

JULIAN FULTON

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CURRENT POSITION: Assistant Professor, Department of Environmental Studies, California State University Sacramento

EDUCATION

PhD **Energy and Resources Group**, University of California, Berkeley, May 2015.

Dissertation: “California’s Water Footprint: recent trends and framework for a sustainable transition.”

Committee: Richard Norgaard (chair), Isha Ray, John Dracup, and Peter H. Gleick.

Fields: Ecological Economics, Water Balance Accounting, and Governance of Global Production.

MSc **Civil and Environmental Engineering**, University of California, Berkeley, 2007.

Capstone Project: “Multivariate Elasticity of Streamflow in the Santa Ana Watershed”

Advisor: Steven D. Glaser (Civil Systems Group).

BA **International Development Studies**, University of California, Berkeley, 2002.

Departmental Honors. Minor in City and Regional Planning.

PUBLICATIONS († peer-reviewed)

Marina Fischer-Kowalski, Monika Dittrich, Nina Eisenmenger, **Julian Fulton**, Thomas Kastner, Karin Hoskin, Heinz Schandle, Jim West & Tommy Wiedmann (in press). *International Trade in Resources: A Biophysical Assessment*. United Nations Environment Program.

Julian Fulton & Fraser Shilling (2015). “California’s Water Footprint Is Too Big for Its Pipes.” In Allison Lassiter (ed.) *Sustainable Water: Challenges and Solutions from California*. Berkeley, CA: UC Press.

† **Julian Fulton** & Heather Cooley (2015). “The Water Footprint of California's Energy System, 1990-2012.” *Environmental Science and Technology* 49 (6): 3314-21.

Julian Fulton, Heather Cooley, Susana Cardenas, & Fraser Shilling (2014). “Trends and Variation in California’s Water Footprint.” In *California Water Plan Update 2013*. Sacramento, CA: California Department of Water Resources.

† **Julian Fulton**, Heather Cooley & Peter H. Gleick. (2014). “Water Footprint Outcomes and Policy Options Change With Scale Considered: Evidence from California.” *Water Resources Management* 28 (11): 3637–49.

Julian Fulton, Heather Cooley & Peter H. Gleick (2014). “Water Footprints.” In Peter H. Gleick (ed.) *The World’s Water, Volume 8*. Washington, DC: Island Press.

Julian Fulton, Heather Cooley & Peter H. Gleick (2012). *California’s Water Footprint*. Oakland, CA: Pacific Institute.

Heather Cooley, **Julian Fulton** & Peter H. Gleick (2011). *Water for Energy: Future Water Needs for Electricity in the Intermountain West*. Oakland, CA: Pacific Institute.

† Giorgos Kallis, Isha Ray, **Julian Fulton** & James E. McMahon (2010). “Public Versus Private: Does It Matter for Water Conservation? Insights from California.” *Environmental Management* 45 (1): 177–91.

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AWARDS

Postdoctoral Research Fellowship, UC MEXUS-CONACYT, 2015-16, declined.

Science & Technology Policy Fellowship, California Council on Science & Technology, 2015-16, declined.

Stephen K. Hall Water Law & Policy Scholarship, Association of California Water Agencies, 2014, \$7,000.

John L. Simpson Memorial Research Fellowship in International and Comparative Studies, Institute of International Studies, University of California, Berkeley, 2013, \$5,000.

Departmental Block Grant, Energy and Resources Group, University of California, Berkeley, 2012, \$7,000.

Berkeley-Austria Predissertation Fellowship, Institute of European Studies, University of California, Berkeley, 2011, \$5,000.

Fulbright Fellowship, Institute of International Education, 2007, \$15,000.

ACADEMIC ACTIVITIES

Peer Reviewer, Environmental Science and Technology, American Chemical Society, 2015 –

Peer Reviewer, Proceedings of the National Academies of Sciences (PNAS), 2012 –

Peer Reviewer, Nature Climate Change, Nature Publishing Group, 2015 –

Peer Reviewer, Global and Planetary Change, Elsevier, 2013 –

Peer Reviewer, Earth's Future, American Geophysical Union, 2014 –

Peer Reviewer, Hydrologic Sciences Journal, Int'l Association of Hydrologic Sciences, 2014 –

Peer Reviewer, Ecological Indicators, Elsevier, 2015 –

Member, American Geophysical Union, 2012 –

Member, Association of American Geographers, 2013 –

Member, Berkeley Energy and Resources Collaborative, University of California, Berkeley, 2009 – 2015

PROFESSIONAL AND RESEARCH EXPERIENCE

University of California Davis (Davis, CA), **Postdoctoral Scholar**, Department of Environmental Science and Policy, 2015. Supervisor: Dr. Fraser Shilling. Lifecycle water analysis of California's almond industry.

Pacific Institute (Oakland, CA), **Research Affiliate**, Water Program, 2010 – 2015. Worked on three institute reports and two journal articles as lead author, and gave five presentations to state agencies.

