

CURRICULUM VITAE

Adrian Gerard Barnett PhD, GStat, BSc (Hons)

Updated July 29, 2015

1 Personal information



Born: Jan 1973, Northampton, England. Nationalities: British, Australian. Sex: Male

1.1 Education and degrees

- PhD Mathematics: University of Queensland, December 2002:
“On the use of the bispectrum to detect and model non-linearity”
 - ★ Dean’s commendation list for Outstanding Research Higher Degree Theses
 - ★ Dean of Engineering, Physical Sciences and Architecture Annual Award for the best PhD
 - ★ Supervised by Prof Rodney Wolff
- Bachelor of Science in Statistics, First Class with Honours: University College London, 1994
 - ★ Honours project supervised by Prof Philip Dawid

1.2 Employment

Associate Professor: Institute of Health and Biomedical Innovation & School of Public Health, Queensland University of Technology, Aug 2010 to present

- **Senior Lecturer in Biostatistics:** Institute of Health and Biomedical Innovation & School of Public Health, Queensland University of Technology, Nov 2007 to Aug 2010
- **Senior Lecturer in Biostatistics:** School of Population Health, University of Queensland, Jan 2006 to Nov 2007
- **Statistician:** Interesource, Jun 2005 to Dec 2005
- **Research Fellow:** School of Population Health, University of Queensland, Apr 2002 to Jan 2006 (year’s leave of absence 2005)
- **Statistician (part-time):** Centre for Health Promotion and Cancer Prevention Research, University of Queensland, Sep 2001 to Apr 2002
- **Tutor in Mathematics and Statistics (part-time):** Queensland University of Technology, Mar 1999 to Jun 2000
- **Lecturer in Statistical Inference (part-time):** Queensland University of Technology, Aug to Sep 1999
- **SAS programmer:** SmithKline Beecham, Nov 1998 to Mar 1999
- **Statistician:** Medical Research Council, Wolfson Institute of Preventive Medicine, Jan 1996 to Nov 1998
- **Statistician:** SmithKline Beecham, Sep 1994 to Jan 1996

2 Research

2.1 Publications

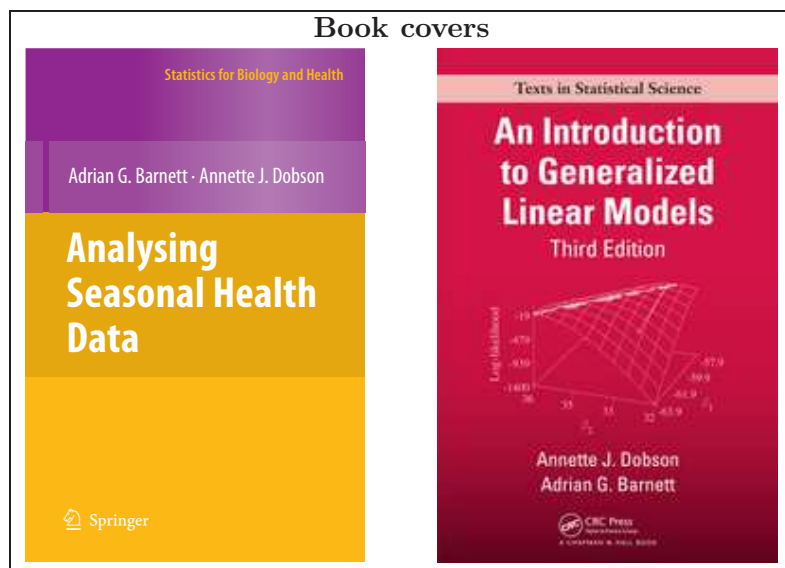
- I have 163 peer-reviewed publications, 2 books and 1 book chapter.
- My h-index is 41 for Google scholar.
- Nine of my papers have more than 100 citations.
- I never accept gift authorship and have made an important contribution to all my publications. As a statistician I have often helped colleagues with analyses, in these cases I ask that I am mentioned in the acknowledgements.

Key to publications list:

PC = Percent contribution, IF = Impact factor (where available), Statistical publications marked with a Σ

Books

- [1] Dobson, A. J. and **Barnett, A. G.** (2008) *An Introduction to Generalized Linear Models*. Texts in Statistical Science, Chapman & Hall/CRC, 3rd edn., PC=15% Σ .
- [2] **Barnett, A. G.** and Dobson, A. J. (2010) *Analysing Seasonal Health Data*. Statistics for Biology and Health, Springer, PC=90% Σ .



Book chapters

- [1] **Barnett, A. G.** and Hansen, C. A. (2009) How might the health effects of air pollution change when the planet gets warmer? Gow, K. M. (ed.), *Climate Change, Natural Disasters & Other Catastrophes: Fears and Concerns for the Future link*, Nova Science Publishers, PC=50%.

Peer-reviewed papers

- [1] Underwood, M. R., Vickers, M. R., and **Barnett, A. G.** (1997) Availability of services to treat patients with acute low back pain. *The British Journal of General Practice*, **47**, 501–502, PC=33%, IF=1.7.
- [2] Aquilina, J., **Barnett, A. G.**, Thompson, O., and Harrington, K. (1999) Second-trimester maternal serum inhibin A concentration as an early marker for preeclampsia. *American Journal of Obstetrics & Gynaecology*, **181**, 131–136, PC=25%, IF=3.5.
- [3] **Barnett, A. G.**, Underwood, M. R., and Vickers, M. R. (1999) Effect of UK national guidelines on services to treat patients with acute low back pain: follow up questionnaire survey. *BMJ*, **318**, 919–920, PC=35%, IF=17.2.
- [4] Underwood, M. R., **Barnett, A. G.**, and Vickers, M. R. (1999) Evaluation of two time specific back pain outcome measures. *Spine*, **24**, 1104–1112, PC=33%, IF=2.2.
- [5] Howell, S., **Barnett, A. G.**, and Underwood, M. R. (2001) The use of pre-conceptual folic acid as an indicator of a health message amongst white and Bangladeshi women in Tower Hamlets, east London. *Journal of Family Practice*, **18**, 300–303, PC=10%, IF=1.3.
- [6] O'Brien, M. F., Harrocks, S., Clarke, A., Garlick, B., and **Barnett, A. G.** (2002) Experiences with redo aortic valve surgery. *Journal of Cardiac Surgery*, **17**, 35–39, PC=5%, IF=0.8.
- [7] O'Brien, M. F., Harrocks, S., Clarke, A., Garlick, B., and **Barnett, A. G.** (2002) How to do safe sternal reentry and the risk factors of redo cardiac surgery. *Journal of Cardiac Surgery*, **17**, 4–13, PC=5%, IF=0.8.
- [8] Correa-Velez, I., Clavarino, A., Eastwood, H., and **Barnett, A. G.** (2003) Use of complementary and alternative medicine and quality of life: changes at the end of life. *Palliative Medicine*, **17**, 695–703, PC=5%, IF=1.9.
- [9] **Barnett, A. G.** and Dobson, A. J. (2004) Estimating trends and seasonality in coronary heart disease. *Statistics in Medicine*, **23**, 3505–3523, PC=80%, IF=1.5 Σ .
- [10] **Barnett, A. G.** and Dobson, A. J. (2004) Is the increase in coronary heart disease on Mondays an artifact? *Epidemiology*, **15**, 583–588, PC=85%, IF=5.4.
- [11] Sommerlad, B. C., Fenn, C., Harland, K., Sell, D., Birch, M. J., Dave, R., Lees, M., and **Barnett, A.** (2004) Submucous cleft palate: A grading system and review of 40 consecutive submucous cleft palate repairs. *Cleft Palate-Craniofacial Journal*, **41**, 114–123, PC=5%, IF=0.7.
- [12] Atkinson, J. A., McKenna, K. T., **Barnett, A. G.**, McGrath, D. J., and Rudd, M. (2005) A randomized, controlled trial to determine the efficacy of paper tape in preventing hypertrophic scar formation in surgical incisions that traverse Langer's skin tension lines. *Plastic and Reconstructive Surgery*, **116**, 1648–56, **Paper featured in Editorial**, PC=15%, IF=1.7.
- [13] **Barnett, A. G.** and Dobson, A. J. (2005) The excess in cardiovascular events on Mondays: a meta-analysis and prospective study. *Journal of Epidemiology and Community Health*, **59**, 109–114, PC=85%, IF=3.0.
- [14] **Barnett, A. G.**, Dobson, A. J., McElduff, P., Salomaa, V., Kuulasmaa, K., Sans, S., and WHO MONICA Project (2005) Cold periods and coronary events: an analysis of populations worldwide. *Journal of Epidemiology and Community Health*, **59**, 551–557, PC=75%, IF=3.2.
- [15] **Barnett, A. G.**, van der Pols, J., and Dobson, A. J. (2005) Regression to the mean: what it is and how to deal with it. *International Journal of Epidemiology*, **34**, 215–220, PC=70%, IF=5.8 Σ .
- [16] **Barnett, A. G.**, Williams, G. M., Schwartz, J., Neller, A. H., Best, T. L., Petroseshevsky, A. L., and Simpson, R. W. (2005) Air pollution and child respiratory health: a case-crossover study in Australia and New Zealand. *American Journal of Respiratory and Critical Care Medicine*, **171**, 1272–8, PC=60%, IF=11.0.

