



The Institute for Rural Futures
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Graham Marshall

Associate Professor and Principal Research Fellow

Qualifications

- 2002 Doctor of Philosophy, School of Economics, University of New England (UNE).
- 1996 Master of Economics, Department of Agricultural and Resource Economics, UNE.
- 1980 Bachelor of Science in Agriculture (Hons 1, Agricultural Economics major), University of Sydney.

Recent Employment History

- 2013- Principal Research Fellow / Associate Professor, Institute for Rural Futures (IRF), School of Behavioural, Cognitive and Social Sciences (BCSS), UNE.
- 2013-16 Director (Rural & Environmental Research), IRF, BCSS, UNE.
- 2006-12 Program Leader, IRF, UNE.
- 2002-05 Australian Research Council Postdoctoral Fellow, IRF, UNE.
- 1997-01 PhD student, School of Economics, UNE.
- 1996-97 Lecturer, Department of Agricultural and Resource Economics, UNE.
- 1990-96 Senior Research Economist, Yanco Agricultural Institute, NSW Department of Agriculture.

Selected Publications

Books

Marshall, G.R., 2005. [*Economics for Collaborative Environmental Management: Renegotiating the Commons*](#), Earthscan, London.

Book Sections

- Nanedo, N. A., Prior, J. C., Lobry de Bruyn, L. and Marshall, G. R., 2014. 'Capacities for irrigation water governance at the local level: A case study from the Upper East Region of Ghana', in C.A. Brebbia and H. Bjornlund (eds.), *Sustainable Irrigation and Drainage V: Management, Technologies and Policies*. Southampton, U.K.: WIT Press, pp. 13-24.
- Marshall, G.R. 2011, 'What 'community' means for farmer adoption of conservation practices', in D.J. Pannell and F.M. Vanclay (eds), *Changing Land Management: Adoption of New Practices by Rural Landholders*, CSIRO Publishing, Melbourne, pp. 107-127.
- Pannell, D.J., Marshall, G.R., Barr, N., Curtis, A., Vanclay, F. and Wilkinson, R., 2011. 'Understanding and promoting adoption of conservation practices by rural landholders', in D.J. Pannell and F.M. Vanclay (eds), *Changing Land Management: Adoption of New Practices by Rural Landholders*, CSIRO Publishing, Melbourne, pp. 11-38.
- Marshall, G.R., 2010. 'Governance for a surprising world', in S. Cork (ed), *Resilience and Transformation: Preparing Australia for Uncertain Futures*, CSIRO Publishing, Melbourne, pp. 43-52.
- Marshall, G.R., 2009. 'Can community-based NRM work at the scale of large regions? Exploring the Roles of Nesting and Subsidiarity', in M.B. Lane, C. Robinson and B. Taylor (eds), [*Contested Country: Local and Regional Natural Resources Management in Australia*](#), CSIRO Publishing, Melbourne, pp. 43-57.
- Marshall, G., 2009, 'Box 7.3: The concepts of 'subsidiarity' and 'polycentricity'', in: W. Steffen, A.A. Burbidge, L. Hughes, R. Kitching, D. Lindenmayer, W. Musgrave, M. Stafford Smith and P.A. Werner, *Australia's Biodiversity and Climate Change*, CSIRO Publishing, Melbourne, p. 163.
- Marshall, G.R. 2008, 'Nesting, subsidiarity, and community-based environmental governance Beyond the local level', in D. Mukherjee (ed.) *Environmental Governance: Concepts, Relevance and Lessons*, The ICFAI University Press, India, pp. 203-232. ISBN 978-81-314-1903-8.
- Brunckhorst, D.J. and Marshall, G.R., 2006, 'Designing robust common property regimes for collaboration towards rural sustainability', in: A. Smajgl and S. Larson (eds), *Sustainable Resource Use: Institutional Dynamics and Economics*, Earthscan / James & James, London, pp. 191-220. ISBN 978-1-84407-459-4.
- Marshall, G.R. 2002, 'Catchments, contracts and voluntary cooperation: A case study of cost sharing in salinity management', in I.J. Reeve, D.J. Brunckhorst and J.K. Graham (eds), *Landscape Futures II: The Social and Institutional Dimensions, Proceedings of 2nd International Symposium on Landscape Futures*, Institute for Rural Futures, University of New England, Armidale ISSN 1443-7643, ISBN 1 86389 811 5.
- Marshall, G., 1993. '[Organic agriculture in Australia: An economist's perspective](#)', in: Small, D., Auld, D., Wilson, K. and Bouchier, J. (eds), *Organic Agriculture: A Serious Form of Agriculture*, Northern Victoria Branch of the Australian Institute for Agricultural Science.

