

MAXIMILIAN AUFFHAMMER

CONTACT INFORMATION

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PERSONAL

Marital Status: Married to Lori Gordon Auffhammer
Date of Birth: July 23, 1973

EDUCATION

PH.D., ECONOMICS, UNIVERSITY OF CALIFORNIA SAN DIEGO (June 2003)
M.S., RESOURCE ECONOMICS, UNIVERSITY OF MASSACHUSETTS, AMHERST (August 1998)
B.S., ENVIRONMENTAL SCIENCES, UNIVERSITY OF MASSACHUSETTS, AMHERST (July 1996)

ACADEMIC POSITIONS

George M. Pardee Jr. Family Chair in International Sustainable Development (2013 - Present)
Associate Dean, Division of Social Sciences (2015 - Present)
Director, Global Studies Teaching Program (2016 - Present)
Professor, UC Berkeley ARE/IAS (July 2014 - Present)
Associate Professor, UC Berkeley ARE/IAS (July 2009 - June 2014)
Assistant Professor, UC Berkeley ARE/IAS (July 2003 - June 2009)
Director International Area Studies Academic Programs, UC Berkeley (2010 - 2015)
Interim Chair of Political Economy, UC Berkeley (2012, 2014 - Present)
Vice Chair of Political Economy, UC (2006 - 2012)
Affiliate Faculty, Energy and Resources Group, UC Berkeley (2008 - Present)
Executive Committee Member, Energy and Resources Group, UC Berkeley (2011 - 2014)
Associate Director UC Center on Environmental and Energy Economics (2009 - Present)
Faculty Affiliate, Energy Institute at Haas, (2005 - Present)
Faculty Affiliate, E2e: Evidence for Action on Energy Efficiency, (2013-Present)

AFFILIATIONS AND NON-ACADEMIC POSITIONS

Research Associate, National Bureau of Economic Research (2011 - Present)
Fellow, CESifo (January 2011 -Present)
Member, AURÖ Verein für Sozialpolitik (2011 - Present)
Fellow, Alexander von Humboldt Foundation (January - June 2011)
External Academic Advisor, The Brattle Group (2011 - Present)
Lead Author, Intergovernmental Panel on Climate Change, AR5 WGII (2010 - 2014)
Visiting Scholar, Potsdam Institut fuer Klimafolgenforschung (PIK) (January - June 2011)
Visiting Scholar, CESifo Munich (September 2010 - Jan 2011)
Faculty Research Fellow, National Bureau of Economic Research (2010 - 2011)

PROFESSIONAL ACTIVITIES

Energy Institute @ Haas - Founder of Summer School in Env. & Energy Economics. (2011 - Present)
National Academies of Sciences - Member of Expert Panel on the Social Cost of Carbon. (2015 - Present)
American Statistical Association - Chair Energy Statistics Adv. Committee to DOE/EIA. (2014 - Present)
California Air Resources Board - Member Climate Scoping Plan Committee. (2016 - Present)
California Energy Commission - Transportation Forecasting Review Panel. (2016 - Present)
Co-Editor - Journal of the Association of Environmental and Resource Economists (2013 - 2015)
Associate Editor - American Journal of Agricultural Economics (2011 - 2015)
Member of Editorial Board - Journal of Environmental Economics and Management (2010 - Present)
American Statistical Association - Energy Statistics Advisory Committee to the DOE/EIA. (2011 - Present)
American Statistical Association - DOE/EIA Subcommittee on Energy Surveys. (2012 - 2014)
AAEA - Member of Outstanding Dissertation Selection Committee (2010 - 2015)
AERE - Executive Board Member. (2013 - 2015)

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AERE - Co-Chair (with Laura O. Taylor) of the inaugural AERE Annual Conference. Seattle (2011).
AERE - Program Coordinator 2nd Worldcongress of Environmental & Resource Economists (2001 - 02)
McKinsey & Company. Summer Associate - Financial Institutions Group. June - Sept. 2001 and 2002.
Militzer & Münch International Forwarders . Logistics Management Associate (June '92 - August '93)

