

# C.-Y. Cynthia Lin Lawell

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## CURRENT FACULTY APPOINTMENT

**Associate Professor (with tenure)** July 2018 to present  
**Robert Dyson Sesquicentennial Chair in Environmental, Energy and Resource Economics**  
Charles H. Dyson School of Applied Economics and Management  
Cornell University

## PREVIOUS FACULTY APPOINTMENTS

**Associate Professor** July 2017 to June 2018  
**Robert Dyson Sesquicentennial Chair in Environmental, Energy and Resource Economics**  
Charles H. Dyson School of Applied Economics and Management  
Cornell University

**Associate Professor (with tenure)** July 2013 to June 2017  
Department of Agricultural and Resource Economics, and Department of Environmental Science and Policy  
University of California at Davis

**Assistant Professor** July 2006 to June 2013  
Department of Agricultural and Resource Economics, and Department of Environmental Science and Policy  
University of California at Davis

## EDUCATION

**Harvard University** Cambridge, MA  
Ph.D. in Economics, June 2006.

**Harvard University** Cambridge, MA  
A.M. in Economics, November 2005.

**Harvard University** Cambridge, MA  
A.B. *summa cum laude* in Environmental Science and Public Policy, June 2000.

## OTHER APPOINTMENTS

Director, Cornell University Dynamics, Economics, Econometrics, Policy, and Games: Rigorous Environmental, Energy, Natural Resource, Agriculture, and Development Analysis and Research (DEEP-GREEN-RADAR)	July 2017 to present
Director, Cornell University Think-tank for Resources, Energy, and the Environment: Science and Policy-related Economic Analysis and Research (TREESPEAR)	July 2017 to present
Faculty Member, Cornell University Graduate Field of Applied Economics and Management	January 2018 to present
Faculty Member, Cornell University Graduate Field of Economics	October 2018 to present
Faculty Fellow, Cornell Atkinson Center for Sustainability	July 2018 to present
Faculty Affiliate, Cornell Population Center	April 2018 to present
President, U.S. Association for Energy Economics Bay Area Chapter	June 2012 to present
Faculty Affiliate, UC-Davis Institute of Transportation Studies	November 2006 to present
Faculty Member, UC-Davis Graduate Group in Transportation Technology and Policy	March 2007 to present
Faculty Member, UC-Davis Graduate Group in Ecology	October 2007 to present
Faculty Member, UC-Davis Graduate Group in Applied Math	March 2007 to June 2017
Faculty Member, UC-Davis Energy Graduate Group	Sep. 2016 to June 2017
Member, Bioenergy Research Group at UC-Davis	Dec. 2006 to June 2017
Faculty Affiliate, UC-Davis Davis Energy Economics Program	Oct. 2014 to June 2017
Faculty Associate, UC-Davis Air Quality Research Center	Dec. 2006 to June 2017
Member, Giannini Foundation of Agricultural Economics	July 2006 to June 2017
Member, California Biomass Collaborative	Oct. 2007 to June 2017
Faculty Expert, UC-Davis John Muir Institute of the Environment	Sep. 2008 to June 2017
Associated Faculty, UC-Davis Center for Environmental Policy and Behavior	July 2010 to June 2017
Faculty/Researcher, UC-Davis Coastal and Marine Sciences Institute	Dec. 2016 to June 2017
Affiliated Faculty, University of California Center for Energy and Environmental Economics	June 2011 to June 2017
Member, California State Controller's Council of Economic Advisors	April 2007 to Dec. 2014
Research Associate, Harvard University John F. Kennedy School of Government	June 2006 to Oct. 2013
Fossil Fuels Track Director, Sustainable Transportation Energy Pathways Program, UC-Davis Institute of Transportation Studies	Dec. 2006 to Sep. 2012

## FIELDS OF INTEREST

Environmental and natural resource economics  
Energy economics  
Industrial organization  
Applied econometrics  
Applied microeconomics

## HONORS, AWARDS, FELLOWSHIPS

RePEc Top 4% Economists Based on Publications in Last 10 Years (December 2022)  
RePEc Top 2% Female Economists Based on Publications in Last 10 Years (December 2022)  
RePEc Top 4.5% Female Economists Based on Publications in All Years (December 2022)  
RePEc Top 10% Economists Based on Publications in All Years (December 2022)

RePEc Top 3% Economists Based on Publications in Last 10 Years (June 2022)  
 RePEc Top 1.5% Female Economists Based on Publications in Last 10 Years (June 2022)  
 RePEc Top 4.5% Female Economists Based on Publications in All Years (June 2022)  
 RePEc Top 5% Female Economists Based on Publications in All Years (May 2022)  
 RePEc Top 10% Economists Based on Publications in All Years (March 2022)  
 RePEc Top 1.5% Female Economists Based on Publications in Last 10 Years (January 2022)  
 RePEc Top 3% Economists Based on Publications in Last 10 Years (January 2022)  
 RePEc Top 4% Economists Based on Publications in Last 10 Years (December 2021)  
 RePEc Top 2% Female Economists Based on Publications in Last 10 Years (December 2021)  
 RePEc Top 5% Female Economists Based on Publications in All Years (December 2021)  
 RePEc Top 5% Female Economists Based on Publications in All Years (September 2021)  
 RePEc Top 4% Economists Based on Publications in Last 10 Years (January 2021)  
 RePEc Top 2% Female Economists Based on Publications in Last 10 Years (January 2021)  
 RePEc Top 5% Economists Based on Publications in Last 10 Years (December 2020)  
 RePEc Top 2.5% Female Economists Based on Publications in Last 10 Years (December 2020)  
 RePEc Top 2% Female Economists Based on Publications in Last 10 Years (November 2020)  
 RePEc Top 2.5% Female Economists Based on Publications in Last 10 Years (October 2020)  
 RePEc Top 5% Economists Based on Publications in Last 10 Years (December 2019)  
 RePEc Top 2.5% Female Economists Based on Publications in Last 10 Years (December 2019)  
 RePEc Top 5% Economists Based on Publications in Last 10 Years (December 2018)  
 RePEc Top 2.5% Female Economists Based on Publications in Last 10 Years (December 2018)  
 Publons Peer Review Award for Top 1% of Reviewers in Economics & Business in 2017-2018 (2018)  
 Cornell University Knowledge Matters Fellow (2017-2018)  
Energy Economics Outstanding Contribution in Reviewing (2017)  
 Transportation Research Forum Best Paper Award (2017)  
Journal of Environmental Economics and Management Outstanding Contribution in Reviewing (2017)  
 Bacon Public Lectureship and White Paper Competition Honorable Mention (2015-2016)  
Journal of Environmental Economics and Management Outstanding Reviewer Status (2015)  
Energy Strategy Reviews top 5 downloaded articles in 2014 (2014)  
 Gordon and Betty Moore Foundation Data-Driven Discovery Investigator Competition semi-finalist (2014)  
 Associated Students of University of California at Davis Excellence in Education Award nominee (2012)  
 University of California at Davis Hellman Fellow (2011)  
 International Society for New Institutional Economics Award for the Best Ph.D. Dissertation (2006)  
 Stone Fellow Award for Best Paper Written by a Doctoral Student in Environmental and Resource Policy (2006)  
 Repsol YPF–Harvard Kennedy School Fellows Program Conference Travel Grant (2006)  
 The Partnership University Fellow (2005-2006)  
 Environmental Economics Program at Harvard University Pre-Doctoral Conference Travel Grant (2004)  
 Repsol YPF–Harvard Kennedy School Fellows Program Conference Travel Grant (2004)  
 1<sup>st</sup> Lindau Meeting of the Winners of the Bank of Sweden Prize in Economic Sciences in Memory of Alfred Nobel,  
 young economist participant, selected to give closing remarks on behalf of students (2004)  
 Harvard University Department of Economics Research and Travel Award (2004)  
 Repsol YPF–Harvard Kennedy School Fellows Program Research Travel Grant (2004)  
 Harvard Committee on Undergraduate Education Certificate of Distinction in Teaching (Fall 2003)  
 Repsol YPF–Harvard Kennedy School Pre-Doctoral Fellowship in energy policy (2003)  
 Jens Aubrey Westengard Scholarship (2003)  
 Harvard Graduate School of Arts and Sciences Summer Research Award (2002)  
 Harvard Committee on Undergraduate Education Certificate of Distinction in Teaching (Fall 2002)  
 National Science Foundation Graduate Research Fellowship (2001)  
 Jacob K. Javits Fellowship (2001, declined in favor of EPA fellowship)  
 Environmental Protection Agency Science to Achieve Results Graduate Fellowship (2000-2003)  
 Rita Ricardo-Campbell Fellowship in Economics (2000)  
 Environmental Economics Program at Harvard University Pre-Doctoral Fellow (2000-2006)  
 Thomas Temple Hoopes Prize for the top 64 Harvard senior theses (2000)  
 Donald and Cathleen Pfister Prize for excellence in the natural sciences (2000)  
 Junior-year Phi Beta Kappa (1999)  
 Morris K. Udall Scholarship for excellence in environmental policy (1999)

Harvard College Research Program research fellowship (1999)  
President Chao Nee Memorial Scholarship (1999)  
John Harvard Scholarship (1997, 1998, 1999, & 2000)  
Elizabeth Cary Agassiz Scholarship (1997, 1998 & 1999)  
Detur Book Prize (1997)  
First Place Grand Award at International Science and Engineering Fair (1996)

## PEER-REVIEWED PUBLICATIONS

- Thome, Karen E., and C.-Y. Cynthia Lin Lawell. (2022). Corn ethanol in the Midwestern USA: Local competition, entry and agglomeration. Journal of Economic Geography, 22 (6), 1247-1273.
- Rezagholizadeh, Mahdieh, C.-Y. Cynthia Lin Lawell, and Kazem Yavari. (2022). An analysis of the conditional relationship between risk and return in the Tehran Stock Exchange. Iranian Economic Review, 26 (1), 79-107.
- Aghaei, Majid, and C.-Y. Cynthia Lin Lawell. (2022). Energy, economic growth, inequality, and poverty in Iran. Singapore Economic Review, 67 (2), 733-754.
- Lade, Gabriel E., and C.-Y. Cynthia Lin Lawell. (2021). The design of renewable fuel mandates and cost containment mechanisms. Environmental and Resource Economics, 79, 213-247.
- Bertone Oehninger, Ernst, and C.-Y. Cynthia Lin Lawell. (2021). Property rights and groundwater management in the High Plains Aquifer. Resource and Energy Economics, 63, 101147.
- Si, Shuyang, Mingjie Lyu, C.-Y. Cynthia Lin Lawell, and Song Chen. (2021). The effects of environmental policies in China on GDP, output, and profits. Energy Economics, 94, 105082.
- Chen, Yuan, C.-Y. Cynthia Lin Lawell, and Yunshi Wang. (2020). The Chinese automobile industry and government policy. Research in Transportation Economics, 84, 100849.
- Cook, Jonathan A., and C.-Y. Cynthia Lin Lawell. (2020). Wind turbine shutdowns and upgrades in Denmark: Timing decisions and the impact of government policy. Energy Journal, 41 (3), 81-118.
- Kheiravar, Khaled H., and C.-Y. Cynthia Lin Lawell. (2020). Econometric modeling of the world oil market as a dynamic game. In Stéphane Goutte and Duc Khuong Nguyen (Eds.), Handbook of Energy Finance: Theories, Practices and Simulations (pp. 35-46). World Scientific Publishing.
- Carroll, Christine L., Colin A. Carter, Rachael E. Goodhue, and C.-Y. Cynthia Lin Lawell. (2019). Crop disease and agricultural productivity: Evidence from a dynamic structural model of Verticillium wilt management. In Wolfram Schlenker (Ed.), Agricultural Productivity and Producer Behavior (pp. 217-249). Chicago: University of Chicago Press.
- Lhermie, Guillaume, Didier Wernli, Peter Sogaard Jørgensen, Donald Kenkel, C.-Y. Cynthia Lin Lawell, Loren William Tauer, and Yrjo Tapio Gröhn. (2019). Tradeoffs between resistance to antimicrobials in public health and their use in agriculture: Moving towards sustainability assessment. Ecological Economics, 166, 106427.
- Sears, Louis, David Lim, and C.-Y. Cynthia Lin Lawell. (2019). Spatial groundwater management: A dynamic game framework and application to California. Water Economics and Policy, 5 (1), 1850019.

