

## **OLIVIER DESCHENES**

### **CURRENT APPOINTMENTS**

**University of California, Santa Barbara**  
Professor, Department of Economics July 2016—present

**Bren School of Environmental Science and Management,  
University of California, Santa Barbara**  
Affiliated Appointment July 2008—present

**National Bureau of Economic Research, Cambridge MA**  
Research Associate October 2009—present  
Faculty Research Fellow September 2007—September 2009  
(Program Affiliation: Environmental and Energy Economics)

**Institute of Labor Economics (IZA), Bonn, Germany**  
Research Fellow May 2011—present  
Program Coordinator, Environment, Health, and Labor Markets July 2012—present

**Broom Center for Demography,  
University of California, Santa Barbara**  
Research Associate April 2012—present

**Environmental Markets Lab (emLab),  
University of California, Santa Barbara**  
Co-Director, Energy & Climate Program July 2018—present

### **PAST APPOINTMENTS**

**University of California, Santa Barbara**  
Associate Professor, Department of Economics July 2007— July 2016

**University of California, Santa Barbara**  
Assistant Professor, Department of Economics July 2001—June 2007

**Princeton University**  
Visiting Research Fellow, Industrial Relations Section July 2004—June 2005

**University of California, Berkeley**  
Visiting Scholar, Center for Labor Economics September 2002—December 2002

## FIELDS OF INTEREST

Environmental and Energy Economics, Health Economics, Labor Economics

## CURRENT AREAS OF RESEARCH

Causal analysis in environmental and resource economics; Economic and health impacts of global climate change; Adaptation to climate change; Labor market and environmental implications of energy transition; Health effects of air pollution; Impact of temperature and air pollution on labor markets; Relationship between energy markets and labor markets.

## EDUCATION

Ph.D., Economics, Princeton University, 2001

M.A., Economics, University of Montreal, 1996

B.A., Economics, University of Montreal, 1995

## PUBLICATIONS

The Private and External Costs of Germany's Nuclear Phase-Out (with S. Jarvis and A. Jha), **Journal of the European Economic Association**, June 2022, 20(3): pp. 1311–1346.

<https://doi.org/10.1093/jeea/jvac007>

Assessing the Population Level Conservation Effects of Marine Protected Areas (with D. Ovando et al.) **Conservation Biology**, June 2021, 35(3): pp. 1-10. <https://doi.org/10.1111/cobi.13782>

The Long and Narrow Path for Novel Cell-Based Seafood to Reduce Fishing Pressure for Marine Ecosystem Recovery (with B. Halpern et al.), **Fish and Fisheries**, February 2021; 22: pp. 652– 664.

<https://doi.org/10.1111/faf.12541>

Social Distancing Responses to COVID-19 Emergency Declarations Strongly Differentiated by Income (with J. Weill, M. Springborn, and M. Stigler), **Proceedings of the National Academy of Sciences**, July 2020, 202009412. <https://doi.org/10.1073/pnas.2009412117>

The Effect of Air Pollution on Body Weight and Obesity: Evidence from China (with H. Wang, S. Wang, and P. Zhang), **Journal of Development Economics**, Volume 145, 2020

<https://doi.org/10.1016/j.jdeveco.2020.102461>

The Economic Impacts of Natural Disasters: A Review of Models and Empirical Studies (with W. Botzen and M. Sanders), **Review of Environmental Economics and Policy**, Volume 13, 2019, pp. 167–188 <https://doi.org/10.1093/reep/rez004>

Quasi-Experimental Methods in Environmental Economics: Opportunities and Challenges (with K. Meng), **Handbook of Environmental Economics**, Volume 4, 2018, pp. 285-328.

