

# Christopher M. Jones, Ph.D.

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## Professional Preparation

2010 – 2014 Ph.D. Energy and Resources Group, University of California, Berkeley  
2002 – 2005 M.S. Energy and Resources Group, University of California, Berkeley  
2002 – 2005 M.A. Latin American Studies, University of California, Berkeley  
1989 – 1995 B.A. Politics, University of California, Santa Cruz

## Appointments

10/2009 – Director, CoolClimate Network  
Energy and Resources Group, University of California, Berkeley  
1/2006 – 9/2009 Staff Research Associate  
Berkeley Institute of the Environment, University of California, Berkeley  
7/2005 – 12/2005 Graduate Student Researcher  
Energy and Resources Group, University of California, Berkeley  
1/2005 – 7/2005 Graduate Student Researcher  
Behrs Environmental Leadership Program, University of California, Berkeley

## Teaching

1/2018 – Instructor, CoolClimate Data Science Undergraduate Research Program  
Energy and Resources Group, University of California, Berkeley  
2011, 2012, 2013 Co-instructor, ER190-002, Behavior and Sustainability  
(Spring semester) Energy and Resources Group, University of California, Berkeley  
8/2003 – 5/2005 Graduate Student Instructor  
(4 semesters) Sociology / College of Natural Resources, University of California, Berkeley

## Peer-Reviewed Academic Publications

1. Christopher M. Jones and Daniel M. Kammen. Pathway Analysis to Accelerate California's Low Carbon Economy. Submitted to *Environmental Science & Technology*
2. Christopher M. Jones, Stephen M. Wheeler and Daniel M. Kammen. [Carbon Footprint Planning: Quantifying state and local mitigation opportunities for 700 California cities](#). *Urban Planning* 3(2),

35-51.

Ranked fourth most highly viewed paper in *Urban Planning*

3. Edward L Vine and Christopher M. Jones. [Competition, carbon, and conservation: Assessing the energy savings potential of energy efficiency competitions](#). *Energy Research & Social Science* 19 (2016): 158-176
4. Robert Mieke, Rene Scheumann, Christopher Jones, Daniel Kammen, and Matthias Finkbeiner. [Regional Carbon Footprints of Households: A German case study](#). *Environment, Development and Sustainability* 18 (2), 577-591
5. Christopher M. Jones and Daniel M. Kammen. [Spatial Distribution of U.S. Household Carbon Footprints Reveals Suburbanization Undermines Greenhouse Gas Benefits of Urban Population Density](#). *Environ. Sci. Technol.*, 2014, 48 (2), pp 895–902  
Google Scholar Citations: 109; Altmetric Score 327 (99<sup>th</sup> percentile)
6. Rebekah Shirley, Christopher M. Jones and Daniel M. Kammen. [A Household Carbon Footprint Calculator for Islands: Case study of the United States Virgin Islands](#), *Ecol. Ecological Economics* 80 (2012) 8–14
7. Max Wei, James H. Nelson, Michael Ting, Christopher Yang, Daniel M. Kammen, Chris Jones, Ana Mileva, Josiah Johnston and Ranjit Bharvirkar. [Deep Carbon Reductions in California Require Electrification and Integration Across Economic Sectors](#). 2013 *Environ. Res. Lett.* 8 014038
8. Christopher M. Jones and Daniel M. Kammen. [Quantifying Carbon Footprint Reduction Opportunities for U.S. Households and Communities](#), *Environ. Sci. Technol.*, 2011, 45 (9), pp 4088–4095  
Google Scholar Citations: 415; Altmetric Score 112 (98<sup>th</sup> percentile)

### **Other Academic Publications**

9. Christopher M. Jones. *Enabling Low Carbon Communities: The Roles of Smart Planning Tools and Place-Based Solutions*. Doctoral Dissertation. Energy and Resources Group, University of California, Berkeley. December 2015.
10. Christopher M. Jones. *A Life Cycle Assessment of U.S. Household Consumption*. Masters Project. Energy and Resources Group, University of California, Berkeley. May 2005.
11. Christopher M. Jones. *Emissions of CO<sub>2</sub> and Criteria Pollutants from U.S. – Mexico Overland Freight*. Masters thesis. Latin American Studies, University of California, Berkeley. December 2005.
12. Christopher M. Jones and Daniel M. Kammen. The “Coolest California City:” Results from a Pilot Inter-City Carbon Footprint Reduction Competition. *Environment & Behavior* (revision prepared)