UNIVERSITY SERVICE

UC Berkeley, Advising Council - Executive Committee. (2016 - Present)
UC Berkeley, Committee on Educational Policy - Chair. (2016 - Present)
UC Berkeley, Committee on Educational Policy - Vice Chair. (2014-2016)
UC Berkeley, Institute for International Studies - Executive Committee. (2011-Present)
UC Berkeley, Institute of East Asian Studies - Executive Committee. (2013-2015)
UC Berkeley, Global Studies Curriculum Committee (2015-2016)
UC Berkeley, Many many review committees (2003-Present)
UC Berkeley, Many many hiring committees (2003-Present)
UC Berkeley, Many many hiring committees (2003-Present)
UC Berkeley, ARE Placement Committee (2003-Present)
UC Berkeley, ARE Graduate Admissions Committee (2014-15)

PEER REVIEWED PAPERS

- [A38] *Linking local impacts to changes in climate: a guide to attribution*. 2016. (w/ G. Hansen, D. Stone, C. Huggel and W. Cramer) *Regional Environmental Change* 16(2): 527-541.
- [A37] *US power plant sites at risk of future sea-level rise*. 2015. (w/ R. Bierkandt and A Levermann). *Environmental Research Letters*. 10(12)124022: 1-5.
- [A36] *Chinas Carbon Emissions from fossil fuels and market based opportunities for control*. 2015. (w/ Y. Gong) *Annual Review of Resource Economics* 7: 11-34.
- [A35] *Specification and Estimation of the Transfer Function in Dendroclimatological Reconstructions*. 2015. (w/ Bo Li, Brian Wright and Seung-Jick Yoo) *Environmental and Ecological Statistics*. 22(1): 105-126.
- [A34] *On the Attribution of a Single Event to Climate Change*. 2014. (w/Gerrit Hansen and Andrew A. Solow) *Journal of Climate*. 27: 8297-8301
- [A33] *Measuring Climatic Impacts on Energy Expenditures: A Review of the Empirical Literature*. 2014. (w/ Erin Mansur) *Energy Economics*. 46: 522-530.
- [A32] *Detection and attribution of observed impacts*. In: *Climate Change 2014: Impacts, Adaptation, and Vulnerability. Fifth Assessment Report of the Intergovernmental Panel on Climate Change Working Group II*. 2014. (w/ Cramer, Wolfgang, Gary Yohe, Christian Huggel, Ulf Molau, Maria Assuno Faus da Silva Dias, Andrew Solow, Dith Stone, Lourdes Tibig.) Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, pp. 979-1037.
- [A31] *Land Markets and the Value of Water: Hedonic Analysis Using Repeat Sales of Farmland*. 2014. (w/Steven Buck and David Sunding). *American Journal of Agricultural Economics*: 96(4): 953-969.
- [A30] *Powering up China: Uncovering the Drivers of Domestic Electricity Consumption*. 2014 (w/ Catherine Wolfram) *American Economic Review: Papers and Proceedings*: 104(5): 575-80.
- [A29] *Cooling China: The Weather Dependence of Air Conditioner Adoption*. 2014. *Frontiers of Economics in China*: 9(1): 70-84.
- [A28] *Its not just the statistical model. A comment on Seo*. 2013 (w/ Wolfram Schlenker). *Climatic Change* 121(2): 125-128.
- [A27] *The challenge to detect and attribute effects of climate change on human and natural systems*. 2013. (w/ Daithi Stone, Maximilian Auffhammer, Mark Carey, Gerrit Hansen, Christian Huggel, Wolfgang Cramer, David Lobell, Ulf Molau, Andrew Solow, Lourdes Tibig, Gary Yohe.) *Climatic Change*: 121(2): 381-395.