<https://doi.org/10.1016/bs.hesenv.2018.08.001>

Maybe Next Month? Temperature Shocks, Climate Change, and Dynamic Adjustments in Birth Rates (with A. Barreca, and M. Guldi), **Demography**, August 2018, Volume 55, pp. 1269-1293 <https://doi.org/10.1007/s13524-018-0690-7>

A Forward-Looking Ricardian Approach: Do Land Markets Capitalize Climate Change Forecasts? (with C. Severen and C. Costello), **Journal of Environmental Economics and Management**, May 2018, Volume 89, Number 3, pp. 235-254. <https://doi.org/10.1016/j.jeem.2018.03.009>

Temperature Effects on Productivity and Factor Reallocation: Evidence from a Half Million Chinese Manufacturing Plants (with P. Zhang, K. Meng, and J. Zhang), **Journal of Environmental Economics and Management**, March 2018, Volume 88, Number 3, pp. 1-17. <https://doi.org/10.1016/j.jeem.2017.11.001>

Defensive Investments and the Demand for Air Quality: Evidence from the NO<sub>x</sub> Budget Program (with M. Greenstone and J. Shapiro), **American Economic Review**, October 2017, Volume 107, Number 10, pp. 2958-89. <https://doi.org/10.1257/aer.20131002>

Agricultural Pesticide Use and Adverse Birth Outcomes in the San Joaquin Valley of California (with S. Gaines and A. Larsen), **Nature Communications**, 2017, 8(302), pp. 1-14. <https://doi.org/10.1038/s41467-017-00349-2>

Economic Considerations: Cost-Effective and Efficient Climate Policies (with M. Auffhammer, C. Lin Lawell, J. Bushnell, and J. Zhang), in Veerabhadran “Ram” Ramanathan (Ed.), *Bending the Curve: Ten Scalable Solutions for Carbon Neutrality and Climate Stability*. **Collabra**, December 2016, Volume 2, Number 1, Article 18, pp. 1-14

Children and Climate Change: Introducing the Issue (with J. Currie), **Future of Children**, Spring 2016, Volume 26, Number 1, pp. 3-9

Adapting to Climate Change: The Remarkable Decline in the U.S. Temperature-Mortality Relationship over the 20th Century (with A. Barreca, K. Clay, M. Greenstone, and J. Shapiro), **Journal of Political Economy**, February 2016, Volume 124, Number 1, pp. 105-159. <https://doi.org/10.1086/684582>

Spatiotemporal Variation in the Relationship Between Landscape Simplification and Insecticide Use (with S. Gaines and A. Larsen), **Ecological Applications**, October 2015, Volume 25, Issue 7, pp. 1976–1983 <https://doi.org/10.1890/14-1283.1>

Convergence in Adaptation to Climate Change: Evidence from High Temperatures and Mortality, 1900-2004 (with A. Barreca, K. Clay, M. Greenstone, and J. Shapiro), **American Economic Review, Papers and Proceedings**, May 2015, Volume 105, Number 5, pp. 247-251 <https://doi.org/10.1257/aer.p20151028>

Green Jobs, in **International Encyclopedia of the Social and Behavioral Sciences**, 2nd edition, edited by James D. Wright, 2015, pp. 372-378

Temperature, Human Health, and Adaptation: A Review of the Empirical Literature, **Energy Economics**, November 2014, Volume 46, pp. 606-619 <https://doi.org/10.1016/j.eneco.2013.10.013>

Environmental Regulations and Labor Markets, **IZA World of Labor**, July 2014  
<https://doi.org/10.15185/izawol.22.v2>

Removing Biases in Forecasts of Fishery Status (with C. Costello, S. Gaines, and A. Larsen), **Journal of Bioeconomics**, July 2014, Volume 16, Number 2, pp. 213-219  
<https://doi.org/10.1007/s10818-013-9158-4>

The Economic Impacts of Climate Change: Evidence from Agricultural Profits and Random Fluctuations in Weather: Reply (with M. Greenstone), **American Economic Review**, December 2012, Volume 102, Number 7, pp. 3761-3773 <http://dx.doi.org/10.1257/aer.102.73761>

Status and Solutions for the World's Unassessed Fisheries (with C. Costello, D. Ovando, R. Hilborn, S. Gaines, and S. Lester), **Science**, October 26 2012, 338, 517-520  
<https://doi.org/10.1126/science.1223389>

Climate Policy and Labor Markets, in **The Design and Implementation of U.S. Climate Policy**, Edited by Don Fullerton and Catherine Wolfram, University of Chicago Press, 2012

Using Panel Data Models to Estimate the Economic Impacts of Climate Change on Agriculture (with M. Greenstone), in **Handbook on Climate Change and Agriculture**, Edited by Ariel Dinar and Robert Mendelsohn, Edward Elgar Publishing, 2011

