

# Geoffrey Gerard MORGAN

## Abbreviated Academic Curriculum Vitae for 2009-November 2013

### CURRENT APPOINTMENT

**Associate Professor**, University Centre for Rural Health, *North Coast* (UCRH), School of Public Health, University of Sydney, since 2007

**Epidemiologist**, North Coast Public Health Unit, Mid North Coast Local Health District, NSW, since 1999

**NATIONALITY:** Australian

**LANGUAGE:** English – proficient

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### QUALIFICATIONS

2002 Doctor of Philosophy, University of Sydney

1979 Diploma in Education (Majors: Maths and Science), University of Melbourne, VIC

1978 Bachelor of Science (Majors: Physics and Mathematics), Deakin University, VIC

### Other Training:

2011 Methods for investigating associations of weather and climate with health (1 day). International Society for Environmental Epidemiology Conference Workshop Barcelona, Spain

2010 Introduction to Quantum GIS for disease mapping (2 day) University of Sydney

### APPOINTMENTS & MEMBERSHIPS

2012- Member, NHMRC Centre for Air quality and health research and evaluation (CAR). Research training subcommittee

2011-2012 UCRH Representative, Australian Rural Health Education Network - Research Leaders.

2010-2011 Member, Indoor pollutant levels and health effects from low emission unflued gas heaters in schools – Technical Advisory Committee

### CURRENT EMPLOYMENT

2007-current **Associate Professor**, UCRH, University of Sydney. Duties include: Coordinate the Environmental Health Unit (13 weeks, 4 credit points), Master of Public Health, University of Sydney. Undertake and lead the UCRH in epidemiological research into the environmental and social determinants of health and disease. Foster collaborative research links with external organisations. Supervise and provide training for students and foster research activities and training of colleagues. Seek research funding from external funding bodies.

1999-current **Epidemiologist**, North Coast Public Health Unit, NSW Ministry of Health. Duties include: Undertake epidemiological research into environmental and social determinants of health and disease, health service surveillance and research. Identify, investigate and report on possible or existing

environmental hazards within the North Coast. Provide support and promote scientific rigour in Unit.

## RESEARCH GRANTS

### Category 1-4

Chief Investigators	Project Title	Funding Body	Yr / Amt
Johnston F, Bowman D, Abramson M, Price O, <b>Morgan G</b> , Dennekamp M, Henderson S, Fogarty L, Quigley S, Torre P	Bushfires smoke and people: assessing the risks and benefits from planned burning on the urban-rural interface	Australian Research Council LP130100146Vi	2013-2016 \$559,330
Marks G, Jalaludin B, Abramson M, Williams G, Leeder S, Morawska L, Jones A, <b>Morgan G</b> , Dharmage S,	Understanding and ameliorating the human health effects of exposure to air pollution: from knowledge to policy and public health practice.	NHMRC CRE 1030259	2012-2016 \$2,411,000
Johnston F, Dennekamp M, Abramson M, <b>Morgan G</b> , Jalaludin B, Reisen F, Marks G, Lyth A	Smoke impacts on community health and social perceptions (ID DSESched8)	Victorian Dept of Sustainability and Environment via CRC Bushfire	2012-2014 \$540,000
Barclay L, Kruske S, <b>Morgan G</b> , Kildea S, Grzybowski S, Oats J, Donoghue D, Dunbar T	The development of a composite index of need for regional maternity services: The Australian Regional Birthing Index (ARBI)	NHMRC project 1024868	2012-2014 \$473,512
Mengersen K, Turrell G, Baade P, de Klerk N, Thralfall T, Miller L, Mullan N, Earnest A, <b>Morgan G</b>	Spatial-temporal modelling of cancer incidence, survival and mortality.	Cooperative Research Centre for Spatial Information P4.4.2	2011-2014 \$510,000
<b>Morgan G</b> , Saberi V, Ewald D, Clarke C, Corben P, Dunn T.	Severe chronic disease management - patient perspectives on avoiding hospital admission	NSW Institute of Rural Clinical Services and Teaching	2010-2011 \$97,000
Bowman D, Johnston F, <b>Morgan G</b> , Price O.	Understanding the health effects of landscape burning and biomass smoke in Australian towns and cities	ARC Linkage Grant LP0882048	2008-2011 \$440,000

### Other

**Morgan G.** Health Risk Assessment – Supplementary Report: The health impacts of air pollution in Australia NSW EPA 2013 \$19,800

**Morgan G.** The effects of neighbourhood environmental factors on health in the NSW 45 and Up Cohort, 2012-2013. \$50,000

**Morgan G.** Geocoding the NSW Pap Test Register NSW Health 2010-2011 \$30,000

**Morgan G.** Saberi V, Ewald D, Clarke C, Corben P, Dunn T. Severe chronic disease management audit. NSW Health 2010 \$40,000

**Morgan G.** Jalaludin B, Johnston The health effects of heat waves in NSW. NSW Health Dept, 200- 2010 \$88,000

**Morgan G.** The health impacts of air pollution in Sydney. NSW Health Dept, 2009; \$25,000

**Morgan G.** The economic costs of air pollution in Sydney. NSW Health Dept, 2009; \$25,000

## PUBLICATIONS

### Peer Reviewed Journal articles

Wilson L, A, **Morgan GG**, Ivan C Hanigan, Fay H Johnston, Hisham Abu-Rayya, Richard Broome, et al. The impact of heat on mortality and morbidity in the Greater Metropolitan Sydney Region: A case crossover analysis. *Environmental Health*. 2013 in press.