- [A26] ***Loss and damage attribution.*** 2013. (w/ Christian Huggel, Daithi Stone, Maximilian Auffhammer and Gerrit Hansen.) *Nature Climate Change* . 3: 694 - 696.
- [A25] ***Global Climate Models: A User Guide for Economists.*** 2013. (w/ S. Hsiang, W. Schlenker and A. Sobel.) *Review of Environmental Economics and Policy*: 7(2): 181-198.
- [A24] ***Pounds That Kill: The External Costs of Vehicle Weight.*** 2014. (with M. Anderson). *Review of Economic Studies*: 109(30): 11973-11974.
- [A23] ***Grand Challenges for Life-Cycle Assessment of Biofuels.*** forthcoming. (w/ T. McKone, W. Nazaroff, P. Berck, T. Lipman, M. Torn, E. Masanet, A. Lobscheid, N. Santero, U. Mishra, A. Barrett, M. Bomberg, K. Fingerhahn, C. Scown, B. Strogon, A. Horvath). *Environmental Science and Technology*. 45(5): 17511756.
- [A22] ***Consequences of Data Error in Aggregate Indicators - Evidence from the Human Development Index.*** 2011. (w/ H. Chong and H. Wolff). *Economic Journal*. Vol. 121(553) pp.843-870.
- [A21] ***Clearing the Air? The Effects of Gasoline Content Regulation on Air Quality.*** 2011. (w/ R. Kellogg). *American Economic Review*. 101(6): 2687-2722.
- [A20] ***Forecasting the Path of US CO₂ Emissions Using State-Level Information.*** 2012. (w/ R. Steinhilber). *Review of Economics and Statistics*. 94, No. 1: 172185.
- [A19] ***The Impacts of State Level Building Codes on Residential Electricity Consumption.*** 2012. (with A. Aroonruengsawat and A. Sanstad). *Energy Journal*. 33(1): 31-52
- [A18] ***Observation-based evidence that climate change has reduced Indian rice harvests.*** 2012.(with V. Ramanathan and J. Vincent). *Climatic Change*. 111(2):411-424.
- [A17] ***Simulating the Impacts of Climate Change, Prices and Population on California's Residential Electricity Consumption.*** 2012. (w/ A. Aroonruengsawat). *Climatic Change*. 109(S1): 191-210.
- [A16] ***Farm Acreage Shocks and Food Prices: An SVAR Approach to Understanding the Impacts of Biofuels.*** 2012. (with C. Hausman and P. Berck). *Environmental and Resource Economics*. 53(1): 117-136.
- [A15] ***Unobserved time effects confound the identification of climate change impacts.*** 2012. (w/ J. Vincent). *Proceedings of the National Academy of Sciences*. 109(30): 11973-11974.
- [A14] ***Rice yields in tropical/subtropical Asia exhibit large but opposing sensitivities to minimum and maximum temperatures.*** 2010. (with J. Welch, J. Vincent, P. Moya, A. Dobermann, and D. Dawe). *Proceedings of the National Academies of Sciences*.107(33): 14562-14567.
- [A13] ***An integrated framework for quantifying and valuing climate change impacts on urban energy and infrastructure: A Chicago case study.*** 2010. (with K. Hayhoe, M. Robson, J. Rogula, N. Miller, J. VanDorn, D. Wuebbles). *Journal of Great Lakes Research*. 36): 94-105.
- [A12] ***The Field of Environmental and Resource Economics: A Google Scholar Perspective.*** 2009. *Review of Environmental Economics and Policy*. 3: 251-269.
- [A11] ***Delegation of Power, Lobby Formation and the Implementation of the 1990 Clean Air Act Amendments.*** 2011. (w/ A. Bento and S. Lowe). *Land Economics*. 87(1): 1-18.
- [A10] ***Measuring the Effects of the Clean Air Act Amendments on Ambient PM₁₀ Concentrations: The critical importance of a spatially disaggregated analysis.*** (w/ A. Bento and S. Lowe). 2009. *Journal of Environmental Economics and Management*. 58(1): 15-26.
- [A9] ***Exploring the Number of First Order Political Subdivisions Across Countries: Some Stylized Facts.*** (w/ R.T. Carson. 2009. *Journal of Regional Science*. 42(2): 243-261.
- [A8] ***Demand Side Management and Energy Efficiency Revisited.*** (w/ C. Blumstein and M. Fowlie). 2008. *The Energy Journal*. 29(3): 91-104.
- [A7] ***Forecasting The Path of China's CO₂ Emissions Using Province Level Information.*** (w/ R.T. Carson). 2008. *Journal of Environmental Economics and Management*. 47(1): 47-62.

