

DAVID JAMES KACZAN

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FIELDS OF SPECIALIZATION:

Environmental and resource economics; development economics; forest conservation; fisheries; environmental and public policy outreach

EMPLOYMENT:

2017- Environmental Economist (Young Professional), Environment and Natural Resources Global Practice, World Bank Group, Washington, D.C.

OTHER APPOINTMENTS:

2017- Adjunct Senior Research Fellow, School of Commerce, University of South Australia, S.A.

EDUCATION:

2017 Ph.D. Environmental and Resource Economics

Duke University, USA

Dissertation: *Roads, Rights, and Rewards: Three Program Evaluations in Environmental and Resource Economics* (Committee: Alexander Pfaff, Brian Murray, Subhrendu Pattanayak, Elizabeth Shapiro-Garza, Martin Smith, and Ashwini Chhatre)

2016 M.A. Economics

Duke University, USA

2011 M.Sc. Agricultural and Resource Economics

University of Alberta, Canada

Dissertation: *Designing an Incentive Program to Reduce On-farm Deforestation in the East Usambara Mountains, Tanzania* (Advisers: Brent Swallow and W.L. (Vic) Adamowicz)

2008 B.A. Economics, and B.Sc. Ecology, Environmental Geosciences

University of Adelaide, Australia

PUBLICATIONS:

Peer-Reviewed Journal Articles

Zeff, H, **Kaczan, D**, Characklis, G, Jeuland, M, and Murray, B (2018) 'Benefits, costs and distributional impacts of a groundwater trading program' *forthcoming, Journal of Water Resources Planning and Management*.

Kaczan, D, Pfaff, A, Rodriguez, L, and Shapiro-Garza, E (2017) 'Increasing the impact of collective payments for ecosystem services', *Journal of Environmental Economics and Management* (86): 48-67.

Birkenbach, A, **Kaczan, D** and Smith, M (co-lead authorship) (2017) 'Catch shares slow the race to fish', *Nature* (544): 223-226.

Kaczan, D, Swallow, B and Adamowicz, W (2016) 'Forest conservation and motivational crowding:

experimental evidence from Tanzania', *forthcoming, Ecological Economics*.

Ward, J and **Kaczan, D** (2014) 'Challenging hydrological panaceas: water poverty governance accounting for spatial scale in the Niger River Basin', *Journal of Hydrology* (519): 2501-14.

Kaczan, D, Swallow, B, and Adamowicz, W (2013) 'Designing a payment for ecosystem services (PES) program to reduce deforestation in Tanzania: an assessment of payment approaches', *Ecological Economics* (95): 20-30.

Kaczan, D and Ward, J (2011) 'Water statistics and poverty statistics in Africa: do they correlate at national scales?' *Water International*, 36(3): 283-94.

Kemp-Benedict, E, Cook, S, Summer, A, Vosti, S, Lemoalle, J, Giordano, M, Ward, J, and **Kaczan, D** (2011) 'Connections between poverty, water and agriculture: evidence from 10 river basins', *Water International*, 36(1): 125-14.

Ogilvie, A, Mahé, G, Ward, J, Serpantié, G, Lemoalle, J, Morand, P, Barbier, B, Tamsir Diop, A, Caron, A, Namarra, R, **Kaczan, D**, Lukasiewicz, A, Paturel, J, Liénou, G, and Clanet, J (2010), 'Water, agriculture and poverty in the Niger Basin', *Water International*, 35(5): 594-622.

Connor, J, Schwabe, K, King, **D, Kaczan, D**, and Kirby, M (2009) "Impacts of climate change on lower Murray irrigation," *Australian Journal of Agricultural and Resource Economics*, 53(3): 437-56.

Book Chapters

Connor, J and **Kaczan, D** (2013) 'Principles for Economically Efficient and Environmentally Sustainable Water Markets: The Australian Experience', in Schwabe, K, Albiac, J, Connor, J, Hassan, R and Meza-Gonzalez, L (Eds.) 'Drought in Arid and Semi-arid Regions: A Multi-disciplinary and Cross-Country Perspective', Springer Publishing, Dordrecht.

Ward, J, **Kaczan, D**, Olgivie, A and Lukasiewicz, A (2013) 'Challenging Hydrological Panaceas: Evidence from the Niger River Basin', in Young, M and Essau, C (Eds.) 'Investing in Water for a Green Economy', Routledge, Oxford.

Published Reports

Harrison, Z, Characklis, G, Jeuland, M, **Kaczan, D**, Murray, B, and Locklier, K (2016) 'Benefits, Costs, and Distributional Impacts of a Groundwater Trading Program in the Diamond Valley, Nevada', Nicholas Institute for Environmental Policy Solutions, Duke University, Durham, NC.

