

# Maximilian Auffhammer

GEORGE PARDEE JR. PROFESSOR OF INTERNATIONAL SUSTAINABLE DEVELOPMENT  
University of California, Berkeley, 207 Giannini Hall, Berkeley, CA 94720-3310  
(+1) 925-360-6473 | auffhammer@berkeley.edu | <http://www.auffhammer.com>

## Education

### University of California San Diego

PH.D. IN ECONOMICS

*La Jolla, California*

*Sep. 1998 - Jul. 2003*

### University of Massachusetts at Amherst

M.S. IN RESOURCE ECONOMICS

*Amherst, Massachusetts*

*Sep. 1996 - Aug. 1998*

### University of Massachusetts at Amherst

B.S. IN ENVIRONMENTAL SCIENCES

*Amherst, Massachusetts*

*Sep. 1993 - Jul. 1996*

## Academic Appointments

<b>George Pardee Jr. Professor of Sustainable International Development</b> , <i>UC Berkeley</i>	2013 - Present
<b>Professor</b> , Agricultural and Resource Economics & Political Economy, <i>UC Berkeley</i>	2014 - Present
<b>Faculty Scientist</b> , EAEL Division, <i>Lawrence Berkeley National Laboratory</i>	2018 - Present
<b>Guest Professor</b> , University of Technology Luleå, <i>Luleå, Sweden</i>	2014 - Present
<b>Forschungsprofessor</b> , CESifo, <i>Munich, Germany</i>	2022 - Present
<b>Faculty Affiliate</b> , Energy Institute at Haas, <i>UC Berkeley</i>	2005-Present
<b>Affiliate Faculty</b> , Energy and Resources Group, <i>UC Berkeley</i>	2008-Present
<b>Regional Associate Dean</b> , College of Letters and Science, <i>UC Berkeley</i>	2018 - 2023
<b>Associate Dean</b> , Division of Social Sciences, <i>UC Berkeley</i>	2015 - 2023
<b>Chair</b> , Global Studies Teaching BA/MA Program, <i>UC Berkeley</i>	2016 - 2018
<b>Associate Professor</b> , Agricultural and Resource Economics & Political Economy, <i>UC Berkeley</i>	2009 - 2014
<b>Director</b> , International Area Studies Programs, <i>UC Berkeley</i>	2010 - 2015
<b>Assistant Professor</b> , Agricultural and Resource Economics & Political Economy, <i>UC Berkeley</i>	2003 - 2009
<b>Interim Chair</b> , Political Economy, <i>UC Berkeley</i>	2012-2016
<b>Vice Chair</b> , Political Economy, <i>UC Berkeley</i>	2006-2012
<b>Executive Committee Member</b> , Energy and Resources Group, <i>UC Berkeley</i>	2011-2014
<b>Associate Director</b> , UC Center on Environmental and Energy Economics, <i>UC Systemwide</i>	2009-2015
<b>Visiting Faculty</b> , Potsdam Institut für Klimafolgenforschung, <i>Potsdam, Germany</i>	2011
<b>Visiting Faculty</b> , CESifo, <i>Munich, Germany</i>	2010

## Affiliations

<b>Research Associate</b> , National Bureau of Economic Research EEE Group, <i>Cambridge, MA</i>	2011 - Present
<b>Area Director</b> , CESifo Energy and Climate Economics, <i>Munich, Germany</i>	2020 - Present
<b>Fellow</b> , CESifo Energy and Climate Economics, <i>Munich, Germany</i>	2011 - Present
<b>Member</b> , AURÖ Verein für Sozialpolitik, <i>Germany</i>	2011 - Present
<b>External Academic Advisor</b> , The Brattle Group, <i>San Francisco</i>	2011 - Present
<b>Fellow</b> , Alexander von Humboldt Foundation, <i>Germany</i>	2010 - 2011
<b>Faculty Research Fellow</b> , National Bureau of Economic Research EEE Group, <i>Cambridge, MA</i>	2010 - 2011

## Professional Activities

<b>Member, Science Advisory Board</b> , Environmental Protection Agency, <i>Washington, DC</i>	2023-2027
<b>Founder, Summer School in Env. and Energy Economics</b> , Energy Institute @ Haas, <i>Berkeley, CA</i>	2011 - Present
<b>Co-Chair (with Katrina Jessoe), AERE Annual Conference</b> , AERE, <i>Incline Village, CA</i>	2019
<b>Member, Expert Panel on the Social Cost of Carbon</b> , National Academies, <i>Washington, DC</i>	2015-2018
<b>Chair, Energy Statistics Adv. Committee EIA</b> , American Statistical Association, <i>Washington, DC</i>	2014 - 2017
<b>Member, Climate Scoping Plan Committee</b> , California Air Resources Board, <i>Sacramento, CA</i>	2016 - 2017
<b>Member, Transportation Forecasting Review Panel</b> , California Energy Commission, <i>Sacramento, CA</i>	2016 - 2018
<b>Co-Editor, Journal of the Association of Environmental and Resource Economists</b> , AERE, <i>Chicago, IL</i>	2013 - 2014