- Sears, Louis, and C.-Y. Cynthia Lin Lawell. (2019). Water management and economics. In Gail L. Cramer, Krishna P. Paudel, and Andrew Schmitz (Eds.), The Routledge Handbook of Agricultural Economics (pp. 269-284). London: Routledge.
- Si, Shuyang, Mingjie Lyu, C.-Y. Cynthia Lin Lawell, and Song Chen. (2018). The effects of energy-related policies on energy consumption in China. Energy Economics, 76, 202-227.
- Sears, Louis, David Lim, and C.-Y. Cynthia Lin Lawell. (2018). The economics of agricultural groundwater management institutions: The case of California. Water Economics and Policy, 4 (3), 1850003.
- Lade, Gabriel E., C.-Y. Cynthia Lin Lawell, and Aaron Smith. (2018). Policy shocks and market-based regulations: Evidence from the Renewable Fuel Standard. American Journal of Agricultural Economics, 100 (3), 707-731.
- Sears, Louis, Joseph Caparelli, Clouse Lee, Devon Pan, Gillian Strandberg, Linh Vuu, and C.-Y. Cynthia Lin Lawell. (2018). Jevons' Paradox and efficient irrigation technology. Sustainability, 10 (5), 1590.
- Beaudoin, Justin, and C.-Y. Cynthia Lin Lawell. (2018). The effects of public transit supply on the demand for automobile travel. Journal of Environmental Economics and Management, 88, 447-467.
- Lin Lawell, C.-Y. Cynthia, Krishna P. Paudel, and Mahesh Pandit. (2018). One shape does not fit all: A nonparametric instrumental variable approach to estimating the income-pollution relationship at the global level. Water Resources and Economics, 21, 3-16.
- Carroll, Christine L., Colin A. Carter, Rachael E. Goodhue, C.-Y. Cynthia Lin Lawell, and Krishna V. Subbarao. (2018). A review of control options and externalities for Verticillium wilts. Phytopathology, 108 (2), 160-171.
- Lade, Gabriel E., C.-Y. Cynthia Lin Lawell, and Aaron Smith. (2018). Designing climate policy: Lessons from the Renewable Fuel Standard and the blend wall. American Journal of Agricultural Economics, 100 (2), 585-599.
- Rojas Valdés, Rubén Irvin, C.-Y. Cynthia Lin Lawell, and J. Edward Taylor. (2018). Migration in rural Mexico: Strategic interactions, dynamic behavior, and the environment. Journal of Academic Perspectives, 2017 (3).
- Lin Lawell, C.-Y. Cynthia. (2017). Dynamic structural econometric modeling of the ethanol industry. In Alberto Adrego Pinto and David Zilberman (Eds.), Modelling, Dynamics, Optimization and Bioeconomics II (pp. 293-306). Springer Proceedings in Mathematics & Statistics.
- Zhang, Jiangshan, and C.-Y. Cynthia Lin Lawell. (2017). The macroeconomic rebound effect in China. Energy Economics, 67, 202-212.
- Carroll, Christine L., Colin A. Carter, Rachael E. Goodhue, C.-Y. Cynthia Lin Lawell, and Krishna V. Subbarao. (2017). The economics of managing Verticillium wilt, an imported disease in California lettuce. California Agriculture, 71 (3), 178-183.
- Zhang, Wei, C.-Y. Cynthia Lin Lawell, and Victoria I. Umanskaya. (2017). The effects of license plate-based driving restrictions on air quality: Theory and empirical evidence. Journal of Environmental Economics and Management, 82, 181-220.
- Ghandi, Abbas, and C.-Y. Cynthia Lin Lawell. (2017). On the rate of return and risk factors to international oil companies in Iran's buy-back service contracts. Energy Policy, 103, 16-19.
- Beaudoin, Justin, and C.-Y. Cynthia Lin Lawell. (2017). The effects of urban public transit investment on traffic congestion and air quality. In Hamid Yaghoubi (Ed.), Urban Transport Systems (Chapter 6). InTech.
- Zhang, Wei, and C.-Y. Cynthia Lin Lawell. (2017). Market power in nonrenewable resource markets: An empirical dynamic model. Land Economics, 93 (1), 74-86.

- Lin Lawell, C.-Y. Cynthia. (2017). Global gasoline prices: The need to raise gasoline taxes. Nature Energy, 2, Article 16206.
- Ramanathan, Veerabhadran, Juliann E. Allison, Maximilian Auffhammer, David Auston, Anthony D. Barnosky, Lifang Chiang, William D. Collins, Steven J. Davis, Fonna Forman, Susanna B. Hecht, Daniel M. Kammen, C.-Y. Cynthia Lin Lawell, Teenie Matlock, Daniel Press, Doug Rotman, Scott Samuelsen, Gina Solomon, David G. Victor, Byron Washom, and Jon Christensen. (2016). Chapter 1. Bending the curve: Ten scalable solutions for carbon neutrality and climate stability. In Veerabhadran "Ram" Ramanathan (Ed.), Bending the Curve: Ten scalable solutions for carbon neutrality and climate stability. Collabra, 2 (1), Article 15, 1-17.
- Auffhammer, Maximilian, C.-Y. Cynthia Lin Lawell, James Bushnell, Olivier Deschênes, and Junjie Zhang. (2016). Chapter 4. Economic considerations: Cost-effective and efficient climate policies. In Veerabhadran "Ram" Ramanathan (Ed.), Bending the Curve: Ten scalable solutions for carbon neutrality and climate stability. Collabra, 2 (1), Article 18, 1-14.
- Morrison, Geoffrey M., and C.-Y. Cynthia Lin Lawell. (2016). Does employment growth increase travel time to work?: An empirical analysis using military troop movements. Regional Science and Urban Economics, 60, 180-197.
- Lin Lawell, C.-Y. Cynthia. (2016). The management of groundwater: Irrigation efficiency, policy, institutions, and externalities. Annual Review of Resource Economics, 8, 247-259.
- Morrison, Geoffrey M., and C.-Y. Cynthia Lin Lawell. (2016). Driving in force: The influence of workplace peers on commuting decisions on U.S. military bases. Journal of Economic Behavior and Organization, 125, 22-40.
- Beaudoin, Justin, Y. Hossein Farzin, and C.-Y. Cynthia Lin Lawell. (2015). Public transit investment and sustainable transportation: A review of studies of transit's impact on traffic congestion and air quality. Research in Transportation Economics, 52, 15-22.
- Lade, Gabriel E., and C.-Y. Cynthia Lin Lawell. (2015). The design and economics of low carbon fuel standards. Research in Transportation Economics, 52, 91-99.
- Lin, C.-Y. Cynthia, and Lisa Pfeiffer. (2015). Strategic behavior and regulation over time and space. In Kimberly Burnett, Richard Howitt, James A. Roumasset, and Christopher A. Wada (Eds.), Routledge Handbook of Water Economics and Institutions (pp. 79-90). New York: Routledge.
- Pfeiffer, Lisa, and C.-Y. Cynthia Lin. (2014). The effects of energy prices on agricultural groundwater extraction from the High Plains Aquifer. American Journal of Agricultural Economics, 96 (5), 1349-1362.
- Jardine, Sunny L., C.-Y. Cynthia Lin, and James N. Sanchirico. (2014). Measuring benefits from a marketing cooperative in the Copper River Fishery. American Journal of Agricultural Economics, 96 (4), 1084-1101.
- Ghandi, Abbas, and C.-Y. Cynthia Lin. (2014). Oil and gas service contracts around the world: A review. Energy Strategy Reviews, 3, 63-71.
- Lin, C.-Y. Cynthia, and Jieyin (Jean) Zeng. (2014). The optimal gasoline tax for China. Theoretical Economics Letters, 4 (4), 270-278.
- Pfeiffer, Lisa, and C.-Y. Cynthia Lin. (2014). Does efficient irrigation technology lead to reduced groundwater extraction?: Empirical evidence. Journal of Environmental Economics and Management, 67 (2), 189-208.
- Lin, C.-Y. Cynthia. (2014). Modeling ethanol investment decisions. In Alberto Adrego Pinto and David Zilberman (Eds.), Modelling, Dynamics, Optimization and Bioeconomics I (pp. 487-497). Springer.
- Bremson, Joel, Alan Meier, C.-Y. Cynthia Lin, and Joan M. Ogdén. (2013). New approach to modeling large-scale transitions to alternative fuels and vehicles. Transportation Research Record, 2385, 61-69.

- Herath Mudiyansele, Nisal, C.-Y. Cynthia Lin, and Fujin Yi. (2013). An analysis of ethanol investment decisions in Thailand. Theoretical Economics Letters, 3 (5A1), 14-20.
- Lin, C.-Y. Cynthia. (2013). California's agriculture-related air pollution policy. Journal of Environmental Protection, 4 (8A1), 24-27.
- Lin, C.-Y. Cynthia, and Jieyin (Jean) Zeng. (2013). The elasticity of demand for gasoline in China. Energy Policy, 59, 189-197.
- Lin, C.-Y. Cynthia, and Lea Prince. (2013). Gasoline price volatility and the elasticity of demand for gasoline. Energy Economics, 38, 111-117.
- Lin, C.-Y. Cynthia, and Erich J. Muehlegger. (2013). On the use of heuristics to approximate competitors' private information. Journal of Economic Behavior and Organization, 86, 10-23.
- Lin, C.-Y. Cynthia. (2013). Strategic decision-making with information and extraction externalities: A structural model of the multi-stage investment timing game in offshore petroleum production. Review of Economics and Statistics, 95 (5), 1601-1621.
- Lin, C.-Y. Cynthia, and Zachary D. Liscow. (2013). Endogeneity in the environmental Kuznets curve: An instrumental variables approach. American Journal of Agricultural Economics, 95 (2), 268-274.
- Lin, C.-Y. Cynthia. (2012). Using spatial econometrics to measure ozone pollution externalities. Journal of Environmental Protection, 3 (9A), 1117-1123.
- Pfeiffer, Lisa, and C.-Y. Cynthia Lin. (2012). Groundwater pumping and spatial externalities in agriculture. Journal of Environmental Economics and Management, 64 (1), 16-30.
- Ghandi, Abbas, and C.-Y. Cynthia Lin. (2012). Do Iran's buy-back service contracts lead to optimal production?: The case of Soroosh and Nowrooz. Energy Policy, 42, 181-190.
- Leighty, Wayne, and C.-Y. Cynthia Lin. (2012). Tax policy can change the production path: A model of optimal oil extraction in Alaska. Energy Policy, 41, 759-774.
- Lin, C.-Y. Cynthia. (2011). Learning an opponent's strategy in Cournot competition. International Journal of Strategic Management, 11 (1), 94-112.
- Lin, C.-Y. Cynthia. (2011). Estimating supply and demand in the world oil market. Journal of Energy and Development, 34 (1), 1-32.
- Corderi, David, and C.-Y. Cynthia Lin. (2011). Measuring the social rate of return to R&D in coal, petroleum and nuclear manufacturing: A study of the OECD countries. Energy Policy, 39 (5), 2780-2785.
- Lin, C.-Y. Cynthia. (2011). An assessment of the effectiveness of California's local air pollution controls on agricultural sources. In Mohamed K. Khallaf (Ed.), The Impact of Air Pollution on Health, Economy, Environment and Agricultural Sources (pp. 323-330). InTech.
- Heres, David R., and C.-Y. Cynthia Lin. (2011). California's energy-related greenhouse gas emissions reduction policies. In Ibon Galarraga, Mikel Gonzalez-Eguino, and Anil Markandya (Eds.), Handbook of Sustainable Energy (pp. 555-573). United Kingdom: Edward Elgar.
- Pfeiffer, Lisa, and C.-Y. Cynthia Lin. (2010). The effect of irrigation technology on groundwater use. Choices, 25 (3).

