DAVID ZETLAND

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CONTACT INFORMATION

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CAREER SUMMARY

In 2002, I started my PhD in development economics before moving to environmental and natural resource economics and exploring market and government failures with institutional and experimental methods. Since graduating in 2008, I've spent most of my time discussing water policy with experts and the public via blog posts, talks and my books. I've also been active as an academic (teaching, writing, reviewing) and consultant (private, non-profit and government clients). I published *Living with Water Scarcity* in April 2014 and started working as an assistant professor at Leiden University College in August 2014.

ACADEMIC EMPLOYMENT

Aug 2014– Leiden University College (Den Haag). As an Assistant Professor, I tutored students, advised on capstone theses, and taught Principles of Economics, Microeconomics (x3), Common Pool Resources (x2), Growth & Development, Environmental Economics, Global Challenges:Prosperity (x2), and the World of Entrepreneurs. Dutch University Teaching Qualification (Basis Kwalificatie Onderwijs) achieved in Feb 2016.

Spring 2014 Simon Fraser University (Vancouver). As an Instructor, I taught Political Economy of Natural Resources in North America, Asia and Oceania (ECN482; 14 students; 36 hours of lecture/seminar) and Economics of Natural Resources (ECN362; 80 students; 36 hours of lectures). Here are materials and recordings for both classes as well as videos of ECN362 lectures (averaging 200 views each)

12/12–2/13 Wageningen University. As an Instructor, I co-taught Environmental Economics and Policy (ENR21306; 30 students; 9 hours of lectures) and Environmental Economics in Practice (ENR21806; 30 students; 3 hours of lectures).

Jul 2011	UNESCO-IHE (Delft). As an Instructor, I taught the Economics module in the "Watershed and River Basin Management course" (65 students; 8 hours of lecture videos).
1/11–6/13	Wageningen University. As a Senior Water Economist, I contributed to an EU-funded FP7 project, "Evaluating Economic Policy Instruments for Sustainable Water Management in Europe."
Aug 2010	Property and Environment Research Center (Bozeman), As a Simon Fellow, I worked on *The End of Abundance*.
Fall 2009	UC Berkeley. As an Instructor, I taught Environmental Economics and Policy (EEP100; 90 students; 42 hours of lectures). Here are materials, recordings and videos of lectures (subtitled in 50 languages; averaging 15,000 views each).
8/08–7/10	UC Berkeley (Agricultural & Resource Economics). As an S.v. Ciriacy-Wantrup Postdoctoral Fellowship in Natural Resource Economics and Political Economy, I wrote for many outlets (with occasional input from Michael Hanemann).
5–6/2008	Mercatus Center (Arlington). As a Visiting Fellow, I worked on various regulatory questions (with occasional input from Richard Williams and Karol Boudreaux).
8/03–4/08	UC Davis (Agricultural & Resource Economics). As a graduate student, I worked as a Research Assistant for Richard Howitt (6 quarters) and Teaching Assistant for classes in Development Economics (3 qtrs), Intermediate Microeconomics (3 qtrs) and Capital Budgeting (1 qtr).

CONSULTING, ADVISING AND SUPERVISING

Consultant	Akzo-Nobel (water quality), California American Water (demand and metering in Monterey), Copenhagen Consensus Center (water in LDCs), Energy Points (water-energy), Energy Regulators Regional Association (water regulation training x2), Flexible Solutions International (adopting water saving technology), Foreign Service Institute (US Dept State, on water-allocation in Pakistan), Global Water Intelligence (global drinking water prices), International Centre for Trade and Sustainable Development (water and trade policy), ICLEI–Local Governments for Sustainability (water pricing for bureaucracy and users), Institute for the Future (x2, on global trends), JP Morgan (on water economics), KAPSARC (energy-water), L.E.K. Consulting (bulk water in Florida), Monitor Consulting (water in middle east), RMC Water and Environment (regional supply and demand), Scott River Water Trust (environmental and irrigation water), Surfrider Foundation (desalination vs conservation), UNDP (Water and Sanitation in Kazakhstan), US Army Corps of Engineers (environmental flows), Vivid Economics (water markets in UK), Waterlution (Water Innovation Lab), and World Bank (utility performance in Ukraine)
Advisor	Aquiva Foundation (drinking water in LDCs) and gThrive Inc. (irrigation technology). Past: Aquacue Inc. (smart meters; purchased), Future of Food Journal on Food, Agriculture and Society (board of advisers; resigned due to their ethical misconduct), and Great Lakes Virtual Water Project Advisory Committee (transboundary water; term ended)

