

## Economic Society of Australia Awards 2024

### *Professor Sue Richardson* ESA Distinguished Public Policy Fellow, 2019

I would like to nominate **Professor Sarah Wheeler** for the ESA Distinguished Public Policy Fellow Award. She has made many valuable contributions to public policy, her most significant being to the very tricky and contested area of water reallocation in the Murray-Darling Basin. The Murray-Darling Basin is Australia's major food bowl, its water has been seriously overallocated, it encompasses several states and it will be hard hit by climate change. It thus requires first rate public policy and Sarah has made, and is making, major contributions to this end. Sarah has spent the past decade and a half working on water policy issues and has engaged extensively with government and industry in striving to improve water policy at international, national, and local levels. Her work in advocating the most effective policy options in returning water to rivers within the Basin has been a particular focus.

Sarah currently works full-time as a Professor of Resource and Water Economics, in the School of Economics and Public Policy, University of Adelaide. She was an ARC Future Fellow (2014-2018); elected a Fellow of the Academy of Social Sciences in Australia in 2020; elected President of the Australasian Agricultural and Resource Economics Society in 2020, and is on the University of Adelaide's Environment Institute's executive management committee. She has served as an associate editor/editor/editorial board member on a large number of journals, as well as participating in several ARC committees. She has supervised over 28 postgraduate students, and regularly mentors' female and early career fellows.

Sarah has a distinguished record in translating and applying the fundamental science of economics to important policy questions within agriculture, natural resources, food and health. She draws on the insights from her 175 peer reviewed publications to engage with and advocate to key actors in industry and government. In particular, Sarah has been an influential voice on national water policy issues in Australia (primarily water reallocation and markets in the Murray-Darling Basin), which form the bulk of her publications. She is recognised as a world leader in this area internationally and nationally. To illustrate, she has been invited to speak at a number of United Nations water workshops and conferences, and has accepted numerous national invitations to give presentations, appear at Senate inquiries and provide advice to various organisations or stakeholders, at all levels of government. Sarah has been an expert advisor for Commonwealth agencies such as the National Water Commission; Murray-Darling Basin Authority; ACCC and Department of Environment. In 2018 Sarah gave extensive expert evidence to the SA Murray-Darling Basin Royal Commission, with her evidence quoted extensively. Sarah was also invited onto the Australian Academy of Science's fish kill panel in January 2019, and was one of the panel members that presented the findings and recommendations in Parliament. Other selected public engagement includes WOMADelaide; Science in the Pub; 7:30 Report; Four Corners; numerous podcasts; countless media interviews and presentations to local community groups; articles for the Conversation; Global Water Forum; and many others. Sarah also often provides unpaid advice to environmental groups, politicians across all parties, NGOs and government departments, and her work has had impact (such as innovations within water markets). Sarah would be a most worthy recipient of the 2023 Award.



## CURRICULUM VITAE: SARAH ANN WHEELER

### 1. QUALIFICATIONS

1996: BEc (Hons) University of Adelaide

2006: PhD University of South Australia

Title: *'The Adoption and Diffusion of Organic Agriculture in Australia'*

### 2. APPOINTMENT AND POSITIONS

#### Present Appointment:

March, 2021- Professor of Water Economics, School of Economics and Public Policy, Faculty of Professions, University of Adelaide.

- On the executive management committee of the Environment Institute, University of Adelaide.

#### Previous Appointments:

Jan, 2018-21 Professor, Associate Director Research, Centre for Global Food and Resources, Faculty of Professions, University of Adelaide

June, 2016-18 Associate Professor, Associate Director Research, Centre for Global Food and Resources, Faculty of Professions, ARC Future Fellow, University of Adelaide

June, 2015 Associate Professor, Centre for Global Food and Resources, Faculty of Professions, ARC Future Fellow, University of Adelaide

July, 2014 Associate Professor Applied Economics, ARC Future Fellow UniSA

Feb, 2014 Senior Research Fellow (1.0 FTE)

Jan, 2010 Senior Research Fellow (0.8 FTE)

Jan, 2008 Research Fellow (0.6 FTE)

April, 2007 Research Fellow (0.4 FTE – following maternity leave)

August, 2006 Research Fellow (1.0 FTE)  
Centre for Regulation and Market Analysis  
School of Commerce  
University of South Australia

2002 - 2003 Natural Resource Economist  
Primary Industries and Resources SA

2001 - 2002 Environmental Economist  
Environment Agency  
United Kingdom

2000 - 2001 Natural Resource Economist  
Primary Industries and Resources SA

1997 - 2000 Research Economist  
South Australian Centre for Economic Studies  
University of Adelaide

1997 Economist Intern  
ESCAP, United Nations, Bangkok

1997 Lecturer/Course Coordinator/Tutor for University of Adelaide at Thammasat University, Bangkok.

1996 Part-time research assistant, tutor at University of Adelaide

### 3. RESEARCH INTERESTS

Environmental and Agricultural Economics; Murray-Darling Basin; Climate change adaptation; Mental Health; Water Markets; Organic Agriculture; Water Trading.

### 4. PUBLICATIONS

#### i. Books

1. **Wheeler S.** (ed) (2021) *Water Markets: A Global Assessment*, Edward Elgar, London, 978 1 78897 692 3.
2. Bjornlund, H., Brebbia, C. and **Wheeler, S.** Eds. (2012) *Sustainable Irrigation Management Technology and Policies IV*, WITPress, Southampton.
3. Loch, A, **Wheeler, S.**, Bjornlund, H, Beecham, S, Edwards, J, Zuo, A, Shanahan, M (2013) *The role of water markets in climate change adaptation*, National Climate Change Adaptation Research Facility, Gold Coast, 126 pp. ISBN: 978-1-925039-01-6.
4. Hajkowicz SA, Young M, **Wheeler S.**, Hatton MacDonald D, Young D (2000) *Supporting Decisions: Understanding Natural Resource Management Assessment Techniques: a Report to the Land and Water Resources Research and Development Corporation*, CSIRO Land and Water Adelaide.
5. Moritz, C. Blackall, L, Davis, J, Flannery, T. Godden, L, Head, L, Jackson, S., Kingsford, R., **Wheeler, S.**, Williams J., 2019. Investigation of the causes of mass fish kills in the Menindee Region NSW over the summer of 2018–2019. Australian Academy of Science, Canberra. ISBN: 978 0 85847 672 1.

#### ii. Working papers<sup>1</sup>

6. Settre C., **Wheeler S.**, Connor J. (working paper) Understanding the challenges and advantages of non-government organization participation in environmental water transfers in the western United States, June 2022.
7. Xu Y, **Wheeler S.**, Zuo A (revised and resubmitted) Examining the link between drought and temperature and suicide in the Murray-Darling Basin, *Social Science and Medicine*, Feb 2022.
8. Zuo, A., **Wheeler S.**, Schwabe K (working paper) Examining the link between suicide in the United States and climate and water variables, Feb 2021.
9. Garrick D, Zuo A, **Wheeler S.** (working paper) Understanding transaction cost issues in environmental water recovery programs in the United States. Dec 2021.
10. **Wheeler S.**, Nauges C, Xu Y. (working paper) The feedback loop between waste attitudes and food waste behaviour. June 2022.
11. Seidl C., **Wheeler S.** (Working paper) Stakeholders' views towards water theft and regulation in the Murray-Darling Basin, June 2022.
12. Kandula J., **Wheeler S.**, Zuo A, Chagunda M (working paper) The impact of microcredit loans on school enrolment in Bangladesh, June 2022.

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<sup>1</sup> Q1 rankings are based on 2019 Journal Citation Reports impact factors and rankings. ABDC rankings are based on 2019 ranking list.

13. Kandula J., **Wheeler S.**, Zuo A, Connor J (working paper) Improving rural agricultural production and income in developing countries using mobile phones, June 2022.
14. Mannuf M., **Wheeler S.**, Zuo A (working paper) Estimating the value of Native Vegetation on South Australian Agricultural Property Values, June 2022.
15. Dumbrell, N., **Wheeler, S.**, Zuo A Adamson, D. (working paper) Farmers versus the Public's views towards Social Licence Issues, June 2022.
16. Kingsford R, Gorta S, **Wheeler S**, Kandulu J et al. (working paper) What is a dam worth? A case study in understanding the benefits and costs of large-scale dam investment in Australia. June 2022.
17. Tingey-Holyoak J., **Wheeler S**, Seidl C. Zuo A. (submitted) Understanding profitability strategies and opportunities for different business models and accounting in agriculture, *Journal of Management*, ABDC A.

iii. *Refereed Journal Articles*

1. Xu Y, Wheeler S, Tchatoka F. (accepted) Evaluating policy changes on council waste generation and diversion: evidence from South Australia, *Australian Journal of Agricultural and Resource Economics*, ABDC A.
2. Mannuf M., **Wheeler S.**, Zuo A, (online) Global vs local spatial spill-overs: what matters most for the diffusion of certified organic agriculture in Australia? *Ecological Economics*, 107835, July 2023.
3. Abebe, F., Zuo, A., **Wheeler, S.**, Bjornlund, H., van Rooyen, A., Pittock, J., Mdemu M, Chilundo, M. (online). The welfare enhancing effects of agricultural innovation platforms and soil monitoring tools on farming household outcomes in southeastern Africa, *International Journal of Agricultural Sustainability*, 21(1) 2184586, March 2023. IF=3.506, Q1 Agronomy and Crop Science, Q2 Economics and Finance.
4. Tingey-Holyoak J., **Wheeler S**, Seidl C. (online) Decision-making and resilience in agriculture: improving awareness of the role of accounting, *Meditari Accountancy Research*, January 2023, Q2 accounting.
5. **Wheeler S.** (2022) 'Debunking Murray-Darling Basin water trade myths', *Australian Journal of Agricultural and Resource Economics*, 66 (4) 25 pages, ABDC A, August 2022.
6. Mannuf M., **Wheeler S.**, Zuo A (accepted) The spatial influences of organic farming and environmental heterogeneity on biodiversity in South Australian landscapes, *Journal of Environmental Management*, 324, 16 pages, ABDC A.
7. Xu Y, **Wheeler S**, Zuo A (2022) The effectiveness of interventions to increase participation and physical activities in parks: A systematic review of the literature, *International Journal of Environmental Research and Public Health*, 19, 20 pages, Q1 Public, Environmental and Occupational Health.
8. Abebe, F., Zuo, A., **Wheeler, S.**, Bjornlund, H., van Rooyen, A., Pittock, J., Mdemu M, Chilundo, M. (2022). The influences on farmers' planned and actual farm adaptation decisions: Evidence from small-scale irrigation schemes in south-eastern Africa. *Ecological Economics* 202, DOI: 10.1016/j.ecolecon.2022.107594, ABDC A.
9. Owens, K. Emma Carmody, Rosemary Lyster, R. Quentin Grafton, Erin O'Donnell, **Sarah Wheeler**, Pasquale Steduto, Qiang Jiang, Lee Godden, Richard Kingsford, Richard Allen and John Quiggan (online) 'Delivering global water security: Embedding water justice as a

- response to increased irrigation efficiency’, *Wires Water*, DOI: 10.1002/wat2.1608. Q1 Environmental Sciences.
10. Yazdanpanah M., Zuo A., **Wheeler S.** (2022) ‘Understanding the influence of Iranian farmers’ climate change beliefs on their adaptation strategies and mitigation intentions’, *Climate and Development*, doi.org/10.1080/17565529.2022.2086524 ABDC B, Q1: Geography, Planning and Development
  11. Dumbrell, N. P., **Wheeler, S. A.**, Zuo, A., & Adamson, D. (2022). ‘Public willingness to make trade-offs in the development of a hydrogen industry in Australia’. *Energy Policy*, 165, 112987. ABDC A, Q1: Management, Monitoring, Policy and Law
  12. Zuo, A., **Wheeler, S.**, Xu Y (2022) ‘Expanders, Diversifiers or Downsizers? Identifying clusters of irrigators’ water trade and farm management strategies in Australia’, *Agricultural Water Management*, ERA A, Q1 Agronomy, Water Resources, Agriculture.
  13. Haensch J, **Wheeler S**, McWhinnie S. (2022) Community attitudes towards marine parks in South Australia, *Marine Policy*, 139, 104121, ABDC A.
  14. Dumbrell, N., Adamson, D., Zuo A, **Wheeler, S.** (2021) ‘How do natural resource dependent firms gain and lose a social licence?’ *Global Environmental Change*, 70, 102355, ABDC A\*
  15. **Wheeler, S**, Nauges C., Zuo A. (2021) ‘How stable are Australian farmers’ climate change risk perceptions? New evidence of the feedback loop between attitudes and behaviour’, *Global Environmental Change*, 68, p. 102274, ERA A\*, ABDC A\* Q1 Environmental sciences, Geography and Environmental studies
  16. Zuo A., **Wheeler S.**, Sun H. (2021) ‘Flying over the farm: understanding drone adoption by Australian irrigators’, *Precision Agriculture*, 22, 1973-1991, <https://doi.org/10.1007/s11119-021-09821-y>, Q1 Agriculture multidisciplinary
  17. Fielding K., Nauges C., **Wheeler S.** (2021) 'The relationship between country and individual household wealth and climate change concern: the mediating role of control', *Environment, Development and Sustainability*, <https://doi.org/10.1007/s10668-021-01327-x> ERA B, Q2 Economics and Econometrics
  18. Seidl, C., **Wheeler, S.A.**, Zuo, A. (2021) ‘The drivers associated with Murray-Darling Basin irrigators’ future farm adaptation strategies’, *Journal of Rural Studies*, 83, pp 187-200 <https://doi.org/10.1016/j.jrurstud.2020.10.048> ERA A\*, Development (Q1); Forestry (Q1); Geography, Planning and Development (Q1); Sociology and Political Science (Q1)
  19. Manero A, **Wheeler SA** (2021) ‘Perceptions of Tanzanian smallholder irrigators on impact pathways between water equity and socio-economic inequalities’, *International Journal of Water Resources Development*, <https://doi.org/10.1080/07900627.2020.1866506>, Q1 Water Resources
  20. Haensch J., **Wheeler S.**, Zuo A. (2021) Explaining permanent and temporary water market trade patterns within local areas in the Murray-Darling Basin, *Australian Journal of Agricultural and Resource Economics*, 59, 1–31 ERA A, ABDC A
  21. **Wheeler, S.**, Zuo, Z., & Kandulu, J. (2021). ‘What Water are We Really Pumping? The Nature and Extent of Surface and Groundwater Substitutability in Australia and Implications for Water Management Policies’. *Applied Economic Perspectives and Policy*, 43, 1550-1570 <https://onlinelibrary.wiley.com/doi/10.1002/aep.13082> , Q1 Agricultural Economics and Policy, and Q1 Economics
  22. **Wheeler, S.**, Carmody, E., Grafton, R., Kingsford, R., & Zuo, A. (2020). ‘The rebound effect on water extraction from subsidising irrigation infrastructure in Australia’. *Resources*,