Economic Impacts of Climate Change on California Agriculture (with C. Kolstad), **Climatic Change**, December 2011, 109, 365-386 <https://doi.org/10.1007/s10584-011-0322-3>

Climate Change, Mortality, and Adaptation: Evidence from Annual Fluctuations in Weather in the U.S. (with M. Greenstone), **American Economic Journal: Applied Economics**, October 2011, 3(4): 152-185 <https://doi.org/10.1257/app.3.4.152>

Extreme Weather Events, Mortality and Migration (with E. Moretti), **Review of Economics and Statistics**, November 2009, 91(4): 659-681 <https://doi.org/10.1162/rest.91.4.659>

Climate Change and Birth Weight (with M. Greenstone and J. Guryan), **American Economic Review, Papers and Proceedings**, May 2009, 99(2): 211-217  
<https://doi.org/10.1257/aer.99.2.211>

Estimating the Effect of Family Background on the Returns to Schooling, **Journal of Business and Economic Statistics**, July 2007, Volume 25, Number 3, pp. 265-277  
<https://doi.org/10.1198/073500106000000567>

The Economic Impacts of Climate Change: Evidence from Agricultural Profits and Random Fluctuations in Weather (with M. Greenstone), **American Economic Review**, March 2007, Volume 97, Number 1, pp. 354-385 <https://doi.org/10.1257/aer.97.1.354>

The Long-Term Impact of Military Service on Health: Evidence from World War II and Korea Veterans (with K. Bedard), **American Economic Review**, March 2006, Volume 96, Number 1, pp. 176-194 <https://doi.org/10.1257/000282806776157731>

Sex Preferences, Marital Dissolution and the Economic Status of Women (with K. Bedard), **Journal of Human Resources**, Spring 2005, Volume 40, Number 2, pp. 411-434

Do Unemployment Insurance Claimants Actively Seek Work? Evidence from Randomized Trial in Four U.S. States (with O. Ashenfelter and D. Ashmore), **Journal of Econometrics**, October 2005, Volume 125, Number 1, pp. 53-75. <https://doi.org/10.1016/j.jeconom.2004.04.003>

## **EDITED VOLUMES**

Children and Climate Change, **The Future of Children**, published by Princeton University and Brookings Institute, Washington D.C., Spring 2016, edited with Janet Currie

## **REPORTS**

Enhancing Equity While Eliminating Emissions in California's Supply of Transportation Fuels, April 2021, Report Prepared for the California Environmental Protection Agency (with R. Deshmukh, D. Lea, K. Meng, P. Weber et al.)

Economic Impacts of Climate Change on California Agriculture, October 2008, Report Prepared for the California Energy Commission and the California Environmental Protection Agency (with C. Costello and C. Kolstad)

## **AWARDS AND HONORS**

Excellence in Refereeing Award, *American Economic Review*, 2018

Albert Rees Prize for Outstanding Dissertation in Labor Economics, Princeton University, 2007

Bill Garlock Faculty Fellow in Economics, UCSB, 2001-2005

W.E. Upjohn Institute Dissertation Award, First-Prize Winner, 2002

Industrial Relations Section Fellowship, Princeton University, 1996-2000

Social Sciences and Humanities Research Council Graduate Fellowship, 1996-2000

## **RESEARCH GRANTS**

Sloan Foundation, Grant Number G-2020-13958, “Labor Market Implications of Renewable Energy Policies,” September 2020 – December 2021

UCSB Academic Senate Grant, 2020-2021

California Environment Protection Agency, Grant Number 19EPA017, “AB 74 Study: Demand and Supply of Fossil Fuels,” March 2020 – March 2022 (with R. Deshmukh, D. Lea, and K. Meng)

Oceankind “Economic and Environmental Implications of Clean Seafood Proposal,” May 2019 – September 2021 (with C. Costello, H. Froehlich, and B. Halpern)

UCSB Academic Senate Grant, 2016-2017

UCSB Academic Senate Grant, 2012-2013

UCE3 Mini-Grant, 2012

National Institutes of Health / National Institute of Environmental Health Sciences, Grant Number R21ES019375, “Using Medication Purchases to Measure the Health Consequences of Air Pollution”, July 2010 – July 2013 (with M. Greenstone and J. Shapiro)