### **Peer-Reviewed Professional Reports**

13. Jones, C. M. (2020). [Consumption Based Greenhouse Gas Inventory of San Francisco from 1990 to 2015](https://escholarship.org/uc/item/4k19r6z7). UC Berkeley: Berkeley Energy and Climate Institute. Retrieved from <https://escholarship.org/uc/item/4k19r6z7>
14. Christopher Jones, Kira Stoll, Jewel Snavelly, Janika McFeely and Sara McKinstry, [Cool Campus Challenge: Program Summary and Evaluation](#). Report submitted to the University of California Office of the President, May 2016. 151 pp.
15. Christopher M. Jones and Daniel M. Kammen. [A Consumption-Based Greenhouse Gas Inventory of San Francisco Bay Area Neighborhoods, Cities and Counties: Prioritizing Climate Action for Different Locations](#). Report prepared for the Bay Area Air Quality Management District. December 15, 2015.
16. Edward Vine and Christopher M. Jones. [A Review of Energy Reduction Competitions: What We Have Learned](#). Report prepared for the California Public Utilities Commission. May 2015. 169 pp.
17. Christopher M. Jones and Daniel M. Kammen. *A Greenhouse Gas Local Government Decision-Support Tool*. Research report prepared for the California Air Resources Board under contract 09-359 (revisions in preparation)
18. Christopher M. Jones and Daniel M. Kammen. [The CoolCalifornia Challenge: A Pilot Inter-City Household Carbon Footprint Reduction](#). Report prepared for the California Air Resources Board under contract 10-325. November 2014. 90 pages.
19. Christopher M. Jones, Wes Sullens, Amy Dryden and Joe Kantenbacher. [Measuring the Climate Impact of Residential Buildings: GreenPoint Rated Climate Calculator Version 2](#). Report prepared for the California Air Resources Board under contract 09-344. September 2012. 122 pages.
20. Christopher M. Jones, Daniel M. Kammen, Gang He, Corinne Reich-Weiser, Devon Lake and Chris Erickson. Greenhouse Gas Emissions and Reduction Opportunities in Pacific Gas & Electric Company's Products and Services Supply Chain. Unpublished report. 69 pps. January 2012.

### **Other Papers**

21. Christopher M. Jones, Daniel M. Kammen and Daniel T. McGrath. [Consumer-Oriented Life Cycle Assessment of Food, Goods and Services](#). Berkeley Institute of the Environment. Energy and Climate Change. 2008
22. Christopher M. Jones. UC Berkeley Climate Footprint, in Fahmida Ahmed, [UC Berkeley Climate Action Partnership, Feasibility Study 2006-2007 Final Report](#).
23. Christopher M. Jones. [A Lifecycle Assessment of U.S. Household Consumption: The Methodology and Inspiration Behind the "Consumer Footprint Calculator"](#). University of California International and Area Studies. Breslauer Symposium. Paper 8. 2005
24. Christopher M. Jones. [Headwinds for Climate Change Policy](#). *Latin American Studies Review*. Fall 2009. University of California, Berkeley

### **Student Advising / Supervision / Reader**

Graduate Students (22): Sofia Ramos Guerrero, Michal Wojcik, Marisol Del Aguila, Amy Choi, Bharat Singh, Buck Doyle (Bard College), Aditya Khandekar, Ben Gould, Monica Testa, Josiah Johnston, Alina Koch Lawrence, Rebekah Shirley, Joseph Kantenbacher, Jeremy Eddy, Gang He, Hazel Onsrud, Won Young Park, Kate Foreman, Sally Maki, Michael Hajjar, Anita Milman, Seung-Hyun Rhee.

CoolClimate Data Science interns (about 75). Too many to list.

Undergraduate students (35): Sarah Reed-Guy, Noelle Fourogi, Michael Claassen, Steven Chen, Beau Ryck (West Chester U.), Winnie Chan, Sandy Yip, Kamini Iyer, Jason Khoe, Ciaran Roberts, David Suh, Kelley Doyle (2012 AASHE sustainability research awardee), Alan Miller, Steven Nagy, Lydia Chang, Atheana Fulgencio, Chun Man Chow, Rosanna Neuhausler, Michelle Change, Rachel Bubb, Crystal Sun, Kathryn Lie, Katy Nomura, Dominic Molinari, Varun Mehra (UCLA), Kamyar Kaviani, Bernadette Le, Anurag Shyamala, Hieu Pham, Steve Wang, Sophia Ashton, Betsy Phillips, Mia Yamauchi, Christina Oatfield, Kimberly Lam.