- Conservation and Recycling*, 159, 104755-1-104755-17. IF=8.1, Q1 Environmental Sciences and Q1 Engineering and Environmental Sciences.
23. Dumbrell, N., Adamson, D., & **Wheeler, S.** (2020). 'Is social licence a response to government and market failures? Evidence from the literature'. *Resources Policy*, 69, 11 pages, Q1 Environmental Studies.
  24. Kandulu, J., **Wheeler, S.**, Zuo, A., Sim N. (2020). 'The Impact of Microcredit Loans on School Enrolment in Bangladesh', *The Journal of Development Studies*, 56(9), 1725-1744. <https://doi.org/10.1080/00220388.2019.1703954>, ABDC A
  25. **Wheeler, S. A.**, & Garrick, D. E. (2020). 'A tale of two water markets in Australia: lessons for understanding participation in formal water markets'. *Oxford Review of Economic Policy*, 36, 132-153. ABDC A
  26. Abebe, F., Zuo, A., **Wheeler, S.**, Bjornlund, H., van Rooyen, A., Pittock, J., Mdemu M, Chilundo, M. (2020). 'Irrigators' willingness to pay for the adoption of soil moisture monitoring tools in South-Eastern Africa'. *International Journal of Water Resources Development*, <https://doi.org/10.1080/07900627.2020.1755956>, 36(S1) S246-S267 Q1 Water Resources.
  27. Manero, A., Bjornlund, H., **Wheeler, S.**, Zuo, A., Mdemu, M., Van Rooyen, A., & Chilundo, M. (2020). 'Growth and inequality at the micro scale: an empirical analysis of farm incomes within smallholder irrigation systems in Zimbabwe, Tanzania and Mozambique'. *International Journal of Water Resources Development*, 36(sup1), S224-S245 Q1 Water Resources
  28. Seidl C., **Wheeler S**, Zuo A. (2020). 'Treating water markets like stock markets: Key water market reform lessons in the Murray-Darling Basin', *Journal of Hydrology*, 581, 124399, ERA A\*, Q1 Water Resources.
  29. Seidl C., **Wheeler S**, Zuo A. (2020). High turbidity: Water valuation and accounting in the Murray-Darling Basin, *Agricultural Water Management*, 230, 1-13. <https://doi.org/10.1016/j.agwat.2019.105929>, ERA A, Q1 Agronomy, Water Resources, Agriculture
  30. de Bonviller, S., **Wheeler, S.**, & Zuo, A. (2020). The dynamics of groundwater water markets: Price leadership and groundwater demand elasticity in the Murrumbidgee, Australia. *Agricultural Water Management*, 239, ERA A, Q1 Agronomy, Water Resources, Agriculture
  31. Yazd, S., **Wheeler S**, Zuo A. (2020) Understanding the impacts of water scarcity and socio-economic demographics on farmer mental health in the Murray-Darling Basin, *Ecological Economics*, 169, 106564. <https://doi.org/10.1016/j.ecolecon.2019.106564>, ERA/ABDC A
  32. **Wheeler, S. A.**, Xu, Y., & Zuo, A. (2020). Modelling the climate, water and socio-economic drivers of farmer exit in the Murray-Darling Basin. *Climatic Change*, 158(3-4), 551-574. ERA A
  33. Yazd, S., **Wheeler S**, Zuo A. (2019) Key Risk Factors Affecting Farmers' Mental Health: A Systematic Review, *International Journal of Environmental Research and Public Health*, 16, 1-23. Q1 Public, Environmental and Occupational Health.
  34. Yazd, S., **Wheeler S**, Zuo A. (2019) Exploring the Drivers of Irrigator Mental Health in the Murray-Darling Basin, Australia, *Sustainability*, 11(21), 6097. Q2 Environmental Sciences
  35. Memon, J.A.; Cooper, B.; **Wheeler, S.** (2019) Mainstreaming Gender into Irrigation: Experiences from Pakistan. *Water*, 11, 2408. Q2 Water Resources

36. Grafton, R., Doyen, L., Béné, C., Borgomeo, E., Brooks, K., Chu, L., . . . **Wheeler S**, Williams J., Wyrwoll, P. (2019). Realizing resilience for decision-making. *Nature Sustainability*, 2(10), 907-913. Q1 Environmental Sciences
37. Settre, C, Connor J, **Wheeler S** (2019) “Emerging water and carbon market opportunities for environmental water and climate regulation ecosystem service provision” *Journal of Hydrology*, 528, 124077, ERA A\*, Q1 Water Resources
38. Zuo A., Qiu F., **Wheeler S** (2019) “Examining volatility dynamics, spillovers and government water recovery in water markets in the Murray-Darling Basin”, *Resource and Energy Economics*, 58, <https://doi.org/10.1016/j.reseneeco.2019.101113> ERA/ABDC A.
39. Haensch, J., **Wheeler, S.**, & Zuo, A. (2019) “Do neighbours influence irrigators’ permanent water selling decisions in Australia?” *Journal of Hydrology*, 572, 732-744. ERA A\*, Q1 Water Resources.
40. de Bonviller, S., **Wheeler S**, Zuo A. (2019) "Is there evidence of insider trading in Australian water markets?" *Australian Journal of Agricultural and Resource Economics*, 63(2), 307-327, ERA/ABDC A.
41. Manero A., **Wheeler S.A.**, Zuo A., Mdemu M. (2019) “Exploring the Head Versus Tail-End Dichotomy on Yield and Farm Incomes in Smallholder Irrigation Schemes in Tanzania”, *Water Resources Research*, <https://doi.org/10.1029/2018WR023483> ERA A\*, Q1 Water Resources.
42. Zuo, A., & **Wheeler, S.** (2019) “Maximising the use of national pollution data: Views from stakeholders in Australia”. *Journal of Cleaner Production*, 222, 455-463. ABDC A, Q1 Environmental Sciences
43. **Wheeler S.**, Gregg D., Singh M. (2019) “Understanding the role of social desirability bias and environmental attitudes on South Australians stated purchase of organic foods”, *Food Quality and Preference*, 74, 125-134, ABDC A, Q1 Food Science and Technology.
44. Bjornlund H., Zuo A., **Wheeler S**, Parry K., Pittock J., Mdemu M., Moyo M. (2019) “The dynamics of the relationship between household decision-making and farm household income in small-scale irrigation schemes in southern Africa”, *Agricultural Water Management*, 213, 135-145. ERA A Q1 Agronomy, Water Resources, Agriculture
45. **Wheeler S**, Marning A (2019) “Turning water into wine: exploring water security perceptions and adaptation behaviour amongst conventional, organic and biodynamic grape growers”, *Land Use Policy*, 82, 528-537. ABDC A.
46. Grafton RQ, J. Williams, C.J. Perry, F. Molle, C. Ringler, P. Steduto, B. Udall, **S.A. Wheeler**, Y. Wang, D. Garrick, R. G. Allen (2018) “The paradox of irrigation efficiency”. *Science*, 361, 748-750. ERA A\*, Q1 Multidisciplinary Sciences
47. Xu, Y., **Wheeler S.**, Zuo A. (2018) “Will boys’ mental health fare worse under a hotter climate in Australia?” *Population and Environment*, 40, 2, pp 158–181, ERA/ABDC A
48. **Wheeler, S.**, Zuo, A., & Loch, A. (2018). “Water torture: Unravelling the psychological distress of irrigators in Australia”. *Journal of Rural Studies*, 62, 183-194. ERA A\*
49. Gregg D., **Wheeler S.** (2018) “How can we value an environmental asset that very few have visited or heard of? Lessons learned from applying contingent and inferred valuation in an Australian wetlands case study”, *Journal of Environmental Management*. 220, 207-216. ABDC A, Q1 Environmental Sciences.



50. Grafton Q, **Wheeler S** (2018) “The economics of water recovery in the Murray-Darling Basin”, *Annual Review of Resource Economics*, 10, 487-510, Q1 Agricultural Economics and Policy
51. Loch, A., **Wheeler S.**, Settre C. (2018) “Private Transaction Costs of Water Trade in the Murray–Darling Basin”, *Ecological Economics*, 146, 560-573. ERA/ABDC A.
52. **Wheeler, S.**, Haensch, J., Edwards, J., Schirmer, J., & Zuo, A. (2018). Quantifying an integral ecology framework: a case study of the Riverina, Australia. *Earth’s Future*, 6(2), 192-212. Q1 Environmental Sciences
53. **Wheeler S.**, Loch A., Crase L., Young M., Grafton Q. (2017) “Developing a Water Market Readiness Assessment Framework”, *Journal of Hydrology*, 552, 807-820. ERA A\*, Q1 Water Resources
54. Nauges C., **Wheeler S.** (2017) “The Complex Relationship between Households' Climate Change Concerns and their Water and Energy Mitigation Behaviour", *Ecological Economics*, 141: 87-94. ERA/ABDC A.
55. **Wheeler S.**, Zuo A. (2017) “The impact of drought and water scarcity on irrigator farm exit intentions in the Murray-Darling Basin", *Australian Journal of Agricultural and Resource Economics*, 61, 1-20. ERA/ABDC A.
56. **Wheeler S**, Zuo A, Bjornlund H, Mdemu M, Rooyen A, Munguambe P. (2017) “An overview of extension use in irrigated agriculture and case studies in south-eastern Africa” *International Journal of Water Resources Development*. 33: 755-769 Q1 Water Resources
57. Settre C., **Wheeler S.** (2017) “A century of intervention in a Ramsar wetland – the case of the Coorong, Lower Lakes and Murray Mouth”, *Australasian Journal of Environmental Management*, 24,163-183, ABDC A
58. **Wheeler S**, Hatton-MacDonald H, Boxall P (2017) “Water Policy Debate in Australia: Understanding the Tenets of Stakeholders’ Social Trust”, *Land Use Policy*, 63, 246-254 ABDC A.
59. Settre C, Connor J. and **Wheeler S.** (2016) “Reviewing the treatment of uncertainty in hydro-economic modelling of the Murray-Darling Basin, Australia” *Water Economics and Policy*, 3, 1650042, 1-35.
60. Grafton, RQ, McLindin, M, Hussey, K, Wyrwoll, P, Wichelns, D, Ringler, C, Garrick, D, Pittock, J, **Wheeler, S**, Orr, S, Matthews, N, Ansink, E, Aureli, A, Connell, D, De Stefano, L, Dowsley, K, Farolfi, S, Hall, J, Katic, P, Lankford, B, Leckie, H, McCartney, M Pohlner, H, Ratna, N, Henry Rubarenzuya, M, Sai Raman, S, Wheeler, K, Williams, J. (2016) “Responding to Global Challenges in Food, Energy, Environment and Water: Risks and Options Assessment for Decision-making (ROAD)”, *Asia and the Pacific Policy Studies*, 3 (2) 275-299, Q2 Area Studies.
61. Douglas E., **Wheeler S.**, Smith D., Overton I., Gray S., Crossman N. Doody T. (2016) “Using mental-modelling to explore how irrigators in the Murray-Darling Basin make water-use decisions?”” *Journal of Hydrology: Regional Studies*, 6, 1-12. Q1 Water Resources.
62. Brown JN, Bambrick, H, Barlow, S, Fallon, D, Fernandez-Pique J, Gallant A, Hendrie G, Nidumolu U, Northfield T, Polozanska E, Roiko A, Tong S, Vickets C, **Wheeler SA**, (2016) “In 30 years, how might climate change affect what you eat and drink?”, *BAMOS*, 29, 22-27.
63. Zuo A., **Wheeler S.**, Boxall P., Adamowicz V., Hatton-MacDonald D. (2016) “Measuring price elasticities of demand and supply of water entitlements based on stated and revealed