Supervisor	LUC capstones: Adrienne Hill-Strathy, Annerieke Sleurink (2015–16). Felix Burkart, Diederik van den Burger, Rob van Haaften, Anne Claire Joosten and Richard Kleinjans (2014–2015). Past: Sander van der Heijden (BSc capstone, on utility benchmarking), Mike McCullough (BSc thesis, on interstate allocation in India) and Marianne Schuerhoff (MSc thesis, on Dutch groundwater taxes)

EDUCATIONAL HISTORY

Apr 2008	Ph.D. (Agricultural and Resource Economics), University of California, Davis: Development, Environment & Natural Resources, and Industrial Organization (3.65 GPA) Dissertation: *Conflict and Cooperation within an Organization: A Case Study of the Metropolitan Water District of Southern California* under the guidance of Richard J. Sexton (chair), Stephen R. Boucher, Richard E. Howitt and Stephan Kroll
Dec 2003	M.S. (Agricultural and Resource Economics), University of California, Davis
Mar 1991	B.A. (Economics and Business), University of California, Los Angeles: *Phi Beta Kappa*, *Magna cum Laude* (3.83 GPA), Departmental Honors, and Honors College

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JOURNAL ARTICLES

2016	"The struggle for residential water metering in England and Wales" in *Water Alternatives* 9(1):120-138
2013	"The life and death of the Dutch groundwater tax" (with Marianne Schuerhoff and Hans-Peter Weikard) in *Water Policy* 15(6): 1064–1077
2013	"All-in-auctions for water" in *Journal of Environmental Management* 115: 78–86
2012	"A global survey of urban water tariffs: are they sustainable, efficient and fair?" (with Christopher Gasson) in *International Journal of Water Resources Development* (29)1: 1–17
2011	"Water markets in Europe" in *Water Resources IMPACT* 13(5): 15–18
2011	"Intra-organizational conflict: Origin and cost" in *The Economics of Peace and Security Journal* 6(1): 12–21
2011	"How markets can end persistent intraorganizational conflict" in *The Economics of Peace and Security Journal* 6(1): 22–27
2010	"Save the poor, shoot some bankers" in *Public Choice* 145(3–4): 331–337
2010	"An auction market for journal articles" (with Jens Prüfer) in *Public Choice* 145(3–4): 379–403
2010	"The real estate market index" in *The Real Estate Finance Journal* Fall 2010: 77–91
2010	"Teaching economic principles: algebra, graph or both?" (with Carlo Russo and Navin Yavapolkul) in *The American Economist* 55(1): 123–131

2010 "Water reallocation in California: A broken hub will not wheel" in *Journal of Contemporary Water Research & Education* 144: 18–28

2009 "The end of abundance: How water bureaucrats created and destroyed the southern California oasis" in *Water Alternatives* 2(3): 350–369

Books, chapters and reports

2015 "Ask me anything on water shortages in California or water-related problems anywhere in the world!" in *Ask Me Anything*, edited by the Reddit AMA mods. ISBN: 978-0692582268. RR Donnelley, Chicago

2015 *Vivir con la escasez de agua*, translated by Rafael Seiz, prologue by Carlos Mario Gomez, and assisted by Macarena Dagnino, Dolores Rey and Ignacio Urrutia. ISBN: 978-0692445624. Aguanomics Press, Mission Viejo

2014 *Living with Water Scarcity*. ISBN: 978-0615932187. Aguanomics Press, Mission Viejo
Honorary mention, Agricultural & Applied Economics Association's 2015 Quality of Communication Award

2014 "Water conservation" in *Environmental and Natural Resource Economics: An Encyclopedia*, edited by John Whitehead and Tim Haab. ISBN: 978-1-4408-0119-8. ABC-CLIO, Goleta

2013 "An orientation to the assessment framework for evaluating economic policy instruments for managing water." (with T. Dworak, M. Lago, A. Maziotis, C. Viavattene). Discussion Paper no. 02 for "Evaluating Economic Policy Instruments for Sustainable Water Management in Europe," an EU FP7 project. Fondazione Eni Enrico Mattei, Venice