Journal articles and notes

- Marshall, G.R., Coleman, M.J., Sindel, B.M., Reeve, I.J. and Berney, P.J. 2016. Collective action in invasive species control, and prospects for community-based governance: The case of serrated tussock (*Nassella trichotoma*) in New South Wales, Australia. *Land Use Policy* 56: 100-111.
- Marshall, G.R., 2015. 'A social-ecological systems framework for food systems research', *International Journal of the Commons* 9(2): 881-908.
- Curtis, A., Ross, H., Marshall, G.R., Baldwin, C., Cavaye, J., Freeman, C., Carr, A., and Syme, G.J., 2014. 'The great experiment with devolved NRM governance: Lessons from community engagement in Australia and New Zealand since the 1980s', *Australasian Journal of Environmental Management* 21(2): 175-199.
- Marshall, G.R., Connell, D. and Taylor, B.M., 2013. 'Australia's Murray-Darling Basin: A century of polycentric experiments in cross-border integration of water resources management', *International Journal of Water Governance*, 1, 197-218.
- Marshall, G.R., 2013. 'Transaction costs, collective action and adaptation in managing complex social-ecological systems', *Ecological Economics*, 88, 185-194.
- Marshall, G.R. and Stafford Smith, D.M., 2010. 'Natural resources governance for the drylands of the Murray-Darling Basin', *The Rangeland Journal*, 32(3), 267-282.
- Marshall, G.R., 2010. 'Climate change, economics and hope: A comment on Brennan', *Australian Journal of Agricultural and Resource Economics*, 54(1), 1-4.
- Marshall, G.R., 2009. 'Polycentricity, reciprocity, and farmer adoption of conservation practices under community-based governance', *Ecological Economics*, 68(5), 1507-1520.
- Marshall, G.R., 2008. 'Nesting, subsidiarity, and community-based environmental governance beyond the local scale', *International Journal of the Commons*, 2(1), 75-97.
- Pannell, D.J., Marshall, G.R., Barr, N., Curtis, A., Vancley, F. and Wilkinson, R., 2006. 'Understanding and promoting adoption of conservation practices by rural landholders', *Australian Journal of Experimental Agriculture*, 46(11), 1407-1424.
- Cacho, O.J., Marshall, G.R. and Milne, M., 2005, 'Transaction and abatement costs of carbon-sink projects in developing countries', *Environment and Development Economics*, 10(5), 597-614.
- Marshall, G.R., Fritsch, S.J. and Dulhunty, R.V., 2005, '[Catalyzing common property farming for rural sustainability: Lessons from the Furracabad Valley](#)', *Australian Agribusiness Review*, 13, paper 17.
- Marshall, G.R., 2004. 'Farmers cooperating in the commons? A study of collective action in salinity management', *Ecological Economics*, 51(3-4), 271-286.
- Marshall, G.R., 2004. 'From words to deeds: Enforcing farmers' conservation cost-sharing commitments', *Journal of Rural Studies*, 20(2), 157-167.
- Marshall, G.R., 2002. 'Institutionalising cost sharing for catchment management: Lessons from land and water management planning in Australia', *Water, Science and Technology*, 45(11), 101-112.
- Marshall, G.R. and Brennan, J.P., 2001. 'Issues in benefit-cost analysis of agricultural research projects', *Australian Journal of Agricultural and Resource Economics*, 45(2), 195-213.
- Marshall, G.R., Jones, R.E. and Wall, L.M., 1997. 'Tactical opportunities, risk attitude and choice of farming strategy: an application of the distribution method', *Australian Journal of Agricultural and Resource Economics*, December, 41(4), 499-519.