Associate Editor - <b>American Journal of Agricultural Economics</b> , AAEA, <i>Chicago, IL</i>	2011 - 2015
Member of Editorial Board - <b>Journal of Env. Economics and Management</b> , AERE, <i>Berkeley, CA</i>	2010 - Present
Member, <b>Energy Statistics Adv. Committee EIA</b> , American Statistical Association, <i>Washington, DC</i>	2011 - 2017
Member, <b>DOE/EIA Subcommittee on Energy Survey</b> , American Statistical Association, <i>Washington, DC</i>	2012 - 2014
Member, <b>Outstanding Dissertation Selection Committee</b> , AAEA, <i>Berkeley, CA</i>	2010 - 2015
Member, <b>Executive Board</b> , AERE, <i>Washington, DC</i>	2013 - 2015
Co-Chair (with Laura O. Taylor), <b>Inaugural AERE Annual Conference</b> , AERE, <i>Seattle, WA</i>	2011
Program Coordinator, <b>Second World Congress of Env. &amp; Resource Economists</b> , AERE, <i>Monterey, CA</i>	2001-2002
Summer Associate, <b>McKinsey &amp; Company, Financial Institutions Group</b> , McK, <i>Munich, Germany</i>	2001-2002
Logistics Management Associate, M&M International Forwarders, <i>Germany/France</i>	1992 - 1993

## University Service

---

Chair, <b>Berkeley Division of the Academic Senate</b> , <i>UC Berkeley</i>	2023 - 2024
Vice-Chair, <b>Berkeley Division of the Academic Senate</b> , <i>UC Berkeley</i>	2022 - 2023
Co-Chair, <b>Undergraduate Council Academic Senate</b> , <i>UC Berkeley</i>	2017 - 2019
Member, <b>Executive Committee</b> Advising Council, <i>UC Berkeley</i>	2016 - 2018
Chair, <b>Committee on Educational Policy</b> Academic Senate, <i>UC Berkeley</i>	2016 - 2017
Vice-Chair, <b>Committee on Educational Policy</b> Academic Senate, <i>UC Berkeley</i>	2014 - 2016
Member, <b>Executive Committee</b> Institute for international Studies, <i>UC Berkeley</i>	2011 - Present
Member, <b>Executive Committee</b> Institute of East Asian Studies, <i>UC Berkeley</i>	2013 - 2015
Member, <b>Curriculum Committee</b> Global Studies Program, <i>UC Berkeley</i>	2015 - 2016
Member, Co-Chair, Chair, <b>Academic Review Committees</b> , <i>UC Berkeley</i>	2003 - Present
Member, Co-Chair, Chair, <b>Junior and Senior Hiring Committees</b> , <i>UC Berkeley</i>	2003 - Present
Co-Chair, <b>Ph.D. Placement Committee</b> ARE, <i>UC Berkeley</i>	2003 - Present
Member, <b>Graduate Admissions Committee</b> ARE, <i>UC Berkeley</i>	2014 - 2015