UCSB Academic Senate Grant, 2008-2009

IBSER Grant, University of California, Santa Barbara, 2008-2009

CalEPA PIER Scripps Grant, 2007-2008 (with C. Costello and C. Kolstad)

UCSB Academic Senate Grant, 2006-2007

IBSER Grant, University of California, Santa Barbara, 2005-2006

UCSB Academic Senate Grant, 2003-2004

IBSER Grant, University of California, Santa Barbara, 2002-2003

## **TEACHING EXPERIENCE**

Econometric Theory (Ph.D. Level), Applied Econometrics (Ph.D. Level), Economics and Climate Change (Undergraduate) Econometrics (Undergraduate, 2 classes), Econometrics (Master Level, 1 class), Intermediate Microeconomics (Undergraduate, 1 class), Labor Economics (Undergraduate, 2 classes)

## **DISSERTATION ADVISEES**

Belinda Acuna (2009), Shamlan Albahar (2019), Drew Benkhe (2017)\*, Ernest Boffy-Ramirez (2013), Brianna Briggs (2008), Serena Canaan (2016), Insook Cho (2008), Jeffrey Cross (2021)\*, Karin Donhowe (2016), Christopher Erb (2009), Christopher Goodwin (2015), Benjamin Hansen (2009), Juliana Helo (2020), Doug Herman (2006), Bree Jones (2010), Katherine Kimble (2013), Matt Lang (2010), Ashley Larson (2015), Bryan Leonard (2016), Corey Lott (2017)\*, Fernando Lozano (2005), Hani Mansour (2009), Levi Marks (2019)\*, Steve Miller (2015), Jennifer Milosch (2014), Renato Molina (2018), Trevor O’Grady (2013), Ashwin Rode (2014), Sahani Saha (2007), Christopher Severen (2017)\*, Damien Sheehan-Connor (2008), Sahaab Bader Sheikh (2020)\*,

Patricia Silva (2006), Corey White (2017)\*, Matthew Wibbenmeyer (2018), Di Wang (2021)\*, Allison Witman (2014), Peng Zhang (2016)\*.

\* Chaired or co-chaired committees.

## **PROFESSIONAL ACTIVITIES**

### **EDITORIAL ACTIVITIES**

Co-Editor, Resource and Energy Economics, 2020—present  
Associate Subject Editor, IZA World of Labor, 2015—present  
Associate Editor, Asian Development Review, 2018-2019  
Editorial Advisor, Canadian Journal of Economics, 2008-2010

### **INVITED SEMINARS**

Department of Economics, Vanderbilt University, April 2022  
Department of Economics, Arizona State University, April 2022  
AMSE Lecture, Aix-Marseille School of Economics, Marseille, France, December 2021  
Center for Environmental Economics, University of Montpellier, France, December 2021  
University of California, Los Angeles, Luskin School of Public Affairs, May 2021  
University of California, Santa Barbara, Bren School of Environmental Management, May 2020  
Paris AgroTech, France, October 2019  
Laboratoire BETA, France, October 2019  
Regensburg University, Germany, May 2019  
University of Texas-Austin, April 2019  
University of Wyoming, April 2019  
University of Connecticut, September 2018  
University of Verona, April 2018  
Hong Kong Polytechnic University, March 2018  
Toulouse School of Economics, September 2017  
VU University Amsterdam, Tinbergen Institute Seminar, June 2017  
London School of Economics, Grantham Research Institute Seminar, June 2017  
Oxford University, Oxford Centre for the Analysis of Resource Rich Economies (OxCarre) Seminar, June 2017  
Princeton University, Joint Science, Technology and Environmental Policy Program & Industrial Relations Section Seminar, April 2017  
University of Oklahoma, Department of Economics, March 2017  
University of Illinois, Urbana-Champaign, College of Business, October 2016  
Cornell University, Dyson School of Applied Economics and Management, May 2016  
Case Western Reserve University, Department of Economics, November 2015  
National University of Singapore, Business School, October 2015  
Simon Fraser University, Department of Economics, October 2014  
Resources for the Future, May 2014  
University of California Berkeley, Agricultural and Resource Economics, March 2014  
University of Arizona, Department of Economics, December 2013