- Marshall, G.R. and Jones, R.E., 1997. 'Significance of supply response for estimating agricultural costs of soil salinity', *Agricultural Systems* 53, 231-252.
- Marshall, G.R., Parton, K.A. and G.L. Hammer, 1996. '[Risk attitude, planting conditions and the value of seasonal forecasts to a dryland wheat grower](#)', *Australian Journal of Agricultural Economics* 40(3), 211-234.
- Marshall, G.R., Wall, L.M and Jones, R.E., 1996. '[Economics of integrated catchment management](#)', *Review of Marketing and Agricultural Economics* 64(2), 166-176.
- Brennan, J.P., Lewin, L.G., Marshall, G.R. and Reinke, R.F., 1994. 'An economic assessment of rice breeding in New South Wales', *Australian Journal of Experimental Agriculture* 34, 889-896.
- Marshall, G. and Jones, R., 1993. '[On-farm economics of laser landforming for rice farmers](#)', *Review of Marketing and Agricultural Economics* 61(1), 73-90.
- Jones, R. and Marshall, G., 1992. '[Land salinisation, waterlogging and the agricultural benefits of a surface drainage scheme in Benerembah Irrigation District](#)', *Review of Marketing and Agricultural Economics* 60(2), 173-189.
- Marshall, G., 1992. 'The future of organic farming in Australia', *Australian Journal of Soil and Water Conservation* 5(2), 33-35.
- Marshall, G.R., 1991. '[Organic farming: Should government give it more technical support?](#)', *Review of Marketing and Agricultural Economics* 59(3), 283-296.

Refereed Conference Proceedings

- Morley, P., Parsons, M., Marshall, G.R., Hastings, P., Glavac, S., Stayner, R., McNeill, J., McGregor, J. and Reeve, I., 2015. 'The Australian Natural Disaster Resilience Index', Proceedings of the 5th International Conference on Building Resilience, p. 496-1-496-13, University of Newcastle, Australia, 15th - 17th July.
- Nanedo, N.A., Prior, J.C., Lobry de Bruyn, L. and Marshall, G.R., 2014. 'Capacities for irrigation water resource governance at the local level: Case study from the Upper East Region of Ghana'. Paper presented to the 5th Sustainable Irrigation 2014 Conference, Poznan, Poland, June 19-22.
- Berney, P.J., Sindel, B.M, Coleman, M.J., Marshall, G.R., Reeve, I.J., and Kristiansen, P.E, 2012. 'Improving regional adoption of weed control: a case study'. In: V. Eldershaw (ed.), Proceedings of the 18th Australasian Weeds Conference, Melbourne, 8th – 11th October, pp. 170-173.
- Lobry de Bruyn, L. and Marshall, G., 2006. 'Re-defining the learning needs of local NRM officers for regional NRM in Australia', Paper presented to the International Landcare Conference, Melbourne, October 8-11.
- Marshall, G.R. 2002. 'Catchments, contracts and voluntary cooperation: A case study of cost sharing in salinity management'. In: Graham, J., Reeve, I. and Brunckhorst, D. (eds), *Landscape Futures II: Social and Institutional Dimensions*. Proceedings of the 2nd International Symposium on Landscape Futures, 4-6 December, 2001, Armidale, Institute for Rural Futures and University of New England.

Dissertations

- Marshall, G.R., 2001. [Crafting cooperation in the commons: An economic analysis of prospects for collaborative environmental governance](#), Unpublished Ph.D. thesis, Faculty of Economics, Business and Law, UNE, Armidale, Australia.

- Marshall, G.R., 1996. Risk attitude, planting conditions and the value of climate forecasts to a dryland wheat grower, Unpublished M.Ec. dissertation, Faculty of Economics, Business and Law, UNE, Armidale, Australia.
- Marshall, G. R., 1980. The demand for and value of outdoor recreation at the Warrumbungle National Park, Unpublished B.Sc.Agr. Honours dissertation, Department of Agricultural Economics, Faculty of Agriculture, University of Sydney, Australia.

Book Reviews

- Marshall, G.R., 2007. 'Collaborative Environmental Management: What Roles for Government?', by Tomas M. Koontz, Toddi A. Steelman, JoAnn Carmin, Katrina Smith Korfmacher, Cassandra Mosely and Craig W. Thomas, Resources for the Future Press, Washington, DC, USA, 2004, 210pp., ISBN: 1891853821. Reviewed for *Ecological Economics*, 62, 373-374.
- Marshall, G.R., 2002. 'Communities and the Environment: Ethnicity, Gender, and the State in Community-based Conservation', edited by Arun Agrawal and Clark C. Gibson, Rutgers University Press, New Brunswick, USA, 2001, pp. xiv + 205, ISBN 0 8135 2913 1 (hdbk), 0 8135 2914 X (pbk). Reviewed for *Australian Journal of Agricultural and Resource Economics*, 46(3): 480-483.