- Lin, C.-Y. Cynthia. (2010). A spatial econometric approach to measuring pollution externalities: An application to ozone smog. Journal of Regional Analysis and Policy, 40 (1), 1-19.
- Adjemian, Michael K., C.-Y. Cynthia Lin, and Jeffrey Williams. (2010). Estimating spatial interdependence in automobile type choice with survey data. Transportation Research Part A: Policy and Practice, 44, 661-675.
- Lin, C.-Y. Cynthia. (2010). How should standards be set and met?: On the allocation of regulatory power in a federal system. B.E. Journal of Economic Analysis and Policy: Topics, 10 (1), Article 51.
- Lin, C.-Y. Cynthia. (2010). Instability, investment, disasters, and demography: Natural disasters and fertility in Italy (1820-1962) and Japan (1671-1965). Population and Environment, 31 (4), 255-281.
- Lin, C.-Y. Cynthia, and Lea Prince. (2009). The optimal gas tax for California. Energy Policy, 37 (12), 5173-5183.
- Farinelli, Barbara, Colin A. Carter, C.-Y. Cynthia Lin, and Daniel A. Sumner. (2009). Import demand for Brazilian ethanol: A cross-country analysis. Journal of Cleaner Production, 17, S9-S17.
- Lin, C.-Y. Cynthia. (2009). Estimating strategic interactions in petroleum exploration. Energy Economics, 31 (4), 586-594.
- Lin, C.-Y. Cynthia, Haoying Meng, Tsz Yan Ngai, Valeria Oscherov, and Yan Hong Zhu. (2009). Hotelling revisited: Oil prices and endogenous technological progress. Natural Resources Research, 18 (1), 29-38.
- Lin, C.-Y. Cynthia. (2009). Insights from a simple Hotelling model of the world oil market. Natural Resources Research, 18 (1), 19-28.
- Lin, C.-Y. Cynthia. (2008). An evaluation of Keynes' projected possibilities. American Journal of Economics and Sociology, 67 (2), 315-329.
- Lin, C.-Y. Cynthia, and Gernot Wagner. (2007). Steady-state growth in a Hotelling model of resource extraction. Journal of Environmental Economics and Management, 54 (1), 68-83.
- Lin, C.-Y. Cynthia. (2005). The investment timing game in petroleum production: An econometric model. Physica A, 355 (1), 62-68.
- Lin, C.-Y. Cynthia, Daniel J. Jacob, and Arlene M. Fiore. (2001). Trends in exceedances of the ozone air quality standard in the continental United States, 1980-1998. Atmospheric Environment, 35, 3217-3228.
- Lin, C.-Y. Cynthia, Daniel J. Jacob, J. William Munger, and Arlene M. Fiore. (2000). Increasing background ozone in surface air over the United States. Geophysical Research Letters, 27 (21), 3465-3468.

## **OTHER PUBLICATIONS**

- Sears, Louis, David Lim, and C.-Y. Cynthia Lin Lawell. (2017). Agricultural groundwater management in California: Possible perverse consequences? Agricultural and Resource Economics Update, 20 (3), 1-3.
- Lin Lawell, C.-Y. Cynthia. (2016). The economics of groundwater management. Policy brief, University of California Center Sacramento.
- Baerenklau, Kenneth, Thomas P. Tomich, Samira Daroub, Ann Drevno, Van Ryan Haden, Cathy Kling, Timothy Lang, C.-Y. Cynthia Lin, Conny Mitterhofer, Doug Parker, Daniel Press, Todd S. Rosenstock, Kurt Schwabe, Zdravka Tzankova, and Jingjing Wang. (2016). Chapter 8: Responses: Policies and Institutions. In Thomas P.



- Tomich, Sonja B. Brodt, Randy A. Dahlgren, and Kate M. Scow (Eds.), The California Nitrogen Assessment: Challenges and Solutions for People, Agriculture, and the Environment (pp. 231-257). Oakland, CA: University of California Press.
- Handy, Susan, C.-Y. Cynthia Lin Lawell, and Deborah Salon. (2015). Introduction to the special issue on Sustainable Transportation. Research in Transportation Economics, 52, 1-2.
- Ramanathan, Veerabhadran, 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, Doug Rotman, Scott Samuelsen, Gina Solomon, David G. Victor, and Byron Washom. (2015). Executive Summary. Bending the Curve: 10 Scalable Solutions for Carbon Neutrality and Climate Stability. University of California systemwide report, University of California. URL: <http://uc-carbonneutralitysummit2015.ucsd.edu/files/Bending-the-Curve.pdf>
- Lade, Gabriel E., C.-Y. Cynthia Lin, and Aaron Smith. (2015). Ex post costs and renewable identification number (RIN) prices under the Renewable Fuel Standard. Resources for the Future Discussion Paper 15-22. URL: <http://www.rff.org/Publications/Pages/PublicationDetails.aspx?PublicationID=22575>
- Ghandi, Abbas, and C.-Y. Cynthia Lin. (2015). Is resource nationalism on the rise?: Evidence from service contracts in eight countries. International Association for Energy Economics Energy Forum, 24 (1), 35-37. URL: <http://www.iaee.org/documents/2015EnergyForum1qtr.pdf>
- Lin, C.-Y. Cynthia. (2014). The benefits of investing in energy research and development. California State Controller John Chiang Statement of General Fund Cash Receipts and Disbursements, 8 (8). URL: [http://www.sco.ca.gov/eo\\_2014\\_08\\_summary\\_analysis\\_guest\\_column.html](http://www.sco.ca.gov/eo_2014_08_summary_analysis_guest_column.html)
- Pfeiffer, Lisa, and C.-Y. Cynthia Lin. (2014). Perverse consequences of incentive-based groundwater conservation programs. Global Water Forum, Discussion Paper 1415.
- Lade, Gabriel E., and C.-Y. Cynthia Lin. (2014). Controlling compliance costs for California's LCFS with a price ceiling. Policy brief, University of California at Davis Institute of Transportation Studies.
- Lin, C.-Y. Cynthia. (2014). Strategic interactions during oil exploration in the Gulf of Mexico. In Morena J. Acosta (Ed.), Advances in Energy Research, Volume 20 (pp.201-212). New York: Nova Science Publishers, Inc.
- Lin, C.-Y. Cynthia. (2013). Containing the costs of California's low carbon fuel standard. California State Controller John Chiang Statement of General Fund Cash Receipts and Disbursements, 7 (12). URL: [http://www.sco.ca.gov/eo\\_2013\\_12\\_summary\\_analysis\\_featured\\_column.html](http://www.sco.ca.gov/eo_2013_12_summary_analysis_featured_column.html)
- Lade, Gabriel E., and C.-Y. Cynthia Lin. (2013). A report on the economics of California's low carbon fuel standard and cost containment mechanisms. Prepared for the California Air Resources Board. Institute of Transportation Studies, University of California at Davis, Research Report UCD-ITS-RR-13-23.
- Lin, C.-Y. Cynthia. (2013). Paradox on the Plains: As water efficiency increases, so can water use. California WaterBlog. URL: <http://californiawaterblog.com/2013/08/13/paradox-on-the-plains-as-water-efficiency-increases-so-can-water-use/>
- Lin, C.-Y. Cynthia. (2013). The unintended consequences of incentive-based groundwater conservation programs: A study using spatial data. Energy Dimensions. URL: <http://www.energydimensions.net/the-unintended-consequences-of-incentive-based-groundwater-conservation-programs-a-study-using-spatial-data/>
- Lin, C.-Y. Cynthia. (2013). Incentive-based groundwater conservation programs may have unintended results. California State Controller John Chiang Statement of General Fund Cash Receipts and Disbursements, 7 (6), 5-6.

- Yi, Fujin, C.-Y. Cynthia Lin, and Karen E. Thome. (2013). An analysis of the effects of government subsidies and the renewable fuel standard on the fuel ethanol industry. Policy brief, University of California at Davis Policy Institute for Energy, Environment and the Economy.
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- Lin, C.-Y. Cynthia. (2005). Estimating annual and monthly supply and demand for world oil: A dry hole? In William W. Hogan (Ed.), Repsol YPF – Harvard Kennedy School Fellows 2003-2004 Research Papers (pp. 213-249). Cambridge, MA: Harvard University.
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- Lin, C.-Y. Cynthia. (2005). Optimal world oil extraction: Calibrating and simulating the Hotelling model. In William W. Hogan (Ed.), Repsol YPF – Harvard Kennedy School Fellows 2003-2004 Research Papers (pp. 251-266). Cambridge, MA: Harvard University.
- Lin, C.-Y. Cynthia. (2004). Regulatory delegation: Theory and application to environmental federalism. In Gregory T. Papanikos (Ed.), Competition, Regulation and Protection: Essays from an International Conference on Industrial Organization, Law and Economics (pp. 79-90). Athens: Athens Institute for Education and Research.
- Lin, C.-Y. Cynthia. (2001). The scholar as activist: A colloquium explores these dual roles. Harvard Graduate School of Arts and Sciences Bulletin, XXX (9), 1-3.
- Lin, C.-Y. Cynthia. (2000). Trends in ozone smog. Senior thesis, Harvard University.

## **WORKING PAPERS**

- “Groundwater under open access: A structural model of the dynamic common pool extraction game”, with Louis Sears and M. Todd Walter
- “Migration dynamics, strategy, and policy”, with Rubén Irvin Rojas Valdés and J. Edward Taylor
- “The economics of decision-making for crop disease control”, with Christine L. Carroll, Colin A. Carter, and Rachael E. Goodhue
- “The world oil market and OPEC: A structural econometric model”, with Khaled H. Kheiravar and Amy Myers Jaffe
- “Supply and demand in the Chinese automobile market: A random coefficients mixed oligopolistic differentiated products model”, with Yuan Chen
- “A dynamic model of subsidies: Theory and application to the ethanol industry”, with Fujin Yi and Karen E. Thome
- “Peer effects, take-up, and usage of subsidized goods: A structural model of the multi-stage dynamic game”, with Xiaochen Ma, Scott Rozelle, and Sean Sylvia
- “Sustainable pest management, beliefs, and behavior: A dynamic bioeconomic analysis”, with D. Adeline Yeh and Miguel I. Gómez

“Food safety and restaurant food”, with Shuyang Si, Aaron A. Adalja, Miguel I. Gómez, and Chen Zhu

“Ethanol plant investment and government policy: A dynamic structural econometric model”, with Karen E. Thome

“Fuel efficiency policies in the Chinese automobile market: Evidence from a random coefficients mixed oligopolistic differentiated products model”, with Yuan Chen

“Behavioral responses to price and quantity instruments: Theory and experimental evidence”, with David R. Heres

“Moment-based Markov equilibrium estimation of high-dimension dynamic games: An application to groundwater management in California”, with Louis Sears, Gerald Torres, and M. Todd Walter

“Climate change policy: Dynamics, strategy, and the Kyoto Protocol”, with Saleh Zakerinia

“Pesticide spraying and disease forecasts: A dynamic structural econometric model of grape growers in California”, with Olena Sambucci and Travis J. Lybbert

“Public transit investment and traffic congestion policy”, with Justin Beaudoin and Y. Hossein Farzin

“Neighborhood effects in migration”, with Rubén Irvin Rojas Valdés and J. Edward Taylor

“Dual rights to groundwater: Theory and application to California”, with Louis Sears

“On the design of oil production contracts: Insights from a dynamic model”, with Abbas Ghandi

“Market power in the world oil market: Evidence for an OPEC cartel and an oligopolistic non-OPEC fringe”

“Alternative vehicle supply and demand in the Chinese automobile market”, with Yuan Chen

“Supply chain externalities and agricultural disease”, with Christine L. Carroll, Colin A. Carter, and Rachael E. Goodhue

“What factors affect the decision to invest in a fuel ethanol plant?: A structural model of the ethanol investment timing game”, with Fujin Yi