Kaczan, D, Arslan, A and Lipper, L (2013) 'Climate-Smart Agriculture? A review of current practice of agroforestry and conservation agriculture in Malawi and Zambia' ESA Working Paper No. 13-07, Food and Agriculture Organization of the United Nations, Rome.

Kaczan, D, Qureshi, E and Connor, J (2011) 'A Summary of Water Trade and Price Data for the Southern Murray-Darling Basin', CSIRO, Canberra.

Ward, J, **Kaczan, D**, Lukaseiwicz, A (2010) 'A Water Poverty Analysis of the Niger Basin, West Africa', Challenge Program on Water and Food, Colombo, Sri Lanka.

Ranjan, R, Tapsuwan, S, Elmahdi, A and **Kaczan, D** (2009) 'Analysis of Land and Water Use Scenarios for the Gngangara Groundwater System', CSIRO, Perth.

Kaczan, D and Tuhankuku, D (2008) 'Tourism in the Solomon Islands: A survey of community and operator attitudes', The Solomon Island Chamber of Commerce and Industry, Honiara.

Connor, J, Elmahdi, A, Doble, R, Stenson, M, Walker, G, Jolly, I, Ferris, M, Morrison, J, Rowan, T, **Kaczan, D**, King, D, Pickett, T and Petit, C (2007) 'Lower Murray Landscape Futures', CSIRO, Adelaide.

Conference Presentations

Kaczan, D (2016) 'Can roads contribute to forest transitions?', Forests and Livelihoods: Assessment, Research, and Engagement, Edinburgh, Dec 2-5.

Kaczan, D (2016) 'Can roads contribute to forest transitions?', University of Colorado Environmental and Resource Economics Workshop, Vail, Colorado, Sept 9-10.

Kaczan, D, Pfaff, A, Rodriguez, L and Shapiro, E (2016) 'Increasing the impact of collective incentives: Conditionality on additionality within PES in Mexico', Association of Environmental and Resource Economists, Breckenridge, Colorado, June 9-11.

Kaczan, D on behalf of authors Rodriguez, L Pfaff, A, and Shapiro, E (2015) 'Creating local eco-payments institutions in Mexico: A framed field experiment on sanctions and coordination', Association of Environmental and Resource Economists, San Diego, California, June 6-8.

Birkenbach, A, **Kaczan, D**, and Smith, M (2015) 'Do catch-shares increase ex-vessel fish prices?' North American Association of Fisheries Economists, Ketchikan, Alaska, May 20-22.

Kaczan, D, Swallow, B and Adamowicz, W (2011) 'Preventing deforestation in Tanzania: Farmer preferences for incentive scheme design', Applied and Agricultural Economics Association, Pittsburgh, July 24-26.

Kaczan, D, Swallow, B and Adamowicz, W (2011) 'Payment for Ecosystem Services (PES) scheme design in rural Tanzania: Farmers' preferences for enforcement and payment options', Canadian Agricultural Economics Association, Banff, July 24-26.

Kaczan, D, Hatton MacDonald, D, Morrison, M and Hattfield-Dodds, S (2008) 'How much will you pay to slow climate change? An exploration of demographic determinants of willingness to pay', Australian Agricultural and Resource Economics Society, Canberra, Feb 5-8.

Other Publications

Kaczan, D, Swallow, B, Adamowicz, W and Vihemäki, H (2011) 'Designing an incentive program to reduce on-farm deforestation in the East Usambara Mountains, Tanzania', ICRAF (World Agroforestry Centre) Research Brief.

Kaczan, D and Connor, J (2007) 'Can irrigation management reduce salinity in the River Murray?' *Irrigation Australia*, 22(3), p. 31-32.

A variety of short environmental policy articles for *Sense and Sustainability (Non-Resident Fellow, 2015-16)*.

MANUSCRIPTS IN SUBMISSION OR PREPARATION:

Kaczan, D, 'Can roads contribute to forest transitions?' (*submitted*).

Kaczan, D, Birkenbach, A, and Smith, M, 'Revenue Margins in a Cap and Trade System: Evidence from U.S. Fisheries' (*in preparation*).

Kaczan, D and Orgill, J, 'The impact of climate change on migration: A synthesis of empirical insights' (*in preparation*).

IPBES (contributing author) 'Global assessment report of the Intergovernmental Platform on Biodiversity and Ecosystem Services' (due 2019) (*in preparation*).