Selected conference papers

- Marshall, G.R., 2015. 'Polycentricity, subsidiarity and adaptive efficiency', Paper presented to the International Workshop on Polycentricity, Workshop in Political Theory and Policy Analysis, Indiana University, Bloomington, Indiana, USA, 14-17 December.
- Marshall, G.R., 2015. 'Polycentricity and adaptive governance', Paper presented to the 15th Biennial Conference of the International Association for the Study of Commons, Edmonton, Canada, 25-29 May.
- Marshall, G.R., 2015. 'Institutional path dependence and the political economy of water policy reforms: Environmental water recovery in Australia's Murray-Darling Basin', Paper presented to the 15th Biennial Conference of the International Association for the Study of Commons, Edmonton, Canada, 25-29 May.
- Marshall, G.R., 2013. 'Transaction costs, collective action and adaptation in managing social-ecological systems', Paper presented to the 57th Annual Conference of the Australian Agricultural and Resource Economics Society, Sydney, 6-8 February.
- Marshall, G.R., 2010. '[Extending INFFER to account for community and other capacity spillovers in economic evaluation of environmental investments](#)', Paper presented to the 54th Annual Conference of the Australian Agricultural and Resource Economics Society, Adelaide, 10-12 February.
- Marshall, G.R., Patrick, I.W., A. Muktasam and I.G.A.A. Ambarawati, 2006. '[Alleviating poverty by linking smallholders with agribusiness: Roles of social capital and common property](#)', Paper presented to the 11th Biennial Conference of the International Association for the Study of Common Property, Ubud, Bali, Indonesia, 19-23 June.
- Marshall, G.R., 2003. '[Towards a resource economics for adaptive managers](#)', Paper presented at the 47th Annual Conference of the Australian Agricultural and Resource Economics Society, Fremantle, 12-14 February.
- Marshall, G.R., 1998. '[Economics of cost sharing for agri-environmental conservation](#)', Paper presented at the 42nd Annual Conference of the Australian Agricultural and

Resource Economics Society, University of New England, Armidale, 19-21 January.

Selected reports, submissions, and other publications

- Parsons, M.P., Morley, P., Marshall, G.R., Glavac, S.M., Hastings, P., Reeve, I., Stayner, R., McNeill, J., McGregor, J., 2016. The Australian Natural Disaster Resilience Index: Conceptual Framework and Indicator Approach, Technical Report no. 2016.157, Bushfire and Natural Hazards Cooperative Research Centre, Melbourne.
- Marshall, G.R., 2014. Adaptive governance of cross-border river basins: Institutionalising sophisticated subsidiarity, Reflections on water reform in the Colorado and Murray-Darling Basins, Global Water Forum, Canberra. Available from <http://www.globalwaterforum.org/wp-content/uploads/2014/01/Graham-Marshall-FINAL.pdf>
- Marshall, G.R., 2011. [Submission to the review of Caring for our Country](#), Institute for Rural Futures, University of New England, Armidale, 17 May.
- Marshall, G.R., 2011. Improving economic accountability of investment decisions under community-based environmental governance. Final report from the project '[Improving economic accountability when using decentralized, collaborative approaches to environmental decisions](#)', Institute for Rural Futures.
- Marshall, G.R., McNeill, J.M., Reeve, I.J., 2011. 'Economics for accountability in community-based environmental governance', Working paper 2 from the project '[Improving economic accountability when using decentralised, collaborative approaches to environmental decisions](#)', Institute for Rural Futures, University of New England, Armidale.
- Patrick I.W., Marshall G.R., Ambarawati I.G.A.A. and Abdurrahman M., 2010. [Social capital and cattle marketing chains in Bali and Lombok, Indonesia](#). ACIAR Technical Reports No. 74. Australian Centre for International Agricultural Research: Canberra.
- Marshall, G.R., 2009, 'Governance for sustaining trust in a complex world', in: S. Cork (ed.), [Brighter Prospects: Enhancing the Resilience of Australia](#), Australia 21, Canberra, pp. 25-29.
- Marshall, G.R., 2008. [Community-based, regional delivery of natural resource management: Building system-wide capacities to motivate voluntary farmer adoption of conservation practices](#), RIRDC Publication 08/175, Rural Industries Research and Development Corporation, Canberra.
- Reeve, I., Marshall, G. and Musgrave, W., 2002. [Resource governance and integrated catchment management](#), Issues Paper No. 2 for Murray-Darling Basin Commission Project MP2004 'Agriculture and Natural Resource Management in the Murray-Darling Basin: A Policy History and Analysis', Institute for Rural Futures, University of New England, Armidale, Australia.