## Publications

---

- Almås, Ingvild, Maximilian Auffhammer, Tessa Bold, Ian Bolliger, Aluma Dembo, Solomon M Hsiang, Shuhei Kitamura, Edward Miguel, and Robert Pickmans. *Destructive behavior, judgment, and economic decision-making under thermal stress*. **Economic Journal** (conditionally accepted).
- Guo, Wei, Leonie Wenz, and Maximilian Auffhammer. *To see or not to see: The visual (dis)amenity value of wind turbines*. **Proceedings of the National Academy of Sciences** (conditionally accepted).
- McNeil, Wilson, Fan Tong, Robert Harley, Maximilian Auffhammer, and Corinne Scown. *Corridor-Level Impacts of Battery-Electric Heavy-Duty Trucks and the Effects of Policy in the United States*. **Environmental Science & Technology** (conditionally accepted).
- Porzio, Jason, Derek Wolfson, Maximilian Auffhammer, and Corinne D Scown. *Private and External Costs and Benefits of Replacing High-Emitting Peaker Plants with Batteries*. **Environmental Science & Technology** 57.12 (2023), pp. 4992–5002.
- Rubin, Edward and Maximilian Auffhammer. *Quantifying Heterogeneity in the Price Elasticity of Residential Natural Gas*. **Journal of the Association of Environmental and Resource Economists** (2023).
- Stechemesser, Annika, Maximilian Kotz, M Auffhammer, and Leonie Wenz. *Prolonged exposure weakens risk perception and behavioral mobility response: Empirical evidence from Covid-19*. **Transportation Research Interdisciplinary Perspectives** (2023).
- Aldy, Joseph E, Maximilian Auffhammer, Maureen Cropper, Arthur Fraas, and Richard Morgenstern. *Looking back at 50 years of the Clean Air Act*. **Journal of Economic Literature** 60.1 (2022), pp. 179–232.
- Auffhammer, Maximilian. *Climate Adaptive Response Estimation: Short and long run impacts of climate change on residential electricity and natural gas consumption*. **Journal of Environmental Economics and Management** 114 (2022), p. 102669.
- Auffhammer, Maximilian. *The mortality cost of climate change (News & Views)*. **Nature Climate Change** 12.7 (2022), pp. 614–615.
- Auffhammer, Maximilian, Min Wang, Lunyu Xie, and Jintao Xu. *Renewable electricity development in China: Policies, performance, and challenges*. **Review of Environmental Economics and Policy** 15.2 (2021), pp. 323–339.
- Shaffer, Blake, Maximilian Auffhammer, and Constantine Samaras. *Make electric vehicles lighter to maximize climate and safety benefits (Comment)*. **Nature** 598.7880 (2021), pp. 254–256.

- Tong, Fan, Alan Jenn, Derek Wolfson, Corinne D Scown, and Maximilian Auffhammer. *Health and climate impacts from long-haul truck electrification*. **Environmental Science & Technology** 55.13 (2021), pp. 8514–8523.
- Tong, Fan, Derek Wolfson, Alan Jenn, Corinne D Scown, and Maximilian Auffhammer. *Energy consumption and charging load profiles from long-haul truck electrification in the United States*. **Environmental Research: Infrastructure and Sustainability** 1.2 (2021), p. 025007.
- Auffhammer, Maximilian, Maya Duru, Edward Rubin, and David L Sunding. *The economic impact of critical-habitat designation: Evidence from vacant-land transactions*. **Land Economics** 96.2 (2020), pp. 188–206.
- Buck, Steven, Maximilian Auffhammer, Hilary Soldati, and David Sunding. *Forecasting residential water consumption in California: rethinking model selection*. **Water Resources Research** 56.1 (2020), e2018WR023965.
- Waterfield, Gina, Martha Rogers, Philippe Grandjean, Maximilian Auffhammer, and David Sunding. *Reducing exposure to high levels of perfluorinated compounds in drinking water improves reproductive outcomes: evidence from an intervention in Minnesota*. **Environmental Health** 19 (2020), pp. 1–11.
- Auffhammer, Maximilian. “Economics, Emissions, Impacts and Policy”. In: *Bending the curve: Ten scalable solutions for carbon neutrality and climate stability*. Ed. by 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, et al. Berkeley: University of California Press, 2019.
- Xie, Lunyu, Sarah M Lewis, Maximilian Auffhammer, and Peter Berck. *Heat in the heartland: crop yield and coverage response to climate change along the Mississippi River*. **Environmental and resource economics** 73 (2019), pp. 485–513.
- Xie, Lunyu, Sarah L MacDonald, Maximilian Auffhammer, Deepak Jaiswal, and Peter Berck. *Environment or food: Modeling future land use patterns of miscanthus for bioenergy using fine scale data*. **Ecological economics** 161 (2019), pp. 225–236.
- Auffhammer, Maximilian. *Quantifying economic damages from climate change*. **Journal of Economic Perspectives** 32.4 (2018), pp. 33–52.
- Auffhammer, Maximilian and Tamma A Carleton. *Regional crop diversity and weather shocks in India*. **Asian Development Review** 35.2 (2018), pp. 113–130.
- Auffhammer, Maximilian and Matthew E Kahn. *The farmer’s climate change adaptation challenge in least developed countries*. **Handbook of Environmental Economics** 4 (2018), pp. 193–229.
- Schlenker, Wolfram and Maximilian Auffhammer. *The cost of a warming climate (News & Views)*. **Nature** 557.7880 (2018), pp. 498–499.
- Auffhammer, Maximilian, Patrick Baylis, and Catherine H Hausman. *Climate change is projected to have severe impacts on the frequency and intensity of peak electricity demand across the United States*. **Proceedings of the National Academy of Sciences** 114.8 (2017), pp. 1886–1891.
- Auffhammer, Maximilian, Weizeng Sun, Jianfeng Wu, and Siqi Zheng. *The decomposition and dynamics of industrial carbon dioxide emissions for 287 Chinese cities in 1998–2009*. **Environmental Economics and Sustainability** (2017), pp. 71–94.
- Cropper, Maureen, Richard Newell, Myles Allen, Chris Forest, Inez Fung, James Hammitt, Henry Jacoby, Robert Kopp, Billy Pizer, Steven Rose, Richard Schmalensee, and James Weyant. *Valuing climate damages: updating estimation of the social cost of carbon dioxide*. **National Academies Press** (2017).
- Wenz, Leonie, Anders Levermann, and Maximilian Auffhammer. *North–south polarization of European electricity consumption under future warming*. **Proceedings of the National Academy of Sciences** 114.38 (2017), E7910–E7918.
- Buck, Steven, Maximilian Auffhammer, Stephen Hamilton, and David Sunding. *Measuring welfare losses from urban water supply disruptions*. **Journal of the Association of Environmental and Resource Economists** 3.3 (2016), pp. 743–778.
- Hansen, Gerrit, Dáithí Stone, Maximilian Auffhammer, Christian Huggel, and Wolfgang Cramer. *Linking local impacts to changes in climate: a guide to attribution*. **Regional Environmental Change** 16 (2016), pp. 527–541.
- Auffhammer, Maximilian and Yazhen Gong. *China’s carbon emissions from fossil fuels and market-based opportunities for control*. **Annual Review of Resource Economics** 7.1 (2015), pp. 11–34.
- Auffhammer, Maximilian, Bo Li, Brian Wright, and Seung-Jick Yoo. *Specification and estimation of the transfer function in dendroclimatological reconstructions*. **Environmental and Ecological Statistics** 22 (2015), pp. 105–126.
- Bierkandt, R, M Auffhammer, and A Levermann. *US power plant sites at risk of future sea-level rise*. **Environmental Research Letters** 10.12 (2015), p. 124022.
- Anderson, Michael L and Maximilian Auffhammer. *Pounds that kill: The external costs of vehicle weight*. **Review of Economic Studies** 81.2 (2014), pp. 535–571.