- preference data”, *American Journal of Agricultural Economics*, 98(1), 314-332. ERA/ABDC A\*
64. Zuo A, **Wheeler S**, Edwards J (2016) "Understanding and encouraging greater nature engagement in Australia: results from a national survey", *Journal of Environmental Planning and Management*, 59 1107-1125, Q2 Development Studies
  65. Haensch J., Zuo A., **Wheeler S.**, Bjornlund H (2016) “The impact of water and soil salinity on water market trading in the southern Murray-Darling Basin”, *Water Economics and Policy*, 2, 1-26.
  66. Nauges C., **Wheeler S.**, Zuo A. (2016) “Elicitation of Murray-Darling Basin irrigators’ risk preferences from observed behaviour”, *Australian Journal of Agricultural and Resource Economics*, 59, 1-17. ABDC A.
  67. Loch A., Boxall P., **Wheeler S.** (2016) “Using proportional modelling to evaluate irrigator preferences for water buybacks for reallocation purposes”, *Agricultural Economics*, 47, 387-398. ABDC A.
  68. Grafton R.Q, Horne J., **Wheeler S.** (2016) "On the Marketisation of Water: Evidence from the Murray-Darling Basin, Australia", *Water Resources Management*, 30, 913-926. Q1 Engineering, Civil
  69. Zuo A., **Wheeler S.**, Bjornlund H., Edwards J., Xu W (2015) “Exploring generational differences in attitudes towards water resources and policy preferences of water re-allocation in Alberta”, *Water Resources Management*, 29, 5073-5089. Q1 Engineering, Civil
  70. Zuo A., **Wheeler S.**, Adamowicz V., Boxall P, Hatton-MacDonald D. (2015) "Identifying water prices at which Australian farmers will exit irrigation: results of a stated preference survey", *Economic Record*, 91, 109–123. ABDC A
  71. **Wheeler S.**, Zuo A., Loch A. (2015) “Watering the farm: Comparing irrigated organic and conventional farm water use in the Murray-Darling Basin, Australia”, *Ecological Economics* 112, 78-85. ABDC A.
  72. Zuo A., Nauges C., **Wheeler S.** (2015) “Farmers’ exposure to risk and their temporary water trading”, *European Review of Agricultural Economics* 2015, 42(1): 1-24. ABDC A.
  73. **Wheeler S.**, Loch A., Zuo A. and Bjornlund H. (2014) “Reviewing the Adoption and Impact of Water Markets in the Murray-Darling Basin, Australia”, *Journal of Hydrology*, 518, 28-41. ERA A\*, Q1 Water Resources.
  74. **Wheeler S.** (2014) “Insights, lessons and benefits from improved regional water security in Australia” *Water Resources and Economics*, 8, 57-78. Q2 Economics
  75. **Wheeler S.** Zuo A. Hughes N. (2014) “The impact of water ownership and water market trade strategy on Australian irrigators’ farm profitability”, *Agricultural Systems*, 129, 81–92, Q1 Agriculture, Multidisciplinary
  76. **Wheeler S.** Zuo A. and Bjornlund H. (2014) “Investigating the delayed consequences of selling water entitlements in the Murray-Darling Basin”, *Agricultural Water Management*, 145, 72-82, Q1 Agronomy, Water Resources, Agriculture
  77. Zuo A., Brooks R., **Wheeler S.**, Harris E., Bjornlund H. (2014) ‘Understanding Irrigator Bidding Behavior in Australian Water Markets in Response to Uncertainty’, *Water*, 6, 3457-3477, Q2 Water Resources.
  78. Bjornlund H. Wu X. **Wheeler S.** (2014) “A review of public and irrigator preferences for sharing water in Alberta”, *Agricultural Water Management*, 145, 171-180, Q1 Agronomy, Water Resources, Agriculture

79. Bjornlund H., **Wheeler S.** (2014) “Exploring some of the socio-economic realities of sustainable water management in irrigation: an overview”, *Agricultural Water Management* 145, 1-4, Q1 Agronomy, Water Resources, Agriculture
80. Loch A. **Wheeler S.** Boxall P. Hatton-MacDonald D. Adamowicz V. Bjornlund H. (2014) “Irrigator preferences for Water for the Future budget expenditure”, *Land Use Policy* 36, 396-404. ABDC A
81. **Wheeler S.**, Zuo A. Bjornlund H (2014) “Australian irrigators' recognition of the need for more environmental water flows and intentions to donate water allocations”, *Journal of Environmental Planning and Management*, 57, 104-122, Q2 Development Studies
82. Crisp, P., Baker, G., **Wheeler, S.** (2014) “Agronomic and sustainability outcomes from compost application in South Australian citrus orchards”, *Acta Horticulturae*, 1018, 457-464
83. **Wheeler S.**, Cheesman J. (2013) “Key findings from a Survey of Sellers to the Restoring the Balance Programme”, *Economic Papers: a Journal of Applied Economics and Policy*, 32, pp. 340-352, ABDC B.
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85. Lane Miller C., **Wheeler S.**, Bjornlund H., Connor J. (2013) “Acquiring Water for the Environment: Lessons from Natural Resources Management”, *Journal of Environmental Policy and Planning*, 15, 513-532, ABDC A
86. Bjornlund H., Zuo A., **Wheeler S.**, Xu W., Edwards J. (2013) "Policy preferences for water sharing in Alberta, Canada", *Water Resources and Economics*, 1, 93-110. Q2 Economics
87. **Wheeler S.**, Zuo A., Bjornlund H. (2013) “Farmers’ climate change beliefs and adaptation strategies for a water scarce future in Australia”, *Global Environmental Change* 23, 537-547, ABDC A\*
88. **Wheeler S.**, Garrick D, Loch A, and Bjornlund H (2013) “Evaluating water market products to acquire water for the environment in Australia”, *Land Use Policy*, 30, 427–436, ABDC A
89. **Wheeler, S.**, Bjornlund, H., Zuo A. and Edwards J. (2012) "Handing down the farm? The increasing uncertainty of irrigated farm succession in Australia", *Journal of Rural Studies*, 28, 266-275, ABDC A\*
90. **Wheeler, S.**, Zuo, A. and Bjornlund, H. and Lane-Miller C. (2012). "Selling the farm silver? Understanding water sales to the Australian Government", *Environmental and Resource Economics*, 52, 133-154, ABDC A
91. Loch A, Bjornlund H, **Wheeler S.**, Connor J. (2012) “Trading in allocation water in Australia: a qualitative understanding of irrigator motives and behaviour”, *Australian Journal of Agricultural and Resource Economics*, 56, 42–60, ABDC A
92. Morrison M, **Wheeler S.**, Hatton-MacDonald D. (2011) “Towards a more nuanced discussion of the net benefits of sharing water in the Murray-Darling Basin”, *Australian Farm Business Management Journal*, 8 (2) 27-38.
93. Bjornlund, H., **Wheeler, S.** (2011) “Water scarcity - Desperate solutions - Balancing the needs”, *Water and Energy International*, 68, 48-54.
94. **Wheeler S.** (2011) “Review of organic farming policy in Australia: Time to wipe the slate clean?”, *Journal of Sustainable Agriculture*, 35, 885-913

95. **Wheeler S.**, Crisp P. (2011) "Going Organic in Viticulture: A Case Study of Penfolds Clare Valley Estate, South Australia", *Australasian Journal of Environmental Management*, 18, 182-198, ABDC A.
96. **Wheeler S.**, Round D., Wilson J. (2011) "The Relationship between Crime and Electronic Gaming Expenditure: Evidence from Victoria, Australia" *Journal of Quantitative Criminology*, 27, 315-338, Q1 Criminology & Penology
97. **Wheeler S.**, Bjornlund H., Zuo A. and Shanahan M. (2010) "The changing profile of water traders in the Goulburn-Murray Irrigation District, Australia", *Agricultural Water Management*, 96, 121-131, Q1 Agronomy, Water Resources, Agriculture
98. **Wheeler S.**, Bjornlund H., Shanahan M. and Zuo A. (2009) "Who trades water? Evidence of the characteristics of early adopters in the Goulburn-Murray Irrigation District 1998-99", *Agricultural Economics*, 40, pp 631-643, ABDC A
99. **Wheeler S.** (2009) "Exploring the Influences on Australian Agricultural Professionals' Genetic Engineering Beliefs: An Empirical Analysis", *Journal of Technology Transfer*, 34, pp.422-439, Q1 Management
100. **Wheeler S.**, Bjornlund H., Shanahan M. and Zuo A. (2008) "Price Elasticity of Allocations Water Demand in the Goulburn-Murray Irrigation District of Victoria, Australia", *Australian Journal of Agricultural Resource Economics*, 52, pp. 37-55, ABDC A
101. **Wheeler S.**, Round D., Sarre R. and O'Neil M. (2008) "The Influence of Gaming Expenditure on Crime Rates in South Australia: A Local Area Empirical Investigation", *Journal of Gambling Studies*, 24 pp. 1-24, Q1 Psychology, Multidisciplinary
102. **Wheeler S.** (2008) "What Influences Agricultural Professionals' Views towards Organic Agriculture?" *Ecological Economics*, 65, pp. 145-154, ABDC A
103. Hajkowicz S. and **Wheeler S.** (2008) "Evaluation of Dairy Effluent Management Options Using Multiple Criteria Analysis", *Environmental Management*, 41, pp. 613-624, Q2 Environmental Sciences.
104. **Wheeler S.** (2008) "Barriers to the Adoption of Organic Farming and Genetic Engineering in Australia: Views of Agricultural Professionals", *Renewable Resources and Food Systems*, 23 pp. 161-170, Q1 Agriculture, Multidisciplinary
105. **Wheeler S.** (2008) "Exploring Professional Attitudes towards Organic Farming, Genetic Engineering, Agricultural Sustainability and Research Issues in Australia", *Journal of Organic Systems*, 3 pp. 37-56.
106. **Wheeler S.** (2007) "Contrasting the beliefs of Australian agricultural professionals about the benefits and costs of genetic engineering and organic agriculture", *Australian Journal of Experimental Agriculture (now Animal Production Science)*, 47, pp. 1389-1396.
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v. *Book Chapters*

108. Haensch J, Wheeler S. (accepted) "Developments in water sharing and water trading", in Knox J. (ed) *Improving water management in agriculture*, Burleigh Dodds Science Publishing.

109. Nauges C, Wheeler S. (accepted) Socio-economic consequences of water trading: Reviewing the evidence for water markets in Australia, in Koundouri P. (ed) *Elgar Encyclopedia of Water Policy, Economics and Management*, Edward Elgar Publishing
110. Grafton Q, Horne J., **Wheeler S**, (2022) Rethinking Water Markets, *Oxford Research Encyclopedia of Environmental Science*, <https://doi.org/10.1093/acrefore/9780199389414.013.800> .
111. **Wheeler S**, (2022) Murray-Darling Basin Plan: Case Study in Market-Based Approach to Water Sharing in Australia, *Oxford Bibliographies in Environmental Science*, 12th January, 2022 online. <https://www.oxfordbibliographies.com/view/document/obo-9780199363445/obo-9780199363445-0136.xml?rskey=8VHLEU&result=89>
112. Xu Y, Wheeler S., Zuo A (2021) Heterogenous Impacts of Climate on Agricultural Industries Farm Exit Patterns in the Murray-Darling Basin of Australia, in Brears R (ed) (2021) *The Palgrave Handbook of Climate Resilient Societies*, Palgrave Springer Nature, pp1-24.
113. **Wheeler S**, Ying X (2021) Introduction and Overview to Water Markets, accepted for publication in **Wheeler S** (ed) *Water Markets: A Global Assessment*, Edward Elgar, London.
114. **Wheeler S** (2021) Lessons from Water Markets around the World, accepted for publication in **Wheeler S** (ed) *Water Markets: A Global Assessment*, Edward Elgar, London.
115. Settre C., **Wheeler S**. (2017) “Acquiring water and trade”, Horne A., Webb A., Stewardson M., Richter B. and Acreman M. (eds) *Water for the environment: Policy, Science, and Integrated Management*, Elsevier.
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118. **Wheeler, S**, K. Schoengold and H. Bjornlund (2016) “Lessons to be learned from groundwater trading in Australia and the United States”, in (Eds) Jakeman, A.J., Barreteau, O., Hunt, R.J., Rinaudo, J.-D., Ross, A. *Integrated Groundwater Management: Concepts, Approaches and Challenges*. Springer, ISBN 978-3-319-23576-9.
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122. **Wheeler S.**, Bark R., Loch A., Connor J. (2015) “Agricultural Water Management”, in A. Dinar, K. Schwabe (eds) *Handbook of Water Economics*, Edward Elgar Publishing, 71-86.
123. Grafton RQ. and **Wheeler S.** (2015) “Water Economics”, in R. Halvorsen, D. Layton (eds) *Handbook on the Economics of Natural Resources*, Edward Elgar Publishing.
124. Crase L, O’Keefe S., **Wheeler S.**, Kinoshita Y. (2015) “Water Trading in Australia: Understanding the Role of Policy and Serendipity”, in Burnett K., Howitt R. and Roumasset J. (eds) *Water Institutions and Economics Handbook*, RFF/Routlage.
125. **Wheeler S.**, Bjornlund H. and Loch A. (2014) “Water trading in Australia: Tracing its’ development and impact over the past three decades”, in K. William Easter and Qiuqiong Huang (eds) *Water Markets for the 21st Century: What we have learned*, Westview press.
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127. **Wheeler S.** Loch A., Edwards J. (2015) “Water Market Participation and Adaptation for an uncertain water future in the Murray-Darling Basin, Australia”, in Palutikof, J.P., Boulter, S.L., Barnett, J. & Rissik, D. (eds.) *Applied Studies in Climate Adaptation*. Wiley, Oxford.
128. Loch A, **Wheeler S.**, Adamson D. (2014) “People versus Place in the Australia’s Murray-Darling Basin: Balancing economic, social, ecosystem and community outcomes”, in V. Squires, K. Daniell, H. Milner (eds) *River Basin Management in the twenty-first century: People and Place*, CRC/Francis and Taylor, Boca Raton, 275-303.
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130. Bjornlund H., **Wheeler S.**, Cheesman J. (2011) “Irrigators, water trading, the environment, and debt: Perspectives and realities of buying water entitlements for the environment”, in Grafton, Q. and D. Connell, (eds.) *Murray-Darling Basin Choices: Planning for a Better Future*. Australia National University Press, Canberra.
131. Shanahan M., **Wheeler S.** and Bjornlund H. (2010) “Towards more sustainable irrigation: factors influencing allocation and entitlement prices and demand in the Goulburn Murray Irrigation District of Australia”, in Bjornlund H. Ed. *Incentives and Instruments for Sustainable Irrigation*, Chapter 8, WITPress, Southampton.
132. **Wheeler S.** (2009) “The Paradigmatic Nature of Organic Farming: Exploring the Views of Agricultural Professionals towards Organic Farming and Genetic Engineering Further”, in *Organic Farming: Methods, Economics and Structure*, Nova Science Publications, New York. This chapter was also reprinted (2010) in *Organic Farming and Peanut Crops*, Nova Science Publications, New York.
133. **Wheeler S** (2008) “The Influence of Market and Agricultural Policy Signals on the Level of Organic Farming” in *Organic Farming*, ICFAI Research Centre, India.