Donoghue D, Lincoln D, **Morgan G**, Beard J. Influences on the degree of preterm birth in New South Wales. *Australian and New Zealand Journal of Public Health*. 2013;37(6):563-7.

Martin K, Hannigan I, **Morgan G**, Henderson S, Johnston F. Air pollution events from bushfires and their association with hospital admissions in Sydney, Newcastle and Wollongong, Australia 1994-2007. *Australian and New Zealand Journal of Public Health*. 2013;37(3):238-43.

Longman J, Passey M, Singer J, **Morgan G**. The role of social isolation in frequent and / or avoidable hospitalisation: rural community based service providers' perspectives. *Australian Health Review* 2013;37(2): 223-31

Johnson F, Hannigan I, Henderson S, **Morgan G**. Evaluation of interventions to reduce biomass smoke air pollution on mortality in Launceston, Australia: a retrospective analysis of daily mortality from 1994-2007. *British Medical Journal*. 2013;345:e8446

Dadvand P, Parker J, Bell ML, Bonzini M, Brauer M, Darrow LA, Gehring U, Glinianaia SV, Gouveia N, Ha E, Leem JHH, van den Hooven E, Jalaludin B, Jesdale BM, Lepeule J, Morello-Frosch R, **Morgan GG**, Pesatori AC, Pierik FH, Pless-Mulloli T, Rich DQ, Sathyanarayana S, Seo J, Slama R, Strickland M, Tamburic L, Wartenberg D, Nieuwenhuijsen MJ, Woodruff TJ. Maternal exposure to particulate air pollution and term birth weight: a multi-country evaluation of effect and heterogeneity. *Environmental Health Perspectives* 2013

Summerhayes R, **Morgan G**, Edwards H, Lincoln D, Earnest A, Beard J, et al. Exposure to trihalomethane in drinking water and small for gestations age births. *Epidemiology* 2012;23(1):15-22.

Steinbeck K, Hazell P, Cumming R, Skinner S, Ivers R, Booy R, Hawke C, Fulcher G, Handelsman DJ, Martin AJ, **Morgan G**, Starling J, Bauman A, Rawsthorne ML, Bennett DL, Chow CM, Lam MK, Kelly P, Brown NJ, Paxton K. The study design and methodology for the ARCHER study - adolescent rural cohort study of hormones, health, education, environments and relationships. *BMC Pediatrics*. 2012;12(1):143.

Longman J, Rolfe M, Passey M, Heathcote K, Ewald DP, Dunn T, Barclay L, **Morgan G**. Frequent hospital admission of older people with chronic disease: A cross-sectional survey with telephone follow-up and data linkage. *BMC Health Services Research* 2012;12:373.

Summerhayes R, **Morgan G**, Lincoln D, Edwards H, Earnest A, Rahman M, et al. Spatio-temporal variation in trihalomethanes in New South Wales. *Water Research*. 2011;45:5715-26.

Parker JD, Rich DQ, Glinianaia SV, Leem JH, Wartenberg D, Bell ML, Bonzini M, Brauer M, Darrow L, Gehring U, Gouveia N, Grillo P, Ha E, van den Hooven EH, Jalaludin B, Jesdale BM, Lepeule J, Morello-Frosch R, **Morgan GG**, Slama R, Pierik FH, Pesatori AC, Sathyanarayana S, Seo J, Strickland M, Tamburic L, Woodruff TJ. The international collaboration on air pollution and pregnancy outcomes: Initial results. *Environmental Health Perspectives*. 2011;119(7): 1023-8.

Longman J, Singer J, Gao Y, Barclay L, Passey M, Pirotta J, **et al**. Community based service providers' perspectives on frequent and/or avoidable admission of older people with chronic disease in rural NSW: a qualitative study. *BMC Health Services Research*. 2011;11:265

Johnston F, Hanigan I, Henderson S, **Morgan G**, Portner T, Williamson G, et al. Creating an integrated historical record of extreme particulate air pollution events in Australian cities from 1994 to 2007. *Air and Waste Management Association* 2011;61(4):390-8.