- Auffhammer, Maximilian. *Cooling China: The weather dependence of air conditioner adoption*. **Frontiers of Economics in China** 9.1 (2014), pp. 70–84.
- Auffhammer, Maximilian. *Energy and environmental policy in China: towards a low-carbon economy (Book Review)*. **The Energy Journal** 35.3 (2014), pp. 183–185.
- Auffhammer, Maximilian and Erin T Mansur. *Measuring climatic impacts on energy consumption: A review of the empirical literature*. **Energy Economics** 46 (2014), pp. 522–530.
- Auffhammer, Maximilian and Catherine D Wolfram. *Powering up China: Income distributions and residential electricity consumption*. **American Economic Review P&P** 104.5 (2014), pp. 575–580.
- Buck, Steven, Maximilian Auffhammer, and David Sunding. *Land markets and the value of water: Hedonic analysis using repeat sales of farmland*. **American Journal of Agricultural Economics** 96.4 (2014), pp. 953–969.
- Cramer, Wolfgang, Gary Yohe, Maximilian Auffhammer, Christian Huggel, Ulf Molau, MAF da Silva Dias, Andy Solow, Daithi Stone, and Lourdes Tibig. “Detection and attribution of observed impacts.” In: *Climate Change 2014: Impacts, Adaptation, and Vulnerability. Part A: Global and Sectoral Aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*. Ed. by Chris Field, Vincente Barros, D.J. Dokken, K.J. Mach, M.D. Mastrandrea, T.E. Bilir, M. Chatterjee, K.L. Ebi, Y.O. Estrada, R.C. Genova, B. Girma, E.S. Kissel, A.N. Levy, S. MacCracken, P.R. Mastrandrea, and L.L. White. Cambridge, United Kingdom and New York, NY, USA.: Cambridge University Press, 2014.
- Hansen, Gerrit, Maximilian Auffhammer, and Andrew R Solow. *On the attribution of a single event to climate change*. **Journal of Climate** 27.22 (2014), pp. 8297–8301.
- Auffhammer, Maximilian. *Climate Change and Common Sense: Essays in Honour of Tom Schelling (Book Review)*. **Journal of Economic Literature** 51.2 (2013), pp. 544–64.
- Auffhammer, Maximilian, Solomon M Hsiang, Wolfram Schlenker, and Adam Sobel. *Using weather data and climate model output in economic analyses of climate change*. **Review of Environmental Economics and Policy** (2013).
- Auffhammer, Maximilian and Wolfram Schlenker. *It’s not just the statistical model. A comment on Seo (2013)*. **Climatic Change** 121 (2013), pp. 125–128.
- Huggel, Christian, Dáithí Stone, Maximilian Auffhammer, and Gerrit Hansen. *Loss and damage attribution (Commentary)*. **Nature Climate Change** 3.8 (2013), pp. 694–696.
- Stone, Dáithí, Maximilian Auffhammer, Mark Carey, Gerrit Hansen, Christian Huggel, Wolfgang Cramer, David Lobell, Ulf Molau, Andrew Solow, Lourdes Tibig, et al. *The challenge to detect and attribute effects of climate change on human and natural systems*. **Climatic Change** 121 (2013), pp. 381–395.
- Aroonruengsawat, Anin, Maximilian Auffhammer, and Alan H Sanstad. *The impact of state level building codes on residential electricity consumption*. **The Energy Journal** 33.1 (2012).
- Auffhammer, Maximilian, Veerabhadran Ramanathan, and Jeffrey R Vincent. *Climate change, the monsoon, and rice yield in India*. **Climatic Change** 111 (2012), pp. 411–424.
- Auffhammer, Maximilian and Ralf Steinhauser. *Forecasting the path of US CO2 emissions using state-level information*. **Review of Economics and Statistics** 94.1 (2012), pp. 172–185.
- Auffhammer, Maximilian and Jeffrey R Vincent. *Unobserved time effects confound the identification of climate change impacts*. **Proceedings of the National Academy of Sciences** 109.30 (2012), pp. 11973–11974.
- Hausman, Catherine, Maximilian Auffhammer, and Peter Berck. *Farm acreage shocks and crop prices: an SVAR approach to understanding the impacts of biofuels*. **Environmental and Resource Economics** 53 (2012), pp. 117–136.
- Auffhammer, Maximilian. *Hidden Costs of Energy: Unpriced Consequences of Energy Production and Use (Review)*. **Environmental Health Perspectives** 119.3 (2011), A138.
- Auffhammer, Maximilian. *Weather dilemma for African maize (News & Views)*. **Nature Climate Change** 1.1 (2011), pp. 27–28.
- Auffhammer, Maximilian and Anin Aroonruengsawat. *Simulating the impacts of climate change, prices and population on California’s residential electricity consumption*. **Climatic change** 109 (2011), pp. 191–210.
- Auffhammer, Maximilian, Antonio M Bento, and Scott E Lowe. *The city-level effects of the 1990 Clean Air Act amendments*. **Land Economics** 87.1 (2011), pp. 1–18.
- Auffhammer, Maximilian and Ryan Kellogg. *Clearing the air? The effects of gasoline content regulation on air quality*. **American Economic Review** 101.6 (2011), pp. 2687–2722.
- McKone, T. E., W. W. Nazaroff, P. Berck, M. Auffhammer, T. Lipman, M. S. Torn, E. Masanet, A. Lobscheid, N. Santero, U. Mishra, A. Barrett, M. Bomberg, K. Fingerma, C. Scown, B. Strogon, and A. Horvath. *Grand Challenges for Life-Cycle Assessment of Biofuels*. **Environmental Science & Technology** 45.5 (2011), pp. 1751–1756.

