

# DAVID JAMES KACZAN

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World Bank Indonesia, Level 12 Stock Exchange Building, Jl. Jenderal Sudirman, Jakarta, 12190

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## FIELDS OF SPECIALIZATION:

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

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## EMPLOYMENT:

- 2022-** Senior Economist, The World Bank, Jakarta.
- 2019-22** Economist, The World Bank, Washington, D.C.
- 2017-19** Young Professional, The World Bank, Washington, D.C.

## OTHER APPOINTMENTS:

- 2017-** Adjunct Senior Research Fellow, School of Business, 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*
- 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*
- 2008** **B.A. Economics, and B.Sc. Ecology, Environmental Geosciences**  
University of Adelaide, Australia

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## PROJECT EXPERIENCE:

### Operations

- 2020-** **China: Yangtze River Protection and Ecological Restoration Program.** A US\$ 400 mil. results-based-financing program (PforR) for ecological protection, water pollution management, and green development in the Yangtze River Basin.  
*Role:* co-team lead for all aspects of project preparation including technical design, environmental and social standards, and client engagement.  
*Recipient of an FY22 Vice President's Award (East Asia Pacific)*

- 2019-21 Indonesia: Coral Reef Rehabilitation and Management Program.** A US\$ 53 mil. investment in coastal ecosystems monitoring, research capacity, and management of marine protected areas.  
*Role:* co-team lead for all aspects of project implementation support, including client engagement, mission lead, and project restructuring.
- 2019-21 Indonesia: Oceans for Prosperity Project.** A proposed US\$ 200 mil. investment to protect coastal ecosystems, improve fisheries management, and support livelihoods.  
*Role:* Project economist and team member contributing to technical design and client engagement.
- 2018 Bangladesh: Sustainable Forests and Livelihoods Project.** A US\$ 175 mil. investment to reforest 70,000 ha of degraded forestland and mangroves and strengthen collaborative forest management.  
*Role:* Project economist and team member contributing to technical design, client engagement, and appraisal.
- 2018 Pakistan: Aquaculture for Economic Growth Project.** A US\$ 150 mil. investment to increase sustainable commercial aquaculture and strengthen regulatory institutions in Sindh province (discontinued).  
*Role:* Team member for project identification and concept development.

*Select advisory and analytical work*

- 2020-22 Green China Research Flagship.** A flagship World Bank research program to inform overall directions, priorities, and policies to accelerate China's transition to a low carbon, resource efficient, and sustainable economy.  
*Role:* co-team lead for all aspects of activity implementation, including concept development, client engagement, and management of research activities across an interdisciplinary China country team.
- 2019-21 Oceans for Prosperity: Reforms for a Blue Economy in Indonesia.** A flagship report on the sustainable development of Indonesia's oceans. The report underpins an operation of the same name (above) and was launched in March 2021 by the World Bank Managing Director for Policy and Partnerships and the Indonesian Minister for Marine Affairs and Investments.  
*Role:* Lead author and co-team lead for all aspects of activity implementation.
- 2019- Indonesia Sustainable Oceans Program.** A program of research and technical advisory to support sustainable management of Indonesia's oceans and fisheries.  
*Role:* Team-lead on multiple research themes including analysis on fisheries reform, impact of climate change on fisheries, and private sector financing for sustainable fisheries.  
*Recipient of an FY22 Vice President's Award (East Asia Pacific)*
- 2019-22 China: Evaluating and Realizing the Value of Water.** Research program to promote improved water management via consideration of water's social, environmental, and economic values.  
*Role:* lead author and co-team lead for all aspects of activity implementation.
- 2018-19 Nepal: Environmental Sector Diagnostic.** Systematic assessment of Nepal's environmental challenges and opportunities for improved environmental and resource management.  
*Role:* lead author and researcher investigating the costs of environmental degradation.
- 2017-18 Pakistan: Revitalizing Pakistan's Fisheries.** Analytical work to systematically assess challenges and opportunities for Pakistan's fisheries sector. Led directly to a US\$ 150 mil. investment request, a first-time Bank engagement in this sector in Pakistan.  
*Role:* co-lead author

*Implementation Completion Reviews*

- 2019**      **China: Hunan Forest Restoration and Development Project.** A US\$ 80 mil. investment to reforest damaged forestlands and strengthen management institutions in Hunan province.  
*Role:* Lead author (evaluation report).
- 2020**      **China: Ningxia Desertification Control and Ecological Protection Project.** A US\$ 80 mil. investment to control desertification and degradation and protect key farmland and infrastructure in strategically selected locations in Ningxia Hui Autonomous Region.  
*Role:* Lead author (evaluation 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', *Journal of Environment and Development*, 29(3): 275–305.
- Kaczan, D** (2020) 'Can roads contribute to forest transitions?' *World Development*, 129: 104898.
- 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.

*Select World Bank Publications (lead or co-lead author)*

World Bank and Development Research Center of the State Council (2021). "Clear Waters and Lush Mountains: The Value of Water in the Construction of China's Ecological Civilization." World Bank Group, Washington, D.C. (*forthcoming*)

World Bank (2022). "Eco-compensation in China's evolving environmental management regime: trends and prospects." World Bank Group, Washington, D.C.

World Bank (2021). "Oceans for Prosperity: Reforms for a Blue Economy in Indonesia." World Bank Group, Washington, D.C.

World Bank (2021). "Revitalizing Pakistan's Fisheries: Options for Sustainable Development." World Bank Group, Washington, D.C.

*Select Speaking Events (past four years)*

**2021** World Bank Youth Summit (invited address)

World Bank, Young Climate Innovators Program (invited address)

University of Sydney, School of Economics (invited seminar)

**2020** Friendship Ambassadors Foundation 25<sup>th</sup> Annual Youth Assembly, New York, N.Y. (invited address)

Annual Conference of Environmental Politics and Governance (conference pres.)

**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.)

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**MANUSCRIPTS IN SUBMISSION OR PREPARATION:**

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

**Kaczan, D**, Pfaff, A, and Sills, 'Environmental Governance of International Supply Chains Requires Public-Private Combinations', *in preparation*.

Vincent, J and **Kaczan, D** 'Review of global costs of reforestation and afforestation for climate change mitigation', *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

**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

Duke Graduate School Competitive Summer Research Fellowship

**2015** Duke University Environmental Economics Scholar's (DEEDS) Fellowship

Duke Graduate School International Travel Grant

Center for Latin American and Caribbean Studies Graduate Research Award

Duke University Economics Department Fieldwork Grant

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

**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

**2013** Duke University Environmental Economics Scholar's Fellowship

**2010** World Agroforestry Center Degree Fellowship

**2009** The University of Alberta Masters Scholarship

**AWARDS:**

**2022** Vice Presidential (VPU) Award, East Asia Pacific, for Preparation of the Yangtze River Protection and Ecological Restoration Program (jointly with team).

**2021** Vice Presidential (VPU) Award, East Asia Pacific, for Implementation of the Indonesia Sustainable Oceans Program (jointly with team).

**2017** Dean's Award for Outstanding Graduate Student Manuscript (with Anna Birkenbach and Marty Smith), Nicholas School of Environment, Duke University

**2016** Best Student Paper (with Anna Birkenbach), International Institute of Fisheries Economics and Trade (IIFET)

**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)
- 2010** Alberta Agricultural Economics Association Masters Scholarship
- Travis Manning Book Prize, Department of Rural Economy, University of Alberta
- 2008** The John Little Scholarship, CSIRO Staff Association
- 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:**

- 2015-17** 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, Environmental and Resource Economics, 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, Forests.

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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)