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- [A6] *Statistical Models for Measuring the Impacts of ABCs on Agriculture in Asia.* (w/ J. Vincent). *Atmospheric Brown Clouds Regional Climate Change and Agriculture Impacts: First Assessment Report.* United Nations Environment Programme: Nairobi, Kenya.
- [A5] *Climate, Extreme Heat and Energy Demand in California.* (w/ N. Miller, K. Hayhoe, J. Jin). 2008. *Journal of Applied Climatology and Meteorology.* 47: 1834-44
- [A4] *Integrated model shows that atmospheric brown clouds and greenhouse gases have reduced rice harvests in India.* (with V. Ramanathan and J. Vincent). 2006. *Proceedings of the National Academies of Sciences.* 103: 19668-19672.
- [A3] *The Rationality of EIA Forecasts under Symmetric and Asymmetric Loss.* 2007. *Resource and Energy Economics.* 29(2): 102-121
- [A2] *Forecasting US CO₂ Emissions. The role of spatial information* (w/ R. Steihauser). 2007. *Journal of Regional Science.* 47(1): 47-62.
- [A1] *Production of Chlorofluorocarbons in Anticipation of the Montreal Protocol.* (w/ B. Morzuch and J. Stranlund). 2005. *Environmental and Resource Economics.* 30: 377-391.

BOOK REVIEWS & COMMENTARIES

- [B7] *Books.* 2014. *Environmental and Natural Resource Economics: An Encyclopedia.* Greenwood Publishers.
- [B6] *Energy and Environmental Policy in China: Towards a Low-Carbon Economy by Zhongxiang Zhang.* 2014. *The Energy Journal.* 35(3)
- [B5] *Climate Change and Common Sense: Essays in Honour of Tom Schelling.* 2013. *Journal of Economic Literature.* 51(2) 571-572.
- [B4] *The Hidden Costs of Energy..* 2011. *Environmental Health Perspectives. National Institutes of Health.* 119(3): A138
- [B3] *Weather Dilemma for African Maize.* 2011. *Nature: Climate Change.* 1: 27-28.
- [B2] *Economic Impacts of Climate Change.* 2008. *Encyclopedia of Global Warming and Climate Change.* Russell Sage.
- [B1] *The Montreal Protocol.* 2007. *Encyclopedia of the Environment.* Russell Sage Press.

BOOK CHAPTERS AND NON-REFEREED PUBLICATIONS

- [C7] *Executive Summary of the Report, Bending the Curve: 10 scalable solutions for carbon neutrality and climate stability.* (with Veerabhadran Ramanathan, Juliann E. Allison, Maximilian Auffhammer, David Auston, Anthony D. Barnosky, Lifang Chiang, William D. Collins, Steven J. Davis, Fonna Forman, Susanna B. Hecht, Daniel Kammen, C.-Y. Cynthia Lin Lawell, Teenie Matlock, Daniel Press, Douglas Rotman, Scott Samuelsen, Gina Solomon, David G. Victor, Byron Washom). 2015. *University of California* October 27, 2015.
- [C6] *Pounds That Kill.* (with M. Anderson). 2014. *Access Magazine* 45(Fall).
- [C5] *Energy Efficiency in the Residential and Commercial Sectors. Toward a New National Energy Policy: Assessing the Options.* (with A. Sanstad). 2011. *Resources for the Future.*
- [C4] *Improving Air Quality by Reformulating Gasoline: How California Got It Right.* (w/ Ryan Kellogg). 2010. ARE Update. Volume 13, Number 5.
- [C3] *Is Dust Busting Crop Yields?* 2006. ARE Update. Volume 10, Number 1.
- [C2] *Forming Coalitions for Cleaner Air.* 2005. ARE Update. Volume 8, Number 4.
- [C1] *China, Cars and Carbon.* 2004. ARE Update. Volume 7, Number 3.

POPULAR WRITING

- [C1] *China's Chance to lead.* (with R.T. Carson). 2007. *Washington Post.* August 2.