- Wolff, Hendrik, Howard Chong, and Maximilian Auffhammer. *Classification, detection and consequences of data error: evidence from the human development index*. **The Economic Journal** 121.553 (2011), pp. 843–870.
- Hayhoe, Katharine, Mark Robson, John Rogula, Maximilian Auffhammer, Norman Miller, Jeff VanDorn, and Donald Wuebbles. *An integrated framework for quantifying and valuing climate change impacts on urban energy and infrastructure: A Chicago case study*. **Journal of Great Lakes Research** 36 (2010), pp. 94–105.
- Welch, Jarrod R, Jeffrey R Vincent, Maximilian Auffhammer, Piedad F Moya, Achim Dobermann, and David Dawe. *Rice yields in tropical/subtropical Asia exhibit large but opposing sensitivities to minimum and maximum temperatures*. **Proceedings of the National Academy of Sciences** 107.33 (2010), pp. 14562–14567.
- Auffhammer, Maximilian. *The State of Environmental and Resource Economics: A Google Scholar Perspective*. **Review of Environmental Economics and Policy** 3.2 (2009), pp. 251–269.
- Auffhammer, Maximilian, Antonio M Bento, and Scott E Lowe. *Measuring the effects of the Clean Air Act Amendments on ambient PM10 concentrations: The critical importance of a spatially disaggregated analysis*. **Journal of Environmental Economics and Management** 58.1 (2009), pp. 15–26.
- Auffhammer, Maximilian and Richard T Carson. *Exploring The Number Of First-Order Political Subdivisions Across Countries: Some Stylized Facts*. **Journal of Regional Science** 49.2 (2009), pp. 243–261.
- Agrawal, M, M Auffhammer, UK Chopra, L Emberson, M Iyengararasan, N Kalra, MV Ramana, V Ramanathan, AK Singh, and J Vincent. *Impacts of atmospheric brown clouds on agriculture*. **Part II of Atmospheric Brown Clouds: regional assessment report with focus on Asia, Project Atmospheric Brown Cloud, UNEP, Nairobi, Kenya** (2008).
- Auffhammer, Maximilian, Carl Blumstein, and Meredith Fowlie. *Demand-side management and energy efficiency revisited*. **The Energy Journal** 29.3 (2008).
- Auffhammer, Maximilian and Richard T Carson. *Forecasting the path of China’s CO2 emissions using province-level information*. **Journal of Environmental Economics and Management** 55.3 (2008), pp. 229–247.
- Miller, Norman L, Katharine Hayhoe, Jiming Jin, and Maximilian Auffhammer. *Climate, extreme heat, and electricity demand in California*. **Journal of Applied Meteorology and Climatology** 47.6 (2008), pp. 1834–1844.
- Auffhammer, Maximilian. *The rationality of EIA forecasts under symmetric and asymmetric loss*. **Resource and Energy Economics** 29.2 (2007), pp. 102–121.
- Auffhammer, Maximilian and Ralf Steinhauser. *The future trajectory of us co2 emissions: The role of state vs. aggregate information*. **Journal of Regional Science** 47.1 (2007), pp. 47–61.
- Auffhammer, Maximilian, V Ramanathan, and Jeffrey R Vincent. *Integrated model shows that atmospheric brown clouds and greenhouse gases have reduced rice harvests in India*. **Proceedings of the National Academy of Sciences** 103.52 (2006), pp. 19668–19672.
- Auffhammer, Maximilian, Bernard J Morzuch, and John K Stranlund. *Production of chlorofluorocarbons in anticipation of the Montreal Protocol*. **Environmental and Resource Economics** 30 (2005), pp. 377–391.

