

ANDREW B. AYRES

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SUMMARY OF QUALIFICATIONS

- Ph.D. Candidate in Economics and Environmental Science; B.A. in Economics with German minor
- Published on climate change, water management, and environmental policy in peer-reviewed journals and as a consultant. Numerous presentations at academic and policy-oriented conferences and events.
- More than six years of demonstrated experience performing and communicating research at regional, national, and international levels in Europe and in the United States in both English and German.
- Professional knowledge of water management institutions in California and the American West, especially regarding groundwater management issues.

AREAS OF RESEARCH EXPERTISE

Primary

- Environmental and Natural Resource Economics
- Institutional Economics
- Applied Econometrics

Secondary

- Water Policy and Economics
- Environmental Policy
- Water Infrastructure

EDUCATION

Ph.D., Economics and Environmental Science (Expected Academic Year 2018)

Bren School of Environmental Science & Management and Department of Economics
University of California, Santa Barbara (UCSB)

Dissertation Title: “Three Essays on the Economics of Groundwater Management”

Dissertation Committee:

- Professor Gary Libecap (Bren School and Economics Department) (Chair)
- Professor Chris Costello (Bren School and Economics Department)
- Asst. Professor Kyle Meng (Bren School and Economics Department)
- Adjunct Faculty Derek Booth (Bren School)

B.A., Economics, with German Language and Literature minor (June 2010)

Pomona College, Claremont, CA

HONORS, SCHOLARSHIPS, AND FELLOWSHIPS

Sustainable Water Markets Fellow—Bren School, UCSB (9/2013 – Present)

Graduate Research Fellow—Property and Environment Research Center (6/2017 – 9/2017)

U.S. Fulbright Research Fellow (Berlin, Germany)—Free University of Berlin (9/2010 – 7/2011)

NCAA Academic All-American, Varsity Water Polo—Pomona College (12/2006 – 7/2010)

RESEARCH EMPLOYMENT EXPERIENCE

UC Office of the President: Multi-Campus Research Proposal Initiative

Legal Economic Data and Analysis of Environmental Markets

Graduate Student Researcher (9/2015 – Present)

Supervisor: Dr. Gary Libecap, Principal Investigator

- Led and coordinated research efforts at UCSB to investigate the potential role of market-based mechanisms in the implementation of California’s Sustainable Groundwater Management Act
- Applied a variety of econometric models to identify the factors leading to the adoption of stringent groundwater management as well as the returns to groundwater basin adjudication in California
- Presented results to colleagues from other UC campuses and environmental professionals at various other venues, including prominent academic conferences

RESEARCH EMPLOYMENT EXPERIENCE (continued)

Ecologic Institute, Berlin, Germany

Researcher and Transatlantic Fellow (10/2011 – 6/2013)

Supervisors: Dr. Manuel Lago, Senior Fellow; Dr. Darla Nickel, Senior Fellow

- Conducted research on water, energy, and climate economics and policy at the German, European, and international levels
- Contributed to project work on urban water pricing in Europe, benchmarking for the oversight of drinking water utilities in Germany, an economic analysis of river restoration measures, policies to promote climate adaptation in developing countries, and climate policy in the context of the European Semester

Intergovernmental Panel on Climate Change (IPCC), Potsdam, Germany

Research Assistant, Technical Support Unit of Working Group III (12/2010 – 7/2011)

Supervisors: Kristin Seyboth, Senior Scientist; Patrick Matschoss, Head of Unit

- Edited 1,000-page Special Report on Renewable Energy Sources (SRREN)
- Performed language/technical editing, analyzed reviewer comments, reviewed copyright permissions, and assessed suitability of citation management programs

PROFESSIONAL ACTIVITIES AND AFFILIATIONS

Member, International Water Resources Economics Consortium (5/2016 – Present)

Mentor, Master's Group Projects—Bren School, UCSB (5/2015 – Present)

Topic Editor, Environment—Global Water Forum (12/2013 – Present)

Research Associate—Ecologic Institute (6/2013 – Present)

Teaching Assistant, Beginning and Advanced German Conversation—UCSB (4/15-6/15)

Teaching Assistant, German 2—UCSB (1/15 – 3/15)

WORKING PAPERS

Ayres, A., Meng, K., and A. Plantinga (**JOB MARKET PAPER**). The Economic Value of Secure Water: Landowner Returns to Defining Groundwater Property Rights.

Ayres, A., Edwards, E., and G. Libecap. How Transaction Costs Obstruct Collective Action: Evidence from California's Groundwater. NBER Working Paper #23382.