Professional Service

- 2001-2003 Book Review Editor, *Australian Journal of Agricultural and Resource Economics*.
- 1990- Reviewer of *journal manuscripts* submitted to:
- Agricultural Systems*
- American Political Science Review*
- Australasian Agribusiness Review*

Australasian Journal of Environmental Management
Australian Journal of Agricultural and Resource Economics
Australian Journal of Experimental Agriculture
Conservation Biology
Conservation Letters
Current Opinion in Environmental Sustainability
Ecological Economics
Ecology and Society
Environmental Management
Environment and Planning A
Global Environmental Change
Human Ecology Review
International Journal of Agricultural Resources, Governance and Ecology
International Journal of the Commons
Journal of Environmental Management
Journal of Economic Issues
Journal of Hydrology
Land Use Policy
Marine Resource Economics
Pacific Conservation Biology
Policy Studies Journal
Review of Marketing and Agricultural Economics
Science
Third Sector Review
Water International

- 2003- Reviewer of *research funding proposals* submitted to:
 Australian Research Council (ARC) Discovery program
 ARC Future Fellowship program
 ARC Early Career Researcher Award program
 National Science Foundation (USA)
 Hatch Fund of the Center for Agriculture, University of Massachusetts
 Amherst (USA).
- 2001- Reviewer of *books* for:
Australian Journal of Agricultural & Resource Economics
Ecological Economics
- 2003- Reviewer of *book chapters* for:
 Cambridge University Press
 CSIRO Publishing

- 2004- Reviewer of *book proposals* for:
 Asia Pacific Press
 Earthscan
- 2002- Examiner of *PhD theses* for:
 Australian National University
 University of Queensland
 Central Queensland University
 Murdoch University
 University of New England
- 2005- Reviewer of *PhD research proposals* for:
 Central Queensland University
 University of Sydney
- 2006- Examiner of *Masters research theses* for:
 Australian National University.

Invited and Keynote Presentations

Conferences, symposia and workshops

- 2016 'Adapting in the commons', Invited presentation to the CSIRO Workshop on Insect Resistance Management in Australian Cotton, Sydney Botanical Gardens, 25-26 May.
- 2015 'Polycentricity, subsidiarity and adaptive efficiency', Invited presentation to the International Workshop on Polycentricity, Workshop in Political Theory and Policy Analysis, Indiana University, Bloomington, Indiana, USA, 14-17 December.
- 2015 'Can community-based polycentric governance strengthen citizenship in climate change adaptation? Governance style, self-determination and grassroots co-production', Invited presentation to the International Workshop on Polycentricity, Workshop in Political Theory and Policy Analysis, Indiana University, Bloomington, Indiana, USA, 14-17 December.
- 2015 'Polycentricity and adaptive governance'. Invited presenter to the panel 'The new polycentricity? Conceptual basis and operationalisation for the study of the commons' convened during the 15th Biennial Global Conference of the International Association for the Study of the Commons, Edmonton, Canada, 25-29 May.
- 2013 'Adaptive governance of cross-border river basins: Institutionalising sophisticated subsidiarity'. Invited panelist for *Rivers of Reform: Lessons from the Colorado and Murray-Darling*, a workshop convened by Daniel Connell and Dustin Garrick at Australian National University's Crawford School of Public Policy, Canberra, September 23rd.
- 2012 'Transaction costs, collective action and adaptation', Invited presentation to the *Transaction Costs in Environmental and Natural Resource Policy Workshop* prior to the 56th Annual Conference of the Australian Agricultural and Resource Economics Society, Fremantle, 8-10 February (however, could not present for family reasons).