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GRANTS

- National Science Foundation *NSF Research Traineeship: Environment and Society: Data Science for the 21st Century (DS421)*. Co-PI. \$2,998,185
- USDA National Institute for Food and Agriculture *Assessing Benefits, Costs and Trade-Offs of Biologically-Diversified Farming Systems in California's Central Coast Growing Region*. Co-PI. \$500,000
- Alfred P. Sloan Foundation *Energy Institute at Haas Summer School*. PI. \$125,000
- California Energy Commission. *Water Energy Nexus: The Demand for Water and Gas*. PI. \$250,000
- UC Center for Transportation Studies. *Estimating the value of public infrastructure: The case of BART*.
- UC CIEE California Institute for Energy Efficiency. *General Equilibrium Analysis of California's Global Warming Solutions Act of 2006*.
- Giannini Foundation. *General Equilibrium Analysis of California's Global Warming Solutions Act of 2006*.
- Giannini Foundation *Minigrant* 2010,11,12,13,14,15,16
- California Energy Commission. *Energy. Chapter in the Scenarios Report of the Governor*. 2010.
- Department of Energy. *Agriculture and Electricity under Climate Change* (w/ Roberts & Schlenker). 2010.
- California Energy Commission. *Impact of Residential Building Codes on Electricity Consumption*. 2008.
- California Energy Commission. *Energy. Chapter in the Scenarios Report of the Governor*. 2007.
- California Energy Commission. *Quantifying parameter uncertainty in CGE models*. 2007.
- Institute on Global Conflict and Cooperation. *Cheating & The Human Development Index* 2006.
- Giannini Foundation. *Aerosol Pollution and Yields*. 2005.
- UC Berkeley Committee on Research. *Aerosol Pollution and Impacts on Rice Yields*. 2005.
- UC Berkeley Committee on Research. *China's Provincial Car Legislation: An Impact Study*. 2004.
- Agricultural Experiment Station. *Forecasting: Irreversibility and Spatial Dependence*. 2004 & 05.
- UC Berkeley Committee on Research. *Estimating Loss Function Parameters*. 2003.
- UC Berkeley Committee on Research. *Car Choice and Income*. 2003.
- UCSD Dean of Social Sciences Research Travel Grant, June 2001

AWARDS:

- UC Berkeley. *Campus Distinguished Teaching Award*. 2009.
- UC Berkeley. *Sarlo Distinguished Graduate Student Mentoring Award* 2007.
- UC Berkeley. *Coll. Natural Resources Outstanding Assistant Professor Award*. 2007.
- National Academies of Sciences. PNAS Cozzarelli Prize for outstanding paper 2007.
- University of California Berkeley. *ARE Dissertation Mentor of the Year Award*. 2007.
- UC San Diego. Economics Teaching Assistant Of The Year Award, October 2002
- UC San Diego. Chancellor's Teaching Fellow Award, June 2002
- UMASS Amherst. Vijay Bhagavan Memorial Award for Teaching Excellence, September 1997

REFEREE SERVICE

American Economic Review, American Journal of Agricultural Economics, American Economic Journal - Applied Economics, American Economic Journal - Policy, Annals of Applied Statistics, Berkeley Papers on Economic Activity, Berkeley Economic Journals in Economic Analysis and Policy, China Economic Review, Climatic Change, Ecological Economics, Economic Inquiry, Economists' Voice, Edward Elgar Press, Energy and Development Journal, Energy Economics, Energy Journal, Energy Policy, Environmental and Development Economics, Environmental and Resource Economics, Environmental Research Letters, Environmental Protection Agency, Geophysical Research Letters, International Review of Economics and Finance, Journal of Applied Climatology and Meteorology, Journal of Econometrics, Journal of Environment and Development, Journal of Environmental Economics and Management, Journal of International Economics, Journal of Policy Analysis and Management, Journal of Regional Science, Journal of The Japanese and International Economies, Land Economics, MIT Press, National Science Foundation, Oxford Economic Papers, National Bureau of Economic Research, Nature Climate Change, Regional Environmental Change, Resource and Energy Economics, Review of Economics and Statistics, Review of Environmental Economics and Policy, World Bank Economic Review.

