

# DAVID ZETLAND

June 13, 2018

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## CONTACT INFORMATION

Email: [d.j.zetland@luc.leidenuniv.nl](mailto:d.j.zetland@luc.leidenuniv.nl)  
Mobile: +31 (0) 6 2890 9774  
Address: LUC, Anna van Buerenplein 301, 2595 DG Den Haag, The Netherlands  
SSRN: <http://ssrn.com/author=354433>  
LinkedIn: <http://www.linkedin.com/in/zetland>

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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 for private, non-profit and government clients. In recent years, I worked on (non)adaptation to climate change, managing the commons, and communicating political-economy to a broader audience.

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## ACADEMIC EMPLOYMENT

- Aug 2014 – present      Leiden University College (Den Haag). As an Assistant Professor of Political Economy (permanent contract), I advise students, supervise capstone theses, and teach Common Pool Resources (x4), Entrepreneurial Production (x), Environmental Economics (x4), Global Challenges: Prosperity (x2), Growth & Development (x3), Microeconomics (x3), Principles of Economics, and the World of Entrepreneurs (x2). Dutch University Teaching Qualification (Basis Kwalificatie Onderwijs) achieved in Feb 2016. Under service, I am on the College Council (an advisory body) and convene the Social and Business Entrepreneurship minor.
- Jan–Mar 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 800 views each)
- Dec 2012 – Feb 2013      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](#)).

- Jan 2011 – Jun 2013 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*.
- Aug–Dec 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).
- Aug 2008 – Jul 2010 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).
- May–Jun 2008 Mercatus Center (Arlington). As a Visiting Fellow, I worked on various regulatory questions (with occasional input from Richard Williams and Karol Boudreaux).
- Aug 2003 – Apr 2008 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).

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## 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 Past: Aquacue Inc. (smart meters; purchased), Aquiva Foundation (drinking water in LDCs; dormant), Future of Food Journal on Food, Agriculture and Society (board of advisers; resigned due to their ethical misconduct), Great Lakes Virtual Water Project Advisory Committee (transboundary water; term ended), and gThrive Inc. (irrigation technology; bankrupt)
- Supervisor LUC capstones (bachelor's theses): Krisna Baghouzian, Esmeé Hendrikson, Jan Joosten, Ana Pariente, Corneill Spaapen, Dieneke de Weerd, Lennart Zandbergen (2017–18). Anniek Barnhoorn, Isabel Barnhoorn, Onno Blom, Lauriane Boosten, Rosanna Cohn, Zack Malik, Markéta Prokopová, Camelia Vasilov and Daniek Zomer (2016–17). Robert Dijkstra, Mathijs Hageraats, Robin Hemert, Adrienne

Hill-Strathy, Michel Ivulić, Margot Marston, Moritz Müller, Mónica Sanchez-Groeneweg, Annerieke Sleurink and Christian van der Woude (2015–16). Felix Burkart, Diederik van den Burger, Rob van Haaften, Anne Claire Joosten and Richard Kleinjans (2014–2015). Other schools: 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)

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## EDUCATIONAL HISTORY

- Apr 2008 Ph.D. (Agricultural and Resource Economics), University of California, Davis: Development, Industrial Organization, and Environment/Natural Resources (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

- In press [“A history of the Dutch drinking water sector”](#), *Water Policy*, with Bene Colenbrander.
- 2017 [“Exploring group cooperation in the provision of public goods.”](#) *Strategic Behavior and the Environment*, 7(1–2):109–133.
- 2017 [“Desalination and the commons: tragedy or triumph?”](#) *International Journal of Water Resources Development*, 33(6):890–906.
- 2016 [“The struggle for residential water metering in England and Wales.”](#) *Water Alternatives*, 9(1):120–138
- 2013 [“The life and death of the Dutch groundwater tax.”](#) *Water Policy*, 15(6):1064–1077, with Marianne Schuerhoff and Hans-Peter Weikard
- 2013 [“All-in-auctions for water.”](#) *Journal of Environmental Management*, 115:78–86
- 2012 [“A global survey of urban water tariffs: are they sustainable, efficient and fair?”](#) *International Journal of Water Resources Development*, (29)1:1–17, with Christopher Gasson
- 2011 [“Water markets in Europe.”](#) *Water Resources IMPACT*, 13(5):15–18
- 2011 [“Intra-organizational conflict: Origin and cost.”](#) *The Economics of Peace and Security Journal*, 6(1):12–21.
- 2011 [“How markets can end persistent intraorganizational conflict.”](#) *The Economics of Peace and Security Journal*, 6(1):22–27
- 2010 [“Save the poor, shoot some bankers.”](#) *Public Choice*, 145(3–4):331–337