2013 "Economists owes ecology an apology" in *Green Growth and Water Allocation*, edited by S. Primot, M.R. van der Valk, and P. Keenan. IHP-UNESCO, Den Haag

2013 "Water managers are selfish like us" in *Handbook on Experimental Economics and the Environment*, edited by John List and Michael Price. ISBN: 978-1847206459. Edward Elgar, Northampton

2012 "The political economy of land and water grabs" (with Jennifer Möller-Gulland) in *The Handbook of Land and Water Grabs in Africa Foreign direct investment and food and water security*, edited by John Anthony Allan, Jeroen Warner, Suvi Sojamo, Martin Keulertz. ISBN: 978-1-85743-669-3. Routledge, Oxford

2012 Overall Assessment Framework. Deliverable D2.3 for "Evaluating Economic Policy Instruments for Sustainable Water Management in Europe" (edited with Hans-Peter Weikard) EU FP7 project. Fondazione Eni Enrico Mattei, Venice

2011 *The End of Abundance: economic solutions to water scarcity*. ISBN: 978-0615469737. Aguanomics Press, Mission Viejo

2011 Entries on the "Colorado River Aqueduct", "Metropolitan Water District of Southern California", and "Water, Population and Growth" in *Encyclopedia of Water Politics and Policy in The United States* (2011), edited by Steve L. Danver and John R. Burch. ISBN: 978-1604266146. CQ Press/SAGE, Washington DC

2011	"Property rights to water for all" [no link] in *Water Security: The Water-Food-Energy-Climate Nexus. The World Economic Forum Policy Initiative* (2011), edited by Dominic Waughray. ISBN: 978-1-59726-736-6. Island Press, Washington DC
2009	*Conflict and Cooperation within an Organization: A Case Study of the Metropolitan Water District of Southern California*. ISBN: 978-3639142815. VDM Verlag, Saarbrücken

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Working papers

Apr 16	*Life plus two meters* [edited volume, under contract with River Publishers]
Apr 16	"Sex matters: the impact of information on cooperation" [submitted] with Marina Della Giusta
Mar 16	"Reframing cooperation over public goods" [submitted]
Mar 16	"Rational waste: desalination, public choice and the commons" [revise/resubmit]
Feb 16	"Society, Politics and Desalination" [accepted invited chapter]

NB: I also have 15 "finished" (but unpublished) policy papers here.

Reviewer

In addition to 100+ reviews at my aguanomics blog, I've reviewed for the following journals and organizations: AAEA/ASSA sessions, American Economist, Australian J. of Agricultural and Resource Economics, J. American Water Resources Association, Copenhagen Consensus Center, Ecological Economics, Environmental and Resource Economics, Future of Food: J. on Food, Agriculture and Society (x3), H-Water Reviews (x3), International J. of Water Resources Development, J. Environment and Development, J. Environmental Economics and Management (x3), J. Environmental Management (x4), J. Law, Economics, and Organization, J. of Policy Analysis and Management, J. Water Resources Planning and Management, National Science Foundation (x3), Nature Climate Change, Routledge Press, US Army Corps of Engineers, Water Alternatives, Water Policy (x4), Water Resources Research (x4), and Wiley Press.

Social media (as of Apr 2016)

Blog	In the past year, `aguanomics.com` had 94,000+ views (-140,000) from 53,000 individuals (-80,000). NB: Reddit AMA was in the prior year.
Twitter	`@aguanommics` has 1,900+ followers (+200) and 5,400+ tweets (+2,000)
LinkedIn	1,500+ connections (+200), skills endorsed by 50+ people: Water Management, Environmental Awareness and International Development
Newsletter	"Aguanomics update 5(5)" went to 3,000+ (+ 700) people with an open rate of 27 percent

Talks, quotes and public speaking

During graduate school, I attended seven summer schools and gave over 20 talks at conferences and meetings. Since earning my PhD (April 2008), I have published, presented or been quoted over 150 times in popular, industry and academic outlets. This page lists recent talks and quotes in the media, and this page links to my 30+ chats with water experts.

Popular and industry press

In addition to 5,700+ posts at my aguanomics blog, I've written 50 essays and op/eds for blogs, industry magazines and newspapers. They can be found here.

References

Thomas Dworak (thomas.dworak@fresh-thoughts.eu; +43 (0)676 971 5509)
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