PUBLICATIONS AND REPORTS

Ayres, A., Degolia, A., Fienup, M., Kim, Y., Sainz, J., Urbisci, L., Viana, D., Wesolowski, G., Plantinga, A., and C. Tague (2016). Social Science/Natural Science Perspectives on Wildfire and Climate Change. *Geography Compass*, 10(2), 67-86. DOI: 10.1111/gec3.12259

Ayres, A. (2016). Trading Institutions in California's Adjudicated Groundwater Basins: Rules, Regulations, and Trading Activity. Report Prepared for Fox Canyon Groundwater Management Agency. February 2016.

Ayres, A. (2014). Germany's Water Footprint of Transport Fuels. *Applied Energy*, 113, 1746-51. DOI: 10.1016/j.apenergy.2013.05.063

Nickel, D., Lange, M., **Ayres, A.**, Schielein, J., Oelmann, M. (2013). Ökologische und hygienische Kennzahlen im Benchmarking der Wasserversorgung – Empfehlungen aus Sicht des Gewässer- und Gesundheitsschutzes [Ecological and health-related indicators in the benchmarking of drinking water utilities – recommendations from the perspective of water body and human health protection]. Dessau-Roßlau: German Federal Environment Agency.

Kraemer, R.A., Lago, M., **Ayres, A.**, Kampa, E., Interwies, E., Anzaldúa, G. (2013). “Le rôle des permis transférables pour la maîtrise de la pollution de l'eau [The Role of Tradable Permits in Water Pollution

Control]”, in *Gestion de l’eau et Reglementation: Recueil de Textes Internationaux*, ed. Max Falque et al. (Aix en Provence: ICREI, 2013).

Dreblow, E., Duwe, M., Wawer, T., Donat, L., Zelljadt, E., **Ayres, A.** (2013). *Assessment of Climate Change Policies in the Context of the European Semester. 28 Country Reports*. Project for the European Commission, Directorate-General for Climate Action. Berlin: Ecologic Institute.

PROFESSIONAL PRESENTATIONS

September 2017	Departmental Seminar at Utah State University. Logan, Utah. “The Effect of Groundwater Adjudication on Land Value: Evidence from the Mojave Desert
November 2016	86th Annual Conference of the Southern Economic Association. Washington, D.C. “The Role of Bargaining Costs in Addressing the Depletion of Natural Resources: The Case of California’s Groundwater”
September 2016	12 th Annual Meeting of the International Water Resource Economics Consortium. World Bank, Washington, D.C. “The Role of Bargaining Costs in Addressing the Depletion of Natural Resources: The Case of California’s Groundwater”
September 2016	ELEEP Webinar. Ecologic Institute, Washington, D.C. “The Role of Bargaining Costs in Addressing the Depletion of Natural Resources: The Case of California’s Groundwater”
April 2016	25th California Water Policy Conference. Davis, California. Panel Member: “A River Could Run Through It: Market Approaches to Achieving Water-Related Environmental Outcomes”
March 2016	Law and Economics Workshop. UCLA School of Law. “Choosing Remedies to the Common Pool: The Case of California’s Groundwater Management”
February 2016	Bren School PhD Symposium. Bren School, UCSB. “Institutional Change in Groundwater Management: Identifying the Effects of Adjudication”
May 2015	Workshop on Institutional Analysis. Ronald Coase Institute. Hong Kong. “Floodplain Development and Downstream Flood Hazard”
March 2015	24th California Water Policy Conference. Claremont, California. Panel Member: “Market-based Approaches to Water Management”
May 2015	Departmental Environmental Lunch Seminar. UCSB Dept. of Economics. “The Effect of Groundwater Adjudication on Land Values: Evidence from the Mojave”
February 2015	Bren School PhD Symposium. Bren School, UCSB. “Kicking the Flood Down the Stream: Institutions for Floodplain Development”
November 2015	Departmental Environmental Lunch Seminar. UCSB Dept. of Economics. “Groundwater Adjudication in California: Identifying Benefits and Transaction Costs”
April 2013	First Annual Berlin Forum on Global Politics. Free University of Berlin, Berlin, Germany. “Transboundary River Basin Management and the State in a Globalized World”
July 2012	Fourth International Conference on Applied Energy. Suzhou, China. “Germany’s Water Footprint of Transport Fuels”

ADDITIONAL SKILLS

Technical Computer and Coding Skills: Stata, MATLAB, Microsoft Office, ArcGIS, R

Languages: Native English Speaker, Professional German Fluency, and Intermediate Spanish