- 2011 'Insights from my research into multiple actors in biodiversity conservation'. Invited presentation (22 August) to the *Managing Natural Systems in the Presence of Multiple Actors Workshop* convened by the Australian Research Council Centre for Excellence for Environmental Decisions, University of Queensland, Brisbane, 22-26 August.
- 2010 'Natural resources governance for the drylands of the Murray-Darling Basin'. Invited presentation to the *16th Biennial Conference of the Australian Rangeland Society*, Bourke, 29 September.
- 2010 'Economics for community-based prioritisation of environmental investments: Lessons from trials in three regions'. Invited presentation to the *Commonwealth Environmental Research Facilities 2010 Conference*, Old Parliament House, Canberra, 24-26 May.
- 2010 'Conceptualising resilience in environmental, agricultural and water management'. Invited presentation to the [*Shaping Australia's Resilience: Policy Development for Uncertain Futures Conference*](#) convened by Australia 21 at the Australian National University over 18-19 February.
- 2010 'Managing weeds in complex social-ecological landscapes'. Invited presentation to the *Workshop on the Proposed Cooperative Research Centre for Community and Landscape Weed Solutions*, 8-9 June, CSIRO Entomology, Canberra.
- 2009 'Political economy of collaboration in the commons'. Keynote presentation to the *Collaborative Approaches to Natural Resource Management Symposium* hosted by the Centre for Public Policy at the University of Melbourne, 25 November.
- 2008 '[What 'community' means for farmer adoption of conservation practices: Some logic and evidence](#)'. Invited presentation to the *National Symposium on Understanding Practice Change by Farmers*, University of Melbourne, 14 November.
- 2008 '[Regional systems and grassroots NRM: Blackwood Basin and beyond](#)'. Keynote presentation to the *Western Australian Natural Resource Management Conference*, Bridgetown, WA, April.
- 2008 'Regional NRM delivery, and adaptive capacity'. Invited presentation to a workshop chaired by Will Steffen as part of the Strategic Assessment of the Vulnerability of Australia's Biodiversity to Climate Change (commissioned by the Natural Resources Management Ministerial Council and COAG). Australian National University, 12 February.

Seminars and colloquia

- 2009 'Economics for accountability in community-based environmental governance'. Invited seminar presentation to the New England branch of the Australian Agricultural and Resource Economics Society, Armidale, 8 October.
- 2005 'Scaling up community-based NRM without losing the plot'. Invited seminar presentation to the School of Agricultural and Resource Economics, University of Western Australia, Perth, 9 May.
- 2003 'From words to deeds: A study of collective action by irrigators in enforcing their commitments to adopt conservation practices'. Invited colloquium presentation to the Workshop for Political Theory and Policy Analysis, Indiana University, Bloomington, USA, 23 April.
- 2003 'From words to deeds: A study of collective action by irrigators in enforcing their commitments to adopt conservation practices'. Invited seminar presentation to the

Nicholas School of Environmental and Earth Sciences, Duke University, Durham, USA, 7 April.

- 2003 'From words to deeds: A study of collective action by irrigators in enforcing their commitments to adopt conservation practices'. Invited seminar presentation to the Department of Agricultural Economics, University of Nebraska, Lincoln, USA, 17 April.