- [17] **Barnett, A. G.** and Wolff, R. C. (2005) A time-domain test for some types of non-linearity. *IEEE Transactions on Signal Processing*, **53**, 26–33, PC=70%, IF=2.3 Σ .
- [18] Chan, L., Shaw, A. G., Busfield, F., Haluska, B., **Barnett, A.**, Kesting, J., Short, L., Marczak, M., and Shaw, J. T. (2005) Carotid artery intima-media thickness, brachial artery flow mediated vasodilation and cardiovascular disease risk factors in diabetic and non-diabetic Indigenous Australians. *Atherosclerosis*, **180**, 319–326, PC=5%, IF=3.8.
- [19] McGrath, J. J., **Barnett, A. G.**, and Eyles, D. W. (2005) The association between birth weight, season of birth and latitude. *Annals of Human Biology*, **32**, 547–59, PC=45%, IF=0.9.
- [20] Stanton, W. R., **Barnett, A. G.**, and Silva, P. A. (2005) Adolescents' intentions to smoke as a predictor of smoking. *Preventive Medicine*, **40**, 221–6, PC=20%, IF=2.2.
- [21] Tooth, L., McKenna, K., **Barnett, A.**, Prescott, C., and Murphy, S. (2005) Caregiver burden, time spent caring and health status in the first 12 months following stroke. *Brain Injury*, **19**, 963–74, PC=5%, IF=1.5.
- [22] **Barnett, A. G.**, Williams, G. M., Schwartz, J., Neller, A. H., Best, T. L., Petroschevsky, A. L., and Simpson, R. W. (2006) The effects of air pollution on hospitalizations for cardiovascular disease in elderly people in Australian and New Zealand cities. *Environmental Health Perspectives*, **114**, 1018–23, PC=60%, IF=7.3.
- [23] **Barnett, A. G.** (2007) Temperature and cardiovascular deaths in the US elderly: Changes over time. *Epidemiology*, **18**, 369–372, IF=5.4.
- [24] **Barnett, A. G.**, Sans, S., Salomaa, V., Kuulasmaa, K., Dobson, A. J., and WHO MONICA Project (2007) The effect of temperature on systolic blood pressure. *Blood Pressure Monitoring*, **12**, 195–203, PC=75%, IF=1.8.
- [25] Bensink, M., Wootton, R., Irving, H., Hallahan, A., Theodoros, D., Russell, T., Scuffham, P., and **Barnett, A. G.** (2007) Investigating the cost-effectiveness of videotelephone based support for newly diagnosed paediatric oncology patients and their families: design of a randomised controlled trial. *BMC Health Services Research*, PC=5%, IF=1.6.
- [26] Carrigan, G., **Barnett, A. G.**, Dobson, A. J., and Mishra, G. D. (2007) Compensating for Missing Data from Longitudinal Studies Using WinBUGS. *Journal of Statistical Software*, **19**, PC=40% Σ .
- [27] Gray, D., Williams, G., Li, Y., Chen, H., Li, R., Forsyth, S., **Barnett, A. G.**, Guo, J., Feng, Z., and McManus, D. (2007) A cluster-randomized bovine intervention trial against *Schistosoma japonicum* in the Peoples' Republic of China: design and baseline results. *American Journal of Tropical Medicine & Hygiene*, **77**, 866–74, PC=5%, IF=2.6.
- [28] McGrath, J. J., **Barnett, A.**, Eyles, D., Burne, T., Pedersen, C. B., and Mortensen, P. B. (2007) The impact of nonlinear exposure-risk relationships on seasonal time-series data: modelling Danish neonatal birth anthropometric data. *BMC Medical Research Methodology*, **7**, PC=40%, IF=2.7 Σ .
- [29] Mishra, G. D., Carrigan, G., Brown, W. J., **Barnett, A. G.**, and Dobson, A. J. (2007) Short-term weight change and the incidence of diabetes in midlife: results from the Australian Longitudinal Study of Women's Health. *Diabetes Care*, **30**, 1418–1424, PC=10%, IF=7.8.
- [30] Stathakis, T., Acworth, J. P., and **Barnett, A. G.** (2007) A prediction tool for bacteraemia in febrile children aged 3–36 months. *Emergency Medicine Australasia*, **19**, 353–358, PC=10%.
- [31] **Barnett, A. G.**, Fraser, J. F., and de Looper, M. (2008) The seasonality in heart failure deaths and total cardiovascular deaths in Australia. *Australian and New Zealand Journal of Public Health*, **32**, 408–413, PC=90%, IF=1.3.
- [32] Bensink, M., Armfield, N., Irving, H., Hallahan, A., Theodoros, D., Russell, T., **Barnett, A.**, Scuffham, P., and Wootton, R. (2008) A pilot study of videotelephone-based support for newly diagnosed paediatric oncology patients and their families. *Journal of Telemedicine and Telecare*, **14**, 315–321, PC=5%, IF=0.9.