“A theory of regulatory federalism”

“The effects of climate change on agricultural groundwater extraction”, with Ernst Bertone Oehninger and Michael R. Springborn

“Interjurisdictional spatial externalities in groundwater management”, with Louis Sears, David Lim, Gerald Torres, and M. Todd Walter

“The rate of return to research and development in energy”, with David Corderi Novoa

“Ordeal mechanisms, information and the cost-effectiveness of subsidies: Evidence from subsidized eyeglasses in rural China”, with Sean Sylvia, Xiaochen Ma, Yaojiang Shi, and Scott Rozelle

“Is public transit’s ‘green’ reputation deserved?: Evaluating the effects of transit supply on air quality”, with Justin Beaudoin

“The effects of climate change on crop choice and agricultural variety”, with Ernst Bertone Oehninger and Michael R. Springborn

“On the optimality of a fishery moratorium”, with Brian B. Shin and Jon M. Conrad

- “Optimal forest management for interdependent products: A nested dynamic bioeconomic model and application to bamboo”, with Tong Wu, David R. Just, Jiancheng Zhao, Zhangjun Fei, and Qiang Wei
- “Adjudicated groundwater property rights: A structural model of the dynamic game among groundwater users in California”, with Louis Sears, Gerald Torres, and M. Todd Walter
- “Ethanol plant investment in Canada: A structural model”, with Fujin Yi
- “Climate change, groundwater, crop choice, and irrigation technology: A review of recent studies”, with Ernst Bertone Oehninger and Michael R. Springborn
- “The effects of fuel subsidies on air quality: Evidence from the Iranian subsidy reform”, with Khaled H. Kheiravar
- “Pollution avoidance and willingness-to-pay: Evidence from travel mode choice in Beijing”, with Dingyi Li and Shanjun Li
- “Managing common pool resources: Lessons from groundwater resource extraction in California”, with Louis Sears, Gerald Torres, and M. Todd Walter
- “The effects of innovation on income inequality in China”, with Qingchun Liu
- “The effects of China’s biofuel policies on agricultural and ethanol markets”, with Shuyang Si, James A. Chalfant, and Fujin Yi
- “On the optimal moratorium in an overfished fishery: The case of Canadian cod”, with Jon M. Conrad and Brian B. Shin
- “The effects of an emissions cap on agriculture”, with Isabel Call
- “On the optimal allocation of regulatory power for public goods provision”
- “Environmental policies in the transportation sector: Taxes, subsidies, mandates, restrictions, and investment”, with Justin Beaudoin, Yuan Chen, David R. Heres, Khaled H. Kheiravar, Fujin Yi, and Wei Zhang
- “The effects of migration and remittances on productive investment in rural Mexico”, with Michael Castelhana, Daniel A. Sumner, and J. Edward Taylor
- “The economics of sustainable agricultural groundwater management: Recent findings”, with Louis Sears, Ernst Bertone Oehninger, and David Lim
- “Ten scalable solutions for bending the climate change curve the California way”, with Veerabhadran Ramanathan, Daniel M. Kammen, Fonna Forman, Jon Christensen, Lifang Chiang, Juliann E. Allison, Maximilian Auffhammer, David Auston, Anthony D. Barnosky, William D. Collins, Steven J. Davis, Susanna B. Hecht, Teenie Matlock, Daniel Press, Doug Rotman, Scott Samuelson, Gina Solomon, and Byron Washom
- “The effects of public transportation and the built environment on the number of civilian vehicles in China”, with Qingchun Liu
- “The effects of Nature on learning in games”
- “The economics of migration and migration policy in rural Mexico”, with Rubén Irvin Rojas Valdés and J. Edward Taylor
- “The producer surplus associated with gasoline fuel use in the United States”, with Yongling Sun, Mark A. Delucchi and Joan M. Ogden

“Using observed ozone-temperature relationships to project the effect of future climate change on ozone exceedances in the northeastern United States”, with Loretta J. Mickley, Katharine M. Hayhoe, Ed P. Maurer, Christian Hogrefe, Patrick L. Kinney, and Daniel J. Jacob

## GRANTS

USDA/NIFA Innovations at the Nexus of Food, Energy and Water Systems (INFEWS) grant (\$2,412,490). Principal Investigators: C. Lindsay Anderson, C.-Y. Cynthia Lin Lawell, Ariel Ortiz-Bobea, Scott Steinschneider, M. Todd Walter, and Peter B. Woodbury. Awarded September 2019.

Joint Environmental Defense Fund (EDF) - Atkinson Post-doctoral Fellowship Grant (\$146,000). Principal Investigators: Andrew B. Ayres, Christina Babbitt, Suzi Kerr, C.-Y. Cynthia Lin Lawell, and Daniel Willard. Awarded June 2019.

Engaged Cornell Supplemental Academic Venture Fund Grant (\$3,940). Principal Investigator: David R. Just. Co-Principal Investigators: Bryan Danforth, Miguel Gómez, C.-Y. Cynthia Lin Lawell, and Katja Poveda. Collaborators: Heather Grab, Craig Kahlke, Maria van Dyke, and Steven W. Wilcox. Awarded June 2019.

Atkinson Center for a Sustainable Future Academic Venture Fund (AVF) Award (\$101,327). Principal Investigator: David R. Just. Co-Principal Investigators: Bryan Danforth, Miguel Gómez, C.-Y. Cynthia Lin Lawell, and Katja Poveda. Collaborators: Heather Grab, Craig Kahlke, Maria van Dyke, and Steven W. Wilcox. Awarded May 2019.

Environmental Defense Fund (EDF) – Cornell Innovation for Impact Grant (\$9,950). Principal Investigators: James Fine, C.-Y. Cynthia Lin Lawell, Timothy O’Connor, and Elizabeth Brooke Stein. Collaborators: Saleh Zakerinia. Awarded February 2019.

Cornell University Business of Food Small Grant (\$7,500). Lead Principal Investigator: Aaron A. Adalja. Co-Principal Investigators: Miguel I. Gómez and C.-Y. Cynthia Lin Lawell. Awarded May 2018.

Cornell University Institute for the Social Sciences Small Grant (\$6,000). Principal Investigator: C.-Y. Cynthia Lin Lawell. Awarded April 2018.

National Center for Sustainable Transportation Federal Research Grant (\$74,805.48). Principal Investigator: C.-Y. Cynthia Lin Lawell. Awarded August 2015.

Giannini Foundation of Agricultural Economics minigrant (\$26,817.17). Principal Investigator: C.-Y. Cynthia Lin. Awarded June 2015.

National Center for Sustainable Transportation Federal Research Seed Grant (\$25,000). Principal Investigator: C.-Y. Cynthia Lin. Awarded July 2014.

Resources for the Future Retrospective Studies of Regulatory Performance Grant (\$37,686.94). Principal Investigators: Aaron Smith, C.-Y. Cynthia Lin, and Gabriel E. Lade. Awarded September 2013.

Giannini Foundation of Agricultural Economics minigrant (\$24,851). Principal Investigator: C.-Y. Cynthia Lin. Awarded June 2012.

UC-Davis Committee on Research Academic Senate Faculty Research Grant (\$12,000). Principal Investigator: C.-Y. Cynthia Lin. Awarded June 2012.

UC-Davis Sustainable Transportation Center Faculty Research Grant (\$59,995.99). Principal Investigator: C.-Y. Cynthia Lin. Awarded August 2011.

Giannini Foundation of Agricultural Economics minigrant (\$24,585). Principal Investigator: C.-Y. Cynthia Lin. Awarded June 2011.

UC-Davis Sustainable Transportation Center Seed Grant (\$9,919.34). Principal Investigator: C.-Y. Cynthia Lin. Awarded June 2011.

UC-Davis Hellman Fellowship (\$20,638). Principal Investigator: C.-Y. Cynthia Lin. Awarded May 2011.

ITS Multi-campus Research Program and Initiative on Sustainable Transportation grant (\$17,000). Principal Investigator: C.-Y. Cynthia Lin. Awarded January 2011.

UC-Davis Chevron Research Grant (\$301,037). Principal Investigator: C.-Y. Cynthia Lin. Awarded December 2007.

UC-Davis Chevron Research Grant (\$369,308). Principal Investigator: C.-Y. Cynthia Lin. Co-PIs: Mark Delucchi, Christopher Knittel, and Daniel Sperling. Awarded February 2007.

## **TEACHING EXPERIENCE**

### **Cornell University**

AEM 4500 / ECON 3860 / AEM 5500 (formerly AEM 4500 / ECON 4810): Resource Economics (2018 - present)

AEM 7040 (formerly AEM 6940): Applied Macroeconomics (2019 - present)

AEM 7500: Resource Economics (2018 - present)

### **University of California at Davis**

ARE 175/ESP 175: Natural Resource Economics (2008-2017)

ARE 254: Dynamic Optimization Techniques with Economic Applications (2011-2016)

ARE 255 (formerly ARE 276 and ARE 298): Applied Dynamic Structural Econometric Modeling (2007-2017)

ARE147/M: Resource and Environmental Policy Analysis (Spring 2016)

ECL 298: Environmental Policy and Human Ecology Core Course (Winter 2010)

ARE 199: Special Study for Advanced Undergraduates (2007-2017)

ECN 194HB: Honors Thesis in Economics (2011-2012)

Faculty Mentor, Vertical Integration of Research and Education in the Mathematical Sciences (VIGRE) Research Experiences for Undergraduates (Summer 2007)

Guest Lecturer, ARE 176: Environmental Economics (November 17, 2009)

Guest Lecturer, Engineering Civil and Environmental (ECI) 269: Transportation – Air Quality (May 2, 2007)

Guest Lecturer, Engineering Biological Systems (EBS) 216: Energy Systems (March 14, 2007)

### **Harvard University**

Participant in Discussion Leading Master Class, Harvard University Derek Bok Center for Teaching and Learning (2005-2006)

Teaching Fellow for Prof. Martin Weitzman, Economics 1025: “Theory of Capital and Income” (Fall 2002 and Fall 2003)

## PRESENTATIONS

- “Panel Moderator: Climate Change and Energy Transition”. Dyson Grad Reunion. Cornell University. June 2022.
- “Environmental, Energy and Resource Economics”. 2021 Dyson Advisory Council Meeting. May 2021.
- “Green Economic Recovery: Creating a Cleaner Planet Post COVID-19 -- Economics and Policy”. Cornell University Alumni Affairs & Development, and Cornell Atkinson Center for Sustainability. July 2020.
- “Climate change policy: Dynamics, strategy, and the Kyoto Protocol”. Perspectives on the Climate Change Challenge Seminar. Cornell University. May 2020.
- “Comments on: ‘Strategic reporting and the effects of water use in hydraulic fracturing on local groundwater levels in Texas’, by Jesse Backstrom”. American Economic Association Annual Meeting. San Diego. January 2020.
- “Agricultural-to-energy land use transitions: A FEW system modeling framework”. New York State Energy Research and Development Authority (NYSERDA) Clean Energy for Agriculture Task Force Meeting. November 2019.
- “A structural econometric model of the dynamic game between petroleum producers in the world petroleum market”. Penn State-Cornell Conference on Econometrics and Industrial Organization. Cornell University. September 2019.
- “Dynamic behavior and strategic interactions among petroleum producers”. Harvard Environmental Economics Program Research Workshop. Harvard University. September 2019.
- “Climate change policy: Dynamics, strategy, and the Kyoto Protocol”. Climate and Finance Workshop. Cornell University. July 2019.
- “Comments on: ‘Relinquishing riches: Auctions vs informal negotiations in Texas oil and gas leasing’, by Thomas R. Covert and Richard L. Sweeney”. Northeast Workshop on Energy Policy and Environmental Economics. Harvard University. June 2019.
- “Economics of irrigation and water use”. Irrigation Agriculture Modernization Project Team Visit from India. Cornell University IP-CALS. April 2019.
- “Supply, demand, and the effects of government policy in the Chinese automobile market: A random coefficients mixed oligopolistic differentiated products model”. Joint Cornell Institute for China Economic Research (CICER) and Emerging Markets Institute (EMI) Emerging Markets Research Day. Ithaca, NY. April 2019.
- “A dynamic model of subsidies: Theory and application to the ethanol industry”. International Industrial Organization Conference. Boston, MA. April 2019.
- “Comments on: ‘Shades of integration: The restructuring of the U.S. electricity markets’, by Alexander MacKay and Ignacia Mercadal”. International Industrial Organization Conference. Boston, MA. April 2019.
- “A structural econometric model of the dynamic game between petroleum producers in the world petroleum market”. International Industrial Organization Conference. Boston, MA. April 2019.
- “Comments on: ‘Optimal dynamic hotel pricing’, by Sungjin Cho, Gong Lee, John Rust, and Mengkai Yu”. International Industrial Organization Conference. Boston, MA. April 2019.
- “Supply, demand, and the effects of government policy in the Chinese automobile market: A random coefficients mixed oligopolistic differentiated products model”. International Industrial Organization Conference. Boston, MA. April 2019.
- “Comments on: ‘Measuring long-run price elasticities in urban travel demand’, by Javier D. Donna”. International Industrial Organization Conference. Boston, MA. April 2019.
- “A structural econometric model of the dynamic game between petroleum producers in the world petroleum market”. Cornell University. February 2019.
- “A structural econometric model of the dynamic game between petroleum producers in the world petroleum market”. IO Fest. Stanford University. December 2018.
- “A structural econometric model of the dynamic game between petroleum producers in the world petroleum market”. Econometrics Seminar, Georgetown University Department of Economics. Washington, DC. November 2018.