Recent Grants and Awards

- 2016 Kristiansen, P., Sindel, B., Coleman, M., Fyfe, C., Marshall, G. and Waugh, D. Horticulture Innovation Australia Project VG15070: A strategic approach to weed management for the Australian Vegetable Industry. Grant of \$870K over 2016-2020.
- 2016 Marshall, G.R., Coleman, M. and Reeve, I. Northern Tablelands Investment Methodology Review. Client: Northern Tablelands Local Land Services. Budget: \$30K over 2016-17.
- 2015 M. Coleman, G. Marshall and I. Reeve. 'Analysis of data from the rural resilience drought preparedness survey'. Submitted to NSW Department of Primary Industries 28 July 2015. Budget: \$15,264.
- 2014 Eric Anderson Award from the Environment Institute of Australia and New Zealand for the "Best paper published in the Australasian Journal of Environmental Management in 2014" (for: Curtis, A., Ross, H., Marshall, G. R., Baldwin, C., Cavaye, J., Freeman, C., Carr, A. & Syme, G. J. 2014. 'The great experiment with devolved NRM governance: Lessons from community engagement in Australia and New Zealand since the 1980s', *Australasian Journal of Environmental Management*, 21, 175-199).
- 2014-17 Environmental Research Program of the NSW Environmental Trust grant for the project *Cost-effective environmental water for NSW wetlands and rivers* (project leader), \$150K. (3% of 189 applications for 2014-commencing projects were funded).
- 2014-18 Bushfire and Natural Hazards Cooperative Research Centre grant for the project *The Australian Natural Disaster Resilience Index: A system for assessing the resilience of Australian communities to natural hazards* (team member), \$800K.
- 2014-15 Research Seeding Grant from the UNE School of Behavioural, Cognitive and Social Sciences for the project *The Impact of Governance Structures on Climate Change Adaptation in Australian Rural Communities* (project co-leader), \$7,200.
- 2011-16 Australian Centre for International Agricultural Research (ACIAR) grant for project AH-2010-046 *Domestic and International Market Development for High-Value Cattle and Beef in South East Cambodia* (team member), \$1,661,015.
- 2011-12 Rural Industries Research and Development Corporation grant for the project *Improving regional adoption of weed control: a case study in the New England* (team member), \$135K.
- 2007-10 Department of the Environment and Water Resources, Commonwealth of Australia, Commonwealth Environment Research Facilities (CERF) grant for *Improving economic accountability when using decentralised, collaborative approaches to environmental decisions* (project leader), \$436K. (6% of applications for 2007-commencing projects were funded).

- 2006-07 Australian Centre for International Agricultural Research (ACIAR) grant for project ADP/2004/028 *Linking Smallholders and Agribusiness: Social Capital and Rural Development in Eastern Indonesia* (team member), \$164K.
- 2005 Australian Centre for International Agricultural Research (ACIAR) grant for *Scoping study on linking smallholders and agribusiness: Social capital and rural development in Eastern Indonesia and East Timor* (team member), \$15,000.
- 2004-07 Rural Industries Research and Development Corporation grant for the project *Nesting community-based NRM for regional accountability and grassroots cooperation* (project leader), \$120K.
- 2003 PhD Research Award from the Australian Agricultural and Resource Economics Society.
- 2002-05 Australian Postdoctoral Fellowship awarded by the Australian Research Council.
- 2002-05 Australian Research Council Discovery grant for the project *Institutional transitions to sustainable agriculture: An inter-disciplinary analysis of a novel common-property resource governance system* (team member), \$220K.
- 2001-02 *The Future of Farming – Farmers Working Together for Long-Term Economic, Social & Environmental Sustainability*, a project funded by the Department of Transport and Regional Services through GLENRAC – Glen Innes Natural Resources Advisory Committee (project leader), \$31K.

Higher degree research supervision

Successful completions

- 2013-16 Co-supervisor (with Professor Martin Thoms and Dr Melissa Parsons) for Ph.D. candidacy of Craig McLaughlin.
- 2011-14 Co-supervisor (with Drs Julian Prior and Lisa Lobry de Bruyn) for Ph.D. candidacy of Nukunu Nanedo (successful completion)
- 2005-08 Co-supervisor (with Drs Ian Reeve and Julian Prior) for Ph.D. candidacy of Lyndal Thompson (successful completion)
- 1996 Co-supervisor (with Prof. Oscar Cacho) for M.Ec. major dissertation by Fatmata John (successful completion, awarded Distinction)

In progress

- 2015- Principal supervisor (with Prof. Oscar Cacho) for Ph.D. candidacy of Siobhan Davies.
- 2015- Co-supervisor (with Prof. Nick Reid and Dr Julian Prior) for Ph.D. candidacy of Madeleine Black.
- 2015- Co-supervisor (with Drs Robyn Bartel and Judith McNeil) for Ph.D. candidacy of John Greenway.

Selected research impacts

Google Scholar: 1,998 citations recorded; 1,200 since 2011. h-index (all years) = 17; h-index (since 2010) = 13.

Scopus: 631 citations recorded. 391 since 2011; h-index (all years) = 9.

Professional Affiliations

- 1984- Australian Agricultural and Resource Economics Society
- 1996- International Association for the Study of Common Property
- 2000- Australia and New Zealand Society for Ecological Economics
- 2000- International Society for Ecological Economics

Last updated 1 July 2016.