- [33] Clements, A. C. A., **Barnett, A. G.**, Nyandindi, U., Lwambo, N. J. S., Kihamia, C. M., and Blair, L. (2008) Age and gender effects in self-reported urinary schistosomiasis in Tanzania. *Tropical Medicine and International Health*, **13**, 713–721, PC=5%, IF=2.6.
- [34] Hansen, C. A., **Barnett, A. G.**, and Pritchard, G. (2008) The effect of ambient air pollution during early pregnancy on fetal ultrasonic measurements during mid-pregnancy. *Environmental Health Perspectives*, **116**, 362–369, PC=45%, IF=7.3.
- [35] Sanders, S., **Barnett, A.**, Doust, J., Coulthard, M., and Correa-Velez, I. (2008) A systematic review of the diagnostic accuracy of C-reactive protein for bacterial infection in infants and children. *Journal of Pediatrics*, **153**, 570–4, **Rated 6/7 on both relevance and newsworthiness by *BMJ updates*** PC=33%, IF=4.0.
- [36] **Barnett, A. G.**, Batra, R., Graves, N., Edgeworth, J., Robotham, J., and Cooper, B. (2009) Using a longitudinal model to estimate the effect of Methicillin-resistant *Staphylococcus aureus* infection on length of stay in an intensive care unit. *American Journal of Epidemiology*, **170**, 1186–1194, PC=75%, IF=5.5 Σ .
- [37] Bensink, M. E., Armfield, N. R., Pinkerton, R., Irving, H., Hallahan, A. R., Theodoros, D. G., Russell, T., **Barnett, A. G.**, Scuffham, P. A., and Wootton, R. (2009) Using videotelephony to support paediatric oncology-related palliative care in the home: from abandoned RCT to acceptability study. *Palliative Medicine*, **23**, 228–37, PC=5%, IF=1.9.
- [38] BurrIDGE, L., **Barnett, A. G.**, and Clavarino, A. (2009) The impact of perceived stage of cancer on carers' anxiety and depression during the patients' final year of life. *Psycho-Oncology*, **18**, 615–23, PC=5%, IF=2.6.
- [39] Clements, A. C., **Barnett, A. G.**, Cheng, Z. W., Snow, R. W., and Zhou, H. N. (2009) Space-time variation of malaria incidence in Yunnan province, China. *Malaria Journal*, **8**, PC=5%, IF=2.9.
- [40] Clements, A., et al. (2009) Use of Bayesian geostatistical prediction to estimate local variations in *Schistosoma haematobium* infection in western Africa. *Bulletin of the World Health Organization*, **87**, 885–964, PC=5%, IF=3.8.
- [41] Coory, M., Wills, R., and **Barnett, A. G.** (2009) Bayesian versus frequentist statistical inference for investigating a one-off cancer cluster reported to a health department. *BMC Medical Research Methodology*, **9**, PC=15%, IF=2.8 Σ .
- [42] Corley, A., Fraser, J. F., **Barnett, A. G.**, and Mullany, D. (2009) Nurse-determined assessment of cardiac output. Comparing a non-invasive cardiac output device and pulmonary artery catheter: a prospective observational study. *International Journal of Nursing Studies*, **46**, 1291–7, PC=15%, IF=2.3.
- [43] Eakin, E., Reeves, M., Lawler, S., Graves, N., Oldenburg, B., DelMar, C., Wilke, K., Winkler, E., and **Barnett, A.** (2009) Telephone counselling for physical activity & diet in type 2 diabetes & hypertension. *American Journal of Preventive Medicine*, **36**, 142–149, PC=5%, IF=3.5.
- [44] Fahy, S., Host, D., Campher, D., Tomczak, L., Vidhani, K., Higgs, M., **Barnett, A.**, Ziegenfuss, M., and Foot, C. (2009) The STAB trial - standardised testing of artificial blood. A comparative study of various products that may be used as artificial blood for high fidelity simulation training in the critical care setting. *Simulation in Healthcare*, **4**, 54–59, PC=10%, IF=1.8.
- [45] Graves, N., **Barnett, A. G.**, Halton, K. A., Veerman, J. L., Winkler, E., Owen, N., Reeves, M. M., Marshall, A., and Eakin, E. (2009) Cost-Effectiveness of a Telephone-Delivered intervention for physical activity and diet. *PLoS ONE*, **4**, e7135, PC=20%.
- [46] Gray, D. J., et al. (2009) A cluster-randomised intervention trial against *Schistosoma japonicum* in the Peoples' Republic of China: bovine and human transmission. *PLoS ONE*, **4**, e5900, PC=2%, PC=4.1.

- [47] Hansen, C. A., **Barnett, A. G.**, Jalaludin, B. B., and Morgan, G. G. (2009) Ambient air pollution and birth defects in Brisbane, Australia. *PLoS ONE*, **4**, e5408, PC=45%, IF=4.1.
- [48] Mahoney, G., Slade, G., Kitchener, S., and **Barnett, A. G.** (2009) Lifetime fluoridation exposure and dental caries experience in a military population. *Community Dentistry and Oral Epidemiology*, **36**, 485–92, PC=2%, IF=1.9.
- [49] Mullany, D., Foot, C., Smith, S. E., Johnson, J., and **Barnett, A. G.** (2009) Methods and preliminary results for a data linkage project to determine long-term survival after intensive care unit admission. *Critical Care and Resuscitation*, **11**, 191–7, PC=10%.
- [50] Saha, S., **Barnett, A. G.**, Foldi, C., Burne, T., Eyles, D. W., Buka, S. L., and McGrath, J. J. (2009) Advanced paternal age is associated with impaired neurocognitive outcomes during infancy and childhood. *PLoS Medicine*, **6**, e1000040, **Featured in Editorial**, PC=33%, IF=12.2.
- [51] Saha, S., **Barnett, A. G.**, Buka, S. L., and McGrath, J. J. (2009) Maternal age and paternal age are associated with distinct childhood behavioural outcomes in a general population birth cohort. *Schizophrenia Research*, **115**, 130–135, PC=25%, IF=4.2.
- [52] Wang, X. Y., **Barnett, A. G.**, Hu, W., and Tong, S. (2009) Temperature variation and emergency hospital admissions for stroke in Brisbane, Australia, 1996–2005. *International Journal of Biometeorology*, **53**, 535–541, PC=20%, IF=2.1.
- [53] Bellapart, J., Geng, S., Dunster, K., Timms, D., **Barnett, A.**, Boots, R., and Fraser, J. (2010) Intraaortic Balloon Pump counterpulsation and cerebral autoregulation: an observational study. *BMC Anesthesiology*, **10**, 3, PC=15%.
- [54] **Barnett, A. G.**, Koper, N., Dobson, A. J., Schmiegelow, F., and Manseau, M. (2010) Using information criteria to select the correct variance–covariance structure for longitudinal data in ecology. *Methods in Ecology and Evolution*, **1**, 15–24, PC=80% **Σ**, **In the journal’s top ten most read papers October 2009 to May 2010.**
- [55] Graves, N., Harbarth, S., Beyersmann, J., **Barnett, A. G.**, Halton, K., and Cooper, B. (2010) Estimating the cost of healthcare-acquired-infection: Mind your p’s and q’s. *Clinical Infectious Diseases*, **50**, 1017–21, PC=5%, IF=8.3.
- [56] Wijndaele, K., Healy, G. N., Dunstan, D. W., **Barnett, A. G.**, Salmon, J., Shaw, J. E., Zimmet, P. Z., and Owen, N. (2010) Increased cardio-metabolic risk is associated with increased TV viewing time. *Medicine & Science in Sports & Exercise*, **42**, 1511–8, PC=5%, IF=3.4.
- [57] **Barnett, A.**, Graves, N., Rosenthal, V. D., Salomao, R., and Rangel-Frausto, M. S. (2010) Excess length of stay due to a central line associated blood stream infections in intensive care units in Argentina, Brazil and Mexico. *Infection Control and Hospital Epidemiology*, **31**, 1106–14, PC=80%, IF=3.2, **Commentary by C J Crnich.**
- [58] **Barnett, A.**, Tong, S., and Clements, A. (2010) What measure of temperature is the best predictor of mortality? *Environmental Research*, **110**, 604–611, PC=85%, IF=3.0, **Commentary by Gasparrini & Armstrong.**
- [59] Correa-Velez, I., Gifford, S., and **Barnett, A.** (2010) Longing to belong: Social inclusion and wellbeing among youth with refugee backgrounds in the first three years in Melbourne, Australia. *Social Science & Medicine*, **71**, 1399–40, PC=5%, IF=2.7.
- [60] Guo, Y., Tong, S., Zhang, Y., **Barnett, A. G.**, Jia, Y., and Pan, X. (2010) The relationship between particulate air pollution and emergency hospital visits for hypertension in Beijing, China. *Science of the Total Environment*, **408**, 4446–50, PC=10%, IF=3.3.
- [61] Tong, S., Wang, X., and **Barnett, A. G.** (2010) Assessment of heat-related health impacts in Brisbane, Australia: Comparison of different heatwave definitions. *PLoS ONE*, **5**, e12155, PC=10%.

