

Jean-Daniel M. SAPHORES
Curriculum Vitae

Civil & Environmental Engineering
The Henry Samueli School of Engineering
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Professional Experience

<i>Associate Professor</i> , Civil & Environmental Engineering, U.C. Irvine, CA Core faculty in the Institute of Transportation Studies Core faculty of the Urban Water Research Center Courtesy appointments in Economics and Planning, Policy, & Design	07/06-present
<i>Assistant Professor</i> , Planning, Policy, and Design, U.C. Irvine, CA Courtesy appointments in Economics and Civil & Environmental Engineering	07/00-06/06
<i>Consultant</i> , World Bank (Analysis of Romanian Forestry Auctions)	06/03-02/04
<i>Assistant Professor</i> , Department of Economics, Université Laval, Québec	08/97-07/00
<i>Post-Doctoral Fellow</i> , Department of Economics, Université Laval, Québec	01/97-06/97
<i>Summer Intern</i> , The World Bank, Washington, D.C.	07/96-09/96
<i>Research/Teaching Assistant</i> , Cornell University, Ithaca, NY	09/91-12/96
<i>Staff Engineer</i> , Woodward-Clyde Consultants, Denver, CO,	09/89-08/91
<i>Research/Teaching Assistant</i> , University Of Colorado, Boulder, CO	09/87-08/89
<i>Staff Engineer</i> , Woodward-Clyde Consultants, Denver, CO	09/86-08/87

Education

Ph.D. in Agricultural Economics , Cornell University, Ithaca, NY Major subject: Environmental and Resource Economics Minor subjects: Finance and Statistics	01/97
MA in Economics , Cornell University, Ithaca, NY	08/94
MS in Environmental Systems Engineering , Cornell University, Ithaca, NY	08/94
MS in Geotechnical Engineering , University of Colorado, Boulder, CO Thesis title: Some Topics in Embedded Foundations	08/89
Ingénieur Civil , Ecole Nationale des Ponts et Chaussées (ENPC), Paris, France Major subject: Civil Engineering. Minor subject: Applied Mathematics Entered ENPC ranked second following a French national exam	08/88

Dissertation

“Option Value and the Timing of Environmental Policy: an Application to Pesticides, Pollutants, and Forestry.”
Director: Jon Conrad. Committee: Peter Carr, David Ruppert, and William Schultze.

RESEARCH

Publications

Refereed Papers

- **J36** Tsai, M.-T., Saphores, J-D, and A. Regan. forthcoming. “Valuation of Freight Transportation Contracts under Uncertainty,” *Transportation Research Part E*.
- **J35** Tsai, M.-T., Regan, A. and J.-D. Saphores. forthcoming. Freight Transportation Derivatives Contracts: State of the Art and Future Developments, *Transportation Journal*.
- **J34** Saphores, J-D, Nixon, H., Ogunseitan, O., and A. Shapiro. 2009. “How much e-waste is there in US basements and attics?” Results from a national survey, *Journal of Environmental Management* 90(11): 3322-3331.
- **J33** Garde, A., Saphores, J-D, Matthew, R. and K. Day. forthcoming. “Sustainable Neighborhood Development: Insights from Southern California,” *Environment and Planning Part B*.
- **J32** Lee, G., You, S., Ritchie, S., Saphores, J-D, Sangkapichai, M., and Jayakrishnan, R. forthcoming. “Environmental Impacts of a Major Freight Corridor: A study of the I-710 in California,” *Transportation Research Record*.
- **J31** Aguilar-Benitez, I. and J.-D. Saphores, 2009. “Aspectos Institucionales y Políticas para Reforzar el Pago de los Servicios del Agua en Nuevo Laredo, Tamaulipas y Laredo Texas” *Gestión y Política Pública* 18(2): 341-377.
- **J30** Sangkapichai, M., and Saphores, J.-D., 2009. “Why are Californians interested in hybrid cars?” *Journal of Environmental Planning and Management* 52 (1): 79–96.
- **J29** Aguilar-Benitez, I. and J.-D. Saphores, forthcoming. “Public Accountability and Performance of Two Border Water Utilities,” *Water Policy*.
- **J28** Nixon, H., and Saphores, J.-D., 2009. “Information and the decision to recycle: Results from a survey of US households,” *Journal of Environmental Planning and Management* 52 (2): 257 – 277.
- **J27** Aguilar-Benitez, I. and J.-D. Saphores, 2008. “An analysis of nonpayment of water services in Nuevo Laredo, Mexico,” *Water Resources Research* 44. W08414, August 9, DOI: doi:10.1029/2007WR006225.
- **J26** Lincoln, J.D., A. Shapiro, J.C. Earthman, J.-D. Saphores, and O. Ogunseitan, 2008. “Design and Evaluation of Bioepoxy-Flax Composites for Printed Circuit Boards,” *IEEE Transactions on Electronics Packaging Manufacturing* 31 (3): 211-220.
- **J25** Nixon, H., and Saphores, J.-D., 2007. “Impacts of motor vehicle operation on water quality in the US – Cleanup costs and policies,” *Transportation Research Part D* 12 (8): 564-576.
- **J24** H. Nixon, Saphores, J.-D., O. Ogunseitan, and A. Shapiro, 2009. “Understanding Preferences for Recycling Electronic Waste in California: How Environmental Attitudes and Beliefs Influence