iv. *Book Chapters in Edited Conference Books*

134. **Wheeler S**, Zuo A. and Bjornlund, H. (2013) "Selling Water for the Environment: How sustainable is it for Irrigators?" *Sustainable Irrigation Management Technology and Policies IV*, WITPress, Southampton
135. Zuo A., **Wheeler S**, Bjornlund, H. and Shanahan M. (2013) "The association between farm management strategies and irrigators' farm profits over time in the Murray-Darling Basin", *Sustainable Irrigation Management Technology and Policies IV*, WITPress, Southampton.
136. Bjornlund, H, Parrack, C., Zuo, A., **Wheeler, S**. and Deloe R. (2011) "Water reallocation Policies – Public Perceptions". In Brebbia, C and Popov, V. (Eds) *Water Resources management VI*. WITPress.
137. **Wheeler S**. Lane-Miller C., Zuo A. and Bjornlund H. (2011) "Factor Analysis Identifying Key Values held by South Australian and Victorian Irrigators in a Time of Severe Drought", In Brebbia C & V. Popov (eds) *Water Resources Management VI*, WIT Press: Southampton
138. Zuo A., **Wheeler S.**, and Bjornlund H. (2011) "Analysing the drivers of irrigator drought strategies in the Southern Murray-Darling Basin", in Brebbia C and V. Popov (eds) *Water Resources Management VI*, WIT Press: Southampton.
139. **Wheeler, S**, Bjornlund, H, Olsen T., Klein K., and Nicol L. (2010) "Modelling the adoption of different types of irrigation water technology in Alberta, Canada", in Brebbia, Marinov and Bjornlund Eds., *Sustainable Irrigation III*, WITPress.
140. **Wheeler, S.**, Bjornlund, H., Shanahan, M. and Zuo, A. (2008) "Factors Influencing Water Allocation and Entitlement Prices in the Greater Goulburn Area in Australia". In Esteve, Y.V.; Brebbia, C.A. and Rico, C.P Eds. *Sustainable Irrigation – Management Technologies and Policies II*, 63-72.
141. **Wheeler S**. (2005) "What do Agricultural Professionals Think About Organic Agriculture and Biotechnology?" in Köpke U. *et al* (ed) *Researching Sustainable Systems: First Scientific Conference of the International Society of Organic Agriculture Research*, Shaping Sustainable Systems: 15th IFOAM Organic World Congress, 21-23 September, pp. 424-427.
142. **Wheeler S**. (2005) "Agricultural Professionals' Views of Biotechnology: Why Do They Differ?", in Davenport S. *et al* (ed) *Talking Biotechnology: Reflecting Science in Society Proceedings*, Talking Biotechnology, Victoria Management School, Victoria University of Wellington, Wellington, New Zealand, 29 November to 2 December.

vi. *Refereed Conference Papers*

143. Daghigh Yazd S, Zuo A, **Wheeler S** (2018) The influence of climate conditions and water scarcity on farmers' mental health in the Murray-Darling Basin, selected paper presented at *Australasian Agricultural and Resource Economics Society* annual conference, Adelaide, 7th February.
144. Ruiz AM, **Wheeler S**, Zuo A (2018) The effect of water supply on irrigation households' incomes and yields: a case study of two Tanzanian smallholder irrigation

- schemes, selected paper presented at *Australasian Agricultural and Resource Economics Society* annual conference, Adelaide, 7th February.
145. Haensch, J, **Wheeler, SA** & Zuo, A (2017) ‘Location, Location, Location: the spatial influences on water entitlement selling in the southern Murray-Darling Basin’, *17th annual Spatial Information Day (SID) 2017*, 11<sup>th</sup> August, Adelaide.
  146. Settre CM, Connor J, **Wheeler S** (2016) “Ecosystem Service Dynamics in the Murrumbidgee Catchment, Australia”. *2016 NRM Science Conference*, 13th-15th April, Adelaide.
  147. Haensch J, **Wheeler S**, Zuo A, Bjornlund H (2016) “The impact of water and soil salinity on water market trading in the southern Murray-Darling Basin”, *2016 NRM Science conference*, Adelaide, 14 April.
  148. Haensch J, **Wheeler S**, Zuo A, Bjornlund H (2016) “The impact of water and soil salinity on water market trading in the southern Murray-Darling Basin”, *Climate Adaptation 2016 Conference*, Adelaide, 06 July.
  149. Haensch J, **Wheeler S**, Zuo A (2016) “Location, Location, Location: the spatial influences on water entitlement selling in the southern Murray-Darling Basin”, *45<sup>th</sup> Australian Conference of Economists*, Adelaide, 11 July.
  150. **Wheeler S**, Rossini P, Bjornlund H. (2015) “Blue Gold: how valuable is it to invest in water in Australia”, selected paper presented at *World Water Congress*, Edinburgh, May 2015.
  151. Zuo A, **Wheeler S**, Boxall P, Adamowicz V, Hatton-MacDonald D. (2015) “Using a contingent behaviour approach to estimate water entitlement price elasticities”, selected paper presented at *Australian Agricultural Resource Economics Society*, Rotarua, New Zealand, 11<sup>th</sup> Feb, 2015.
  152. Douglas EM, **Wheeler SA**, Smith DJ, Gray S, Overton IC, Crossman ND, Doody T. (2014) “The role of stakeholders in Murray-Darling Basin water management: How do irrigators make water use decisions and how can this influence water policy?” *AGU Fall Meeting Abstracts* 1:0741-0741
  153. Zuo A, **Wheeler S**, Boxall P, Adamowicz V, Hatton-MacDonald D. (2014) “Identifying water prices at which Australian irrigators will exit irrigation: results of a stated preference survey”, accepted for presentation *11th Annual IWREC Meeting*, held September 7-9, 2014 at the World Bank Headquarters in Washington, DC.
  154. Zuo A, **Wheeler S**, Boxall P, Adamowicz V, Hatton-MacDonald D. (2014) “The Demand for and Supply of Water Entitlements in Australia: Results of a Survey Experiment”, *World Congress of Environmental and Resource Economists*, June, Istanbul.
  155. Zuo A, **Wheeler S**, Boxall P, Adamowicz V. (2014) “Identifying water prices at which Australian irrigators will exit irrigation: results of a stated preference survey”, *Australian Conference of Economists and Econometric Society Australasian Meeting*, held 1 - 4 July 2014, Hobart.
  156. **Wheeler S**, Zuo A, Hughes N. (2014) “Trading and owning water: the impact on irrigation farm profitability”, *Australian Journal of Agricultural and Resource Economics*, Port Macquarie, 7-2-14, paper selected in special refereed stream.
  157. Zuo A, Nauges C and **Wheeler S**. (2013) “Water allocation trading as a risk management strategy”, *Australian Journal of Agricultural and Resource Economics*, Sydney, 8-2-13, paper selected in special refereed stream.



158. Loch A, **Wheeler S.**, Onor I., Soderburge M., Bjornlund H. (2013). “Sequential decision-making: Theory and evidence for irrigator water allocation trade participation and volumetric choices”, *AARES*, Sydney, 8-2-13.
159. Bjornlund, H., Zuo, A., Wheeler, S. and de Loë, R. (2013) “Water Reallocation Policies – The Importance of Rural and Urban Differences in Alberta, Canada”. *World Academy of Science, Engineering and Technology Issue 76*, 871-880, Johannesburg, April 2013.
160. Bjornlund H., Zuo A., **Wheeler S.** (2012) "Water Reallocation Policies – the importance of rural and urban differences in Alberta, Canada". International Water Resource Economics Consortium (IWREC) at *World Water Week*, Stockholm, in Aug 2012
161. **Wheeler, S.** Garrick, D. Loch, A and Bjornlund H. (2011) “It's time for change: Using allocation trade to secure environmental water in Australia”, *Proceedings from the 18<sup>th</sup> European Association of Environmental and Resource Economists' Annual Conference*, 29 June - 2 July, Rome Italy.
162. Crisp, P., Baker, G. and **Wheeler, S.** (2010) “Agronomic outcomes of IPM control of citrus thrips in Riverland soils”, *IOBC/WPRS: Working Group on "Integrated Control in Citrus Fruit Crops"*, Agadir, Morocco. 01-03 March 2010.
163. **Wheeler, S.**, Lane-Miller, C. Zuo, A. and Bjornlund, H. (2010) “Who wants to sell Water to the Government and How Much Water do they want to Sell?” *Proceedings from the Australian Conference of Economists 2010*, Sydney, Darling Harbour.
164. **Wheeler, S.**, Lane-Miller, C. Zuo, A. and Bjornlund, H. (2010) “To Sell Water or Not to Sell Water to the Government: Exploring the Question Faced by Riverland Irrigators.” *Proceedings from the Economics and Environment Network Symposium*, Canberra. 2010
165. Loch, A., **Wheeler S.** and Bjornlund H. (2010) “Models of irrigator allocation water trade behaviour in the southern Murray-Darling Basin”, paper presented at the *13th Annual Environmental Research Event*, 27th – 30th June, 2010 at Central Queensland University, Rockhampton Qld.
166. **Wheeler S.**, Bjornlund H., Shanahan M. and Zuo A. (2009) “The profile of early water trading adopters in the Goulburn-Murray Irrigation District”, paper presented at the *Australian Conference of Economists 2009*, September 28-30th, 2009, Adelaide
167. **Wheeler S.**, Bjornlund H., Shanahan M and Zuo A (2008) “Modelling the demand for Water entitlements in the Goulburn-Murray Irrigation District of Australia”. Paper presented at *Water Down Under Conference, Adelaide 2008*, April.
168. Bjornlund, H., **Wheeler, S.** and Shanahan. M. (2008) “Supply and demand Elasticity of Irrigation water – implications for water markets.” *Proceedings from the 14<sup>th</sup> Annual Conference of the Pacific Rim Real Estate Society*, Kuala Lumpur, Malaysia, January. Available at [www.prrs.net](http://www.prrs.net).
169. **Wheeler S.** (2006) “The Influence of Market and Agricultural Policy Signals on the Level of Organic Farming”, *26th International Association of Agricultural Economists Conference*, Gold Coast, August 12-18.
170. **Wheeler S.** (2005) “Factors influencing Agricultural Professionals Attitudes towards Organic Agriculture and Biotechnology” at *Economics and Environment Network (EEN) Workshop* at Australian National University in May 2004. Won best PhD paper (\$500).

viii. *Other*

171. Xu Y, **Wheeler S.**, Ma Y. (2022) *Comparing bin audit results and sociodemographics of food waste*, report prepared for CRC Fight Food Waste, August 2022.
172. Xu Y, **Wheeler S.** *Valuing Native Vegetation in Australia: A systematic literature review of the evidence*, report prepared for Department of Environment and Water, August 2022.
173. Xu Y, Nguyen T, **Wheeler S.**, Heinrich K, Wundke J, Umberger W, Gregory R. (2022) *A literature review of food waste issues*, report prepared for CRC Fight Food Waste, July 2022.
174. **Wheeler S.** (2022) "Reviewing the benefits and costs of Wyangala dam enlargements", Listening to the Lachlan conference, 11<sup>th</sup> Feb 2022, invited talk at a mini-symposium on water markets.
175. **Wheeler S.** (2022) "Assessing on-farm irrigation infrastructure payments across the Murray-Darling Basin", *Listening to the Lachlan*: 22<sup>nd</sup> June 2022, invited talk at a symposium on the dam.
176. **Wheeler S.** (2021) "Assessing Water Markets from around the World", Global Water Forum: 16<sup>th</sup> Nov 2021, online. <https://globalwaterforum.org/2021/11/16/assessing-water-markets-around-the-world/>
177. **Wheeler S.** (2021) chaired a session for "The Social Future of Australia" for the Academy of Social Sciences 50<sup>th</sup> Anniversary session "Assessing Water Markets from around the World": 23<sup>rd</sup> Nov 2021, online.
178. **Wheeler S.** (2021) "How stable are Australian farmers' climate change risk perceptions? New evidence of the feedback loop between attitudes and behaviour" Invited presentation for *Farmers for Climate Change Action*, McLaren Vale Function centre, 11<sup>th</sup> Nov 2021.
179. **Wheeler S.** (2021) "How stable are Australian farmers' climate change risk perceptions? New evidence of the feedback loop between attitudes and behaviour", Presentation for AAEA 2021 Conference, United States, 3<sup>rd</sup> Aug 2021.
180. **Wheeler S.** (2021) "Water Policy in the MDB", Invited presentation for Sustainable Prosperity Action Group, Adelaide, online, 23<sup>rd</sup> Aug 2021.
181. **Wheeler S.** (2021) "Lessons and Insights from Murray-Darling Basin Water Reform", Invited presentation at *VicWater Connect Conference*: 21st May 2021, Melbourne, online.
182. **Wheeler S.** (2021) "Water Markets in Australia", Presidential Address to AARES, 10th Feb, 2021, Sydney, online.
183. **Wheeler S.** and Gregory R (2020) Invited presentation to Burnside council, on the "WWW: food waste project", 3rd December.
184. **Wheeler S.** (2020) 'Substituting groundwater for surface water – what could go wrong? A case study in Victoria, Australia'. Global Water Forum, 2<sup>nd</sup> December, <https://globalwaterforum.org/2020/12/02/substituting-groundwater-for-surface-water-what-could-go-wrong-a-case-study-in-victoria-australia/>
185. **Wheeler S.** (2020) Invited commentary presentation at the ANU Water forum gathering, 1st December.
186. **Wheeler S.** (2020) Invited evidence at the Cwlth of Australia Senate hearing for the Management and Execution of the Murray-Darling Basin Plan, 17<sup>th</sup> November.
187. **Wheeler S.** and Gregory R (2020) WWW of Household Food Waste Behaviour, 28<sup>th</sup> Oct 2020, Adelaide Convention Centre, Waste Conference.
188. **Wheeler S.**, Ying X, Zuo A, Tang W (2020) *Systematic Literature Review on Interventions to Increase Park Use and Physical Activities*, 26<sup>th</sup> October, prepared for SA Department of Environment and Water.