- [62] Eakin, E. G., et al. (2010) Living well with diabetes: a randomized controlled trial of a telephone-delivered intervention for maintenance of weight loss, physical activity and glycaemic control in adults with type 2 diabetes. *BMC Public Health*, **10**, 452, PC=2% IF=2.0, **Not peer reviewed**.
- [63] Guo, Y., Tong, S., Li, S., **Barnett, A. G.**, Yu, W., Zhang, Y., and Pan, X. (2010) Gaseous air pollution and emergency hospital visits for hypertension in Beijing, China: a time-stratified case-crossover study. *Environmental Health*, **9**, 57, PC=10%, IF=2.6.
- [64] Guo, Y., **Barnett, A. G.**, Zhang, Y., Yu, W., Tong, S., Pan, X., and Zhou, M. (2010) The short-term effect of air pollution on cardiovascular mortality in Tianjin, China: comparison of time series and case-crossover analyses. *Science of the Total Environment*, **409**, 300–6, PC=30%, IF=3.3, Σ .
- [65] **Barnett, A. G.**, Beyersmann, J., Allignol, A., Rosenthal, V. D., Graves, N., and Wolkewitz, M. (2011) The time-dependent bias and its effect on extra length of stay due to nosocomial infection. *Value in Health*, **11**, 381–386, PC=40%, IF=5.4, Σ .
- [66] Correa-Velez, I., **Barnett, A. G.**, Gifford, S. M., and Sackey, D. (2011) Health status and use of health services among recently arrived men with refugee backgrounds: A comparative analysis of urban and regional settlement in Southeast Queensland. *Australian Journal of Primary Health*, **17**, 66–71, PC=5%, IF=0.3.
- [67] Tung, J.-P., Fung, Y. L., Nataatmadja, M., Colebourne, K. I., Esmaeel, H. M., Wilson, K., **Barnett, A. G.**, Wood, P., Silliman, C. C., and Fraser, J. F. (2011) A novel in vivo ovine model of transfusion-related acute lung injury (TRALI). *Vox Sanguinis*, **100**, 219–230, PC=8%, IF=3.3, **Best original article published in Vox Sanguinis in 2011 & Graeme Nielson Best Published Paper 2011 Award (The Prince Charles Hospital)**.
- [68] Guo, Y., **Barnett, A. G.**, and Tong, S. (2011) A large change in temperature between neighbouring days increases the risk of mortality. *PLoS ONE*, **6**, e16511, PC=30%.
- [69] Rosenthal, V. D., et al. (2011) Time dependent analysis of length of stay and mortality due to urinary tract infections in ten developing countries: INICC findings. *Journal of Infection*, **62**, 136–41, PC=40%, IF=3.1.
- [70] Rosenthal, V. D. and et al (2011) Time-dependent analysis of extra length of stay and mortality due to ventilator-associated pneumonia in intensive-care units of ten limited-resources countries: findings of the international nosocomial infection control consortium (INICC). *Epidemiology and Infection*, **139**, 1757–63, PC=40%, IF=2.4.
- [71] Strand, L., **Barnett, A. G.**, and Tong, S. (2011) The influence of season and ambient temperature on birth outcomes: a review of the epidemiological literature. *Environmental Research*, **111**, 451–462, PC=30%, IF=3.0.
- [72] Bellapart, J., Chan, G., Tzeng, Y.-C., Ainsley, P., **Barnett, A. G.**, Dunster, K. R., Boots, R., and Fraser, J. F. (2011) The effect of ventricular assist devices on cerebral autoregulation: a preliminary study. *BMC Anesthesiology*, **11**, PC=2%.
- [73] **Barnett, A. G.**, Plonka, K., Seow, W. K., Wilson, L.-A., and Hansen, C. (2011) Increased traffic exposure and negative birth outcomes: a prospective cohort in Australia. *Environmental Health*, **10**, 26, PC=60%, IF=2.6.
- [74] Strand, L., **Barnett, A. G.**, and Tong, S. (2011) Methodological challenges when estimating the effects of season and seasonal exposures on birth outcomes. *BMC Medical Research Methodology*, **11**, 49, PC=45%, IF=2.7 Σ .
- [75] Corley et al (2011) Oxygen delivery through high-flow nasal cannulae increase end expiratory lung volume and reduce respiratory rate in post cardiac surgical patients. *British Journal of Anaesthesia*, **107**, 998–1004, PC=5%, IF=3.8.
- [76] Robotham, J. V., Graves, N., Cookson, B. D., **Barnett, A. G.**, Wilson, J. A., Edgeworth, J. D., Batra, R., Cuthbertson, B. H., and Cooper, B. S. (2011) Screening, isolation, and

- decolonisation strategies in the control of methicillin resistant *Staphylococcus aureus* in intensive care units: cost effectiveness evaluation. *BMJ*, **343**, d5694, PC=4%, IF=17.2, Editorial by Kluytmans & Harbarth.
- [77] Graves, N., **Barnett, A. G.**, and Clarke, P. (2011) Funding grant proposals for scientific research. retrospective analysis of grant review panel members' scores. *BMJ*, **343**, d4797, PC=40%, IF=17.2.
- [78] Huang, C. and et al (2011) Projecting heat-related mortality under climate change scenarios: A systematic review. *Environmental Health Perspectives*, **119**, 1681–90, IF=7.3, PC=5%.
- [79] Guo, Y., **Barnett, A. G.**, Pan, X., Yu, W., and Tong, S. (2011) The impact of temperature on mortality in Tianjin, China: A case-crossover design with a distributed lag non-linear model. *Environmental Health Perspectives*, **119**, 1719–25, IF=7.3, PC=30%.
- [80] Graves, N., **Barnett, A. G.**, and Rosenthal, V. (2011) Open versus closed IV infusion systems: a state based model to predict risk of catheter associated blood stream infections. *BMJ Open*, **1**, e000188, IF=1.6, PC=40%.
- [81] Wolkewitz, M., Allignol, A., Graves, N., and **Barnett, A. G.** (2011) Is 27 really a dangerous age for famous musicians? Retrospective cohort study. *BMJ*, **343**, PC=30%, IF=13.5, over 10,000 downloads in first 10 days after publication.
- [82] Magalhães, R. S., **Barnett, A. G.**, and Clements, A. C. A. (2011) Geographical analysis of the role of water supply and sanitation in the risk of helminth infections of children in West Africa. *PNAS*, **108**, 20084–9, PC=5%, IF=9.8.
- [83] Strand, L., **Barnett, A. G.**, and Tong, S. (2012) Maternal exposure to ambient temperature and the risk of preterm birth and stillbirth. *American Journal of Epidemiology*, **175**, 99–107, PC=45%, IF=5.5, **Commentary by Prof Scott Zeger.**
- [84] Wang et al (2012) The impact of heatwaves on mortality and emergency hospital admissions from non-external causes in Brisbane, Australia. *Occupational and Environmental Medicine*, **69**, 163–9, PC=5%, IF=3.6.
- [85] **Barnett, A. G.**, Munck, L., and Fraser, J. F. (2012) The effects of the 2009 dust storm on emergency admissions to a Brisbane hospital. *International Journal of Biometeorology*, **56**, 719–726, PC=70%, IF=1.8.
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- [158] Corley, M., Bull, T., Spooner, A. J., **Barnett, A G**, and Fraser, J. F. (2015) Direct

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- [159] Knibbs, L. D. and **Barnett, A G** (2015) Assessing environmental inequalities in ambient air pollution across urban Australia. *Spatial and Spatio-temporal Epidemiology*, **accepted March 2015**.
- [160] Clarke, P., Herbert, D., Graves, N., and **Barnett, A. G.** (2015) A high reliability of grant funding decisions in fellowships for early career researchers: evidence from a randomised trial. *Journal of Clinical Epidemiology*, **accepted Apr 2015**.
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Editorials/Letters

- [1] Underwood, M., **Barnett, A.**, and Hajooff, S. (1998) Cluster randomization: a trap for the unwary. *British Journal of General Practice*, **48**, 1089–1090, PC=30%, IF=2.3.
- [2] **Barnett, A. G.** (2003) On the use of the bispectrum to detect and model non-linearity. *Bulletin of the Australian Mathematical Society*, **67**, 527–528, IF=0.4 Σ .
- [3] **Barnett, A. G.** (2005) Meta-analysis of the risk of metachronous hernia in infants and children: an updated analysis. *American Journal of Surgery*, **189**, 126–127, IF=2.6.
- [4] **Barnett, A. G.** and Graves, N. (2008) Risk factors for the development of nosocomial pneumonia and mortality on intensive care units: Application of competing risks models (Commentary). *Critical Care*, **12**, 134, PC=85%, IF=3.1.
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- [6] Denton, K. and **Barnett, A. G.** (2008) Effects of early growth on blood pressure of British European and South Asian origin infants at one year of age: The Manchester children's growth and vascular health study (Editorial). *Journal of Hypertension*, **26**, 392–393, PC=40%, IF=4.0.
- [7] **Barnett, A.** (2008) Reduction in measurement error confounds cumulative pollution exposure. *Environmental Health Perspectives*, **116**, A419–A420, IF=7.3 Σ .
- [8] **Barnett, A.**, Tong, S., and Clements, A. C. A. (2010) Time series analysis on the health effects of temperature: two areas for future research. *Environmental Research*, **110**, 639, PC=90%, IF=3.0.
- [9] Graves, N., **Barnett, A. G.**, and Clarke, P. (2011) Cutting random funding decisions. *Nature*, **469**, **Invited letter**, PC=33%, IF=38.6.
- [10] Graves, N. and et al (2011) Cutting funding for health and medical research in Australia may do more harm than good. *MJA Insight*.
- [11] Graves, N. and et al (2011) The importance of good data, analysis and interpretation for showing the economics of reducing healthcare associated infection. *Infection Control and Hospital Epidemiology*.
- [12] **Barnett, A. G.** (2011) Time-dependent exposures and the fixed cohort bias. *Environmental Health Perspectives*, **119**, A422.
- [13] Wolkewitz, M., Cooper, B., **Barnett, A. G.**, Binder, N., and Schumacher, M. (2011) Treatment of hospital-acquired pneumonia. *Lancet Infectious Diseases*, **11**, 729.
- [14] Graves, N. and **Barnett, A. G.** (2011) Administrative burdens: Bureaucracy savings should go to research. *Nature*, **477**, PC=10%, IF=38.6.