MEMBERSHIPS

American Economic Association, Association of Environmental and Resource Economists, European Association of Environmental and Resource Economists, American Association of Agricultural Economists, American Statistical Association.

TEACHING EXPERIENCE

IAS 106: Intermediate Microeconomic Theory.

Semesters of Instruction: F03, S04, F05, F06, F07, F08, F09, F11, F12, SP14, SP15.

Teaching Effectiveness Last Time Taught: 6.7/7 (n=158).

IAS 107: Intermediate Macroeconomic Theory.

Semesters of Instruction: SP09, SP10.

Teaching Effectiveness Last Time Taught: 6.5/7 (n=130).

IAS/ARE 175: Economics of Climate Change.

Semesters of Instruction: SP06.

Teaching Effectiveness Last Time Taught: 6.4/7 (n=5).

ARE 212: Econometrics - Multiple Equation Estimation.

Semesters of Instruction: SP04, SP05, SP06, SP08, SP10, SP12, SP13, SP14, SP15, SP16

Teaching Effectiveness Last Time Taught: 6.90/7 (n=31).

ARE 234/5: Econometrics - Second Year Empirical Project.

Semesters of Instruction: Every Semester from F03-SP14.

Teaching Effectiveness Last Time Taught: N/A

EW MBA201A (Haas School of Business): Economics for Business Decision Making

Semesters of Instruction: F16.

Teaching Effectiveness Last Time Taught: Ongoing

GSPP 290 (Goldman School of Public Policy): Interdisciplinary Research Methods: Environment, Society and Global Change (w/ Laurel Larsen, Sol Hsiang and David Akerly)

Semesters of Instruction: F16.

Teaching Effectiveness Last Time Taught: Ongoing

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STUDENTS

Chris Cherry (Member, 2007), University of Tennessee at Knoxville
Hendrik Wolff (**Co-Chair**, 2007), Department of Economics - University of Washington Seattle
Jenny Aker (**Chair**, 2008), Fletcher School - Tufts University
Celine Ferre (Member, 2008), World Bank, Young Professionals Program.
Jenny Hsing-Liu (Member, 2010), Portland State
Ralf Steinhauser (Co-Chair, 2007), Economics Department - ANU Canberra
Jennie Day (Member, 2008), University of Melbourne
Brian Chen (Member, 2009), Stanford GSB Post-Doc
Anin Aroonruengsawat (**Chair**, 2009), Thailand
Ryan Kellogg (Member, 2008), Department of Economics, University of Michigan
Koichiro Ito (Member, 2011), School of Business, Boston University
Mi-Suk J. Kang Dufour (Member, 2011), UCSF
Howard Chong (**Chair**, 2011), Cornell University
Calanit Kamala (**Chair**, 2011), Lecturer UC Berkeley
Fei Han (Member, 2012), IMF
Maya Papineau (Member, 2013), Carleton University
Steven Sexton, (Member, 2012), Duke University
Steve Buck (**Co-Chair**, 2011), The Brattle Group
Kathleen Foreman (**Chair**, 2013), NERA
Catherine Hausman (**Co-Chair**, 2013), Ford School University of Michigan
Manuel Barron (Member, 2014), UC Santa Cruz Lecturer
Marshall Burke (**Chair**, 2014), Stanford University
Matthew Zaragoza, EDF (**Chair**, 2014)
Erica Myers, (Member, 2014) University of Illinois Urbana Champaign
Amir Jina (Columbia University, Member, 2014) University of Chicago Harris School
Judson Boomhower (Member, 2015), Stanford University (SIEPR)/UC San Diego Economics
Gerrit Hansen (Wageningen University, **Co-Chair**), PIK
Walter Graff (Member, 2016), Brattle Group
Meghan Stevenson (Member, 2016), UPenn
Patrick Baylis (**Chair**, 2016), Stanford University (PostDoc)/UBC Vancouver Economics
Danamona H. Andrianarimanana (**Chair**, ongoing)
Dan Hammer (**Chair**, ongoing)
Kendon Bell (**Chair**, ongoing)
Tamma Carleton (**Chair**, ongoing)
David McLaughlin (**Chair**, ongoing)
Ed Rubin (**Chair**, ongoing)