- 2010 [“An auction market for journal articles.”](#) *Public Choice* 145(3–4):379–403, with Jens Prüfer.
- 2010 [“The real estate market index.”](#) *The Real Estate Finance Journal*, Fall 2010:77–91
- 2010 [“Teaching economic principles: algebra, graph or both?”](#) *The American Economist*, 55(1):123–131, with Carlo Russo and Navin Yavapolkul
- 2010 [“Water reallocation in California: A broken hub will not wheel.”](#) *Journal of Contemporary Water Research & Education*, 144:18–28
- 2009 [“The end of abundance: How water bureaucrats created and destroyed the southern California oasis.”](#) *Water Alternatives*, 2(3):350–369

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## BOOKS, CHAPTERS AND REPORTS

- 2018 [“Society, Politics and Desalination”](#) in Bazargan, Alireza (editor), *A Multidisciplinary Introduction to Desalination*, chapter 18, pp 559–574. Delft: River Publishers. ISBN: 978-8793379541.
- 2018 [“Water scarcity doesn’t mean higher prices”](#) (with Caetie Ofiesh) in *Water: An Atlas*. Guerrilla Press: Berkeley.
- 2018 [Life Plus 2 Meters, volume 2](#), edited by David Zetland, with chapters by 34 authors. Amsterdam: KYSQ Press. ISBN: 978-9090307633.
- 2017 [“Dear Henry”](#) in Bisgaard, Tanja Rohini (editor), *2047: Short Stories from Our Common Future*. ASIN: B077T7BZ56.
- 2016 [Life Plus 2 Meters, volume 1](#), edited by David Zetland, with chapters by 27 authors and foreword by Henk Ovink. ISBN: 978-0615578484. Aguanomics Press, Amsterdam
- 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. *This book received an honorary mention in the Agricultural & Applied Economics Association’s 2015 Quality of Communication competition*
- 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

## WORKING PAPERS

- Jul 17      “[Teaching common-pool resource management](#)”

**NB:** I also have 10+ “finished” (but unpublished) policy papers [here](#).

## REVIEWER

In addition to 125 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, Energy Research & Social Science, 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 (x8), J. Hydrology, J. Law, Economics, and Organization, J. of Policy Analysis and Management, J. Water Resources Planning and Management, Mosaic, National Science Foundation (x3), Nature Climate Change, Routledge Press, US Army Corps of Engineers, Urban Water Journal, Water Alternatives (x2), Water Policy (x4), Water Resources Research (x4), Wiley Press, and World Resources Institute.

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## SOCIAL MEDIA (AS OF JUNE 2018)

Blog	After 10 years and 4.6 million views, I shut down my aguanomics blog in June 2018. My new blog “The One-Handed Economist” has no tracking software.
Twitter	I have abandoned my <a href="#">@aguanommic</a> s handle, with its 2,100+ followers
LinkedIn	2,100+ connections, skills endorsed by 50+ people: Water Management, Environmental Awareness and International Development
Newsletter	“KYSQ News 7(8)” went to 3,700+ people with an open rate of 26 percent

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## 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 200 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.

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## POPULAR AND INDUSTRY PRESS

In addition to 6,000+ posts at my [aguanomics blog](#), I’ve written over 50 essays and op/eds for blogs, industry magazines and newspapers. They can be found [here](#).

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## REFERENCES

**Thomas Dworak** ([thomas.dworak@fresh-thoughts.eu](mailto:thomas.dworak@fresh-thoughts.eu); +43 (0)676 971 5509)  
Director, Fresh-Thoughts Consulting GmbH  
Auhofstrasse 4/7, 1130 Vienna, Austria

**Charles W. Howe** ([charles.howe@colorado.edu](mailto:charles.howe@colorado.edu); +1 303 735 5500)  
Emeritus Professor, Department of Economics  
University of Colorado Boulder, 256 UCB, Boulder, Colorado 80309-0256

**Manuel Lago** ([Manuel.Lago@ecologic.eu](mailto:Manuel.Lago@ecologic.eu); +49 (0)30 868 800)  
Senior Fellow, Environmental Economics  
Ecologic Institute, Pfalzburger Strasse 43/44, 10717 Berlin, Germany

**Richard J. Sexton** ([sexton@primal.ucdavis.edu](mailto:sexton@primal.ucdavis.edu); +1 530 752 4428)  
Professor, Department of Agricultural and Resource Economics  
University of California, Davis 95616 USA

**Hans-Peter Weikard** ([hans-peter.weikard@wur.nl](mailto:hans-peter.weikard@wur.nl); +31 (0)317 482 494)  
Associate Professor, Environmental Economics and Natural Resources Group  
Wageningen University, P.O. Box 8130, 6700 EW, The Netherlands

**Michael Young** ([mike.young@adelaide.edu.au](mailto:mike.young@adelaide.edu.au); +61 (0)408 488 538)  
Professor, Water and Environmental Policy University of Adelaide, Australia