“Supply, demand, and the effects of government policy in the Chinese automobile market: A random coefficients mixed oligopolistic differentiated products model”. Lead Speaker, University of Michigan Conference on Transportation, Economics, Energy, and the Environment (TE3). Ann Arbor, MI. October 2018.

“Panel discussion: Global transportation energy demand”. University of Michigan Conference on Transportation, Economics, Energy, and the Environment (TE3). Ann Arbor, MI. October 2018.

“Sustainability economics and management”. Business of Sustainability Faculty Sustainability Research Series. Cornell University SC Johnson College of Business. October 2018.

“Supply, demand, and the effects of government policy in the Chinese automobile market: A random coefficients mixed oligopolistic differentiated products model”. Brookings Tsinghua Center Conference 2018: Environmental and transportation issues in urban environments. Beijing, China. September 2018.

“The effects of subsidies and mandates: A dynamic model of the ethanol industry”. National Bureau of Economic Research (NBER) Summer Institute Environmental and Energy Economics Workshop. Cambridge, MA. July 2018.

“A structural econometric model of the dynamic game between petroleum producers in the world petroleum market”. Northeast Workshop on Energy Policy and Environmental Economics. Columbia University. May 2018.

“Comments on: ‘Pollution offshoring and infant health: The case of battery recycling’, by Shinsuke Tanaka, Kensuke Teshima, and Eric Verhoogen”. Northeast Workshop on Energy Policy and Environmental Economics. Columbia University. May 2018.

“Property rights and groundwater management in the High Plains Aquifer”. Special Symposium in Memory of Gregory L. Poe. Cornell University. April 2018.

“The effects of subsidies and mandates: A dynamic model of the ethanol industry”. Purdue University. West Lafayette, Indiana. April 2018.

“The effects of subsidies and mandates: A dynamic model of the ethanol industry”. Cornell University. Ithaca, NY. March 2018.

“Environmental, energy, and resource economics”. Cornell University. Ithaca, NY. March 2018.

“The economics of decision-making for crop disease control”. Cornell University. Ithaca, NY. December 2017.

“A structural econometric model of the dynamic game between petroleum producers in the world petroleum market”. Colorado School of Mines. Golden, CO. October 2017.

“The effects of subsidies and mandates: A dynamic model of the ethanol industry”. Stanford Institute for Theoretical Economics: Empirical Implementation of Theoretical Models of Strategic Interaction and Dynamic Behavior. Stanford, CA. July 2017.

“The effects of subsidies and mandates: A dynamic model of the ethanol industry”. Northeast Workshop on Energy Policy and Environmental Economics. Dartmouth College. June 2017.

“Discussion of price elasticity of demand”. Short-Term Domestic Gasoline Consumption Modeling Workshop. U.S. Energy Information Administration. Washington, DC. January 2017.

“Strategic interactions and dynamic behavior in natural resources, the environment, and energy”. Cornell University. Ithaca, NY. December 2016.

“Investment in corn-ethanol plants in the Midwestern United States: A structural econometric model of a dynamic game”. Statistical Methodology in the Social Sciences 2016. University of California at Davis Institute for Social Sciences. Davis, CA. October 2016.

“Strategic interactions, dynamic behavior, and natural resources”. Natural Resources and Governance Workshop. NHH – Norwegian School of Economics. Bergen, Norway. September 2016.

“The economics of groundwater management”. Bacon Lectureship Honorable Mention. University of California Center Sacramento. August 2016.

“Short- vs. long-term decision-making for disease control: A dynamic structural econometric model of Verticillium wilt management”. University of California at Davis. May 2016.

“Panel discussion: Combatting droughts and climate change: Experiences from Australia, Israel and Spain”. Water Pricing for a Dry Future: Policy Ideas from Abroad and their Relevance to California. Sacramento. February 2016.

“Comments on: ‘An evaluation of the toxicity of hydraulic fracturing injectants’, by Timothy Fitzgerald and Charles F. Mason”. American Economic Association Annual Meeting. San Francisco. January 2016.

“A theory of regulatory federalism”. 11<sup>th</sup> World Congress of the Econometric Society. Montreal. August 2015.

“Wind turbine shutdowns and upgrades in Denmark: Timing decisions and the impact of government policy”. Agricultural and Applied Economics Association (AAEA) Annual Meeting. San Francisco. July 2015.

“Wind turbine shutdowns and upgrades in Denmark: Timing decisions and the impact of government policy”. National Bureau of Economic Research (NBER) Summer Institute Environmental and Energy Economics Workshop. Cambridge, MA. July 2015.

“Wind turbine shutdowns and upgrades in Denmark: Timing decisions and the impact of government policy”. Stanford Institute for Theoretical Economics: Empirical Implementation of Theoretical Models of Strategic Interaction and Dynamic Behavior. Stanford, CA. July 2015.

“An analysis of alternative biofuel policies in the US”. Biobased Industry Center Advisory Board Meeting. Iowa State University (via WebEx). June 2015.

“The design and effects of biofuel policies”. Eighth Annual Berkeley Bioeconomy Conference: The Future of Biofuels. Berkeley, CA. April 2015.

“An analysis of the effects of government subsidies and the Renewable Fuel Standard on the fuel ethanol industry: A structural econometric model”. University of California at Davis Agricultural and Resource Economics Ph.D. Program 50<sup>th</sup> Anniversary. Davis, CA. March 2015.

“Groundwater”. University of California at Davis Agribusiness Workshop. Davis, CA. March 2015.

“The economics of energy: Dynamic behavior, strategic interactions and government policy”. CITRUS@Berkeley Research Exchange Seminar. Berkeley, CA. November 2014.

“Wind turbine shutdowns and upgrades in Denmark: Timing decisions and the impact of government policy”. Harvard Environmental Economics Program Research Workshop. Cambridge, MA. October 2014.

“Wind turbine shutdowns and upgrades in Denmark: Timing decisions and the impact of government policy”. Texas A&M. College Station, TX. September 2014.

“Market power in the world oil market: Evidence for an OPEC cartel and an oligopolistic non-OPEC fringe”. 37<sup>th</sup> International Association for Energy Economics International Conference. New York City. June 2014.

“Dynamic optimization and dynamic games in economics”. Graduate Group in Applied Math Mini-Conference. University of California at Davis. January 2014.

“The effects of energy prices on groundwater extraction in agriculture in the High Plains Aquifer”. American Economic Association Annual Meeting. Philadelphia. January 2014.

“Strategic decision-making with information and extraction externalities: A structural model of the multi-stage investment timing game in offshore petroleum production”. Georgia Institute of Technology. Atlanta, Georgia. August 2013.

“An analysis of the effects of government subsidies on the fuel ethanol industry: A structural econometric model”. 32<sup>nd</sup> United States Association for Energy Economics (USAEE) — International Association for Energy Economics (IAEE) North American Conference. Anchorage, AK. July 2013.

“Energy prices and groundwater extraction in agriculture”. Association of Environmental and Resource Economists Conference. Banff, Canada. June 2013.

“An analysis of the effects of government subsidies on the fuel ethanol industry: A structural econometric model”. Berkeley Bioeconomy Conference. Berkeley, CA. March 2013.

“Strategic decision-making with information and extraction externalities: A structural model of the multi-stage investment timing game in offshore petroleum production”. American University. Washington, DC. February 2013.

“Strategic decision-making with information and extraction externalities: An empirical analysis of investment timing decisions in offshore petroleum production”. American Economic Association Annual Meeting. San Diego. January 2013.

“The effects of policy and strategic factors on investment in fuel-ethanol plants”. American Economic Association Annual Meeting. San Diego. January 2013.

“Strategic decision-making with information and extraction externalities: An empirical analysis of investment timing decisions in offshore petroleum production”. 31<sup>st</sup> United States Association for Energy Economics (USAEE) — International Association for Energy Economics (IAEE) North American Conference. Austin, TX. November 2012.

“Strategic decision-making with information and extraction externalities: An empirical analysis of investment timing decisions in offshore petroleum production”. University of Wisconsin-Madison. September 2012.

“An analysis of ethanol investment decisions”. 3<sup>rd</sup> Annual All-UC Conference on Energy and Environmental Economics. Berkeley. June 2012.

“Research highlights”. UC-Davis Sustainable Transportation Energy Pathways Advisory Board Meeting. University of California at Davis. June 2012.

“Economic, policy and business strategy in energy”. Brightsource Energy. Oakland, CA. March 2012.

“The effects of policy and strategic factors on investment in fuel-ethanol plants”. Berkeley Bioeconomy Conference. Berkeley, CA. March 2012.

“Climbing gas prices”. Insight, Capital Public Radio. March 2012.

“Endogeneity in the environmental Kuznets curve: An instrumental variables approach”. American Economic Association Annual Meeting. Chicago. January 2012.

“Gasoline demand elasticities, gasoline price volatility, and the optimal gas tax for California”. Sacramento Economics Roundtable. September 2011.

“The effects of policy and strategic factors on investment in fuel-ethanol plants”. Rice University. September 2011.

“The effects of policy and strategic factors on investment in fuel-ethanol plants”. Association of Environmental and Resource Economists Conference. Seattle. June 2011.

“Do firms interact strategically?: An empirical analysis of investment timing decisions in offshore petroleum production”. University of California at Riverside. April 2011.

“Have OPEC producers colluded?: An empirical dynamic model of OPEC and non-OPEC”. OPEC at 50: Its past, present and future in a carbon-constrained world. National Energy Policy Institute/University of Tulsa. March 2011.

“Global energy issues”. UC-Davis International Relations Student Association Guest Speaker. University of California at Davis. February 2011.

“Investment in biofuels: The role of oil companies”. UC-Davis Sustainable Transportation Energy Pathways (STEPS) Symposium. University of California at Davis. January 2011.

“The effects of policy and strategic factors on investment in fuel-ethanol plants”. IO Fest 2010: The Annual Berkeley-Stanford Conference in Industrial Organization. Stanford University. November 2010.

“Do firms interact strategically?: An empirical analysis of investment timing decisions in offshore petroleum production”. University of Alberta. October 2010.

“Investment in corn-ethanol plants in the Midwestern United States”. Duke University. October 2010.

“Do firms interact strategically?: An empirical analysis of investment timing decisions in offshore petroleum production”. Triangle Resource and Environmental Economics Seminar. North Carolina. October 2010.

“How should standards be set and met?: On the allocation of regulatory power in a federal system”. University of Nevada at Reno. October 2010.