- [15] Robotham, J. and et al (2011) Response to editorial by Kluytmans and Harbarth. *BMJ*, **343**.
- [16] Strand, L., **Barnett, A. G.**, and Tong, S. (2012) Response to “Epidemiology studies of the health associations of environmental exposures on preterm births”. *American Journal of Epidemiology*, **175**, 113.
- [17] **Barnett, A. G.** and Åström, C. (2012) Commentary: What measure of temperature is the best predictor of mortality? *Environmental Research*, **118**, 149–151.
- [18] **Barnett, A. G.** (2012) Fast food drive-through staff may be exposed to dangerous levels of exhaust fumes. *Australian & New Zealand Journal of Public Health*, **36**, 586.
- [19] Herbert, D. L., **Barnett, A. G.**, and Graves, N. (2013) Funding: Australia’s grant system wastes time. *Nature*, **495**, 314, **Correspondence**, PC=33%, IF=38.6.

Conference papers (published abstract)

- [1] Simpson, R., Williams, G., **Barnett, A.**, Neller, A., Best, T., Petroeschovsky, A., Denison, L., Neville, G., Sheppard, V., and Runnion, T. (2004) Multi-city studies in Australia and New Zealand: the impact of air pollution on daily mortality and morbidity (poster). *Epidemiology*, **15**, S54, PC=10%, IF=5.4.
- [2] **Barnett, A.**, Williams, G., Neller, A., Best, T., and Simpson, R. (2004) Investigating the time-varying effects of air pollution using distributed lagged models: A comparison of polynomial and window models. *Epidemiology*, **15**, S152, PC=90%, IF=5.4 Σ .
- [3] **Barnett, A.**, Neller, A., Best, T., Simpson, R., and Williams, G. (2004) Partitioned regression analysis compared to case-crossover analysis. *Epidemiology*, **15**, S155, PC=90%, IF=5.4 Σ .
- [4] Tong, S., Wang, X., and **Barnett, A.** (2009) Assessment of health impacts of heatwaves in Brisbane, Australia: How to best define a heatwave? *Epidemiology*, **20**, S59, PC=10%, IF=5.4.
- [5] **Barnett, A.**, Tong, S., and Clements, A. (2009) What measure of temperature is the best predictor of mortality? *Epidemiology*, **20**, S13, PC=90%, IF=5.4.
- [6] Fraser, J. F., Corley, A., Caruana, L. R., Tronstad, O., and **Barnett, A. G.** (2010) Nasal high flow oxygen increases end expiratory lung volumes, improves oxygenation and reduces work of breathing: A study using electrical impedance tomography. *Am J Respir Crit Care Med*, **181**, A1668.
- [7] **Barnett, A. G.**, Rocklöv, J., and Hajat, S. (2011) Changes in the susceptible pool and its impact on patterns in cardiovascular mortality. *Epidemiology*, **22**, S175, PC=90%, IF=5.4 Σ .
- [8] Strand, L. B., **Barnett, A. G.**, Plonka, K., Seow, K., Wilson, L.-A., and Hansen, C. (2011) Exposure to traffic and its influence on birth outcomes using a prospective cohort. *Epidemiology*, **22**, S197, PC=80%, IF=5.4 Σ .
- [9] **Barnett, A. G.** and aes, R. J. S. M. (2011) Mapping the comfort zone across the United States. *Epidemiology*, PC=80%, IF=5.4.
- [10] Guo, Y., **Barnett, A. G.**, and Tong, S. (2012) The effects of ambient temperature on cerebrovascular deaths in five cities, China. *Epidemiology*, PC=80%, IF=5.4.

Conference presentations (abstract not published; given by me when I am first author)

- [1] **Barnett, AG** and Underwood, M. (1997) Has the publication of national guidelines improved the availability of services to treat patients with acute low back pain? *MRC’s*

- General Practice Research Framework*, Warwick, UK.
- [2] **Barnett, AG** and Wolff, R. (2000) On the use of the bispectrum in detecting and modelling non-linearity. *National Mathematics Symposium*, Canberra, Σ .
 - [3] **Barnett, AG** and Wolff, R. (2000) A bootstrap test to detect non-linearity in time series based on the bispectrum. *15th Australian Statistical Conference*, Adelaide, Σ .
 - [4] **Barnett, AG** (2003) Using latent variables to model ordinal data. *Australian Statistical Conference (Queensland Branch)*, Toowoomba, Σ .
 - [5] Wolff, R. and **Barnett, AG** (2004) Some bootstrap tests for non-linearity and long memory in financial time series. *Econometric Society 2004 Australasian Meetings*, Σ .
 - [6] **Barnett, AG** and Schluter, P. (2004) Analysing ordinary longitudinal data: A comparison of simple regression, zero inflated models and latent variable models. *Australian Statistical Conference*, Cairns, Σ .
 - [7] Tooth, L., **Barnett, AG**, and Dobson, A. (2004) Using classification trees to weight for dropout and item non-response in longitudinal research. *3rd Conference of Epidemiological Studies in Europe*, Bristol, UK, Σ .
 - [8] Atkinson, J., et al, and **Barnett, AG** (2004) A randomized, controlled trial to determine the efficacy of paper tape in preventing hypertrophic scar formation in surgical incisions that traverse Langer's skin tension lines. *Royal Brisbane Hospital research conference*, Brisbane, **Winner Sir Ian McFarlane award**.
 - [9] **Barnett, AG** (2006) Modeling seasonality: the advantages of a Bayesian model applied to seasonal patterns in cardiovascular disease. *Spring Bayes Conference*, Brisbane, Σ .
 - [10] Hanson, C. and **Barnett, AG** (2006) The effects of ambient air pollution during pregnancy on fetal growth. *1st Northern Rivers Postgraduate Students' Symposium*, Byron Bay.
 - [11] Stephen, F., et al **Barnett, A**, et al, and Foot, C. (2007) Standardised testing of artificial blood: A comparative study of various products that may be used as artificial blood for high fidelity simulation training in the critical care setting. *Emergency Medicine*, Launceston, **Winner best paper**.
 - [12] **Barnett, AG** (2007) Assessing model fit: cross-validation and the deviance information criterion. *Spring Bayes Conference*, Coolangatta, **Invited speaker** Σ .
 - [13] Foot, C., et al, **Barnett, A**, and et al (2007) Long term survival analysis of cardiac surgical patients from 1994 to 2005 using the national death index. *ASCTS Meeting*, Noosa.
 - [14] McGrath, J., Saha, S., **Barnett, A**, and et al (2008) Is advanced paternal age associated with altered brain development? *The Australian Society for Psychiatric Research Annual Conference*.
 - [15] Robotham, J., **Barnett, A**, and et al (2009) Model-based assessment of the effectiveness and cost-effectiveness of methicillin-resistant staphylococcus aureus infection control programmes in the intensive care unit. *19th European Congress of Clinical Microbiology and Infectious Diseases*, Helsinki, Σ .
 - [16] Tung, J., et al, **Barnett, A**, and Fraser, J. (2009) Preliminary findings from an ovine model of blood component therapy developed to investigate transfusion-related acute lung injury (TRALI). *Combined Annual Scientific Meeting of the HSA NZ, ANZSBT and the ASTH*, **Winner Presidential Symposium Award**.
 - [17] **Barnett, A. G.**, Batra, R., Graves, N., Edgeworth, J., Robotham, J., and Cooper, B. (2009) Estimating the effect of MRSA infection on length of stay using a longitudinal model. *Meeting on nosocomial infections*, Freiburg, Germany, Σ , **Travel and accommodation paid**.
 - [18] **Barnett, A. G.** and Dobson, A. J. (2009) Seasonal models of disease that are non-sinusoidal and non-stationary. *International Biometric Society*, Dublin, Σ .
 - [19] Brightwell, R., **Barnett, A.**, and Walker, P. (2010) Seasonal variation in the rupture risk of

aneurysms in southeast Queensland. PC=30%.

