

# DAVID JAMES KACZAN

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## FIELDS OF SPECIALIZATION:

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

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## EMPLOYMENT:

**2017-** Economist (Young Professional), Environment, Natural Resources, and the Blue Economy Global Practice, The World Bank, Washington, D.C.

## OTHER APPOINTMENTS:

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

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## 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

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## WORLD BANK PROJECT EXPERIENCE:

*Financing project preparation and implementation support:*

**2019- Indonesia: Oceans for Prosperity Project.** A USD 125 mil. IBRD investment to improve fisheries management, coastal livelihoods, marine spatial planning, and marine debris control, across central and eastern Indonesia.

*Role:* Project economist, lead for initial scoping mission, lead for overall analytical work, team member for project concept development.

**2019- Indonesia: Coral Reef Rehabilitation and Management Project – Coral Triangle Initiative.** A USD 53 mil. IBRD and GEF investment to strengthen Indonesia's capacity for coastal ecosystems monitoring, research, and improved marine park management.

*Role:* co-task team lead (TTL) (trainee designation), project economist, lead on project restructuring, implementation support.

**2018- Bangladesh: Sustainable Forests and Livelihoods Project (P161996).** A USD 175 mil. IDA investment to reforest 70,000 ha of degraded forestland and mangroves, and strengthen collaborative forest management institutions in Bangladesh.

*Role:* Project economist and team member for project preparation and appraisal.

**2018- Pakistan: Aquaculture for Economic Growth Project (P166887).** A USD 150 mil. IBRD investment to increase sustainable commercial aquaculture and strengthen regulatory institutions in Sindh province.

*Role:* Team member for project concept development.

*Analytical, advisory, and project evaluation work:*

**2019- China: Evaluating and Realizing the Value of Water (ASA) (P171215).** Analytical and advisory work to promote holistic water management and consideration of multiple-dimensions of water's social, environmental, and economic value in public policy.

*Role:* co-Task Team Lead.

**2019- China: Hunan Forest Restoration and Development Project (IPF) (P125021).** A USD 80 mil. IBRD investment (IPF) to reforest damaged forestlands and strengthen management institutions in Hunan province.

*Role:* Implementation Completion Review (ICR) report author.

**2018- Nepal: Environmental Sector Diagnostic (ASA) (P164550).** Analytical and advisory work to systematically assess Nepal's environmental challenges and opportunities for improved natural resources management.

*Role:* Lead author of cost of pollution study; co-author on overall report.

**2017- Pakistan: Revitalizing Pakistan's Fisheries (ASA) (P158602).** Analytical and advisory work to systematically assess challenges and opportunities for Pakistan's fisheries sector. Led directly to a USD 150 mil. IPF (in preparation), a first-time Bank engagement in this sector in Pakistan.

*Role:* Lead author of overall report.

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## **PUBLICATIONS:**

### *Peer-Reviewed Journal Articles*

**Kaczan, D** and Patil, P (2020) 'Fisheries' potential contribution to development goals: Evidence from Pakistan' *forthcoming, Journal of Environment and Development*.

**Kaczan, D** (2019) 'Can roads contribute to forest transitions?' *conditionally accepted, World Development*.

**Kaczan, D** and Orgill, J, (2019) 'The impact of climate change on migration: A synthesis of empirical insights' *Climatic Change*.

Zeff, H, **Kaczan, D**, Characklis, G, Jeuland, M, and Murray, B (2019) 'Benefits, costs and distributional impacts of a groundwater trading program' *Journal of Water Resources Planning and Management*, 145(6).

**Kaczan, D**, Swallow, B and Adamowicz, W (2019) 'Forest conservation and motivational crowding: experimental evidence from Tanzania', *Ecological Economics* (156): 444-53

**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): 223-6.

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.

#### *Select Published Reports and Other Publications*

World Bank (2019) 'Indonesia Economic Quarterly: Oceans of Opportunity', June edition (lead author of Part B)

Patil, P., **Kaczan, D.**, Roberts, J., Jabeen, R., Roberts, B., Barbosa, J., and Zuberi, S. (2018). 'Revitalizing Pakistan's Fisheries: Options for Sustainable Development', The World Bank, Washington, D.C.

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** 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.

**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)*.

*Conference or Invited Presentations*

- 2018** Resources for the Future, Washington, D.C. (invited seminar)  
Boston University, Global Development Policy Center, Boston, M.A (invited workshop pres.)
- 2017** University of Tasmania, School of Business and Economics, Hobart, Australia (invited seminar)  
University of South Australia, School of Commerce, Adelaide, Australia (invited seminar)  
Indian School of Business, Hyderabad, India (invited seminar)  
World Bank, Green Growth Sustainable Infrastructure Knowledge Platform (conference pres.)
- 2016** Forests and Livelihoods: Assessment, Research, and Engagement, Edinburgh (conference pres.)  
University of Colorado Environmental and Resource Economics Workshop, Vail, Colorado (conference pres.)
- 2016** Assoc. of Environmental and Resource Economists, Breckenridge, Colorado (conference pres.)
- 2015** Assoc. of Environmental and Resource Economists, San Diego, California (conference pres.)  
North American Association of Fisheries Economists, Ketchikan, Alaska (conference pres.)
- 2011** Applied and Agricultural Economics Assoc., Pittsburgh (conference pres.)  
Canadian Agricultural Economics Assoc., Banff (conference pres.)
- 2008** Australian Agricultural and Resource Economics Society, Canberra (conference pres.)

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**MANUSCRIPTS IN SUBMISSION OR PREPARATION:**

**Kaczan, D**, Birkenbach, A, and Smith, M, 'Revenue margins in a cap and trade system: Evidence from U.S. fisheries' *revise and resubmit*, *Journal of the Association of Environmental and Resource Economists*.

**Kaczan, D**, Pfaff, A, and Sills, E 'Blending Private Processes with Public Perspectives to Govern Trade within Cross-Jurisdiction Markets', *in preparation*.

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**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), University of Alberta (91 students)
- 2012, 15** Teaching Assistant, Social Science Surveys (ENV 557), Duke University
- 2012, 14** Teaching Assistant, Energy Economics (ENV 635), 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)

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**FELLOWSHIPS AND GRANTS:**

- 2016** Duke Graduate School International Dissertation Research Travel Award (USD 2500)  
Duke Graduate School Competitive Summer Research Fellowship (USD 5500)
- 2015** Duke University Environmental Economics Scholar's (DEEDS) Fellowship (USD 15,000)  
Duke Graduate School International Travel Grant (USD 2000)  
Center for Latin American and Caribbean Studies Graduate Research Award (USD 1500)  
Duke University Economics Department Fieldwork Grant (USD 2000)  
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:**

- 2017** 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)  
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)  
Travis Manning Book Prize, Department of Rural Economy, University of Alberta
- 2008** The John Little Scholarship, CSIRO Staff Association (AUD 750)  
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, Journal of Environmental Economics and Management, Conservation Biology, Environment and Development Economics, Journal of Environmental Management, Ecological Economics, Environmental Economics and Policy, Forests, Journal of Agricultural Extension and Rural Development, World Development Perspectives, Water Policy.

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**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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