Harris School of Public Policy, University of Chicago, October 2013  
Institute for the Study of Labor (IZA), Bonn, Germany, September 2013  
National University of Singapore, Business School, July 2013  
Université de Montpellier, France, Centre LAMETA, June 2013  
Claremont McKenna College, Department of Economics, May 2013  
University of California San Diego, Department of Economics, March 2013  
University of Southern California, Department of Economics, February 2013  
Cal State Polytechnic Institute, San Luis Obispo, Department of Economics, February 2012  
University of Washington, Department of Economics, October 2011  
National Institute of Environmental Health and Sciences, RTP NC, April 2011  
Clemson University, Department of Economics, February 2011  
Columbia University, Sustainable Development Seminar Series, December 2010  
University of California Davis, Department of Economics, October 2010  
Tilburg University, Department of Economics, November 2009  
Tulane University, Department of Economics, September 2009  
Rand Corporation, Santa Monica, April 2009  
Georgetown University, Public Policy Institute, November 2008  
HEC Montreal, Institute for Applied Economics, September 2008  
University of California, Santa Barbara, Bren School of Environmental Management, May 2008  
Tufts University, The Fletcher School, January 2008  
University of California, Santa Barbara, Department of Geography, May 2007  
University of California, Los Angeles, Department of Economics, March 2007  
Wharton School, University of Pennsylvania, December 2006  
University of California, Berkeley, Center For Labor Economics Lunch, January 2006  
University of California, Santa Cruz, Department of Economics, December 2005  
University of California, Davis, Department of Economics, November 2005  
University of Texas, Austin, Department of Economics, April 2005  
Columbia University, Department of Economics, December 2004  
Princeton University, Department of Economics, November 2004  
Cornell University, Department of Economics, October 2004  
University of Illinois at Urbana-Champaign, Department of Economics, October 2004  
Institute for the Study of Labor (IZA), Bonn, Germany, April 2004  
Claremont McKenna College, Department of Economics, December 2003  
University of California, Berkeley, Center For Labor Economics Lunch, October 2003  
McGill University, Department of Economics, September 2003  
Massachusetts Institute of Technology, Department of Economics, April 2003  
Stanford University, Department of Economics, March 2003  
University of British Columbia, Department of Economics, October 2002  
University of California, Berkeley, Department of Economics, February 2002  
University of California, Santa Barbara, Department of Economics, February 2001  
University of Toronto, Department of Economics, January 2001  
Cornell University, Department of Economics, January 2001  
Rochester University, Department of Economics, January 2001



University College London, Department of Economics, January 2001  
University of Montreal, Department of Economics, January 2001  
University of Quebec at Montreal, Department of Economics, January 2001  
HEC Montreal, Institute for Applied Economics, January 2001  
University of Illinois at Urbana-Champaign, Department of Economics, December 2000  
Princeton University, Department of Economics, October 2000

## **INVITED LECTURES**

University of Verona, “Quasi-Experimental Methods in Environmental Economics,” April 2018  
Hong Kong Polytechnic University, “Quasi-Experimental Methods in Environmental Economics,”  
March 2018  
National University of Singapore, “Theoretical and Empirical Issues in Measuring the Welfare  
Effects of Environmental Pollution Using Health Outcomes,” October 2015  
University of California Center for Environmental and Energy Economics Summer School, “Labor,  
Health, and Environmental Quality,” August 2012