Reports

- [1] Robotham, J. V., Graves, N., **Barnett, A. G.**, Cookson, B. D., Wilson, J., Worby, C. J., and Cooper, B. S. (2010) Model-based evaluation and cost-effectiveness analysis of methicillin-resistant staphylococcus aureus intervention policies (MECAMIP). PC=2%.

Other

- [1] **Barnett, A. G.** (2011) Counting the ways vehicle emissions (still) make us sick. *The Conversation*.
- [2] Graves, N., **Barnett, A. G.**, and Clarke, P. (2011) Fingers crossed: the role of randomness in medical research funding. *The Conversation*.
- [3] Graves, N., **Barnett, A. G.**, and Clarke, P. (2012) Submission to the strategic review of health and medical research. <http://www.mckeenreview.org.au>, PC=33%, **Invited to meet with panel for a private stakeholder meeting**.
- [4] **Barnett, A. G.** (2012) Why petrol bowsers deserve the same treatment as cigarette packs. *The Conversation*.
- [5] **Barnett, A. G.**, Graves, N., and Rocklöv, J. (2012) Creating a stink about traffic pollution. *The Conversation*.
- [6] **Barnett, A. G.**, Rocklöv, J., Hajat, S., and Fraser, J. (2012) Changes in the susceptible pool and its impact on patterns in cardiovascular mortality. *QUT eprints*, PC=90% Σ .
- [7] Corley, A., Rickard, C., Aitken, L., Johnston, A., **Barnett, A. G.**, and Fraser, J. (2012) High flow nasal cannulae for respiratory support in adult intensive care patients. *The Cochrane Library*, PC=5%.
- [8] Graves, N., **Barnett, A. G.**, and Clarke, P. (2013) Reform Australian universities by cutting their bureaucracies. *The Conversation*.
- [9] **Barnett, A** (2013) Opinion: Air pollution produces postcode lottery. *Newcastle Herald*.
- [10] **Barnett, A. G.**, Herbert, D., and Graves, N. (2013) The end of written grant applications: let's use a formula. *The Conversation*.
- [11] Huang, C. and **Barnett, A. G.** (2014) News & views: Winter weather and health. *Nature Climate Change*, **4**, 173–174.
- [12] **Barnett, A. G.** and Herbert, D. (2014) The personal cost of applying for research grants. *The Guardian*.
- [13] **Barnett, A. G.** (2014) Applying for funding is the worst part of my job. *AusHSI*.
- [14] Clarke, P., **Barnett, A. G.**, Herbert, D., and Graves, N. (2014) Better ways to spend the medical research future fund. *The Conversation*.
- [15] **Barnett, A. G.** (2014) Dirty air, dodgy politics: why it's easier to attack science than listen to morwell fire death stats. *The Conversation*.
- [16] **Barnett, A. G.**, Campbell, M., and Burns, C. (2015) Research funding for telemedicine: An australian perspective. *Journal of Telemedicine and Telecare*.

2.2 Best three papers (citation numbers from Google Scholar)

- Barnett AG, Williams GM, Schwartz J, Neller AH, Best TL, Petroschevsky AL, Simpson RW (2005) Air pollution and child respiratory health: a case-crossover study in Australia and New Zealand *American Journal of Respiratory and Critical Care Medicine*, **171**, 1272-8, Impact Factor = 9.8, citations = 205

The largest and best study in Australia and New Zealand to look at the effects of air pollution on child health. We found clear associations between emergency admissions to hospital and pollution. Cited by a meta-analysis and review paper in *Environmental Health Perspectives*. Cited by Queensland government reports on the Health Impacts of the Boggo Road Busway and Northern Link, and a 2011 national government report on vehicle emissions standards.

- Barnett AG (2007) Temperature and cardiovascular deaths in the US elderly - Changes over time *Epidemiology*, **18**, 369-72, Impact Factor = 5.4, citations = 95

This paper showed how the risks of heat-related death in the US declined from 1987 to 2000, but the risks of cold related deaths did not change and are still a significant public health problem. I discussed how relatively cheap interventions, such as wearing hats and gloves in cold weather, could prevent many deaths. This paper has been discussed by important recent reviews in *Epidemiology* and the *American Journal of Epidemiology*, by a *Lancet* paper by Paul Wilkinson on “Energy and Health”, a *Resources for the Future* report by Prof Jonathan Samet on “Adapting to Climate Change”, and a 2011 report by the US Institute of Medicine on “Climate Change, the Indoor Environment, and Health”.

- Hansen C, Barnett AG, Pritchard G (2008) The effect of ambient air pollution during early pregnancy on fetal ultrasonic measurements during mid-pregnancy *Environmental Health Perspectives*, **116**, 362-9, Impact Factor = 6.1, citations = 52

The world’s first paper to examine the health effects of air pollution on the fetus, thereby avoiding the measurement error of associating early pregnancy exposure with later birth outcomes. We found strong associations between increased exposure to air pollution and reduced fetal size.

2.3 Book details

I have co-authored two statistical books with Prof Annette Dobson.

- An Introduction to Generalized Linear Models
 - ★ 2,611 citations (Google scholar)
 - ★ Review by Erica E. M. Moodie (McGill University) in the *Journal of Biopharmaceutical Statistics*, “This book is an excellent resource, either as an introduction to or a reminder of the technical aspects of generalized linear models, and it provides a wealth of simple yet useful examples and datasets.”
 - ★ Recommended reading for “Applied Statistics” MAN414 (Coordinator Dr Helen Thompson); rated 5/5 in LEX, semester 2, 2009
 - ★ Rated 4.6 out of 5 on Amazon.com based on 8 customer reviews; customer comment: “the most clearly written book on the topic”
 - ★ Suggested further reading on *Wikipedia* page “Generalized Linear Models”
- Analysing Seasonal Health Data
 - ★ 69 citations (Google scholar)
 - ★ The first book to explain how to analyse seasonal data for a medical audience
 - ★ Contains many new methods for uncovering seasonal patterns
 - ★ Has an associated software package season in *R* written with Dr Peter Baker (UQ)
 - ★ Featured in news items in the Daily Telegraph, South African Sports Radio and ABC 612
 - ★ Review by M. C. Borja in *Significance*, “A useful book on an important subject and I would recommend it to anybody interested in the analysis of seasonal data”

2.4 Research funding

Successful chief investigator grants (total funds = \$7.9 million)

