

# JULIAN FULTON

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## EDUCATION

- Postdoc Department of Environmental Science and Policy, University of California Davis, 2015.  
PhD Energy and Resources Group, University of California, Berkeley, 2015.  
MSc Civil and Environmental Engineering, University of California, Berkeley, 2007.  
BA International Development Studies, University of California, Berkeley, 2002.

## ACADEMIC APPOINTMENTS

- Assistant Professor, Environmental Studies Department, California State University Sacramento, 2016 –  
Lecturer, Energy and Resources Group, UC Berkeley, 2016 –

## PUBLICATIONS (ordered newest to oldest; † = refereed)

- † **Julian Fulton**, Michael Norton, and Fraser Shilling (2019). Water-Indexed Benefits and Impacts of California Almonds. *Ecological Indicators* 96: 711-717.
- † Mesfin M Mekonnen and **Julian Fulton** (2018). The effect of diet changes and food loss reduction in reducing the water footprint of an average American. *Water International* 43:6, 860-870.
- Julian Fulton** and Heather Cooley (2018). The Water Footprint of California's Energy System, 1990–2012." In P. Gleick (Ed.), *The World's Water, Volume 9*. Oakland, CA: Pacific Institute.
- Marina Fischer-Kowalski, Monika Dittrich, Nina Eisenmenger, **Julian Fulton**, Thomas Kastner, Karin Hoskin, Heinz Schandle, Jim West & Tommy Wiedmann (2015). *International Trade in Resources: A Biophysical Assessment*, Report of the International Resource Panel. United Nations Environment Program.
- Julian Fulton** & Fraser Shilling (2015). California's Water Footprint Is Too Big for Its Pipes. In A. 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 P. 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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## TEACHING EXPERIENCE

*Introduction to Environmental Science* (ENVS 10), a general education course covering the science and policy issues for today's environmental challenges. Undergraduate, 3 units, 50-80 students.

*California Water and Society* (ENVS 135, also ERG 190 at UC Berkeley), covers the historical, scientific, legal, institutional, and economic background needed to understand California's water policy challenges. Undergraduate/Graduate, 3 units, 30-40 students.

*Energy, Society and the Environment* (ENVS 140), an upper division course that I established, covering the concepts and tools necessary to understand society's diverse technology and policy choices around energy production and use. Undergraduate, 3 units, 30-40 students.

## GRANTS, FELLOWSHIPS, CONTRACTS & AWARDS

Pedagogy Enhancement Award, Spring 2018. CSU Sacramento Center for Teaching and Learning, \$500 plus 3 units of release time, awarded.

Faculty Council Travel Award, Summer 2018. CSU Sacramento College of Social Sciences and Interdisciplinary Studies, \$2,000, awarded.

Research and Creative Activity Faculty Award - "Redefining 'water use' in California." Spring-Summer 2018. CSU Sacramento Office of Research Affairs, \$1,791 plus 3 units release time, awarded.

Faculty Fellowship for Student Success, Spring 2018. CSU Sacramento College of Social Sciences and Interdisciplinary Studies (SSIS), 3 units release time, awarded.

Exchange Network Grant (Principal Investigator) – "Energy-water-emission dashboard," 2017-2020. US Environmental Protection Agency, \$299,699, awarded.

Almond Board Research Grant (Co-Principal Investigator), 2016-17. Almond Board of California, \$110,000, awarded.

Faculty Learning Community: Equity and Student Success: Inclusive Teaching for Diverse Learners, 2016-2017 CSU Sacramento Center for Teaching and Learning, \$800, awarded.

Research Award, 2016-17. CSU Sacramento Institute for Water, Energy, Sustainability and Technology, \$7,000 plus 6 units release time, awarded.

New Faculty Research Fellowship, 2016. CSU Sacramento College of Social Sciences and Interdisciplinary Studies, \$5,000, awarded.

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

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

Water Sustainability and Climate Grant, 2014. National Science Foundation, \$1,500,000, not funded.

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

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

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

Fulbright Fellowship, 2007-2008. Institute of International Education, \$15,000, awarded.

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## CONFERENCES & WORKSHOPS

Human Dimensions in Delta Environments, **Participant**, Delta Stewardship Council, UC Davis, July 2019.