189. **Wheeler S.** (2020) "Water Markets in Australia: Understanding stakeholder participation, benefits and market failures", invited AARES Presidential keynote closing talk to NZARES Conference, on zoom, 28<sup>th</sup> August.
190. **Wheeler S.** (2020) "Water market literature review and empirical analysis", invited talk to ACCC, on zoom, 21<sup>st</sup> May.
191. **Wheeler S.,** Zuo A., Ying X, Haensch J., Seidl C. (2020) "Water market literature review and empirical analysis". Report prepared for ACCC 29th May, available at. [https://www.accc.gov.au/system/files/University%20of%20Adelaide%20-%20Water%20market%20literature%20review%20and%20empirical%20analysis%20-%20Final%20report%20for%20ACCC\\_0.pdf](https://www.accc.gov.au/system/files/University%20of%20Adelaide%20-%20Water%20market%20literature%20review%20and%20empirical%20analysis%20-%20Final%20report%20for%20ACCC_0.pdf)
192. **Wheeler S.,** Haensch J, Ying X, (2020) *Explaining Positive Attitudes towards Marine Parks and Sanctuary Zones in South Australia between 2011 and 2019*, March, prepared for SA Department of Environment and Water.
193. **Wheeler S** (2020) "Imbalance of Supply and Demand", World Water Reserve's blog: <https://worldwaterreserve.com/water-crisis/water-scarcity-experts/>
194. **Wheeler S** (2020) "Biting us on the Bum: The Rebound Effect on Water Extraction from Subsidising Irrigation Infrastructure Subsidies in the MDB", invited talk at Workshop on Climate Change and Water Governance, University of Sydney, 19th Feb 2020.
195. Zuo A., **Wheeler S,** Kandulu J (2020) What Water are we really pumping? Analysing Groundwater demand in the GMID, *Australasian Agricultural and Resource Economics Society* annual conference, Adelaide, 13<sup>th</sup> February.
196. **Wheeler S** (2019) Climate and Farm exit in the Murray-Darling Basin, invited talk at AFRAN Forum, Uni Adelaide, 5<sup>th</sup> December.
197. **Wheeler S** (2019) Overview of our water market research in the Murray-Darling Basin, invited talk to the CMI Toyota Board Meeting, 28<sup>th</sup> October.
198. **Wheeler S** (2019) " Scarcity drives water prices, not government water recovery: new research", <https://theconversation.com/scarcity-drives-water-prices-not-government-water-recovery-new-research-124491>
199. **Wheeler S** and Carmody E (2019) "Was the Government's irrigation cash splash worth it?", <https://www.adelaidenow.com.au/rendezview/was-the-governments-irrigation-cash-splash-worth-it/news-story/ce614f87bfe7f9ee1e503eebc52fb956>
200. **Wheeler S** (2019) "Dispelling myths about water recovery in the Murray-Darling Basin", invited public talk at the forum: *Disaster in the Murray Darling Basin: Explanations and Consequences*, University of Sydney, 9th May 2019. <https://soundcloud.com/sydneylawschool/disaster-in-the-murray-darling-basin>
201. Zuo A, **Wheeler S,** Tang W, Umberger, W, Liu X (2019) *Understanding parallel trade of Australian products to China*, Final report for the Department of Agriculture and Water Resources, May 2019.
202. **Wheeler S** (2019) "Climate Change Beliefs and Behaviour", University of Adelaide's Environment Institute public seminar on 'Meeting Australia's Climate Change Targets', 29th April.
203. **Wheeler S** (2020) Invited evidence at the Cwlth of Australia Senate hearing for the Water Amendment) Purchase Limit Repeal) Bill 2019, March.
204. **Wheeler S,** Zuo A, Xu Y, Grafton Q. Dazd S. (2019) *Emergency Drought Relief Package — Health and Resilience Services: an Evidence Check rapid review* brokered by the Sax Institute (www.saxinstitute.org.au) for the NSW Ministry of Health.
205. **Wheeler S.** (2019) "Reviewing the drought mental health literature", invited talk, Sydney, NSW Health, Feb. 2019
206. Australian Academy of Science (2019). *Investigation of the causes of mass fish kills in the Menindee Region NSW, over the summer of 2018–2019*. AAS, Canberra.

207. **Wheeler S.** (2019) “Economics of water recovery in the Murray-Darling Basin”, invited seminar, AARES, Melbourne, 14th Feb. 2019.
208. **Wheeler S.** (2018) “Exploring water security perceptions of alternative and conventional grape growers in South Australia”, presentation, *AgriFood XXV* conference in Brisbane, 3 December, 6<sup>th</sup> Sept. 2018.
209. **Wheeler S.** (2018) “Changes needed to water policy in the Murray-Darling Basin”, invited seminar, Sustainability Research Centre, University of Sunshine Coast, 6<sup>th</sup> Sept.
210. **Wheeler S.** (2018) “Sworn testimony at the SA Royal Murray-Darling Basin Commission”, Adelaide Town Hall, 3<sup>rd</sup> July.
211. **Wheeler S.** (2018) “Talking water policy with MDBA’s CEO Phillip Glyde and PC’s John Madden”, ANU’s Crawford Leadership Forum at ANU, Canberra, 26th June.
212. **Wheeler S, Nauges C.** (2018) “Farmers’ climate denial begins to wane as reality bites”, Oct 12, <https://theconversation.com/farmers-climate-denial-begins-to-wane-as-reality-bites-103906>
213. **Wheeler S** (2018) “Three reasons why it’s a bad idea to ramp up Adelaide’s desalination plant”, Aug 6, <https://theconversation.com/three-reasons-why-its-a-bad-idea-to-ramp-up-adelaides-desalination-plant-100968>
214. **Wheeler S.** (2018) “Myths and Facts about the Economics of Water Recovery in the Murray-Darling Basin” invited presentation to the Murray-Darling Basin Association at Norwood Council on May 24.
215. **Wheeler S, J Connor, Q Grafton, L Crase and J Quiggin** (2018) “Submission To The Productivity Commission’s Murray-Darling Basin’s Five Year Assessment Issues Paper” 17<sup>th</sup> April 2018, [https://www.pc.gov.au/data/assets/pdf\\_file/0008/227483/sub040-basin-plan.pdf](https://www.pc.gov.au/data/assets/pdf_file/0008/227483/sub040-basin-plan.pdf)
216. **Wheeler S, J Connor, Q Grafton, L Crase and J Quiggin** (2018) “Submission To The Murray-Darling Basin’s Royal Commission” 30th May 2018, <https://mdbrcsa.govcms.gov.au/sites/g/files/net3846/f/mdbrc-submission-professor-sarah-wheeler-sa.pdf?v=1527826747>
217. **Wheeler S, Xu Y, Zuo A.** (2018) “Climate or Water Use? Understanding the long-term drivers of farm exit in the Murray-Darling Basin”, *Climate Adaptation Conference 2018* on the 9th May, Crown Casino Conference Centre, Melbourne.
218. **Wheeler S.** (2018) “SciPub Murray-Darling Basin; the shape of our water”. Invited presentation on May 4th for Science in the Pub.
219. **Wheeler S, Xu Y, Zuo A.** (2018) Understanding the long-term drivers of farm exit in the Murray-Darling Basin, *SA Natural Resource Management conference*, 10th April, University of Adelaide.
220. **Wheeler S. (2018)** “Fixing leaky pipes no way to save a river”, Counterpoint nationwide interview on Amanda Vanstone’s radio show, 19<sup>th</sup> March. <http://www.abc.net.au/radionational/programs/counterpoint/irrigation-fixes-will-make-droughts-worse/9544252>
221. **Wheeler S.** (2018) “Drivers of farm exit in the Murray-Darling Basin”, invited lead presentation at the *SA Natural Resource Management (NRM) science conference* “Science for policy in a changing world” 10-11 April in Adelaide. She also participated in a panel session on climate adaptation.
222. **Wheeler S,** (2018) “An overview of the water economics conducted by GFAR”, invited presentation to SA Department of Water, Environment and Natural Resources, Adelaide.
223. Grafton, Q, **Wheeler S,** Connor J., Crase L, Paton D., Bjornlund H., Williams J., Kingsford R., Hatton-MacDonald H., Harris G., Davis, R. Quiggin J. (2018) Murray-Darling Declaration, launched 5<sup>th</sup> Feb, <https://murraydeclaration.org/>

224. Haensch J, **Wheeler S**, Zuo A (2018) “Examining rural-urban effects on water trading behaviour”. *Australasian Agricultural and Resource Economics Society* annual conference, Adelaide, 7th February.
225. De Bonviller S, Zuo A, **Wheeler S** (2018) Insider trading? The case of water allocation announcements in the Goulburn water market, Australia. *Australasian Agricultural and Resource Economics Society* annual conference, Adelaide, 7th February.
226. Seidl C, **Wheeler S**, Loch A, Zuo A (2018) Strategies to manage irrigator water supply risk: insights from the southern Murray-Darling Basin, Australia. *Australasian Agricultural and Resource Economics Society* annual conference, Adelaide, 7th February.
227. Q. Grafton, D.H MacDonal, D Paton, G Harris, H Bjornlund, J. Connor, J Quiggin; J Williams, L Crase; R. Kingsford, **S.A Wheeler** (2018) The Murray Darling Basin Plan is not delivering – there’s no more time to waste, Feb 5, <https://theconversation.com/the-murray-darling-basin-plan-is-not-delivering-theres-no-more-time-to-waste-91076>
228. De Bonviller S., **Wheeler S.**, Zuo A. (2017) Investigating insider trading in Australian water markets, presented at *3rd Doctorial conference on water social sciences*, Université Paris Nanterre campus, Nanterre, 4<sup>th</sup> December.
229. **Wheeler S.** (2017) “The reasons why gender needs to be considered in water research”, ACIAR workshop on Efficient participatory irrigation institutions to support productive & sustainable agriculture in south Asia, 25<sup>th</sup> September, Sri Lanka.
230. Adamson, D., Loch A., **Wheeler S.**, (2017) “Presentation and questions” before the *Submission to the Standing Committee on Agriculture and Water Resources: Inquiry into water-use efficiency in Australian agriculture*, 23<sup>rd</sup> September, SA Parliament.
231. **Wheeler S.**, (2017) Project overview on ARC Future Fellowship work, briefing provided to Federal member Tony Burke, 26<sup>th</sup> July, GFAR, University of Adelaide.
232. **Wheeler S.** (2017) Advice on South Australian agricultural policy goals, 10th August, invited presentation to the SA Greens agricultural committee.
233. Yazd S., Zuo A., **Wheeler S.** (2017) Dry or wet? The influence of climate and socio-economics on Australian farmers’ mental health, *2017 Australian Conference of Economists: Economics for Better Lives*, 19-21 July, Sydney.
234. **Wheeler S.**, Zuo A. (2017) “Farm exit and drought in the Murray-Darling Basin”, invited paper on 23/6/17 at *2017 Goyder Institute Water Forum*.
235. **Wheeler, S.** (2017) “Latest research on water markets”. Invited presentation to Murray-Darling Basin Authority, 26/5/2017, MDBA, Canberra.
236. **Wheeler, S.** (2017) “Investigating Initiatives in the Murray-Darling Basin That Embody Integral Ecology”, invited presentation to *Faith in a Basin Future Forum*, 4/4/2017, Charles Sturt University Canberra campus.
237. **Wheeler, S.**, J. Edwards, J. Haensch, A Zuo, J. Schirmer (2017) *Exploring Initiatives In The Murray-Darling Basin That Embody Integral Ecology*. Report to Catholic Earthcare Australia/Uniting Church: Faith in a Basin Future project, May.
238. Adamson, D., Loch A., **Wheeler S.**, Connor J (2017) *Submission to the Standing Committee on Agriculture and Water Resources: Inquiry into water-use efficiency in Australian agriculture*, 31st March.
239. **Wheeler S**, Ying X, Zuo A. (2017) “The impact of environmental drivers and socio-demographics on childhood mental health: Establishing the behavioural links”, 31/3/2017, *Healthy Urban Microbiomes Initiative workshop*, University of Adelaide.
240. Loch A, **Wheeler S**, Settre C. (2017) “Private water trade transaction costs in the MDB: an empirical assessment over time”, *AARES 2017*, Brisbane, 10<sup>th</sup> February.
241. Palomo Hierro S., Loch A, **Wheeler S** (2017) “Improving water governance: Lesson-drawing from water market comparisons in Spain and Australia”, *AARES 2017*, Brisbane, 10<sup>th</sup> February.

242. Gregg D., **Wheeler S** (2017) “Image Management and Self Deception response biases in Stated Preference studies: A Contingent and Inferred Valuation study for the preservation of a SA wetland,” *AARES 2017*, Brisbane, 9<sup>th</sup> February.
243. **Wheeler S** (2017) “Comments on panellists in Mini-symposium on urban water economics”, *AARES 2017*, Brisbane, 9<sup>th</sup> February.
244. Haensch, J., **Wheeler, S.** Zuo, A. (2017). “The spatial distribution and determinants of price preferences for water entitlement trading”, *AARES 2017*, Brisbane, 10<sup>th</sup> February.
245. **Wheeler S.**, Zuo A., Loch A. (2016) “Water Torture: Unravelling mental distress of irrigators in the Murray-Darling Basin”, contributed paper on 9/12/16 at *AgriFood XXIII* in Adelaide, 2016.
246. Settre, C., Connor, J., **Wheeler, S.** (2016). “Improving ecosystem services through trade in the Murrumbidgee Catchment, Australia”. *University of California Riverside School of Public Policy seminar series*, Riverside, 02/12/2016.
247. **Wheeler S.** (2016) “Sarah Wheeler on Water Scarcity”, ABC Radio National show, 12/11/2016, <http://www.abc.net.au/radionational/programs/whatkeepsmeawake/sarah-wheeler-what-keeps-me-awake--water/7983778>
248. Settre CM, Connor J, **Wheeler S** (2016) Improving Ecosystem Services through Trade in the Murrumbidgee Catchment, Australia, *60th National Australian and Agricultural Resource Economics Society Conference*, 2nd-5th February, 2016. Canberra, Australia.
249. **Wheeler S.**, Zuo A., Loch A. (2016) Water Torture: Unravelling mental distress of irrigators in the Murray-Darling Basin” *National Water Forum 2016*, Rockford, Adelaide, 11/11/2016.
250. Settre, C., Connor, J., **Wheeler, S.** (2016). “Improving ecosystem services through trade in the Murrumbidgee Catchment, Australia”. *National Water Forum 2016*, Rockford, Adelaide, 11/11/2016. 30% contribution.
251. **Wheeler S.** (2016) “Entering the age of organics The rapid growth of organic farming”, *The Policy Forum*, <https://www.policyforum.net/age-of-organics/>
252. **Wheeler S.** (2016) “How to endure drought: a multi-faceted response”, *IWA: The Source*, <http://www.thesourcemagazine.org/how-to-endure-drought/>
253. Zuo, A., **S Wheeler**, A. Loch (2016) *Short Survey of Southern Murray-Darling Basin Irrigators’ Views on the Review of Water Charge Rules*. Report for Australian Competition and Consumer Commission, May.
254. **Wheeler S.** (2016) “Pathways to Research Leadership”, invited presentation at Academy of Sciences early to mid-career workshop on 26/9/16 in Sydney.
255. **Wheeler S**, Nauges C. (2016) “The negative rebound effect of high-cost water and energy mitigation on climate change concern”. Invited presentation at University of Tasmania, 20/5/2016.
256. **Wheeler S** (2016) “Emerging issues facing the water-energy-food nexus in the Middle East and Asia”. Invited presentation at a *Joint Workshop by the National University of Singapore and KAPSARC* on 22/2/16.
257. **Wheeler S.** (2016) “Lessons from water markets in Australia”. Invited presentation at a *California water workshop* organised by Caltech University, Los Angeles 21/4/2016.
258. Zuo, A. **Wheeler, S.**, Schwabe, K. (2016). “Exploring regional farm exit in the Murray-Darling Basin”. Invited presentation, *60th Australian Agricultural and Resource Economics Society*, Canberra, 2-5 February.