- National Environment Protection Council “Expansion of the Multi-City Mortality and Morbidity Study” CIA: Prof Rod Simpson (University of the Sunshine Coast) my role: CIE (study design, data management, statistical support, report writing) \$159,836, 2003
Two highly cited publications [16, 22] and 3 conference papers [1, 2, 3].
- CellCept Australia Research Grants “The implications of Brain Death in Donor Lung Injury: Investigation and Blockade of the Endothelin Axis”, CIA: A/Prof John Fraser (Prince Charles), my role: CIG (statistical support), \$40,000, 2008
- Australian Red Cross Blood Service “A Pilot Study to Assess the Suitability of an Ovine Model for the Investigation of Adverse Transfusion Reactions”, CIA: A/Prof John Fraser (Prince Charles & UQ), my role: CIF (statistical support), \$165,000, 2008–2009
- The Prince Charles Hospital Foundation “A Pilot Study to Assess the Suitability of an Ovine Model for the Investigation of Adverse Transfusion Reactions”, CIA: A/Prof John Fraser (Prince Charles & UQ), my role: CIF (statistical support), \$49,042, 2009–2010
- The Prince Charles Hospital Foundation “Direct extubation onto high flow nasal prongs post cardiac surgery vs standard treatment in patients with BMI \geq 30: A randomised controlled trial.” CIA: Amanda Corley (Prince Charles), my role: CID (statistical support), \$59,574
- Queensland Emergency Medicine Research Foundation “Optimisation of cardiac output in emergency patients through non invasive cardiac output monitoring in the acute resuscitation phase. What does it add?”, CIA: Dr Neil Grant (Prince Charles), my role: CIG (statistical support), \$300,000, 2010–2012,
- Queensland Emergency Medicine Research Foundation “C.R.A.S.H. study: A randomised study of tissue oxygenation in an ovine model of haemorrhagic shock comparing the effect of colloid, fresh red cells, aged red cells and saline.”, CIA: Dr Andrew Staib (Princess Alexandra & UQ), my role: CIG (statistical support), \$106,375, 2010
- NHMRC Partnership “Evaluating hand hygiene interventions and their ability to reduce healthcare associated infection”, CIA: A/Prof Nicholas Graves (QUT), my role: CIF (study design, statistical analysis, report writing), \$500,000 in cash from NHMRC, \$400,000 in cash from ACSQHC, \$408,693 in kind from state and territory governments, 2010–2012.
Publications: [91, 116, 124, 138, 151].
- AusAID “Are community based infection surveillance and control interventions effective in identifying and responding to emerging zoonotic infectious diseases in developing countries?”, CIA: Dr Kate Halton (QUT), my role: CIB (statistical analysis), \$59,500, 2011
Publications: [127].
- NHMRC Project “Building an evidence base for funding evidence-based medicine”, CIA: Adrian Barnett (QUT), \$308,510, 2011–2012, **Rated Category 6** (top 8.5% of proposals)
Publications: [19], [122, 136, 148, 154, 160, 161], [10, 12].
- NHMRC Project “Identifying a cost-effective approach to MRSA control in Australia”, CIA: Dr Kate Halton (QUT), my role: CID (statistical analysis), \$362,224 2011
- NHMRC Project “Modelling the cost-effectiveness of therapeutic strategies for invasive candidiasis among the ICU population”, CIA: Prof Nick Graves (QUT), my role: CID (statistical analysis), \$276,344 2011

- Australian College of Critical Care Nurses “High flow nasal cannula for respiratory support in adult intensive care patients. Australian College of Critical Care Nurses”, CIA Amanda Corley (Prince Charles), my role: CIE (statistical support), \$14,701, 2012
- NHMRC Project “A longitudinal multilevel study of physical activity, sedentary behaviour and physical function in mid-to-late adulthood”, CIA: Prof Gavin Turrell (QUT), my role: CIE (statistical analysis), \$1,269,867 2012
- CAR seed funding “Estimating the Australian burden of disease due to air pollution”, CIA: Sam Clifford, \$19,994, 2013.
- AusHSI Stimulus Grant “Saving blood and money introduction of laboratory testing guidelines and its effect on blood loss and cost of therapy in an intensive care unit”, CIA: Jayesh Dhanani, \$41,000, 2013.
- NHMRC Partnership “REACH: Researching Effective Approaches to Cleaning in Hospitals”, CIA: Nick Graves, my role: CIE (statistical analysis), \$646,817, 2014–2017.
- Queensland Government Accelerate Partnerships “CHERISH: better, cheaper hospital care”, CIA: Alison Mudge, my role: CI (statistical analysis and study design), \$498,228
- NHMRC Centre for Research Excellence “Centre for Research Excellence in Advanced Cardio-respiratory Therapies Improving Organ Support (ACTIONS)”, CIA: John Fraser, my role: CI (statistical support and student training), \$2,491,450, 2015–2019
- Heart Foundation Vanguard Grant “Using thermal clothing to reduce morbidity during winter”, my role: CIA, \$69,000, 2015–2016

Notable successful associate investigator grants (total funds = \$4.3 million)

- ARC “Quantifying the effects of criteria air pollutants on child health - setting Australian air quality standards” \$504,924, 2003
This grant supported the funds from the National Environment Protection Council grant (see above) which led to 2 high impact publications [16, 22] and 3 conference papers [1, 2, 3].
- NHMRC Project Grant “Talking the walk: A longitudinal study of refugee men’s health and resettlement” CIA: Ignacio Correa-Velez (La Trobe), \$420,250, 2008–2011. Data collection will be complete in May and we will start to analyse the results soon after.
Published paper: [59].
- NHMRC Project Grant “Hyperpolarised Helium MRI to quantify regional lung damage and ventilation for improvement of recruitment strategy” CIA: John Fraser (Prince Charles Hospital), \$437,500, 2008–2010.
- NHMRC Project Grant “Helping women meet their activity goals: randomised trial of a personalised program delivered by mobile telephone” CIA: Alison Marshall (QUT), \$480,475, 2010–2012.
Published paper: [152].
- NHMRC Project Grant “The unholy alliance between extracorporeal circuitry and transfusion medicine: characterising inflammation and injury” CIA: John Fraser (Prince Charles Hospital), \$929,299, 2011–2013.
- NHMRC “Centre for Research Excellence in Healthy, Liveable and Equitable Communities” CIA: Billie Giles-Corti (Uni of Melbourne), \$2,499,061, 2013–2018.
- Prince Charles Hospital Foundation “Silent and Apparent Neurological Injury In Transcatheter Aortic Valve Implantation (SANITY) Study” CIA: John Fraser (Prince Charles Hospital), \$99,272, 2014.

- Asia-Pacific Network for Global Change Research. “Scoping Workshop to Develop Proposal: Assessing the Health Effects of Extreme Temperatures and the Development of Adaptation Strategies to Climate Change in the Asia Pacific Region” CIA: Cunrui Huang, \$12,000, 2014.
- German Research Foundation Fellowship, Martin Wolkewitz, “Statistical insights into spatio-temporal variation in transmission dynamics of hospital-acquired infections using individual patient data” 259,800 €, 2011–2013 and re-funded for 2014–2016.

Published papers: [132, 135, 140].

2.5 Research students

- Ignacio Correa-Velez, PhD: Graduated April 2004, Evaluation of complementary and alternative medicine use in palliative care. My percent contribution: 30%.

Published paper: [8]. In 2006 Ignacio was awarded a 4-year National Health and Medical Research Council (NHMRC) Postdoctoral Research Fellowship (La Trobe). He is the chief investigator of a new investigator NHMRC project grant in 2007 titled, “Talking the walk: A longitudinal study of refugee men’s health and resettlement” for \$420,250. I was an associate investigator on this grant and have been involved in the project. This has led to a published paper: [59].

- Jo-An Atkinson, MSc: Graduated December 2005, Efficacy of paper tape in preventing hypertrophic scar formation. My percent contribution: 40%.

Published paper: [12]. Jo won the Sir Ian McFarlane award at the Royal Brisbane Hospital research conference (2004). Jo is currently a researcher at the School of Population Health, UQ.

- Darren Gray, PhD: Awarded June 2008, The role of bovines in human schistosoma japonicum transmission in the the Peoples’ Republic of China. My percent contribution: 10%.

Published papers: [27, 46]. Darren is currently a research fellow at UQ and a visiting scientist at QIMR.

- Letitia Burridge, PhD: Graduated December 2009, The experience of becoming a lay carer for a person with cancer. My percent contribution: 15%. Dean’s Award for Outstanding Research Higher Degree Theses in 2009.

Published paper: [38]. Letty now works as a postdoctoral researcher in the department of General Practice, UQ.

- Linn Strand, MPhil: Graduated Dec 2011. The influence of ambient temperature on birth outcomes in Brisbane, Australia. My percent contribution: 80%.

Published papers: [71, 74, 83]. Linn is now doing a PhD at the Norwegian University of Science and Technology.

- Kathryn Plonka, PhD: Graduated 2012. Preventive strategies for Early Childhood Caries from Antenatal to age 24 months. My percent contribution: 10%.