Visiting Scholars (5): Gibran Vita (NTNU), Dianna Ivanova (NTNU), Jan Porvaznik, Robert Mieke (Fraunhofer), Anders Nilsson (KTH)

### **Synergistic Activities**

1. Co-Chair, [Behavior, Energy and Climate Change Conference](#), 2011 – 2021 (12 years)
2. Founder, Carbon Consulting Ltd., doing business as EcoDataLab. EcoDataLab's mission is to address climate change by massively scaling data science solutions to empower action among individuals, organizations, and governments.
3. Lead Developer: CoolClimate Calculator: <http://coolclimate.berkeley.edu/calculator>; CoolClimate Calculator for small businesses: <http://coolclimate.berkeley.edu/business-calculator>; CoolClimate Emissions Dashboard: <http://coolclimate.org/scenarios-california>; California Local Government Decision-Support Tool; GreenPoint Rated Carbon Calculator V2: <http://greenpointrated.com/calculator/>
4. Lead designer, implementer and evaluator, Cool Campus Challenge, 2015 & 2019: <http://coolcampuschallenge.org>. This is one of the largest and most successful behavior change programs in the country, engaging 22,000 students, staff and faculty at 10 University of California campuses to take and share over 200,000 actions to lower their carbon footprints.
5. Lead designer, implementer and evaluator: CoolCalifornia City Challenge, 2014, 2015 and 2016. This was the first California statewide behavior change program engaging over ten thousand households in two dozen cities in climate action via a software based gamified platform and localized social marketing campaigns.
6. Editor, special issue on Carbon Footprint Analysis in *Energies*, 2021
7. Reviewer (30 manuscripts): *Columbia's Center on Global Energy Policy*, 2021; *Energies*, 2020; *Nature Food*, 2020; *Columbia Center on Global Energy Policy*, 2020; *NPJ Climate and Atmospheric Science*, 2019; *Nature Climate Change*, 2018; *Global Environmental Change*, 2018; *Transportation Policy*, 2018; *Journal of Economic Structures*, 2018; *Environmental Science and Technology*, 2009, 2012, 2014, 2017, 2018; *Sustainability*, 2017, 2018; *Energy Research and Social Science*, 2017; *Nature Climate Change*, 2016; *Computers, Environment & Urban Systems*, 2016; *Environmental Science & Pollution Research*, 2016; *PLOS ONE*: 2015; *Journal of Industrial Ecology*, 2012, 2015; *Environmental Management*, 2014; *Environmental Modeling & Software*, 2014; *Energies*, 2014; *Earth's Future*, 2014; *Environmental Research Letters*, 2012, 2013, 2014; *Resources, Conservation & Recycling*, 2012; *Journal of Cleaner Production*, 2010; *Journal of Infrastructure Systems*, 2007

8. Conference speaker (17): Emerging Technologies Summit, Stanford University 2017; [iSEE Congress 2016: Energy 2030](#); [California Resources Recovery Association 2016](#), 2011; [American Planning Association, California](#) 2015; ASHRAE High Performance Buildings Conference 2015; [Commonwealth Club, 2013](#); [BEHAVE 2014](#); [Behavior, Energy and Climate Change Conference](#), 2010, 2011, 2012; West Coast Forum on Climate Change, 2009, 2012; ISIE 2011; Haagen-Smit Symposium, 2009; [Japanese Universities in the Bay Area Conference, 2009](#); [Sustainable Supply Chain Summit, 2008](#).
9. Conference posters (5): Behavior, Energy and Climate Change, 2007, 2008. California Climate Change Research Conference, 2008; Governor's Summit on Climate Change, 2008, 2009.
10. Guest Lectures (>25): Environmental courses at U.C. Berkeley
11. Project manager of \$1.5M grant from the Gordon and Betty Moore Foundation (2005-2008)
12. Judge, Sustainability Specialist, California Cleantech Open, 2008, 2009
13. Judge, NYU Entrepreneurs Challenge, 2016, 2017
14. Member of technical advisory committees or judge: NYU Entrepreneurs Challenge, 2016, 2017; Nurture Nature Center, 2016; PG&E Commercial Behavioral Advisory Committee, 2015; ICLEI Community Greenhouse Gas Protocol, 2011, 2012; Environmental Defense Fund Climate Justice project, 2009, Climate Earth (2008-present), Oroeco (2012-present), Empowerment Institute (2012-present), California Cleantech Open, 2008, 2009

### Awards & Recognition

1. 1/2008 "25 Brilliant California Ideas", California Magazine, for carbon footprint calculator
2. 4/2002 1st place, A. Lorne Weil Business Plan Competition, Columbia University, for "Este World, Ltd."
3. 4/2001 Finalist, Haas Social Venture Competition, University of California, Berkeley for "Este World, Ltd"
4. 2001-present Work regularly cited in public media including: New York Times, Los Angeles Times, Smart Planet, Discovery Channel News, National Public Radio, Magazine, Wall Street Journal, Discover Magazine, San Francisco Chronicle, San Jose Mercury News, Sacramento Bee, California UNEP, and many others. <http://coolclimate.berkeley.edu/news>

### Professional Development Activities

1/2001 – 8/2002 Co-founder, *Este World Ltd.*, Sustainable Forestry. Belem, Brazil

### Professional Skills

1. Economic and environmental data analysis and modeling (Excel, SPSS)
2. Software programming: R, Javascript, PHP, HTML, CSS
3. Geographic Information Systems (GIS)
4. Environmental Policy Analysis
5. Languages: fluent in Spanish and conversational in Portuguese