## Awards

---

<b>Earl F. Cheit Award for Excellence in Teaching</b> . Haas School of Business, <a href="#">UC Berkeley</a>	2022
<b>Best Paper, Policy Analysis</b> . Environmental Science and Technology, <a href="#">American Chemical Society</a>	2021
<b>Distinguished Service Award</b> . Division of Social Sciences, <a href="#">UC Berkeley</a>	2019
<b>Earl F. Cheit Award for Excellence in Teaching</b> . Haas School of Business, <a href="#">UC Berkeley</a>	2017
<b>Campus Distinguished Teaching Award</b> . Committee on Teaching, <a href="#">UC Berkeley</a>	2009
<b>Sarlo Distinguished Graduate Student Mentoring Award</b> . Graduate Division, <a href="#">UC Berkeley</a>	2007
<b>Outstanding Assistant Professor Award</b> . College of Natural Resources, <a href="#">UC Berkeley</a>	2007
<b>PNAS Cozzarelli Prize for outstanding paper</b> , <a href="#">National Academies of Sciences</a> .	2007
<b>Dissertation Mentor of the Year Award</b> . ARE, <a href="#">UC Berkeley</a>	2007
<b>Economics Teaching Assistant Of The Year Award</b> . Department of Economics, <a href="#">UC San Diego</a>	2002
<b>Chancellor’s Teaching Fellow Award</b> . Department of Economics, <a href="#">UC San Diego</a>	2002
<b>Vijay Bhagavan Award for Teaching Excellence</b> . Dept. of Resource Economics, <a href="#">UMASS Amherst</a>	1997

## Grants

---

<b>Energy Biosciences Institute</b> Sustainable Heavy-Duty Truck Electrification, <a href="#">2022-2024</a>	\$500,000
<b>Zillow, Inc.</b> The Value and Salience of Environmental Quality for American Households, <a href="#">2018-2023</a>	Data Only
<b>Energy Biosciences Institute</b> Life-Cycle Assessment of Grid-Connected Battery Storage, <a href="#">2019-2022</a>	\$350,000
<b>California Air Resources Board</b> Economic Review of California Climate Investments, <a href="#">2021-2022</a>	\$250,008
<b>US Environmental Protection Agency</b> Effectiveness of Regional Fuel Standards, <a href="#">2021-2022</a>	\$17,234

