggerstaff, and KL Mengersen. Bayesian metaanalysis, with application to studies of ETS and lung cancer. *Lung Cancer*, 14(1):S171-S194, 1996.
19. MA Haynes, HL MacGillivray, and KL Mengersen. Robustness of ranking and selection rules using generalised g-and-k distributions. *Journal of Statistical Planning and Inference*, 65(1):45-66, 1997.
20. LS Jermin, GJ Olsen, KL Mengersen, and S Easteal. Majority-rule consensus of phylogenetic trees obtained by maximum-likelihood analysis. *Molecular Biology and Evolution*, 14(12):1296-1302, 1997.
21. KL Mengersen, CP Robert, and C Guihenneuc-Jouyaux. MCMC convergence diagnostics: A review. In Bernardo, JM and Berger, JO and Dawid, AP and Smith, AFM, editor, *Bayesian Statistics 6*, pages 415-440. Univ Valencia; Int Soc Bayesian Anal; Bernoulli Soc Math Stat & Probabil; Natl Sci Fdn; Natl Secur Agcy; USA; British Council; Real Soc Math Espanola, 1999. 6th Valencia International Meeting on Bayesian Statistics, Alcoceber, SPAIN, JUN 06-10, 1998.
22. KL Mengersen, MJ Merrilees, and RL Tweedie. Environmental tobacco smoke and ischaemic heart disease: a case study in applying causal criteria. *International Archives of Occupational and Environmental Health*, 72(S):R1-R40, 1999.
23. AW George, KL Mengersen, and GP Davis. A Bayesian approach to ordering gene markers. *Biometrics*, 55(2):419-429, 1999.
24. CP Robert and KL Mengersen. Reparameterisation issues in mixture modelling and their bearing on MCMC algorithms. *Computational Statistics & Data Analysis*, 29(3):325-343, 1999.
25. R Tweedie and K Mengersen. Calculating accuracy rates from multiple assessors with limited information. *The American Statistician*, 53(3):233-238, 1999.
26. AW George, KL Mengersen, and GP Davis. Localization of a quantitative trait locus via a Bayesian approach. *Biometrics*, 56(1):40-51, 2000.
27. G Turrell and K Mengersen. Socioeconomic status and infant mortality in Australia: a national study of small urban areas, 1985-89. *Social Science & Medicine*, 50(9):1209-1225, 2000.
28. NM Good, M Paterson, C Brack, and K Mengersen. Estimating tree component biomass using variable probability sampling methods. *Journal of Agricultural Biological and Environmental Statistics*, 6(2):258-267, 2001.

29. D Nur, RC Wolff, and KL Mengersen. Phase randomisation: numerical study of higher cumulants behaviour. *Computational Statistics & Data Analysis*, 37(4):487–513, 2001.
30. F Perron and K Mengersen. Bayesian nonparametric modeling using mixtures of triangular distributions. *Biometrics*, 57(2):518–528, 2001.
31. K Williams, K Mengersen, and P Norman. Reliable Predictions for the Natural Occurrence of Blackbutt and Gympie Messmate in Southeast Queensland. *Australian Forestry* 63(3), 199-210, 2001.
32. G Casella, KL Mengersen, CP Robert, and DM Titterington. Perfect samplers for mixtures of distributions. *Journal of the Royal Statistical Society Series B—Statistical Methodology*, 64(Part 4):777–790, 2002.
33. WB Hu, K Mengersen, and SL Tong. Spline regression and auto-regression models with application to time-series data. *Epidemiology*, 13(4):S215, 2002.
34. L Morawska, ER Jayaratne, K Mengersen, M Jamriska, and S Thomas. Differences in airborne particle and gaseous concentrations in urban air between weekdays and weekends. *Atmospheric Environment*, 36(27):4375–4383, 2002.
35. L Morawska, D Vishvakarman, K Mengersen, and S Thomas. Spatial variation of airborne pollutant concentrations in Brisbane, Australia and its potential impact on population exposure assessment. *Atmospheric Environment*, 36(21):3545–3555, 2002.
36. KL Mengersen and CP Robert. IID sampling using self-avoiding population Monte Carlo: The pinball sampler. In Bernardo, JM and Bayarri, MJ and Berger, JO and Dawid, AP and Heckerman, D and Smith, AFM, editor, *Bayesian Statistics 7*, pages 277–292, 2003. 7th Valencia International Meeting on Bayesian Statistics, Valencia, SPAIN, JUN 02-06, 2002.
37. PM Kuhnert and K Mengersen. Reliability measures for local nodes assessment in classification trees. *Journal of Computational and Graphical Statistics*, 12(2):398–416, 2003.
38. PM Kuhnert, K Mengersen, and P Tesar. Bridging the gap between different statistical approaches: An integrated framework for modelling. *International Statistical Review*, 71(2):335–368, 2003.
39. PL Graham, K Mengersen, and AP Morton. Confidence limits for the ratio of two rates based on likelihood scores: non-iterative method. *Statistics in Medicine*, 22(12):2071–2083, 2003.
40. L Morawska, CR He, J Hitchins, K Mengersen, and D Gilbert. Characteristics of particle number and mass concentrations in residential houses in Brisbane, Australia. *Atmospheric Environment*, 37(30):4195–4203, 2003.
41. IS Nam, K Mengersen, and P Garthwaite. Multivariate meta-analysis. *Statistics in Medicine*, 22(14):2309–2333, 2003.
42. M.Y. Mortlock; N. M. Spencer & K.L Mengersen. Supporting statistics in the workplace: experiences with two hospitals. *Journal of Applied Mathematics and Decision Sciences*, 7(2), pp. 115-122. 2003.
43. D. Nur, & K.L Mengersen,. Considering ethnicity in teaching and learning statistics: should I worry about where my students come from? *Journal of Applied Mathematics and Decision Sciences*, 7(2), pp. 123-131. 2003
44. CL Alston, KL Mengersen, JM Thompson, PJ Littlefield, D Perry, and AJ Ball. Statistical analysis of sheep CAT scan images using a Bayesian mixture model. *Australian Journal of Agricultural Research*, 55(1):57–68, 2004.
45. RL Wolpert and KL Mengersen. Adjusted likelihoods for synthesizing empirical evidence from studies that differ in quality and design: Effects of environmental tobacco smoke. *Statistical Science*, 19(3):450–471, 2004.

46. M. R Salehi-Rad, Kerrie L Mengersen, & Gholamhossein Shahkar, Reservicing some customers in M/G/1 queues under three disciplines. *International Journal of Mathematics and Mathematical Sciences*, 32, pp. 1715-1723. 2004
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