“Investment in fuel-ethanol plants”. Research Sketch. National Bureau of Economic Research (NBER) Summer Institute Environmental and Energy Economics Workshop. July 2010.

“The economics of investment in biofuels”. Third Berkeley Conference on the Bioeconomy. Berkeley, CA. June 2010.

“The optimal gas tax for California”. U.S. Energy Policy in Transition conference. Gainesville, FL. March 2010.

“Strategic behavior and government policy”. Graduate Group in Applied Math Mini-Conference. University of California at Davis. January 2010.

“Gasoline demand elasticities, gasoline price volatility, and the optimal gas tax for California”. 11<sup>th</sup> Occasional California Workshop on Environmental and Natural Resource Economics. Santa Barbara, CA. October 2009.

“Gasoline demand elasticities, gasoline price volatility, and the optimal gas tax for California”. 2009 Harvard Environmental Economics Alumni Workshop. September 2009.

“Research on natural resources”. Visiting Delegation from Henan Province of P.R. China. University of California at Davis. September 2009.

“Understanding, modeling and analyzing energy markets”. UC-Davis Sustainable Transportation Energy Pathways Advisory Board Meeting. Asilomar. July 2009.

“How should standards be set and met?: On the allocation of regulatory power in a federal system”. University of California at Riverside. June 2009.

“An empirical dynamic model of OPEC and Non-OPEC”. Harvard University. February 2009.

“An empirical dynamic model of OPEC and Non-OPEC”. University of California at San Diego. January 2009.

“Energy outlook: Prospects and policies”. California State Controller Council of Economic Advisors meeting. Sacramento. December 2008.

“Dynamic and strategic decision-making in the energy industry”. Exxon-Mobil campus visit. Institute of Transportation Studies, University of California at Davis. July 2008.

“How should standards be set and met?: On the allocation of regulatory power in a federal system”. 10<sup>th</sup> Occasional Workshop on Environmental and Resource Economics. Santa Barbara, CA. March 2008.

“Do firms interact strategically?: A structural model of the multi-stage investment timing game in offshore petroleum production”. University of California at Berkeley. February 2008.

- “Do firms interact strategically?: A structural model of the multi-stage investment timing game in offshore petroleum production”. American Economic Association Annual Meeting. New Orleans. January 2008.
- “An empirical dynamic model of OPEC and Non-OPEC”. 1<sup>st</sup> International Association for Energy Economics (IAEE) Asian conference. Taipei. November 2007.
- “Modeling OPEC and non-OPEC behavior: A structural econometric approach”. IO Fest 2007: The 13<sup>th</sup> Annual Berkeley-Stanford Conference in Industrial Organization. Berkeley Haas School of Business. October 2007.
- “Estimating and testing a dynamic model of OPEC and non-OPEC”. 27<sup>th</sup> United States Association for Energy Economics (USAEE) — International Association for Energy Economics (IAEE) North American Conference. Houston. September 2007.
- “Business and investment strategies for clean tech commodities”. Panel on Biofuels: Successful Business Models for Clean Tech Commodities. Clean Technology Group, Entrepreneurship Program, MIT Club of Northern California. Google, Mountain View, CA. September 2007.
- “Fossil fuels research highlights”. UC-Davis Sustainable Transportation Energy Pathways Advisory Board Meeting. Asilomar. August 2007.
- “Strategic behavior and government policy”. Research Sketch. National Bureau of Economic Research (NBER) Summer Institute Workshop on Public Policy and the Environment. Cambridge, MA. July 2007.
- “Managing energy markets: Policies and implications”. Swedish Parliament visit: New Energy and Techniques for a Better Future. University of California at Davis. June 2007.
- “Energy: A Giannini jingle”. Annual Meeting of the Giannini Foundation of Agricultural Economics. UC-Berkeley. May 2007.
- “A theory of regulatory delegation, with a framework for application to ozone smog regulation”. Ronald Coase Institute Conference on Institutional Research. Chicago. Dec. 2006.
- “Do firms interact strategically?: An empirical analysis of investment timing decisions in offshore petroleum production”. 9<sup>th</sup> Occasional Workshop on Environmental and Resource Economics. Santa Barbara. Nov. 2006.
- “How should standards be set and met?: An incomplete contracting approach to delegation in regulation”. University of California at Berkeley. Oct. 2006.
- “How should standards be set and met?: An incomplete contracting approach to delegation in regulation”. University of California at Davis. Oct. 2006.
- “Do firms interact strategically?: An empirical analysis of investment timing decisions in offshore petroleum production”. 3<sup>rd</sup> World Congress of Environmental and Resource Economists. Kyoto. July 2006.
- “How should standards be set and met?: An incomplete contracting approach to delegation in regulation”. 3<sup>rd</sup> World Congress of Environmental and Resource Economists. Kyoto. July 2006.

### **2003-2006:**

- International Industrial Organization Conference, 2006
- University of California at Berkeley, 2006
- University of California at Davis, 2006
- University of Hawaii at Manoa, 2006
- Rice University, 2006
- Soka University, 2006
- Cornerstone Research, 2005
- The Brattle Group, 2005
- Repsol YPF – Harvard Seminar on Energy, 2005
- Harvard University Environmental Economics and Policy Seminar, 2005
- Harvard Environmental Economics Workshop, 2005
- Interdisciplinary Spatial Statistics Workshop, 2004 (Paris)
- INFER Conference 2004: Environmental Economics: Institutions, Competition, Rationality, 2004 (Wuppertal, Germany)
- First Bonzenfreies Colloquium on Market Dynamics and Quantitative Economics, 2004 (Alessandria, Italy)
- NBER Summer Institute Workshop on Public Policy and the Environment, 2004 (research sketch)
- Second World Congress of the Game Theory Society, 2004 (Marseille)
- International Conference on Industrial Organization, Law and Economics, 2004 (Chalkidiki, Greece)
- Harvard University Environmental Economics and Policy Seminar, 2004
- Repsol YPF – Harvard Seminar on Energy, 2003
- NBER Summer Institute Workshop on Public Policy and the Environment, 2003 (research sketch)

## **WORKSHOPS, SUMMER PROGRAMS AND OTHER PROFESSIONAL MEETINGS**

Cornell Faculty Leadership Development Program (2018)  
National Bureau of Economic Research Summer Institute Econometrics Minicourse (2007)  
Stanford University Woods Institute for the Environment Inter-University Scholars Program: Engaging with California Government on Climate Change (2006)  
Harvard University Christensen Discussion-Leading Seminar (2005-2006)  
Ronald Coase Institute Workshop on Institutional Analysis (2004)  
EAERE-FEEM-VIU Summer School: Dynamic Models in Economics and the Environment, scholarship recipient (2004)  
XIV Seminario Repsol YPF ~ Harvard, A Coruña (2004)  
EAERE-FEEM-VIU Summer School: Political Economy of the Environment (2003)  
Interuniversity Centre for Game Theory and its Applications Summer School on Game Theory and the Environment, fellowship recipient (2002)  
Social Science Research Council Program in Applied Economics Summer Workshop: Risk and Uncertainty (2002)  
Social Science Research Council Program in Applied Economics Summer Workshop (2001)

## **SERVICE**

### **Professional**

Reviewer, Jinan University Institute for Economic and Social Research (IESR) tenure case (2023)  
Editor, Elgar Encyclopedia of Environmental and Resource Economics (2022 - present)  
Reviewer, University of Kansas Department of Economics tenure case (2020)  
Reviewer, University of British Columbia, Department of Economics, Philosophy and Political Science, Professor promotion case (2020)  
Reviewer, Conference on Transportation, Economics, Energy, and the Environment (2019)  
Reviewer, North East Universities Development Consortium (NEUDC) 2018 Cornell University conference (2018)  
Reviewer, University of Richmond Robins School of Business, Economics Department tenure case (2018)  
Member, Scientific Programme Committee for the 6<sup>th</sup> World Congress of Environmental and Resource Economists (2018)  
Reviewer, Association of Environmental and Resource Economists Summer Conference (2017)  
Reviewer, U.S. Association for Energy Economics North American Conference (2016)  
Reviewer, MIT Press (2016)  
Member, Program Committee for the 5<sup>th</sup> Annual Summer Conference of the Association of Environmental and Resource Economists (2016)  
Discussant, American Economic Association Annual Meeting (2016)  
Lead Author, University of California systemwide report on Bending the Curve: 10 Scalable Solutions for Carbon Neutrality and Climate Stability (2015)  
Reviewer, University of Texas at Austin Bureau of Economic Geology promotion case (2015)  
Member, Program Committee for the 4<sup>th</sup> Annual Summer Conference of the Association of Environmental and Resource Economists (2015)  
Presidential Advisor, U.S. Association for Energy Economics (2014-2015)  
Reviewer, Columbia University Center on Global Energy Policy (2014)

Reviewer, Resources for the Future Senior Fellow promotion case (2014)  
 Reviewer, Handbook of Water Economics and Institutions (2014)  
 Guest Editor, Research in Transportation Economics Special Issue on Sustainable Transportation (2014-2015)  
 Reviewer, National Science Foundation economics grant (2013)  
 Reviewer, three-volume set on Public Economics: The Government's Role in American Economics (2013)  
 Member, U.S. Association for Energy Economics Membership Committee (2013-2015)  
 President, U.S. Association for Energy Economics Bay Area Chapter (2012 - present)  
 Member, Energy Dimensions Advisory Panel (2012 - 2013)  
 Associate Editor, Environmental Studies, Versita (2012-2013)  
 Session chair, Association of Environmental and Resource Economists session, Agricultural and Applied Economics Association Annual Meeting (2012)  
 Session chair, American Economic Association Annual Meeting (2012)  
 Member, U.S. Association for Energy Economics Bay Area Chapter Steering Committee (2012)  
 Reviewer, National Science Foundation economics grant (2012)  
 Reviewer, Annual Meeting of the Western Agricultural and Resource Economics Association (2012)  
 Associate Topic Editor, CAMEL (Climate, Adaption, Migration, Electronic Learning) (2011)  
 Referee, University of California Transportation Center research grant (2011)  
 Peer reviewer, EPA grant on “Research on the Design of Policies for Pollution Control Using Market Mechanisms” (2009)  
 Member, California State Controller’s Council of Economic Advisors (2007-2014)  
 Session Chair, 3<sup>rd</sup> World Congress of Environmental and Resource Economists (2006)  
 Session Chair, International Industrial Organization Conference (2006)

#### **Referee for Peer-Reviewed Journals**

Referee, American Economic Review  
 Referee, American Journal of Agricultural Economics [11]  
 Referee, Australian Journal of Agricultural and Resource Economics  
 Referee, American Journal of Economics and Sociology  
 Referee, B.E. Journal of Economic Analysis and Policy  
 Referee, Canadian Journal of Economics [2]  
 Referee, Canadian Public Policy/Analyse de Politiques  
 Referee, Contemporary Economic Policy  
 Referee, Empirical Economics [2]  
 Referee, Energy Economics [11]  
 Referee, Energy Journal [3]  
 Referee, Energy Policy [9]  
 Referee, Energy Research and Social Science  
 Referee, Energy Strategy Reviews  
 Referee, Environmental and Resource Economics  
 Referee, European Economic Review  
 Referee, International Journal of Agricultural Management and Development  
 Referee, International Journal of Production Economics  
 Referee, Journal of Agricultural and Applied Economics [2]  
 Referee, Journal of Agricultural and Resource Economics [2]  
 Referee, Journal of Comparative Economics  
 Referee, Journal of Economic Dynamics and Control  
 Referee, Journal of Economic Geography  
 Referee, Journal of Economics and Management Strategy  
 Referee, Journal of Environmental Economics and Management [17]  
 Referee, Journal of Environmental Economics and Policy  
 Referee, Journal of Political Economy  
 Referee, Journal of Public Economics  
 Referee, Journal of the Association of Environmental and Resource Economists [9]  
 Referee, Journal of Transport Economics and Policy  
 Referee, Journal of Urban Economics  
 Referee, Land Economics [2]