<b>Alfred P. Sloan Foundation</b> Grad Camp, <i>2020-2022</i>	\$373,358
<b>Alfred P. Sloan Foundation</b> Energy Efficiency in Agriculture, <i>2018-2021</i>	\$222,289
<b>UC Sea Grant</b> NMFS/Sea Grant Marine Resource Economics , <i>2018-2021</i>	\$76,666
<b>NSF National Science Foundation</b> NRT-DESE: DS421, <i>2015-2020</i>	\$3,040,967
<b>USDA NIFA</b> Biologically-Diversified Farming Systems in California, <i>2015-2020</i>	\$500,000
<b>California Energy Commission</b> Climate Change Impacts on Electricity Consumption , <i>2018-2020</i>	\$200,000
<b>Alfred P. Sloan Foundation</b> Grad Camp, <i>2017-2019</i>	\$124,997
<b>Alfred P. Sloan Foundation</b> Grad Camp, <i>2015-2017</i>	\$124,989
<b>California Energy Commission</b> Natural Gas and Water Demand in California, <i>2014-2016</i>	\$250,000
<b>CalPoly Foundation</b> Residential Water Demand Functions in Urban California Regions, <i>2012-2012</i>	\$5,000
<b>UC San Diego</b> Climate Monitoring, Modeling and Analyses Phase III , <i>2008-2010</i>	\$70,000
<b>LBNL</b> , The Impact of State Building Codes and Equipment Efficiency Standards, <i>2009-2009</i>	\$40,203
<b>UC Institute for Energy Efficiency</b> ,California's Global Warming Solutions Act of 2006, <i>2007-2008</i>	\$50,000
<b>Department of Energy OSBER</b> Statistical Methods in IAMs of Climate Change, <i>2008-2011</i>	\$351,433
<b>Giannini Foundation</b> Various Issues In Agricultural Economics in California, <i>2003-2023</i>	\$250,000

## Refereeing

---

American Economic Review, American Journal of Agricultural Economics, American Economic Journal - Applied Economics, American Economic Journal - Policy, Annals of Applied Statistics, Asian Development Review, Berkeley Papers on Economic Activity, Berkeley Economic Journals in Economic Analysis and Policy, China Economic Review, Climatic Change, Climatic Change Letters, Ecological Economics, Econometrica, Economic Inquiry, Economic Journal, 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, European Economic Review, 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 Political Economy, Journal of Public Economics, Journal of Regional Science, Journal of the Association of Environmental and Resource Economists, Journal of The Japanese and International Economies, Land Economics, MIT Press, National Bureau of Economic Research, National Science Foundation, Nature, Nature Climate Change, Nature Communications, Nature Energy, Oxford Economic Papers, National Bureau of Economic Research, Nature Climate Change, PNAS, Princeton University Press, Quarterly Journal of Economics, Regional Environmental Change, Resource and Energy Economics, Review of Economics and Statistics, Review of Environmental Economics and Policy, Science, Science Advances, Sloan Foundation, World Bank Economic Review.

## Memberships

---

American Economic Association, Association of Environmental and Resource Economics

## Advising

---

### POST DOCTORAL ADVISING

<b>Nick Hagerty</b> , <i>Montana State</i>	2018 - 2020
<b>Leonie Wenz</b> , <i>PIK</i>	2018 - 2019
<b>Frances Moore</b> , <i>UC Davis</i>	2017 - 2018

### DISSERTATION CHAIR OR CO-CHAIR

<b>Hendrik Wolff</b> , <i>University of Washington Seattle*</i>	2007
<b>Jenny Aker</b> , <i>Tufts University</i>	2008
<b>Ralf Steinhauser</b> , <i>ANU Canberra*</i>	2007
<b>Anin Aroonruengsawat</b> , <i>Thailand</i>	2009
<b>Howard Chong</b> , <i>Cornell University*</i>	2011
<b>Calanit Kamala</b> , <i>UC Berkeley</i>	2011
<b>Steve Buck</b> , <i>The Brattle Group*</i>	2011
<b>Kathleen Foreman</b> , <i>NERA</i>	2013
<b>Catherine Hausman</b> , <i>Ford School University of Michigan*</i>	2013
<b>Marshall Burke</b> , <i>Stanford University</i>	2014