259. **Wheeler, S.**, Zuo A. (2016). “Selling the farm: understanding irrigators’ intentions to sell the farm in the Murray-Darling Basin in Australia”. *60th Australian Agricultural and Resource Economics Society*, Canberra, 2-5 February.
260. Settre, C., Connor, J., **Wheeler, S.** (2016). “Improving ecosystem services through trade in the Murrumbidgee Catchment, Australia”. *60th Australian Agricultural and Resource Economics Society*, Canberra, 2-5 February.
261. Haensch, J., **Wheeler, S.** Zuo, A. (2016). “The spatial influence of neighbours’ water sale behaviour on irrigators’ water entitlement selling”. *60th Australian Agricultural and Resource Economics Society Conference*, Canberra, 2-5 February.
262. Zuo, A. **Wheeler, S.**, Schwabe, K. (2016). “Exploring regional farm exit in the Murray-Darling Basin”. **Invited presentation**, *60th Australian Agricultural and Resource Economics Society*, Canberra, 2-5 February
263. Nauges, C. and **Wheeler, S.** (2015). “People's beliefs and motives influence the effectiveness of green policies”, *The Economist*, online: <http://www.economist.com/blogs/freeexchange/2015/12/climate-psychology>.
264. Zuo, A. **Wheeler, S.**, Schwabe, K. (2015). “Exploring regional farm exit in the Murray-Darling Basin”, GFAR seminar, Adelaide, 30<sup>th</sup> November.
265. **Wheeler S.** (2015) “Waterisk”, **Invited presentation** as part of a forum of water researchers at *Research Tuesdays*, University of Adelaide, 19th October.
266. **Wheeler S.** (2015) “Dispelling misunderstandings about irrigators and water trade in the Murray-Darling Basin”, invited presentation, *Basin by Numbers*, ANU, 30<sup>th</sup> September.
267. **Wheeler S.** (2015) “Modelling Water Use by Organic and Conventional farms in the Murray-Darling Basin, Australia” **Keynote invited presentation** at NZAARES, Wellington, 28th August.
268. **Wheeler S.** (2015) “How to model water trade in Australia and what role does spatial information play?” **Keynote invited presentation**, at *Spatial Information Day*, Convention Centre, 14th August.
269. **Wheeler S.** (2015) “How to model entitlement trade in Australia” **invited presentation** at a *Market Design Workshop*, University of Technology Sydney, on the 23 July 2015.
270. Settre C. and **Wheeler S.** (2015) “A Century of Water Engineering and Environmental works Development in the Coorong, Lower Lakes and Murray Mouth – a case study in Australia” a contributed paper given at *Australian Agricultural Resource Economics Society*, Rotarua, New Zealand, 13th Feb.
271. **Wheeler S.** (2014) “My Tips for Writing a Successful Future Fellows Application”, **invited presentation**, UniSA ARC/NHRMC Fellows Research Day, 25<sup>th</sup> August 2014.
272. **Wheeler S.** (2014) “Regional benefits from sharing water in the Murray-Darling Basin”, **Invited Presentation**, *United Nations Economic Commission Europe Water Convention*, 23<sup>rd</sup> May, Geneva, Switzerland.
273. **Wheeler S.**, Zuo, Loch, Grafton (2014) *Survey of Users of the National Pollutant Inventory*, report for Federal Department of the Environment, January.
274. **Wheeler S.** (2013) “On-farm Viability Consequences of Selling Water for the Environment”, **Invited Presentation**, *Water Forum*, 7<sup>th</sup> Nov, Albury, Australia.
275. **Wheeler S.** (2013) “On-farm Viability Consequences of Selling Water for the Environment”, **Invited Presentation**, Water Markets Seminar, 22<sup>nd</sup> Oct, Melbourne.

276. **Wheeler S.** (2013) “Lessons learned from water reform in the MDB”, **Invited Presentation**, *Water reform in the Colorado and Murray-Darling Basins workshop*, 23<sup>rd</sup> September, ANU, Canberra, Australia.
277. **Wheeler S.** (2013) “Consequences of Selling Water for the Environment”, **Invited Presentation**, Hydrological Society of SA, Water and Economy, CSIRO, 17<sup>th</sup> July, Adelaide, Australia.
278. **Wheeler S.** (2013) “Valuing reduced conflict from transboundary water agreement: Insights and lessons from Australia”, **Invited Presentation**, *UNESCO expert water scoping workshop*, 6<sup>th</sup> June, Amsterdam, Netherlands.
279. **Wheeler S.** (2013). “Water Trade, Climate Change and Irrigator Adaptability in the Murray-Darling Basin”, **Invited Presentation**, *NCCARF culmination final workshop*, 30<sup>th</sup> May, Canberra, Australia.
280. **Wheeler S.** Zuo A. Bjornlund H. (2013) “Irrigator climate change beliefs and their adaptation strategies for a water scarce future in Australia”, *Australian Journal of Agricultural and Resource Economics*, 6<sup>th</sup> Feb, Sydney, Australia.
281. **Wheeler SA**, Crisp P, Baker G (2013) *A Benefit/Cost Assessment in Citrus IPM Following the Application of Soil Amendments*, Report for Horticulture Australia (CT10022).
282. Loch X. **Wheeler S.** Boxall X. Hatton-MacDonald X. Bjornlund H. Adamowicz V. (2012) “Irrigator stated preferences for WFF budget allocation”, **Invited presentation**, *CWEEP’s third water economics workshop*, 3<sup>rd</sup> August, Canberra, Australia.
283. **Wheeler S.** Zuo X. Boxall X. Adamowicz V. Hatton-MacDonald X. Bjornlund H. (2012) “Estimating Water entitlement supply and demand curves”, **Invited presentation**, *CWEEP water economics workshop*, ANU, 3<sup>rd</sup> August, Canberra, Australia.
284. Zuo X. Nauges X. **Wheeler S.** (2012) “Evidence of water allocation trade as a risk management strategy”, **Invited presentation**, *CWEEP’s third water economics workshop*, 3<sup>rd</sup> August, ANU, Canberra, Australia.
285. Cheesman X. **Wheeler S.** (2012) “Survey of water sellers to the *Restoring the balance* program”, report for Department of Sustainability, Environment, Water, Population and Communities, published online:  
<http://www.environment.gov.au/water/publications/mdb/survey-seller-rtb-program.html>
286. Bjornlund H., Xu W. Zuo A. **Wheeler S.** (2012) ‘Exploring policy preferences for water sharing in southern Alberta’, *Canadian Water Resources Association*, 5th-8th June, Banff, Alberta, Canada.
287. Bjornlund H. Xu W. Zuo A. **Wheeler S.** (2012) “Place-contingent policy preferences for sharing scarce water resources – Insights from Alberta, Canada”, *American Association of Geographers*, 29<sup>th</sup> Feb, New York, USA.
288. **Wheeler S.** Loch X (2012) “Managing Environmental Water in the Murray-Darling Basin”, **Invited presentation**, SA Department of Water, 15<sup>th</sup> Feb, Australia.
289. **Wheeler S.** (2012) “Selling the Farm Silver: Understanding water sales to the Australian Government”, *Australian Journal of Agricultural and Resource Economics*, 9<sup>th</sup> Feb, Fremantle, Australia.
290. Bjornlund H. Rossini X. **Wheeler S.** (2012) “Assessing the performance of the Australian Water Market after the Break in the Drought”, *18th Annual conference of the Pacific Rim Real Estate Society*, 15<sup>th</sup> Jan, Adelaide, Australia.



291. **Wheeler S.** (2012) “Selling the Farm Silver: Understanding water sales to the Australian Government”, **Invited presentation**, SA State Parliament, 25<sup>th</sup> Nov, Adelaide, Australia.
292. **Wheeler S.** (2011) “Selling the Farm Silver: Understanding water sales to the Australian Government”. **Invited presentation** ‘Place as Identity’ UniSA Research Snapshots Day, 22<sup>nd</sup> September, Adelaide, Australia.
293. **Wheeler S**, Zuo A. Bjornlund H. (2010) *Investigating irrigator water use, selling water entitlements, exit behaviour and government intervention in water markets in the Southern Murray Darling Basin*, report prepared for National Water Commission, via Marsden Jacobs Associates.
294. **Wheeler S**, Round D, Wilson J (2010) *The Relationship between crime and gaming expenditure in Victoria*, Melbourne: Department of Justice, Victoria.
295. **Wheeler S** (2011) “Incorporating temporary trade with the buy-back of water entitlements in Australia’, **Invited presentation**, *CWEEP’s water workshop*, 30<sup>th</sup> March, Canberra, Australia.
296. Zuo A. **Wheeler S.** Bjornlund H (2010) “Examining the changing profile of water traders in the Goulburn-Murray Irrigation District (GMID) between 1998-99 and 2003-06”, *Australian Journal of Agricultural and Resource Economics*, 11<sup>th</sup> Feb, Adelaide, Australia.
297. **Wheeler S.** (2010) "The benefits and costs of organic agriculture: A case study of viticultural production at Penfolds Clare Valley Estate", *Australian Journal of Agricultural and Resource Economics*, 9<sup>th</sup> Feb, Adelaide, Australia.
298. Zuo A., Bjornlund H., **Wheeler S.**, Kan E, Corral de Zubielqui C. (2010) *Exploring Attitudes to Water Re-Allocation in Southern Alberta*, report for industry partners.
299. **Wheeler S.** (2009) “Benefit-cost and sustainability analysis of compost mulch, grape mark and animal manure in citrus”. **Invited presentation**, *Compost and Organic Conference*, SARDI, 16<sup>th</sup> Oct, Adelaide, Australia.
300. **Wheeler**: “Is there a link between gambling and crime?” Presentation at UniSA, 23/10/07.
301. **Wheeler S.** (2005) “Toward Safer Food: Perspectives on risk and priority setting: a review”, *Australian Journal of Agricultural and Resource Economics*, 49, 356-359.

## 5. RESEARCH GRANTS

As a sole applicant, and in conjunction with other university members, Sarah has been responsible for winning over \$4.5 million dollars worth (and on teams that have won over \$46 million in total) of research/contract grants since she has been employed, with the majority of this Category 1 funding. She has also been the main researcher on the majority of these projects listed below.

### *External Funding since 2006*

Year	Recipients	Funding Agency	Project	Amount (excl. GST)
2023-2028	<b>Knowling, Wheeler</b> et al.	GRDC	Enterprise choice and sequence strategies that drive sustainable and profitable southern Australian farming systems	Around \$11,000,000 project in total to UofA

2022-2025	<b>Wheeler</b>	CSIRO	Water banking readiness project	\$1,072,760 (of which \$883,000 is cash)
2022	Cooper, Crase, Connor, <b>Wheeler</b> , Simmons	Goyder	Water Rating Systems	\$1,500 to UofA (\$42,360 in total)
2022	<b>Wheeler</b> and Zuo	MDBA	Literature review on economic studies of water recovery	\$50,000
2022	<b>Wheeler</b> and Zuo	MDBA	Consultancy advice on MDB outlook	\$33,000
2022-2024	Zuo and <b>Wheeler</b>	ARC Discovery	Impacts of changing water ownership and reforms on Australian water markets	\$234,878
2022	<b>Wheeler</b> and Zuo	SA Department of Environment and Water	Literature review of native vegetation values in Australia	\$50,000
2022	Kurunasena, Pearson, <b>Wheeler</b> , Ceron	Australian Academy of Social Sciences	Workshop on food waste	\$9,000 (money to CQU)
2021-2022	Wyroll, Guillame, <b>Wheeler</b> , Daniels, Grafton, Do, Talbot-Jones	ANU Crawford School of Public Policy and Institute for Water Futures	Renovating Cost-Benefit Analysis of Public Water Infrastructure for a Risky World	\$25,000 (money to ANU)
2020	<b>Wheeler</b> and Zuo	ACCC	Water market literature review and empirical analysis	\$65,320
2020-22	<b>Wheeler</b> , Grafton, Nauges,	Australian Research Council Discovery Project	Consequences of water reform and changing farm adaptation in the Basin	\$159,698
2019-22	Westra, Lowe, <b>Wheeler</b> , Umberger, et al	Wine Australia	Vitivisor	\$2million plus (\$300,000 to GFAR)
2018-22	<b>Wheeler</b>	CSIRO	Support money for top-up scholarship on water	\$50,000
2018-19	<b>Wheeler</b>	ETHOS	Mentoring	\$1,300
2018-19	<b>Wheeler</b> , Grafton, Zuo, Xu	NSW Health (through Sax Institute)	Evidence check of mental health of drought-affected communities	\$33,850
2018-2019	Zuo, <b>Wheeler</b> , Umberger	Cwlth Department of Agriculture and Water Resources	Understanding parallel trade of Australian products to China	\$102,300
2018-20	<b>Wheeler</b> , Crisp, Adamson, Smallridge	Meat and Livestock Australia	Evaluation of the Sterile Insect Technique for Sheep Blowfly Control	\$33,000 to UofA (\$100,000 in total for project)
2018-2025	<b>Wheeler et al.</b>	CRC for Food Waste Fed Government + industry + state govts	WWW: What, where and when of food waste	\$390,000 cash, \$432,000 inkind
2018-2019	<b>Wheeler</b>	Ian Potter and Myer	Expert panel advice	\$5,000