Reimagining California Water, **Participant**, UC Water and UCANR Annual Meeting, Sacramento, October 2018.

“Fixing water? Discourses and deals in California's struggle with aridity and wealth,” **Presenter**, Political Ecology Network (POLLEN) Biennial Conference, Oslo, Norway, June 2018.

“Water Security Risk and California Trade,” **Invited Panel Presenter**, Pacific Council on International Policy Water Conference, Los Angeles, 2017.

“The Water Footprint of California's Energy System, 1990-2015,” **Presenter**, World Environmental and Water Resources Congress, Sacramento, CA, 2017.

“California: a case of (and for) water footprint,” **Invited Presenter**, Virtual Water in Agricultural Products: Quantification, Limitations and Trade Policy, Nebraska Water Center in collaboration with OECD, Lincoln, NE, 2016.

**Invited Participant**, California's Water Future: An Advanced Communications Workshop, UC Santa Barbara Bren School in collaboration with COMPASS Communications. Santa Barbara, CA, 2016.

“Water, Virtual Water, and Governance in California's Hydro-Social Cycle,” **Presenter**, Political Ecology of Water in the West, American Association of Geographers Annual Meeting, San Francisco, 2016.

“Trends in California's Water Footprint, 1992-2012,” **Co-presenter**, Assessing Water Footprint & 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.

“California's Water: Resilience or Risk?” **Workshop Leader**, Berkeley Water Group Idea Lab Watershop, Berkeley, CA, 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.

“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.

# JULIAN FULTON

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

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

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

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

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

## PROFESSIONAL SERVICE & MEMBERSHIPS

Peer Reviewer, Social Science Research, Elsevier, 2019 –

Peer Reviewer, Sustainable Cities and Society, Elsevier, 2019 –

Peer Reviewer, Water Resources Research, American Geophysical Union, 2018 –

Peer Reviewer, Hydrology and Earth System Sciences, European Geosciences Union, 2017 –

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

Peer Reviewer, Science of the Total Environment, 2016 –

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

Peer Reviewer, Ecological Indicators, Elsevier, 2015 –

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

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

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

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

Member, American Geophysical Union, 2012 –

Member, Association of American Geographers, 2013 –

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

## PROFESSIONAL & RESEARCH EXPERIENCE

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

**Selected Participant**, University of California Berkeley Summer Institute for Preparing Future Faculty, 2014. Studied and presented on civic engagement in U.S. higher education system.

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

**Selected Participant**, European Network for Political Ecology, Summer School “Commons, Conflicts and Disasters,” 2013. Presented work and participated in reading workshops.

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

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

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

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

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

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

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

**Guest Researcher**, Lawrence Berkeley National Laboratory, Energy Analysis Department, 2007. Designed, surveyed and analyzed water customer behavior under differing conservation strategies.

**Project Manager**, Concept Marine Associates (Long Beach, California), 2002-2005. Managed infrastructure rehabilitation projects for municipal public works departments in Los Angeles area.

## SERVICE TO UNIVERSITY & COMMUNITY

University Sustainability Steering Committee, **Member**, CSU Sacramento, 2019 –

College Social Sciences and Interdisciplinary Studies Outstanding Faculty Awards Selection Committee, **Member**, CSU Sacramento, 2019 –

Environmental Studies Department Hiring Committee, **Chair**, CSU Sacramento, 2018 – 2019.

Faculty Senate, **Senator**, CSU Sacramento, 2017 – 2019.

Research and Creative Activity Subcommittee, **Peer Reviewer**, CSU Sacramento, 2018.

Professional Leave Committee (Faculty Senate), **Member**, CSU Sacramento, 2016 – 2018.

Organizing Committee: *Water and Fire: Impacts of Climate Change*, **Member**, CSU Sacramento, 2016.

William Gianelli Water Leaders Class, **Invited Lecture**, Water Education Foundation, Sacramento, 2016.

Sacramento 95H<sub>2</sub>O: A series on water & Sacramento, **Invited Lecture**, Sacramento Public Library, 2016.

Climate Change and Sustainability Speaker Series, **Invited Lecture**, EPA Region 9, San Francisco, 2016.

## OTHER

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

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

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