<b>Matthew Zaragoza</b> , <i>Vanderbilt University</i>	2014
<b>Gerrit Hansen</b> , <i>PIK*</i>	2014
<b>Patrick Baylis</b> , <i>Stanford University (PostDoc)/UBC Vancouver</i>	2016
<b>Dan Hammer</b> , <i>Founder Earth Genome Project</i>	2017
<b>Kendon Bell</b> , <i>Landcare Research</i>	2017
<b>Joshua Blonz</b> , <i>RFF/Federal Reserve Board of Governors*</i>	2017
<b>Danamona H. Andrianarimanana</b> , <i>California Department of Finance</i>	2018
<b>Tamma Carleton</b> , <i>University of Chicago / UCSB*</i>	2018
<b>Ed Rubin</b> , <i>University of Oregon</i>	2018
<b>Jonathan Proctor</b> , <i>Harvard University*</i>	2019
<b>David McLaughlin</b> , <i>Environmental Defense Fund</i>	2020
<b>Andrew Hultgren</b> , <i>University of Chicago*</i>	2020
<b>Leopold Biardeau</b> , <i>University of Tahiti</i>	2020
<b>Sebastien Annan Phan</b> , <i>Worldcoin*</i>	2020
<b>Gabriel Englander</b> , <i>World Bank*</i>	2021
<b>Wei Guo</b> , <i>RFF-FEEM</i>	2023
<b>Suvy Qin</b> ,	ongoing

## DISSERTATION MEMBER

<b>Chris Cherry</b> , <i>University of Tennessee at Knoxville</i>	2007
<b>Celine Ferre</b> , <i>World Bank</i>	2008
<b>Jennie Day</b> , <i>University of Melbourne</i>	2008
<b>Ryan Kellogg</b> , <i>Department of Economics</i>	2008
<b>Brian Chen</b> , <i>Stanford GSB Post-Doc</i>	2009
<b>Jenny Hsing-Liu</b> , <i>Portland State</i>	2010
<b>Koichiro Ito</b> , <i>School of Business</i>	2011
<b>Mi-Suk J. Kang Dufour</b> , <i>UCSF</i>	2011
<b>Fei Han</b> , <i>IMF</i>	2012
<b>Steven Sexton</b> , <i>Duke University</i>	2012
<b>Maya Papineau</b> , <i>Carleton University</i>	2013
<b>Manuel Barron</b> , <i>UC Santa Cruz Lecturer</i>	2014
<b>Erica Myers</b> , <i>University of Illinois Urbana Champaign</i>	2014
<b>Amir Jina</b> , <i>University of Chicago Harris School</i>	2014
<b>Judson Boomhower</b> , <i>Stanford University (SIEPR)/UC San Diego Economics</i>	2015
<b>Walter Graff</b> , <i>Brattle Group</i>	2016
<b>Meghan Stevenson</b> , <i>UPenn</i>	2016
<b>Morgan Levy</b> , <i>UC Berkeley Post-Doc</i>	2016
<b>Ken Lee</b> , <i>JPAL</i>	2016
<b>Allan Ogwang</b> , <i>Data Scientist Uhana</i>	2016
<b>Hillary Soldati</b> , <i>California Polytechnic State University</i>	2016
<b>Fiona Burlig</b> , <i>Harris School</i>	2017
<b>Jonathan Kadish</b> , <i>Evolved Energy Research</i>	2018
<b>Matthew Woerman</b> , <i>University of Massachusetts</i>	2019
<b>Mustapha Harb</b> , <i>Waymo</i>	2020
<b>Hannah Druckenmiller</b> , <i>Resource for the Future</i>	2021
<b>Lu Dai</b> , <i>Meta</i>	2022
<b>Marshall Blundell</b> , <i>Demand Side Analytics</i>	2023

## Teaching

---

<b>IAS 106: Intermediate Microeconomic Theory.</b> Taught 12x, <i>Teaching Effectiveness: 6.7/7 (n=158)</i>	Last Taught: SP16
<b>IAS 107: Intermediate Macroeconomic Theory.</b> Taught 2x, <i>Teaching Effectiveness: 6.5/7 (n=130)</i>	Last Taught: SP10
<b>IAS/ARE 175: Economics of Climate Change.</b> Taught 1x, <i>Teaching Effectiveness: 6.4/7 (n=5)</i>	Last Taught: SP06
<b>ARE 212: Econometrics.</b> Taught 11x, <i>Teaching Effectiveness: 6.9/7 (n=31)</i>	Last Taught: SP17
<b>ARE 234/5: Econometrics - Second Year Empirical Project.</b> Taught 12x,	Last Taught: SP14
<b>EW MBA201A: Econ. for Bus. Decision Making.</b> Taught 2 Times, <i>Teaching Effectiveness: 6.8/7 (n=140)</i>	Last Taught: F17
<b>EW MBA200S: Data and Decisions.</b> Taught 3x, <i>Teaching Effectiveness: 6.6/7 (n=142)</i>	Last Taught: F23
<b>GSPP 290: Interdisc. Research Methods: Environment, Society &amp; Global Change.</b> Taught 3x,	Last Taught: F17
<b>EEP1/ECONC3: Intro to Env. Economic and Policy.</b> Taught 2x, <i>Teaching Effectiveness: 6.7/7</i>	Last Taught: F23