		Foundation Project	on water nationwide project	
2018-2019	Jacobson, King <b>Wheeler</b> , et al.	ACIAR	Policy Drivers for Public-Private Partnerships in Pacific Organics: Improving Extension Policy through an Evidence-based approach	\$17,570 to UofA (\$139,335 in total)
2017-2019	Zuo, <b>Wheeler</b> , Umberger, Roberts	ACIAR	Challenges and opportunities for meeting requirements of China mango markets	\$77,042 (\$220,000)
2017-2019	Umberger, <b>Wheeler</b>	DEWNR	Funding for a split position between DEWNR and GFAR	\$152,000
2017-2020	Pittock, Ramshaw, Stirzaker Bjornlund, <b>Wheeler</b>	ACIAR	Stage II: Increasing irrigation water productivity in Mozambique, Tanzania and Zimbabwe through on-farm monitoring, adaptive management and AIPs	\$60,000+ (\$3,600,000 total)
2017-2019	Cruse, <b>Wheeler</b> , Cooper et al.	ACIAR	Efficient participatory irrigation institutions to support productive & sustainable agriculture in south Asia	\$32,000 – UofA portion
2017	<b>Wheeler</b> , Zuo, Haensch	Faith in a Basin Future, Catholic Earthcare and Uniting Church	Literature review on initiatives in the Murray-Darling Basin that embody integral ecology	\$10,000
2016	<b>Wheeler</b> , Zuo	UniSA, ACIAR	Africa project further money	\$15,000
2016	<b>Wheeler</b> , Zuo, Loch	ACCC	Irrigator Farm Survey for southern MDB	\$33,000
2016	Loch, <b>Wheeler</b> , Zuo, Young	UNESCO	Developing a Water Market Readiness Approach	\$20,000
2015	Overton et al., <b>Wheeler</b>	Goyder	Developing a Decision Support System framework for SA	\$4,147-GFAR portion
2015	<b>Wheeler</b> and Gregg	Parrakie Wetlands	Valuing Parrakie Wetlands	\$10,000
2014-2018	<b>Wheeler</b>	Australian Research Council Future Fellowship	Adapting for an uncertain future: farmer behaviour in water-stressed basins	\$731,694 - ARC \$655,716 - UniSA
2015-2017	Bjornlund and <b>Wheeler</b>	ACIAR	Further support for: Increasing irrigation water productivity in Mozambique, Tanzania and	Total (\$176,000), UniSA portion: \$46,500

			Zimbabwe through on-farm monitoring, adaptive management & Agricultural Innovation Platforms	
2014-2016	<b>Wheeler</b> , Loch, Bjornlund, Garrick, Boxall, Adamowicz	ARC Discovery	Transitioning to a water secure future	\$172,000
2014	<b>Wheeler</b>	United Nations	Invited expert speaker at United Nations workshop on transboundary water issues in Geneva	\$3,000
2014	<b>Wheeler</b>	Murray-Darling Basin Authority	Economic impacts of Basin water reforms on irrigated agriculture – expert advice	\$5,669
2014	<b>Wheeler</b>	CSIRO Land and Water	Water Values and Benefits	\$3,000
2014	<b>Wheeler</b>	National Water Commission	Expert Advisor for the Commission	\$11,000
2013	<b>Wheeler</b> , Zuo, Loch, Grafton	Federal Department of the Environment	Survey of Users of the National Pollutant Inventory	\$25,000
2013	<b>Wheeler</b>	Government of Netherlands	Invited expert speaker at UNECE workshop on transboundary water issues in Amsterdam	\$4,500
2013-2017	Pittock, Ramshaw, Grafton, Stirzaker, Bjornlund, <b>Wheeler</b> , Loch, Zuo, Sibanda, Sullivan, Mbakwe, Munguambe, Nhabetse, Mdemu, Kashaigili, Lwena, Chitanda, Kapufi, Nyamangara, Rooyen, Moyo, Mashingaidze, Homann- Kee Tui, Mawokomatanda, Thebe	Australian Centre for International Agricultural Research (ACIAR) – Cat. 1	Increasing irrigation water productivity in Mozambique, Tanzania and Zimbabwe through on-farm monitoring, adaptive management and Agricultural Innovation Platforms	Total (ANU, CSIRO, UniSA, various organisations from Tanzania, Mozambique, Zimbabwe, South Africa): \$3,232,409 UniSA amount: \$120,000
2013	<b>Wheeler</b> , Loch	National Water Commission	Expert Advisors for the Commission	\$29,150
2013	<b>Wheeler</b>	National Climate Change Adaptation Research Facility (Cat 1)	Expert reviewer, keynote speaker at NCCARF's launch at Federal parliament, and IPCC official reviewer on 5 <sup>th</sup> Assessment report	\$2,600
2011-2013	<b>Wheeler</b> ,	National Climate Change	Water Trade, Climate	NCCARF - \$180,000

	Bjornlund, Beecham, Shanahan, Zuo and Loch	Adaptation Research Facility (Cat 1)	Change and Irrigator Adaptability in the Murray-Darling Basin	UniSA - \$20,000
2011-2012	<b>Wheeler</b> and Cheesman (MJA)	Federal Department of Sustainability, Environment, Water, Populations and Communities	Mid-term review of the <i>Restoring the Balance</i> program	UniSA portion=\$95,000 MJA portion= \$65,000
2009-2012	<b>Wheeler</b> , Bjornlund and Shanahan	ARC Linkage, Partners = Murray Darling Basin Authority, Goulburn Murray Water, NSW Department of Energy and Water, Department of Sustainability and Environment and University of Lethbridge, Canada (Cat 1)	Improving water market outcomes through a better understanding of market behaviour	ARC – \$367,000 Partners - \$165,000 cash Partners - \$605,967 in-kind contributions
2010-2011	<b>Wheeler</b> , Zuo	National Water Commission	Contribution to the evaluation of the National Water Initiative	\$33,000
2009	<b>Wheeler</b>	Horticulture Australia (through SARDI) (Cat 1)	Citrus thrips disease	\$5,000
2008	Bjornlund, <b>Wheeler</b> , Kuehne	RIRDC water project and other industry partners & Div. Business. (Cat 1)	Water Trading	\$15,000 - BUE \$75,000 – RIRDC \$35,000 - industry partners
2008	<b>Wheeler</b>	SA Centre for Economic Studies	Gambling Research Tasmania	\$6,000
2007-2009	<b>Wheeler</b> , Round and Wilson	Vic. Department of Justice	Gambling and Crime Research in Vic.	\$36,000
2006	<b>Wheeler</b>	SA Centre for Economic Studies	Gambling Research SA	\$20,000

### ***Internal University Funding since 2007***

<b>Year</b>	<b>Recipients</b>	<b>Funding Agency</b>	<b>Project</b>	<b>Amount</b>
2021-22	Maier, <b>Wheeler</b> , Westra, Mosley, Pitchford, Wirthenson, Helfgott	University of Adelaide, Interdisciplinary Research Fund	Novel business models for integrated water, food and energy production systems	\$65,000
2021-22	Lowe, Liu, Denton, <b>Wheeler</b> , Chin, Cassey, Hogendoorn	University of Adelaide, Interdisciplinary Research Fund	Advanced technologies to assess and report on the sustainability of farming landscapes and resilient environments	\$60,000
2018-19	<b>Wheeler</b> , Umberger	ECMS	Phase One: Developing Vitivisor	\$30,000
2017-2018	<b>Wheeler</b> , Babie, Leadbeter, Brookes, Maier, Cavagnaro, Young, Westra, Drew	University of Adelaide, Interdisciplinary Research Fund	Developing a University of Adelaide water network to address the Murray-Darling Basin (and the world's) water challenge	\$70,000
2017-2018	Martin Breed, Philip Weinstein, Stephen Pederson, Damith Ranasinghe, Peng	University of Adelaide, Interdisciplinary Research Fund	Establishing the University of Adelaide as a world leader in healthy environment-healthy people microbiome research	\$50,000

	Bi, Andrew Lowe, Christopher Schapel, <b>Sarah Wheeler</b> , Patrick O'Connor, Laura Weyrich.			
2017	<b>Wheeler</b>	Faculty of Professions Research Fund	Write-up PHD journal fund for Claire Settre	\$10,000
2016	Loch, <b>Wheeler</b> , Umberger, Gregg	University of Adelaide Beacon Infrastructure Fund	Mobile e-laboratory and decision simulation hardware	\$29,596
2016	<b>Wheeler</b>	Business School C1 Investment scheme UniSA	Funding for being a supported adjunct researcher	\$5,600
2016	Weinsten, <b>Wheeler</b> , Lowe, Weyrich, Breed, Liu	University of Adelaide, Interdisciplinary Research Fund	Does microbial diversity suppress infectious disease	\$33,000
2016	Ankeny, Bowd, <b>Wheeler</b> , Hazel, Bray	University of Adelaide, Interdisciplinary Research Fund	Sharing the Table: How can potentially competing stakeholder views towards agriculture be reconciled?	\$24,918
2016	Westra, Cavagnaro, <b>Wheeler</b> , Shi, Wu	University of Adelaide, Interdisciplinary Research Fund	Agrigate: Combining Cheap Sensing, Cloud-based architectures and machine learning to improve agricultural productivity	\$49,474
2015	<b>Wheeler</b>	Business School C1 Investment scheme UniSA	Funding for being a supported researcher	\$14,333
2015	Dollman, Smith Dorrian ,Parfitt <b>Wheeler</b> ,Turnbull Brown	ARENA – UniSA SANSOM institute	Concurrent validity and feasibility of ecological momentary assessment for characterising stress and depression among South Australian farmers Support for infrastructure development	\$8,908 \$10,000
2014	<b>Wheeler</b>	Business School C1 Investment scheme UniSA	Funding for being a supported researcher	\$12,165
2013	<b>Wheeler</b>	UniSA International Research Collaboration Support Program	Distinguished Researcher Travel Award for Prof Peter Boxall	\$10,080
2013	<b>Wheeler</b> , Zuo	DivBUE Pilot Grant Funding	Climate Change Beliefs and Adaptation Behaviour: Developing a database to develop a world-wide theory	\$5,000
2010	<b>Wheeler</b> , Bjornlund and Zuo	Div. Business	UniSA Journal Publication Collaboration Scheme Grant	\$5,000
2010-2011	<b>Wheeler</b> and Round	Div. Business	Further investigating Gambling and Crime	\$12,000
2007	<b>Wheeler</b> & Round	Div Business	Gambling ARC application	\$3,000
2008	<b>Wheeler</b> , Bjornlund Shanahan	Div Business	Water research	\$3,000

## 6. TEACHING AND UNIVERSITY SERVICE

- 2018 onwards – on Environment Institute management board committee
- 2022 - Honours coordinator for School of Economics and Public Policy
- 2022 - Honours Economics Thesis: ECON 4010
- 2022 – Economics of Climate Change
- 2022 – Economic Policy Analysis III: ECON 3525
- 2021 Honours coordinator for School of Economics and Public Policy
- 2022 - Honours Economics Thesis: ECON 4010

- 2017 – 2020: AGRIBUS7063 Research Projects in Agribusiness (Project) masters course (~30 students), supervisor, University of Adelaide.
- 2017 – 2021: AGRIBUS7064 Water Security and Governance masters course (~30 students), course designer and lecturer, University of Adelaide.
- HDR Convenor for the Faculty of Professions: January 2017 to June 2018
- Associate Director of GFAR: June 2016 to Jan 2021.
- PGC coordinator and HDR for GFAR, Faculty of Professions: Sept 2015 to Jan 2021 for PGC, June 2016 to June 2021 for HDR
- Strong SELTS scores for teaching, always scores higher than GFAR, Faculty or university averages.
- Numerous employment and promotion committees.

## 7. PROFESSIONAL ACTIVITIES AND COMMUNITY SERVICE

### i. *Professional Associations*

AASSA – elected fellow of the Academy of Social Sciences Australia in November 2020  
 AARES (Australasian Agricultural and Resource Economics Society) member. President-elect from Feb 2019, President from Feb 2020.  
 Member of SA executive council of AARES (2007-2008)  
 Member of International Association of Agricultural Economists  
 Member of International Water Resource Economics Consortium  
 Member of *Centre for Water Economics and Policy*, ANU  
 Member of *Economics and Science Group*, ANU  
 Leader of the Murray-Darling Basin region of the *FE2W (Food, Energy, Environment Water Network)*, ANU  
 Member of the executive committee for the Wessex Institute's *Sustainable Irrigation* conference held in Adelaide in December 2012.  
 Member of the executive committee for the Wessex Institute's *Sustainable Irrigation* conference held in Poland in 2014.  
 Former member of *Centre for Water Policy and Management*, La Trobe University  
 Member of the SA Branch of the *Organic Federation of Australia's* expert advisory board  
 Member of the *Independent, Evidenced Based Gambling Research Unit* at the University of Adelaide.