## **CONFERENCE PRESENTATIONS**

Canadian Economic Association Meetings, 2021, Vancouver (virtual) (**State of the Art Lecture**)  
Seoul Workshop on Energy Economics 2019 – Seoul, South Korea (**Keynote Speaker**)  
Essen Health Conference 2018 - Health and Environment, Essen, Germany (**Keynote Speaker**)  
Winter Meeting of French Association of Environmental and Resource Economists (FAERE), Paris,  
France, December 2017 (**Keynote Speaker**)  
Asian Development Bank Conference on The Climate Change Challenge to Development in Asia,  
Seoul, South Korea, August 2017  
Twenty Fourth Annual Conference on Environmental Economics, Ulvön, Sweden, June 2017  
(**Keynote Speaker**)  
SEEPAC Research Workshop: Advances in Estimating Economic Effects from Climate Change  
Using Weather Observations, Stanford University, May 2017  
Fourth Annual Economics of Low-Carbon Markets Workshop, University of São Paulo, Brazil,  
December 2016 (**Keynote Speaker**)  
EAERE Annual Conference, Zurich, Switzerland, June 2016  
AERE Summer Conference, Breckenbridge CO, June 2016  
ASSA Meetings, Boston MA, January 2015  
Institute for International Economic Studies Conference on Climate and the Economy, Stockholm  
Sweden, September 2012  
NBER Conference on Integrated Assessment Modeling, Cambridge MA, May 2012  
UCSB/ARB AB32 Workshop on Measuring the Economic Impacts of Cap-and-Trade Regulation,  
Santa Barbara April 2012  
UCSD Workshop on Human Capital and the Environment, San Diego, January 2012  
IZA Workshop on Environment and Labor, Bonn, Germany, December 2011  
UCSB Workshop on Environmental Economics and Development, December 2010  
Fourth World Congress of Environmental and Resource Economists, Montreal, Canada, July 2010  
NBER Conference on Design and Implementation of Climate Policy, Washington D.C., May 2010

NBER, Labor Studies and Energy and Environmental Economics Joint Spring Meeting, April 2009  
ASSA Meetings, San Francisco, January 2009  
Association of Environmental and Resource Economists Annual Meetings, Berkeley CA, June 2008  
Ninth Occasional California Workshop on Environmental and Resource Economics, Bren School,  
University of California Santa Barbara, November 2009  
Society of Labor Economists Meetings, Cambridge MA, May 2006  
Eight Occasional California Workshop on Environmental and Resource Economics, Bren School,  
University of California Santa Barbara, October 2003  
European Econometric Society Meetings, Venice, Italy, August 2002

### **CONFERENCE DISCUSSIONS**

ASSA Meetings, Virtual, January 2022  
ASSA Meetings, San Diego, January 2020  
ASSA Meetings, San Francisco, January 2016  
ASSA Meetings, San Diego, January 2013  
NBER EEE Spring Meetings, Cambridge MA, March 2012  
ASSA Meetings, Chicago, January 2012  
ASSA Meetings, Denver, January 2011  
NBER Conference on Design and Implementation of Climate Policy, Washington D.C., May 2010  
NBER Climate Change: Past and Present Conference, May 2009  
ASSA Meetings, Chicago, January 2007  
SOLE Meetings, Toronto, September 2003

### **CONFERENCE ORGANIZATION**

Co-organizer, Annual IZA Workshops on Environment and Labor Markets, IZA Bonn, Germany,  
Annually, 2013-2022 (with N. Pestel)  
Co-organizer, 17th California Occasional Workshop on Environmental and Resource Economics,  
November 2018 (with K. Meng)  
Co-organizer, 12th California Occasional Workshop on Environmental and Resource Economics,  
October 2010 (with C. Kolstad)  
Co-organizer, NBER Spring Meeting, Cambridge MA, April 2009 (with D. Fullerton)  
Co-organizer, Conference on “Quasi-Experimental Methods in Health Economics,” Santa Barbara,  
March 2007 (with D. Steigerwald)  
Co-organizer, Conference on “Spatial & Social Interactions in Economics,” Santa Barbara, April  
2003, (with P. Kuhn)

### **UNIVERSITY SERVICE**

Member, UC Global Climate Leadership Council Applied Research Working Group (ARWG),  
2020—present  
Member, UCSB Committee on Committee, 2017-2019  
Member, ISBER Advisory Committee, 2016-2019  
Member, UCSB Graduate Council, 2014-2016

Co-Associate Director, University of California Center for Energy and Environmental Economics (UCE3), September 2009—2014

Director of Graduate Studies, Department of Economics, 2010-2013

Member, Faculty Search Committee, Bren School of Environmental Science and Management, 2008, 2010, 2011, 2013, 2017

Member, Junior Faculty Search Committee, 2001-2004, 2007-2008, 2015, 2016, 2017

Member, Graduate Committee, 2007-2008

Placement Director, 2007-2008

Departmental Speaker, UCSB Affiliates Economic Forum, September 2007

August 2022