Published papers: [73, 108, 93, 112, 99, 107]. Video:
<http://www.uq.edu.au/grad-school/3mt-kathryn-plonka>

- Jim Zhao, PhD: Started Nov 2007. Economic evaluation of strategies for improving maternal and neonatal health in the Safe Motherhood Project of China. My percent contribution: 20%.

- Margaret Pukallus, MPhil A longitudinal study of oral streptococci in mothers and their infants: the effect of intervention strategies. My percent contribution: 5%.

Published papers: [108, 93, 110, 109].

- Yuming Guo, PhD: Graduated December 2012. Projecting the health benefits of decreasing vehicle use in Brisbane. My percent contribution: 75%.
Published papers: [60, 63, 64, 68, 79, 114, 104].
- Cunrui Huang, PhD: Awarded February 2013. The health effects of temperature: current estimates, future projections and adaptation strategies. My percent contribution: 70%.
Published papers: [78, 87, 89, 100, 117]. Cunrui was awarded a QUT **Outstanding Doctoral Thesis Award** in 2013. Cunrui won a Research Fellowship at Griffith University in 2013.
- Sophie Miller, PhD: Started Feb 2010. The mental health impact of the 2011 Brisbane floods . My percent contribution: 5%.
- Huong Tran Cam, PhD: Started Jun 2011. Location of residence and childhood temperament: Defining the possible role of Vitamin D together with environmental factors during pregnancy. My percent contribution: 40%.
- Xing Ju Lee, PhD: Started Feb 2013. Modelling VRE Transmission Routes to identify cost-effective intervention strategies. My percent contribution: 5%.
- Beatrice Sim, MPhil: Started May 2013. Risk of Nosocomial Infections with Age of Blood: A Retrospective Study. My percent contribution: 25%.
- Dimity Stephen, PhD: Started September 2013. Putting a price on climate change: The health and economic costs of increases in infectious diseases in Queensland due to climate change. My percent contribution: 80%.
- Marc Nickels, Masters: Started 2014. Early rehabilitation in intensive care units. My percent contribution: 5%.
- Yupin Crawford, Masters: Started 2014. The cost-effectiveness of gold standard Venous Thromboembolism prophylaxis as compared to current practice. My percent contribution: 20%.
- Anisa Rowhani-Farid, Masters: Started April 2015. Open science and data sharing movement in scientific research. My percent contribution: 90%.
- Victoria McCreanor, PhD: Started June 2015. Evaluating the drivers and implications of over-intervention in health care in Australia, using cardiac surgical interventions as a case study. My percent contribution: 10%.

I am a mentor for the International Society for Environmental Epidemiology Students & New Researchers Network for:

- Anders Erickson, Medical Sciences & Geography, University of Victoria, Canada, May 2014

2.6 International visitors

2014 Chisato Imai, Nagasaki University, Endeavour Cheung Kong Research Fellowship

2012 David Hondula, Virginia, USA, East Asia and Pacific Summer Institutes fellowship, National Science Foundation, paper: [137]

2011 Laila Hopstock, University of Tromsø, Norway, university scholarship, paper: [111]

2010 Martin Wolkewitz, Freiburg University, Germany, paper: [65]

2.7 Awards and scholarships

- Queensland University of Technology, Vice-chancellor's performance award \$6,000 (2013)
- One of 6 reviewers of the year for *Epidemiology*, IF=5.7, (2013)
- One of 9 reviewers of the year for *Environmental Health Perspectives*, IF=6.2, (2013)
- Runner-up best environmental epidemiology paper published in 2012 (Awards Committee Chair: Michael Brauer, University of British Columbia) [83]
- Best original article published in *Vox Sanguinis* (2011), €10,000, paper: [67]
- One of 11 reviewers of the year for *Environmental Health Perspectives*, IF=6.2, (2011)
- One of 12 reviewers of the year for *Environmental Health Perspectives*, IF=6.2, (2010)
- Queensland University of Technology, Vice-chancellor's performance award \$5,000 (2010)
- Queensland University of Technology, nominated for the Vice-chancellor's award for excellence (2010)
- University of Queensland, School of Population Health, School's Research Incentive Scheme \$2,500 (Mar 2005)
- UQ Dean of Engineering, Physical Sciences and Architecture award for Best PhD (2002)
- Commonwealth Government Department of Education, Science & Training International Postgraduate Research Scholarship (1999).

2.8 Refereeing

- Editorial Board of *Epidemiology* (IF = 5.6) 2013–2017, renewed 2015
- Statistical Advisory Board *BMJ Open* (IF = 2.0) 2013–present
- Statistics Advisor *Journal of Telemedicine and Telecare* 2007–present, renewed 2015
- Scientific Review committee for the Australian Centre for Health Services Innovation (2012–present).
- Editorial Review Board of *Environmental Health Perspectives* (IF = 6.1) 2011–present
- External reviewer for 7 NHMRC project grants (2008–2014).
- Statistical advisor to the *Journal of Telemedicine and Telecare* (IF = 0.9) from 2004–2009.
- Reviewed grants for funding agencies in Australia, the Czech Republic, Hong Kong, Israel and UK
- Reviewed 47 papers for *Circulation* (IF = 14.6) as a paid reviewer (USD \$50 per review)

3 Teaching

3.1 Lecturing, tutoring and co-ordination

- Coordinator, Advanced Research Methods: QUT, internal, 44 undergraduate students, 12 lectures, teaching satisfaction by 12 students 4.7 out of 5 (2011)
- Coordinator, Health Statistics: QUT, external, 59 postgraduate students, teaching satisfaction by 4 students 3.0 out of 5 (2011)
- Guest lecturer, Advanced Quantitative Research Methods: QUT, internal, postgraduate students, 2 lectures, teaching satisfaction by 5 students 4.6 out of 5 (2009)
- Coordinator, Advanced Quantitative Research Methods: QUT, internal, postgraduate students, teaching satisfaction by 14 students 4.1 out of 5 (2008)

- Coordinator, Health Statistics: QUT, external and internal, postgraduate students, teaching satisfaction by 10 students 4.7 out of 5 (2008)
- Lecturer, Introduction to Biostatistics: UQ, external and internal, postgraduate students, overall evaluation by 20 students 4.5 out of 5 (2007)
- Lecturer, Clinical Biostatistics, Biostatistics Collaboration Australia: UQ, external, postgraduate students, overall evaluation by 13 students 4.0 out of 5 (2006–2007)
- Lecturer, Measuring Population Health: UQ, postgraduate epidemiologists, overall evaluation by 11 students 4.3 out of 5 (2003)
- Tutor, Statistical Data Analysis 1: QUT, 1st year science and arts students, overall evaluation by 43 students 4.5 out of 5 (1999–2002)
- Tutor & Lecturer, Applied Statistics 2: QUT, 2nd year science students, overall evaluation by 23 students 4.2 out of 5 (1999)
- Demonstrator: QUT Science Train (1999)
- Tutor, Introduction to Statistics: Royal London Hospital, 1st year medical students (1998)

4 Professional activity

- Pitman Medal Awards Committee, Statistical Society of Australia (2012, 2014)
- President Queensland Branch Statistical Society of Australia (2011–2013)
- Member Queensland Branch Council, Statistical Society of Australia (1999–2000, 2010–2011)
 - ★ Presented at the very successful Christmas debate in 2009, “Bayesians vs Frequentists”, and was on the winning team!
 - ★ Organised a half-day meeting on meta-analysis at QUT for June 2010, attended by over 80 researchers.
 - ★ Represented the society at Science Meets Parliament in 2011 and met with senator Sue Boyce
- Workshop on Resource Condition Targets in Brisbane by South East Queensland Natural Resource Management (Apr 2008)
- Expert review of the Queensland Greens’ document on the health effects of air pollution (Aug 2008)
- Expert advisory panel for the *Queensland Evaluation Group* evaluating submissions for the Australian *Pharmaceutical Benefits Schedule* (2006–2007)
- NHMRC workshop in Canberra (flights and expenses paid) on air quality in and around traffic tunnels (May 2007)
- Critique of Queensland government report on the health effects of the Boggo Road Busway for a Brisbane parent’s group (Jul 2007)
- Critique of Queensland government report on the health effects of the Hale Street Bridge for a Brisbane parent’s group (Oct 2006)