### ii. *Conferences/Workshops Organised*

- Australian Social Sciences Association (ASSA) Food waste policy workshop to be held Nov 2022
- Australian Social Sciences Association (ASSA) 50th Anniversary Symposium Committee, Nov 2021
- AARES 2021, Sydney, Feb. Assisted as AARES President.
- AARES 2020 Perth, Feb.
- AgriFood XXIII Conference 2016, Adelaide, 7-10<sup>th</sup> December
- AARES Drought Workshop, co-chaired with Prof Lin Crase, held in Canberra on 1<sup>st</sup> Feb 2016
- UniSA/CSIRO Water Economics and Policy Research Workshop, held at UniSA on 13<sup>th</sup> August 2014
- December 2012 in Adelaide: *Sustainable Irrigation* – part of the Wessex International Technology series: <http://www.wessex.ac.uk/12-conferences/sustainable-irrigation-2012.html>

- August 2012 in Canberra: Water market workshop – jointly organised with Professor Quentin Grafton in the *Centre for Water Economics and Environmental Policy* at ANU, program available at: <http://publicpolicy.anu.edu.au/events/content/more.php?id=6861>
- Choice Modelling Workshop, UniSA, Adelaide, June 2010, jointly organised with CSIRO.
- 2008, 9th AARES Symposium, "Climate, Water and Adaptive Responses", 22-23 May 2008, Adelaide, SA
- AARES 2001 45th Annual Conference, 23-25 January 2001, Adelaide, SA.

iii. *Editorial and other Appointments*

- ARC Laureate Fellowship Selection Advisory Committee in 2022
- Associate Editor *Agricultural Economics*, appointed in April 2021
- Appointed as editorial board member of the *International Review of Environmental and Resource Economics*, from Jan 2021 onwards for three years.
- Appointed as an editorial board member of *Water* (from March 2021 onwards).
- Immediate Past President, *Australasian Agricultural Resource Economics Society* (AARES) 2021.
- President *Australasian Agricultural Resource Economics Society* (AARES) 2020.
- President-elect *Australasian Agricultural Resource Economics Society* (AARES) 2019.
- Appointed as an editorial board member of *Agricultural Science* (since Feb 2013 to 2018).
- Appointed as an editorial board member and Editor of *Water Conservation Science & Engineering* (since June 2015).
- Appointed as an editorial board member of *Water Resources and Economics* (since July 2014 to Jan 2018), and as an associate editor from November 2014 to January 2018.
- Appointed as an editorial board member of *Economics* (since October 2014 to 2018).
- Appointed as an editorial board member of *Australasian Journal of Water Resources* (since Dec 2015) and editor from 2019 onwards.
- Appointed as Associate Editor of the *Australian Journal of Agricultural and Resource Economics* (ERA A) from April 2013.
- Guest editor in 2013-2014 for a special issue on *Sustainable Irrigation for Agricultural Water Management* (ERA A)
- Appointed trustee of Organic Trust Australia – Research & Education (OTARE) since 2015
- Assessor for Australian Research Council (ARC) since 2009
- ERA economics committee member for University of Adelaide in 2017
- HDR Convenor Faculty of Professions (since Jan 2017 to June 2018)

iv. *Peer Reviewer for Journals*

Water Resources Research (ERA A\*); Soil Research; World Development (ERA A); Earth's Future; Water Economics and Policy; American Journal of Agricultural Economics (ERA A\*); Water, Science and Technology; Economic Papers (ABDC B); The Australian Economic Review; Population and Environment (ERA A); Journal of Hydrology (ERA A\*); Regional Environmental Change (ERA A); Global Environmental Change (ABDC A\*); The Rangeland Journal (ERA A); Marine Pollution Bulletin; Marine Policy (ABDC A); Journal of Environmental Psychology (ERA B); Journal of African Studies and Development; Environmental and Resource Economics (ERA A); Journal of the American Water Resources Association (ERA C); Canadian Journal of Agricultural Economics (ERA A); Ecological Economics (ERA A); Environment, Development and Sustainability; Climate Risk Management; Applied Economics (ERA A); Water Alternatives; Society and Natural Resources (ERA A); Food Policy (ERA A); Ocean and Coastal Management



(ERA A); Sustainable Cities and Society; Water Research (ERA A\*); Water Resources and Economics; Journal of Risk Analysis (ERA A); International Journal of Water Resources Development (ERA B); International Food and Agribusiness Management Review; Journal of Agricultural Economics (ERA A); Agricultural Water Management (ERA A); Agricultural Economics (ERA A); Journal of Gambling Studies (ERA B); Land Use Policy (ERA B); Water Policy (ERA B); Journal of Agriculture Science and Technology ; Agenda (ERA C); Rubriq; Weather, Climate and Society (ERA B); Australian Journal of Agricultural and Resource Economics (ERA A); Journal of Environmental Management (ERA A); Journal of Organic Systems; Journal of Sociology (ERA A); Sustainability (ERA C); Applied Geography; Agricultural and Human Values (ERA B); The International Indigenous Policy Journal; Society and Natural Resources (ERA A); Water; Sociologia Ruralis (ERA A); Wageningen Journal of Life Sciences (ERA C); IFMAR; International Gambling Studies (ERA B); Journal of Agricultural Extension and Rural Development; Journal of Agricultural Education and Extension; Environment and Planning E: Nature and Space; Water International.

v. *Awards and Recognition*

<b>Year</b>	<b>Title of award or recognition</b>	<b>Awarding body or institution</b>	<b>What is scholarship or award recognising?</b>
2022	EFMD Excellence in Practice Gold Awards – Ecosystem Development for the UniSA/ANU led Africa irrigation water increasing productivity project	EFMD	Extension impact
2022	ARC Laureate Fellowship Selection Advisory Committee	Australian Research Council	Intellectual Merit
2020	ASSA Fellow	Academy of Social Sciences Australia	Intellectual Merit
2018	ANU's Crawford Leadership Forum	ANU	Intellectual Merit
2018	Selected as a female mentor/coach as part of the Envisage – Academic Navigation for Women program	Ethos Australia	Mentoring ability
2017	Quality of Research Communication Award	AARES	Intellectual Merit
2014	Nominated for 2014 Prime Minister's Prizes for Science Awards	Department of Industry	Intellectual Merit
2014	Best Research Team	UniSA – Business School	Intellectual Merit
2014	Selected to represent ARC Future Fellows at the 2014 announcement	Australian Research Council	Intellectual Merit
2014	Theo Murphy High Flyers Think Tank	Australian Academy of Science	Intellectual Merit
2011	Theo Murphy High Flyers Conference	Australian Academy of Science	Intellectual Merit
2011	Best paper at 2011 Business colloquium	Three South Australian universities	Intellectual Merit
2006	AARES Travel Scholarship	Australian Agricultural & Resource Economics Society (AARES)	Intellectual Merit
2005	Best PhD paper at Environmental Economics Network symposium, ANU	Environmental Economics Network	Intellectual Merit
2003-2006	Anne Hawke Scholarship	University of South Australia	Intellectual Merit

## 8. PhD & MASTERS STUDENTS SUPERVISED

Name	Year conferred/ started	Program type*	Thesis title
Adam Loch*	2012 (conferred)	PhD	Irrigator trade behaviour in southern Murray-Darling Basin water allocation markets
Juliane Haensch**	2017 (conferred)	PhD GFS	Socio-economic aspects of water reallocation in the Murray-Darling Basin
Claire Settre	2018 (conferred)	PhD GFS	Water markets and environmental outcomes
Tim House	2015 (conferred)	Masters Econ	Returns to investing in water markets in Australia
Anna Finizio	2014 (conferred)	PhD GFS	Exploring food consumption patterns in Fiji
Ana Manero Ruiz	2014 (conferred)	PhD (joint with ANU)	Agricultural Innovation Platforms in southern Africa
Sahar Yazd	2019 (conferred)	PhD GFS	Farmer and community mental health and water scarcity
John Kandula	2015 (conferred)	PhD GFS	Social capital in Bangladesh
Simon Ndungu	2015-16 (conferred)	Masters GFAB	Exploring Dairy Exit in Victoria, Australia
Constantin Seidl**	2017 (conferred)	PhD GFS	Financial outcomes and risk in water markets in Australia
Maksuda Mannuf	2017 (conferred)	PhD GFS	Benefits and costs of organic farming in Australia
Fentahun Abebe	2018 (conferred)	PhD GFA	Role of small-scale irrigation in household outcomes
Heng Sun	2017-18 (conferred)	Masters GFS	The current and future use of drones in Australian irrigation
Wenzhu Tang	2017-18 (conferred)	Masters GFS	Investigating parallel trade between Australia and China
James Fuller	2018 (on hold)	PhD GFS	Reflow issues in the Murray-Darling Basin
Nikki Dumbrell	2018 (conferred)	PhD GFS	Investigating social license to operate in Australian farming
Ben Fee	2018 (on hold)	PhD GFS	Water use and irrigation efficiency investment in the Murray-Darling Basin
Trang Nguyen	2019 -2021 ( I gave up supervising when I moved to Economics)	PhD GFS	Food Waste Behaviour in South Australian households
Brahma Adoori	2020 (conferred)	Masters GFS	Alternative fertilizer and pesticide adoption
Mohan Surya Vijayakumar	2020 (conferred)	Masters GFS	Distinguishing the issues and capabilities of the change to Organic Cultivation
Thi Kim Anh Tran	2020 (conferred)	Masters GFS	Water resource in Mekong Delta, how could citrus growers in Mekong Delta use ground water to adapt climate change.
Nageswara Rao Ekambram	2020 (conferred)	Masters GFS	Increasing water use in the agricultural sector in India and Potential Solutions
Louse Capel	2020 (on hold)	PhD GFS	Economic and social consequences of water reallocation in the Murray-Darling Basin
Emily Marriott	2022 (on hold)	PhD Medicine	Greening Initiatives in Orthopaedic Surgery: establishing waste production benchmarks
Shaohui Qiao	2022 (conferred)	Masters Applied Economics	Investigating Australian tourism demand
Yuguo Ma	2022 (conferred)	Honours Economics	Asset values in Murray-Darling Basin water markets
Sijia Liu	2023 (in progress)	PhD Economics	Food waste policy issues in Australia

\* Adam won the Ian Davey award for best UniSA thesis in 2012.

\*\* Received a Dean's commendation and was nominated for a University medal at UofA.

In addition, I have supervised a number of other students over the past six years, although this supervision

is not officially recognised. For example, I have helped supervise two Honours students from the University of Adelaide, one US Fulbright student (Chelsea Lane-Miller), two University of Oxford Masters students (Justin Rhodes and Katherine Dowsley), one Masters from Germany (Angie Marning), one PhD from France (Simon de Bonviller engineering school in Strasbourg (ENGEES)), two interns (Andrew Mackey-University of California, Riverside; Mrnilia Singh-Hiroshimi University), one PHD Spanish exchange (Sara Palomo-Hierro) and one US postdoc (Dustin Garrick).

## 9. CITATION INDEXES (2<sup>nd</sup> May 2023)

h-index	Number	Total citations
Scopus	29	2888
Researchgate Interest score	1986 (higher than 96% of all RG members)	
Google	40	5009
Google i10-index	90	

## 10. POLICY IMPACT AND KNOWLEDGE APPLICATION

My research has made a considerable impact on public policy in Australia and overseas. For example:

- **I was invited to lead the technical report “Water Pricing, Taxes and Markets” for the Global Commission on the Economics of Water in 2022.** This Commission was officially launched in 2023 in New York at the UN’s Water Conference (first ever UN water conference in 47 years).
- **I was invited by MDBA in 2022** to provide advice, analysis and a literature review on issues to do with water recovery in the Murray-Darling Basin. Along with A/Prof Alec Zuo, we are guiding the economic work of the MDBA and trying to ensure rigorous and strongly quantitative evidence.
- **I was invited by ACCC in 2020** to provide advice, analysis and a literature review for the review into water markets in the Murray-Darling Basin. Correspondingly, the consulting report (plus a range of our academic journal articles) were cited numerous times (over 35 times) in the interim report (released 30 June 2020 and available here <https://www.accc.gov.au/focus-areas/inquiries-ongoing/murray-darling-basin-water-markets-inquiry>), with many of its recommendations put forward by the ACCC in their interim and final reports.
- **I was invited to be part of the Academy of Science Fish Kill Report in 2018:** As such, I helped lead the social science part of this study, and presented the report in Parliament.
- **I was part of the Murray-Darling Declaration:** I helped launch the MDB Declaration from the University of Adelaide which was a declaration led by Prof Quentin Grafton of the ANU and signed by 12 leading experts on the Murray-Darling Basin on 5th February 2018 calling for fundamental changes to current water policy in the Basin, and offering solutions for a way forward. The Declaration received significant media attention, and led to the development of a water policy paper that was consequently published in *Science* on the 24th August 2018.
- **Sworn Testimony at the SA Royal Murray-Darling Basin Commission:** I led a submission from four other leading national water economic professors on the lack of socio-economic evidence of harm from water recovery in the Basin, and consequently was consulted three times and went and gave sworn testimony at the Commission on the 3<sup>rd</sup> July 2018. Our submission has consequently been referred to numerous times by the Commission.
- My papers “**Investigating the delayed consequences of selling water entitlements in the Murray-Darling Basin**”, *Agricultural Water Management* (2013) and “**The impact of water ownership and water market trade strategy on Australian irrigators’ farm profitability**”, *Agricultural Systems* (2014) has been cited widely and used as evidence on the impact of water trade on irrigators farm viability and has been cited in numerous senate enquiries on the Murray-Darling Basin Plan.

- My project “**Surveying irrigators’ views on the review of water charge rules in the southern MDB” for the ACCC** was used by the ACCC to make water charging recommendations for MDB water irrigation districts.
- **Consultancy for Department of Environment on the mid-term review of the *Restoring the Balance* program (2012)**: This work led to DoE having the support and research to argue for a continuation of the RTB program. It also led to them changing the way they conduct tenders and the way they buy water (at the time).
- “***Selling the Farm Silver: understanding water sales to the Australian Government***” (2012): This work has been widely used by the MDBA in supporting the other economic modelling that has been done of the fact that buying water will not have a large impact on regional income and employment, and hence was used in support of the proposed Murray-Darling Basin plan. It has also been a widely requested paper and Sarah has presented its findings internationally and nationally, and in South Australian state parliament.
- ***Contribution to the Evaluation of the National Water Initiative (2011)***: This work was used by the National Water Commission to evaluate some of the impacts of government policies that have been put in place in water markets.
- ***Gambling and Crime studies (2010)***: This research was used by MP Wilkie and Senator Xenophon to argue for increased pokie restrictions. It was a front-page story (and an editorial) in *The Age* (22&23 July 2010).
- ***New Zealand Fishing Recreational Values*** (2001): This paper quantified non-market values attached to fishing, and has been used to help establish marine reserves in New Zealand.
- ***Transboundary Water Benefits (2013-2014)***: This work on transboundary water policy benefits has been used by the United Nations to develop guidelines for countries to apply.

## 11. REFERENCES

Professor Kurt Schwabe, University of California, Riverside, [schwabe@ucr.edu](mailto:schwabe@ucr.edu)

Professor Quentin Grafton, ANU, [quentin.grafton@anu.edu.au](mailto:quentin.grafton@anu.edu.au)