Referee, Public Choice  
Referee, RAND Journal of Economics  
Referee, Resource and Energy Economics [2]  
Referee, Review of Development Economics  
Referee, Review of Economics and Statistics [3]  
Referee, Review of Environmental Economics and Policy [2]  
Referee, Society of Petroleum Engineers Economics and Management [3]  
Referee, Southern Economic Journal  
Referee, Theoretical Economics Letters  
Referee, Transportation Research Part A: Policy and Practice  
Referee, Water Economics and Policy  
Referee, Water Resources and Economics [2]  
Referee, Water Resources Research [2]

### **Cornell University**

Host, A.D. White Professor-at-Large Robert N. Stavins (2023 – present)  
Member, Economics Ph.D. Admissions Committee (2019 - present)  
Reviewer, Cornell China Center 2020 Zhejiang University (ZJU-Cornell) Joint Seed Fund (2020)  
Reviewer, Cornell China Center 2020 Shanghai Jiao Tong University (SJTU-Cornell) Joint Seed Fund (2020)  
Member, Faculty Search Committee in Biological and Environmental Engineering Complex Systems (2019-2020)  
Member, Economics Ph.D. Student Placement Committee (2019-2020)

### **Cornell SC Johnson College of Business**

Member, Faculty Search Committee in Operations, Technology, and Information Management (OTIM) (2022-2023)

### **Cornell Dyson School of Applied Economics and Management**

Chair, Awards Committee (2019 - present)  
Member, Awards Committee (2018-2019)  
Peer Evaluator, Assistant Professor Peer Teaching Evaluation (2018-2019)  
Facilitator, Summer Reading Program Behold the Dreamers Book Discussion (2018)  
Institutional Expert, Job Market Talk and Public Speaking Workshop (2018)  
Member, Faculty Search Committee in Environmental, Energy, and Resource Economics (2017-2018)  
Member, Graduate Studies/Admissions Committee (2017-2018)

### **University of California at Davis**

Member, Hellman Fellowship Review Committee (2015)  
Chair, Institute of Transportation Studies Outstanding Thesis Award committee (2014)  
Judge, Economics and Business Student Association Business Plan Competition (2014)  
Member, Selection Committee for the Provost's Dissertation Year Fellowships (2013)  
Speaker, Passport to Air Quality and Health, Santa Rosa Girl Scouts UC-Davis visit (2009)  
Panelist, Gender and the job market panel (2007)

### **UC-Davis Agricultural and Resource Economics Department**

Chair, Graduate Administrative Committee graduate awards committee (2016)  
Member, Ad-hoc appraisal review committee (2015)  
Member, Henry A. Jastro Research Award committee (2015)  
Member, Applied Econometrics Faculty Search Committee (2014-2015)  
Member, AES proposal ad-hoc review committee (2014)  
Member, Henry A. Jastro Research Award committee (2014)  
Member, Graduate Administrative Committee (2013-2016)  
Member, Ad-hoc appraisal review committee (2013)  
Member, Econometrics Faculty Search Committee (2012-2013)  
Chair, Seminar Committee (2012-2016)  
Reviewer, Econometrics Prelim Committee (2012)  
Member, Environmental and Resource Economics Field Courses Committee (2012)  
Member, Best Dissertation Selection Committee (2012)

Member, Mock interviewer for job market candidate (2011)  
Member, AES proposal ad-hoc review committee (2011)  
Member, AES proposal ad-hoc review committee (2010)  
Member, Undergraduate Advisory Committee (2006-2013)  
Member, Environmental and Resource Economics Field Courses Committee (2009-2010)  
Member, Economics of Agricultural Sustainability Faculty Search Committee (2006-2007)

#### **UC-Davis Environmental Science and Policy Department**

Member, Ad-hoc merit review committee (2016)  
Member, Ad-hoc merit review committee (2015)  
Member, Ad-hoc fiscal-year term review committee (2013)  
Member, Ad-hoc merit review committee (2013)  
Member, Ad-hoc merit review committee (2013)  
Member, Ad-hoc merit review committee (2012)  
Member, AES proposal ad-hoc review committee (2012)  
Member, Ad-hoc appraisal review committee (2011)  
Member, Ad-hoc merit review committee (2011)  
Member, Ad-hoc merit review committee (2010)  
Member, Ad-hoc merit review committee (2009)

#### **Harvard University Department of Economics**

Panelist, Job market panel (2006)

## **MEDIA CITATIONS**

“Contrary to conventional wisdom, market-based or incentive-based environmental policies may actually benefit regulated firms in traditional & #GreenEnergy, by spurring innovation & improvements in production processes, says @CornellDyson economists”. Cornell Dyson on Twitter, @DysonSchool. 12 March 2021. URL: <https://twitter.com/CornellDyson/status/1370449513262022657>

“Les politiques environnementales ne sont pas toujours mauvaises pour les entreprises, selon une étude”. [Comparaland](https://comparaland.com/science-societe-et-autres-fadaises/les-politiques-environnementales-ne-sont-pas-toujours-mauvaises-pour-les-entreprises-selon-une-etude/). 25 February 2021. URL: <https://comparaland.com/science-societe-et-autres-fadaises/les-politiques-environnementales-ne-sont-pas-toujours-mauvaises-pour-les-entreprises-selon-une-etude/>

“Research finds that environmental policy is not always bad for business”. [Florida News Times](https://floridanewstimes.com/research-finds-that-environmental-policy-is-not-always-bad-for-business/147873/). 23 February 2021. URL: <https://floridanewstimes.com/research-finds-that-environmental-policy-is-not-always-bad-for-business/147873/>

“Les politiques environnementales ne sont pas toujours mauvaises pour les entreprises, selon une étude”. [Citizen Side](https://www.citizenside.fr/politiques-environnementales-mauvaises-entreprises-etude-sciencedaily/). 23 February 2021. URL: <https://www.citizenside.fr/politiques-environnementales-mauvaises-entreprises-etude-sciencedaily/>

“La politique environnementale n’est pas toujours mauvaise pour les entreprises, selon les résultats de l’étude”. [Genius Science](https://genius-science.fr/2021/02/23/la-politique-environnementale-nest-pas-toujours-mauvaise-pour-les-entreprises-selon-les-resultats-de-letude/). 23 February 2021. URL: <https://genius-science.fr/2021/02/23/la-politique-environnementale-nest-pas-toujours-mauvaise-pour-les-entreprises-selon-les-resultats-de-letude/>



- “Environmental policy can also improve your business. – Science Inquirer”. jioforme. 23 February 2021. URL: <https://www.jioforme.com/environmental-policy-can-also-improve-your-business-science-inquirer/195514/>
- “Las políticas ambientales no siempre son malas para las empresas, según un estudio”. Nuevo Periodico. 23 February 2021. URL: <https://nuevoperiodico.com/las-politicas-ambientales-no-siempre-son-malas-para-las-empresas-segun-un-estudio/>
- “Environmental policies not always bad for business, study finds”. My Droll. 23 February 2021. URL: <https://mydroll.com/environmental-policies-not-always-bad-for-business-study-finds/>
- “Contrary to conventional wisdom, market-based or incentive-based environmental policies may actually benefit regulated firms in traditional & #GreenEnergy, by spurring innovation & improvements in production processes, says @CornellDyson economists.” Cornell CALS on Twitter, @CornellCALS. 23 February 2021. URL: <https://twitter.com/CornellCALS/status/1364310217668911106>
- “Las políticas ambientales no siempre son malas para los negocios, según un estudio”. Science-things. 23 February 2021. URL: <http://www.science-things.com/releases/2021/02/210222192825.htm>
- “Environmental policies not always bad for business, study finds”. ScienceDaily. 22 February 2021. URL: <https://www.sciencedaily.com/releases/2021/02/210222192825.htm>
- “Environmental policies not always bad for business, study finds”. Cornell CALS News. 22 February 2021. URL: <https://cals.cornell.edu/news/environmental-policies-not-always-bad-business-study-finds>
- “A @CornellGrad student’s analysis of Chinese policies found that, contrary to conventional wisdom, market-based or incentive-based policies may actually benefit regulated firms in the traditional and “green” energy sectors.” Cornell Chronicle on Twitter, @CornellNews. 22 February 2021. URL: <https://twitter.com/CornellNews/status/1363880015465742337>
- “Environmental policies not always bad for business, study finds”. Cornell Chronicle. 22 February 2021. URL: <https://news.cornell.edu/stories/2021/02/environmental-policies-not-always-bad-business-study-finds>
- “The Danish dominance in the wind energy was stimulated by policy, not technology”. Factory Gate. 2 December 2020. URL: <https://factorygate.co.uk/energy/35/the-danish-dominance-in-the-wind-energy-was-stimulated-by-policy-not-technology/>
- “La política, no la tecnología, impulsó el dominio danés en energía eólica”. Noticias de la Ciencia y la Tecnología. 10 November 2020. URL: <https://noticiasdelaciencia.com/art/40127/la-politica-no-la-tecnologia-impulso-el-dominio-danes-en-energia-eolica>
- “La politica ha stimolato il predominio danese nellenergia eolica”. FocusTECH. 9 November 2020. URL: <https://focustech.it/2020/11/09/la-politica-ha-stimolato-il-predominio-danese-nellenergia-eolica-517516>
- “In a new study focused on Denmark, a global leader in wind energy – a relatively mature and low-cost renewable technology – Lin Lawell found that government policies have been the primary driver of that industry’s growth and development.” XAR on Twitter, @xtremalraven. 8 November 2020. URL: <https://twitter.com/xtremalraven/status/1325396458531680256>
- “Policy, not tech, spurred Danish dominance in wind energy.” Hacker News on Twitter, @newsycombinator. 7 November 2020. URL: <https://twitter.com/newsycombinator/status/1325075931975839749>
- “Policy, not tech, spurred Danish dominance in wind energy”. Eurasia Review. 7 November 2020. URL: <https://www.eurasiareview.com/07112020-policy-not-tech-spurred-danish-dominance-in-wind-energy/>