OTHER PROFESSIONAL EXPERIENCE:

- 2007-9** Research Projects Officer, Policy and Economic Research Unit, Commonwealth Scientific and Industrial Research Organization (CSIRO), Australia
- 2005-6** Research Assistant, Policy and Economic Research Unit, Commonwealth Scientific and Industrial Research Organization (CSIRO), Australia

TEACHING:

- 2011** Instructor, Natural Resource Economics (AREC 365 fall), University of Alberta (91 students)
- 2012, 15** Teaching Assistant, Social Science Surveys (ENV 557 fall), for Randall Kramer, Duke University
- 2012, 14** Teaching Assistant, Energy Economics (ENV 635 spring), for Richard Newell, Duke University

INTERNSHIPS:

- 2012** Food and Agriculture Organization of the United Nations (FAO) (April-July)
- 2008** Solomon Islands Chamber of Commerce and Industry (June-July)

FELLOWSHIPS AND GRANTS:

- 2016** Duke Graduate School International Dissertation Research Travel Award (USD 2500)
- 2016** Duke Graduate School Competitive Summer Research Fellowship (USD 5500)
- 2015** Duke University Environmental Economics Scholar's (DEEDS) Fellowship (USD 15,000)
- 2015** Duke Graduate School International Travel Grant (USD 2000)
- 2015** Center for Latin American and Caribbean Studies Graduate Research Award (USD 1500)
- 2015** Duke University Economics Department Fieldwork Grant (USD 2000)
- 2015** National Sea Grant Office (NOAA), funding for 'Revenue Impacts of Policy Reform: A Comparative Analysis of U.S. Catch Share Fisheries, with Anna Birkenbach and (PI) Martin D. Smith (USD 56,546)
- 2014** National Sea Grant Office (NOAA), funding for 'Mechanisms and the Effects of Catch Shares on Fishing Revenues in U.S. Fisheries', with Anna Birkenbach and (PI) Martin D. Smith (USD 56,038)
- 2013** Duke University Environmental Economics Scholar's (DEEDS) Fellowship (USD 36,000)
- 2010** World Agroforestry Center (ICRAF) Degree Fellowship (USD 8000)
- 2009** The University of Alberta Masters Scholarship (CAD 39,000)

AWARDS:

- 2016** Dean's Award for Outstanding Graduate Student Manuscript (with Anna Birkenbach and Marty Smith), Nicholas School of Environment, Duke University (USD 3000)
- 2016** Best Student Paper (with Anna Birkenbach), International Institute of Fisheries Economics and Trade (IIFET) (USD 1000)
- 2012** Outstanding Master's Thesis Award, Agricultural and Applied Economics Association (AAEA)

- 2012** Outstanding Master's Thesis Award, Canadian Agricultural Economics Association (CAES)
- 2011** Luther G. Tweeten Scholarship, Agricultural and Applied Economics Association (AAEA) (USD 2000)
- 2010** Alberta Agricultural Economics Association Masters Scholarship (CAD 900)
- 2010** Travis Manning Book Prize, Department of Rural Economy, University of Alberta
- 2008** The John Little Scholarship, CSIRO Staff Association (AUD 750)
- 2008** Top Graduate, Faculty of Humanities and Social Sciences, the University of Adelaide
- 2005** The Environment Medal, the University of Adelaide
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SERVICE AND COMMUNITY:

- 2015-** Non-resident Fellow, Sense and Sustainability (online environment publication)
- 2015-16** Co-President, Nicholas PhD Student Advocacy Council
- 2014-15** Representative, Duke University Graduate and Professional Students Council.
- 2009-12** Co-host and co-producer, *Terra Informa (Radio show)*, Canada's independent environmental news, produced at CJSR Edmonton and syndicated on 22 stations nationally
- Awarded three NCRA (National Campus and Community Radio Association) awards for Most Outstanding Documentary (twice) and Most Outstanding Current Affairs/Magazine Show.*
- 2010-11** Vice President, Rural Economy Graduate Students Association, University of Alberta
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JOURNAL REFEREE SERVICE:

Proceedings of the National Academy of Sciences, Environment and Development Economics, Journal of Environmental Management, Ecological Economics, Forests, Journal of Agricultural Extension and Rural Development, World Development Perspectives, Water Policy.

TECHNICAL AND LANGUAGE SKILLS:

- Software: Stata, ArcGIS, Python, MATLAB, NLogit, Microsoft Office
- Certifications: Emerging Leaders Institute, Duke University (2016)
- Languages: English (native), Spanish (beginner)
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REFEREES:

Alexander Pfaff

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Darla Hatton MacDonald

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