Graduate Student Instructor Teaching and Resource Center (Berkeley, CA), **Selected Participant**, Summer Institute for Preparing Future Faculty, 2014. Studied U.S. higher education system and presented on aspects of civic engagement. Developed editing skills and a writing portfolio for elective credit.

U.S. Agency for International Development (USAID), **e-Evaluator**, Securing Water for Food Grand Challenge for Development, 2014. Reviewed thirty Concept Notes submitted internationally for funding.

European Network for Political Ecology (ENTITLE), **Selected Participant**, Summer School "Commons, Conflicts and Disasters," 2013. Presented work and participated in reading workshops.

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Institute for Social Ecology (Vienna, Austria), **Guest Researcher**, 2012. Collaborated with experts in social metabolism, presented to group seminar, and developed forthcoming UNEP publication.

Community Resources for Science (San Francisco Bay Area, CA), **Volunteer**, Bay Area Scientists in Schools, 2011 – present. Volunteer for grade school energy, water, and science lessons.

Autonomous University of Barcelona (Spain), **Selected Participant**, Institute of Science & Environmental Technology (ICTA) Summer School “Environmental Conflicts & Justice,” 2011. Presented poster.

Union of Concerned Scientists (USA), **Consultant**, Energy & Water in a Warming World Initiative, 2010. Conducted literature review and data analysis of water impacts of unconventional fossil fuels.

Berkeley Arsenic Alleviation Group, University of California, Berkeley, **Graduate Student Researcher**, 2009. Built and tested electrochemical arsenic removal water purification system for pilot in Bangladesh.

Autonomous University of Barcelona (Spain), **Guest Researcher**, Institute of Science & Environmental Technology (ICTA), 2008. Completed and submitted a peer-reviewed publication with Giorgos Kallis et al.

Technical University Delft (Netherlands), **Fulbright Fellow**, Water Research Centre, 2007-2008. Took courses and researched Dutch environmental management in context of E.U. water directives.

UC Berkeley – EU Water Framework Directive Study Tour, Portugal, **Selected Participant**, 2007. Worked with planners and local groups on Directive implementation. Presented to local government.

Lawrence Berkeley National Laboratory (CA), **Guest Researcher**, Energy Analysis Department, 2007. Designed, conducted and analyzed survey of water utility conservation strategies and customer attitudes.

CONFERENCES

Trends in California’s Water Footprint, 1992-2012, **Presenter**, Assessing Water Footprint and the Impact of Water Quality on Water Availability, American Geophysical Union Fall Meeting, San Francisco, 2015.

Water Fairness in a Changing Global Economy, **Presenter**, First Austrian Conference on International Resources Politics: Theories, Conflicts and Policies, Vienna, Austria, 2014.

Looking Forward – Policies, Investments & Strategies to Better Weather Drought, **Session Organizer**, Berkeley Energy & Resources Collaborative Roundtable: “California in Drought,” Berkeley, CA, 2014.

Water Footprint Outcomes and Policy Options: A California Case Study, **Presenter**, Methods and Tools for Improved Cooperation at Basin Level, Stockholm World Water Week, Sweden, 2013.

Historical processes on virtual water: Contributions from United States and Spain, **Session Organizer and Presenter**, European Society for Environmental History, Munich, Germany, 2013.

Conflicting Securities? Climate Change and Sea Level Rise in California’s Sacramento-San Joaquin Delta, **Presenter**, Caricostas: Integrated Management of Coastal Zones, Santiago, Cuba, 2013.

California’s Historical Water Footprint: Expanding Notions of Sustainable Use, **Presenter**, Water Resources & Sustainable Development, Association of American Geographers, Los Angeles, CA, 2013.

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Water Footprint Usefulness as a Sustainability Indicator Depends on Scale Considered, **Poster Presenter**, Socio-hydrology: Discovering Patterns in Coupled Human-Water Resource Systems, American Geophysical Union Fall Meeting, San Francisco, CA, 2012.

Virtual Water, Real Conflict: Linking Consumption and Resilience at the Onset of Climate Change, **Poster Presenter**, American Association for the Advancement of Science, Washington, DC, 2011.

Bay Decisionmakers Conference, **Volunteer**, Bay Planning Coalition, Oakland, CA, 2009.

California Water Policy Conference, **Scholarship Recipient**, Pasadena, CA, 2006 & 2008.

World Wide Workshop of Young Environmental Scientists, **Presenter**, Paris, France, 2008.

Water Trade: A Virtual Reality?, **Conference Organizer**, UNESCO-IHE, Delft, Netherlands, 2008.

European Water Forum: New Visions and Strategies, **Invited Participant**, Brussels, Belgium, 2008.

Still Battling the Inland Sea, **Volunteer**, ASCE/SAME Levee Conference, Sacramento, CA, 2007.

OTHER

Modeling & computing skills: WEAP, WaterGAP, CropWat, Cal-SIMETA, GTAP, ArcGIS, R.

Blog posts: <http://berc.berkeley.edu/water-californias-bigfoot-imported/>

Languages\International Language Roundtable Scale: Spanish\4, Portuguese\3, German\1, Italian\1.