Johnston F, Hanigan I, Henderson S, **Morgan G**, Bowman D. Extreme air pollution events from bushfires and dust storms and their association with mortality in Sydney, Australia 1994-2007. *Environmental Research*. 2011;111(6):811-6.

Duc H, Jalaludin B, **Morgan G**. Associations between air pollution and hospital visits for cardiovascular diseases in the elderly in Sydney using Bayesian statistical methods [reply]. *Australian and New Zealand Journal of Statistics*. 2011;53(2):257-61.

**Morgan G**, Sheppeard V, Khalaj B, Ayyar A, Lincoln D, Jalaludin B, et al. Effects of bushfire smoke on daily mortality and hospital admissions in Sydney, Australia. *Epidemiology*. 2010;21(1):1-9.

Earnest A, Beard JR, **Morgan G**, Lincoln D, Summerhayes R, Donoghue D, et al. Small area estimation of sparse disease counts using shared component models-application to birth defect registry data in New South Wales, Australia. *Health and Place*. 2010;16(4):684-93.

Hansen CA, Barnett AG, Jalaludin BB, **Morgan GG**. Ambient air pollution and birth defects in Brisbane, Australia. *PLoS ONE*. 2009;4(4):e5408.

Duc H, Jalaludin B, **Morgan G**. Associations between air pollution and daily emergency department visits for cardiovascular diseases in the elderly (65+ years) in Sydney using Bayesian statistical methods. *Australian and New Zealand Journal of Statistics*. 2009;51(3):289-303.

Beard JR, Lincoln D, Donoghue D, Taylor D, Summerhayes R, Dunn TM, Earnest A, **Morgan G**. Socioeconomic and maternal determinants of small for gestational age births: patterns of increasing disparity. *Acta Obstetrica et Gynecologica Scandinavica* 2009;88:575-83.

## CONFERENCE PRESENTATIONS

### Invited / Keynote Addresses

**Morgan G**. AARES mini symposium on Air Pollution Economics. Estimating Health Benefits using BenMAP. Australian Agricultural and Resource Economics Conference – 55<sup>th</sup> Annual Conference, Melbourne 2011.

**Morgan G**. The health effects of bushfire smoke in Australia Research Symposium – Bushfire Smoke Issues; Edith Cowan University – Centre for Ecosystem Management, 2011.

**Morgan G** The Health Impacts of Bushfires. NSW Clean Air Forum 2010; Sydney 2010

### Refereed Conference Papers

Morgan G, Martin K, Hanigan I, Henderson S, Johnston F. Wood smoke PM10 and hospital admissions in seven regional Australian towns. In: Perspect EH, editor. Conference of the International Society of Environmental Epidemiology (ISEE), the International Society of Exposure Science (ISES), and the International Society of Indoor Air Quality and Climate (ISIAQ); August 19–23; Basel, Switzerland 2013.

Summerhayes R, **Morgan G**, Lincoln D, et al. Spatio-temporal variation in trihalomethanes in new south wales. 23<sup>rd</sup> Annual Conference of the International Society of Environmental Epidemiology; Barcelona, Spain. 2011

**Morgan G**, Hanigan I, Abu-Rayya H, et al; The effects of heat waves on mortality and hospitalisation in Sydney, Australia 1994-2009. 23<sup>rd</sup> Annual Conference of the International Society of Environmental Epidemiology; September 2011 Barcelona, Spain:

Summerhayes R, **Morgan G**, Edwards et al. Exposure to trihalomethanes in drinking water and risk of small for gestational age births. International Society for Environmental Epidemiology Conference, August 2010; Seoul, South Korea.

**Morgan G.** The effects of air pollution on birthweight in Sydney, Australia. The International Collaboration on Air Pollution and Pregnancy Outcomes; August 2010; Seoul, South Korea.

## COURSE DEVELOPMENT AND TEACHING

### Teaching:

2008-current **Unit coordinator / Lecturer.** Environmental Health, Masters of Public Health, School of Public Health, University of Sydney, 13 week semester unit

### Research Students

Student	Degree	Research title
Darren Mayne University of Sydney 2011 -	PhD Supervisor	Environmental correlates of physical activity, obesity and psychosocial distress in New South Wales
Danielle Taylor University of Adelaide 2004 -	PhD Associate supervisor	Understanding birth weight variation: Temporal trends and spatial patterns in birth weight in NSW 1994 to 2004
Richard Summerhayes Southern Cross University 2003 -	PhD Supervisor	The spatial epidemiology of adverse birth outcomes and the association of adverse birth outcomes with disinfection by-products in drinking water in NSW, Australia
Arul Earnest University of Queensland Completed 2010	PhD Associate supervisor	Addressing issues in ecological bias, boundary analysis and formulation of the adjacency matrix in bayesian spatio-temporal analysis of sparse disease counts
Rupendra Shrestha Australian National University Completed 2009	PhD Associate supervisor	Mortality displacement in the association between air pollution and mortality in Christchurch, New Zealand