- “In a new study focused on Denmark, a global leader in wind energy -- a relatively mature and low-cost renewable technology -- Lin Lawell found that government policies have been the primary driver of that industry's growth and development.” Asset Reliability- on Twitter, @vision\_asset. 7 November 2020. URL: [https://twitter.com/vision\\_asset/status/1324942778581749761](https://twitter.com/vision_asset/status/1324942778581749761)
- “Policy, not tech, spurred Danish dominance in wind energy”. Newswise. 6 November 2020. URL: <https://www.newswise.com/articles/policy-not-tech-spurred-danish-dominance-in-wind-energy>
- “Policy, not tech, spurred Danish dominance in wind energy”. ScienceDaily. 6 November 2020. URL: <https://www.sciencedaily.com/releases/2020/11/201106134322.htm>
- “Policy, not tech, spurred Danish dominance in wind energy: study”. Tech Xplore. 6 November 2020. URL: <https://techxplore.com/news/2020-11-policy-tech-spurred-danish-dominance.html>
- “Policy, not tech, spurred Danish dominance in wind energy”. American Association for the Advancement of Science (AAAS) EurekAlert!. 6 November 2020. URL: [https://www.eurekalert.org/pub\\_releases/2020-11/cu-pnt110620.php](https://www.eurekalert.org/pub_releases/2020-11/cu-pnt110620.php)
- “An analysis of Denmark's #wind industry offers lessons for policymakers seeking to increase renewable electricity production with limited budgets, based on new research co-authored by @AtkinsonCenter Fellow and @CornellDyson Prof. C.-Y. Cynthia Lin Lawell.” Cornell Atkinson Center for Sustainability on Twitter, @AtkinsonCenter. 6 November 2020. URL: <https://twitter.com/AtkinsonCenter/status/1324742296324198402>
- “Policy, not tech, spurred Danish dominance in wind energy”. Mirage.News. 6 November 2020. URL: <https://www.miragenews.com/policy-not-tech-spurred-danish-dominance-in-wind-energy/>
- “Policy, not tech, spurred Danish dominance in wind energy”. Cornell Chronicle. 5 November 2020. URL: <https://news.cornell.edu/stories/2020/11/policy-not-tech-spurred-danish-dominance-wind-energy>
- “I agree that administrative uncertainty has undermined the RFS, in large part because the law gives EPA too much discretion. @gabelade, Cynthia Lin Lawell, and I made these points in this paper”. Aaron Smith on Twitter, @ASmithUCD. 11 September 2020. URL: <https://twitter.com/ASmithUCD/status/1304500406576267264>
- “‘There’s an opportunity to reform our transportation system as a result of #COVID19, offering a chance to reexamine how and why we rely on #fossilfuel vehicles,’ says @AtkinsonCenter Fellow and @CornellDyson Prof. Cynthia Lin Lawell at today's webinar on Green Economic Recovery.” Cornell Atkinson Center for Sustainability on Twitter, @AtkinsonCenter. 22 July 2020. URL: <https://twitter.com/AtkinsonCenter/status/1286021320199802881>
- “My colleague Cynthia Lin Lawell has papers with dynamic discrete choice econometric models”. Ariel Ortiz-Bobea on Twitter, @ArielOrtizBobea. 9 July 2020. URL: <https://twitter.com/ArielOrtizBobea/status/1281270663475539974>
- “Four #CornellDyson faculty members received @AtkinsonCenter Academic Venture Fund Awards to support their studies that address global #sustainability challenges”. Cornell Dyson on Twitter, @DysonSchool. 25 April 2020. URL: <https://twitter.com/CornellDyson/status/1254092834497540096>
- “With support from an @AtkinsonCenter Academic Venture Fund, Fellows @DavidJust1, Miguel Gómez, C.-Y. Cynthia Lin Lawell, Bryan Danforth, & Katja Poveda are helping NY farmers increase productivity, profitability, & biodiversity”. Cornell Atkinson Center for Sustainability on Twitter, @AtkinsonCenter. 3 March 2020. URL: <https://twitter.com/AtkinsonCenter/status/1234947021985009665>
- “#CornellDyson faculty will study how #agriculture-to-energy land-use conversions could impact food production, energy prices, water quality, and resilience to #climatechange”. Cornell Dyson on Twitter, @DysonSchool. 12 December 2019. URL: <https://twitter.com/CornellDyson/status/1205140253117468674>

- “Four #CornellDyson faculty members received @AtkinsonCenter Academic Venture Fund Awards to support their studies that address global #sustainability challenges→<http://news.cornell.edu/stories/2019/05/atkinson-academic-venture-fund-awards-13m-10-projects> ... @CornellNews”. Cornell Dyson on Twitter, @DysonSchool. 9 December 2019. URL: <https://twitter.com/CornellDyson/status/1204128607314071553>
- “Professor Lin Lawell and #Cornell students examine possible consequences of incentive-based programs for agricultural groundwater conservation”. Cornell Dyson on Twitter, @DysonSchool. 15 November 2019. URL: <https://twitter.com/CornellDyson/status/1195356125807427584>
- “US awards grant to researchers for ag-to-energy farmland study”. Food & Drink International. 18 October 2019. URL: <https://www.fdiforum.net/mag/supply-chain/us-awards-grant-to-researchers-for-ag-to-energy-farmland-study/>
- “Associate Professor Lin Lawell and Assistant Professor @ArielOrtizBobeia will study how #agriculture-to-energy land-use conversions could impact food production, energy prices, water quality and resilience to #climatechange @CornellNews”. Cornell Dyson on Twitter, @DysonSchool. 17 October 2019. URL: <https://twitter.com/CornellDyson/status/1184906986946748417>
- “Ag-to-energy farmland use is focus of new \$2.4M grant”. American Association for the Advancement of Science (AAAS) EurekAlert! 16 October 2019. URL: [https://www.eurekalert.org/pub\\_releases/2019-10/cu-afu101619.php](https://www.eurekalert.org/pub_releases/2019-10/cu-afu101619.php)
- “Ag-to-energy farmland use is focus of new \$2.4M grant <https://t.co/uTyvnCaLxR> @CornellCALs @CornellEng @USDA @NSF @USDA\_NIFA #ClimateChange #environment”. Blaine Friedlander on Twitter, @BPFriedlander. 14 October 2019. URL: <https://twitter.com/BPFriedlander/status/1183766233973440517>
- “Ag-to-energy farmland use is focus of new \$2.4M grant”. Cornell Chronicle. 14 October 2019. URL: <https://news.cornell.edu/stories/2019/10/ag-energy-farmland-use-focus-new-24m-grant>
- “Four #CornellDyson faculty members received @AtkinsonCenter Academic Venture Fund Awards to support their studies that address global #sustainability challenges”. Cornell Dyson on Twitter, @DysonSchool. 14 October 2019. URL: <https://twitter.com/CornellDyson/status/1183744317891993600>
- “Professor Lin Lawell and #Cornell students examine possible consequences of incentive-based programs for agricultural groundwater conservation. #EconTwitter #CornellDyson”. Cornell Dyson on Twitter, @DysonSchool. 15 September 2019. URL: <https://twitter.com/CornellDyson/status/1173340741197860864?s=17>
- “Years of drought have parched #California's vast agricultural lands, prompting higher water costs. #CornellDyson researchers have a solution to coordinate water use @CornellNews”. Cornell Dyson on Twitter, @DysonSchool. 13 September 2019. URL: <https://twitter.com/CornellDyson/status/1172555626268041219?s=17>
- “Four #CornellDyson faculty members received @AtkinsonCenter Academic Venture Fund Awards to support their studies that address global sustainability challenges”. Cornell Dyson on Twitter, @DysonSchool. 25 August 2019. URL: <https://twitter.com/CornellDyson/status/1165775885447892992>
- “Get to know Associate Professor Cynthia Lin Lawell!”. The Dyson School on Instagram, @thedysonschool. 26 July 2019. URL: [https://www.instagram.com/p/B0Ylf\\_6joEQ/](https://www.instagram.com/p/B0Ylf_6joEQ/)
- “I am the most proud when my students and former students are happy and successful.’ Learn more about Associate Professor Cynthia Lin Lawell”. Cornell Dyson on Twitter, @DysonSchool. 26 July 2019. URL: <https://twitter.com/CornellDyson/status/1154783677462843392>
- “Professor Lin Lawell and #Cornell students examine possible consequences of incentive-based programs for agricultural groundwater conservation”. Cornell Dyson on Twitter, @DysonSchool. 21 July 2019. URL: <https://twitter.com/CornellDyson/status/1152926288597962752>

- “Years of drought have parched #California's vast agricultural lands, prompting higher water costs. #CornellDyson researchers have a solution to coordinate water use. @CornellNews”. Cornell Dyson on Twitter, @DysonSchool. 6 July 2019. URL: <https://twitter.com/CornellDyson/status/1147550797368111109>
- “Atkinson Academic Venture Fund awards \$1.3M to 10 projects”. Cornell Chronicle. 31 May 2019. URL: <https://news.cornell.edu/stories/2019/05/atkinson-academic-venture-fund-awards-13m-10-projects>
- “Does investment in public transit decrease traffic congestion? Professor Lawell estimates the effect of public transit investment on the demand for automobile #transportation→http://bit.ly/2MUqapk”. Cornell Dyson on Twitter, @DysonSchool. 31 May 2019. URL: <https://twitter.com/CornellDyson/status/1134489843818487813>
- “A study from #CornellDyson's Shuyang Si and Professor Lawell took all of #China's #energy policies into account and estimated the overall effect of the policies together”. Cornell Dyson on Twitter, @DysonSchool. 19 May 2019. URL: <https://twitter.com/CornellDyson/status/1130095764133302273>
- “Years of drought have parched #California's vast agricultural lands, prompting higher water costs. #CornellDyson researchers have a solution to coordinate water use”. Cornell Dyson on Twitter, @DysonSchool. 17 May 2019. URL: <https://twitter.com/CornellDyson/status/1129431605448257538>
- “Professor Lin Lawell and #Cornell students examine possible perverse consequences of incentive-based programs for agricultural groundwater conservation. #EconTwitter #CornellDyson”. Cornell Dyson on Twitter, @DysonSchool. 15 May 2019. URL: <https://twitter.com/CornellDyson/status/1128812400805842950>
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M.S., Agricultural and Resource Economics, University of California at Davis, 2015  
Ph.D., Applied Economics and Management, Cornell University, 2021  
*Cornell Dyson Graduate Student – Research Excellence Award, 2020*  
*George F. Warren Award for Outstanding Paper, Second Place, 2021*  
Assistant Professor, Department of Economics, Xi'an Jiaotong-Liverpool University

Karen E. Thome

Ph.D., Agricultural and Resource Economics, University of California at Davis, 2012  
Postdoctoral scholar, Agricultural and Resource Economics, University of California at Davis, 2012-2014  
Economist, USDA Economic Research Service, 2014-2019  
International Trade Specialist, USDA Foreign Agricultural Service, 2019-2021

International Economist, U.S. International Trade Commission

Steven Wilcox

Ph.D., Applied Economics and Management, Cornell University, 2022  
*Cornell Dyson Graduate Student -- Outstanding Engaged Research Award, 2020*  
Assistant Professor, Department of Applied Economics, Utah State University

D. Adeline Yeh

Ph.D., Applied Economics and Management, Cornell University, 2021  
*George F. Warren Award for Outstanding Paper, Third Place, 2020*  
*Dyson Best Ph.D. Dissertation Award, 2022*  
Research Agricultural Economist, USDA Economic Research Service

Fujin Yi

Ph.D., Agricultural and Resource Economics, University of California at Davis, 2011  
*Honorable Mention, UC-Davis Agricultural and Resource Economics Best Ph.D. Dissertation, 2011*  
Postdoctoral scholar, Agricultural and Resource Economics, University of California at Davis, 2012  
Associate Professor, College of Economics and Management, Nanjing Agricultural University

Shuo Yu

M.S., Applied Economics and Management, Cornell University, 2019  
Ph.D. candidate, Agricultural and Resource Economics, University of California at Berkeley

Saleh Zakerinia

M.S., Agricultural and Resource Economics, University of California at Davis, 2018  
Visiting Fellow, Dyson School of Applied Economics and Management, Cornell University, 2017-2018  
Ph.D. candidate, Applied Economics and Management, Cornell University

Jieyin (Jean) Zeng

M.S., Transportation Technology and Policy, University of California at Davis, 2014  
Ph.D. candidate, Accounting, Berkeley Haas School of Business

Wei Zhang

Ph.D., Agricultural and Resource Economics, University of California at Davis, 2013  
Postdoctoral scholar, University of California Agricultural Issues Center, 2013-2014  
Assistant Professor, Department of Economics, Connecticut College, 2014-2019  
Assistant Professor, Department of Agricultural and Applied Economics, Virginia Tech

## **MEMBERSHIP IN PROFESSIONAL SOCIETIES**

Agricultural and Applied Economics Association  
American Economic Association  
Association of Environmental and Resource Economists  
Canadian Economics Association  
Econometric Society  
European Economic Association  
International Association for Energy Economics  
Northeastern Agricultural and Resource Economics Association  
Royal Economic Society  
U.S. Association for Energy Economics

## **PREVIOUS WORK EXPERIENCE**

Harvard University, Research Assistant in Econometrics for Prof. Dale Jorgenson	Summer 2001
Harvard University, Research Assistant in Atmospheric Chemistry for Prof. Daniel Jacob	9/1998 to 9/2000
Environmental Policy Intern for Massachusetts State Senator Lois G. Pines	Summer 1998
Harvard University, Radcliffe Research Partner for Barbara Goldoftas	Summer 1998
Biotech Investment Consultant for Wiltshire Associates, Ltd.	Summer 1997

## **CONSULTING**

Economic and Planning Systems, Inc. (wind energy) (2010)

## **SKILLS**

**Computer languages:** IDL, R/S-Plus, Matlab, C, Fortran, TSP, Stata.

**Foreign languages:** Proficient in Mandarin and French.

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