Willingness to Pay,” *Environment and Behavior* 41: 101-124. doi:10.1177/0013916507310053.

- **J23** Nixon, H., and Saphores, J.-D., 2007. “Financing Electronic Waste Recycling - Californian Households’ Willingness to Pay Advanced Recycling Fees,” *Journal of Environmental Management*, 84 (4): 547-559.
- **J22** Lincoln, J.D., O. Ogunseitan, A. Shapiro, and J.-D. Saphores, 2007. “Leaching Assessments of Hazardous Materials in Cellular Telephones,” *Environmental Science and Technology* 41(7): 2572-2578.
- **J21** Saphores, J.-D., H. Nixon, O. Ogunseitan, and A. Shapiro, 2007. “California Households’ Willingness to Pay for “Green” Electronics,” *Journal of Environmental Planning and Management*, 50(1): 113 – 133.
- **J20** Saphores, J.-D., and M. Boarnet, 2006. “Uncertainty and the Timing of an Urban Congestion Relief Investment - The no-land case,” *Journal of Urban Economics* 59 (2):189-208 .
- **J19** Shapiro, A., J.K. Bonner, O. Ogunseitan, J.-D. Saphores and J. Schoenung, 2006. “Implications of Pb-Free Microelectronics Assembly in Aerospace Applications,” *IEEE Transactions on Components and Packaging Technologies* 29 (1): 60-70.
- **J18** Saphores, J.-D., H. Nixon, O. Ogunseitan, and A. Shapiro, 2006. “Household Willingness to Recycle Electronic Waste - An Application to California,” *Environment and Behavior* 38(2): 183-208.
- **J17** Saphores, J.-D., and I. Aguilar, 2005. “Smelly Local Polluters and Residential Property Values - A Hedonic Analysis of Four Orange County (CA) Cities,” *Estudios Económicos* 20 (2): 197-218.
- **J16** Saphores, J.-D., 2005. “The Density of Bounded Diffusions,” *Economics Letters* 86(1): 87-93.
- **J15** Saphores, J.-D. and J. Shogren, 2005. “Managing Exotic Pests under Uncertainty,” *Ecological Economics* 52(3): 327-39.
- **J14** Schoenung, J., O. Ogunseitan, J.-D. Saphores, and A. Shapiro, 2004. “Policy Differences and Knowledge Gaps on the Adoption of Pb-Free Electronics,” *Journal of Industrial Ecology* 8(4): 59-85.
- **J13** Saphores, J.-D., E. Gravel, and J.-T. Bernard, 2004. “Regulation and Investment under Uncertainty- An Application to Power Grid Interconnection,” *Journal of Regulatory Economics* 25(2): 169-186.
- **J12** Saphores, J.-D., 2004. “Environmental Uncertainty and the Timing of Environmental Policy,” *Natural Resources Modeling* 17(2): 163-190.
- **J11** Saphores, J.-D., 2003. "Harvesting a Renewable Resource under Uncertainty." *Journal of Economic Dynamics and Control* 28 (3): 509-529.
- **J10** Khalaf, L., J.-D. Saphores, and J.-F. Bilodeau, 2003. “Simulation-Based Exact Jump Tests in Models with Conditional Heteroskedasticity,” *Journal of Economic Dynamics and Control* 28(3): 531-553.

- **J9** Saphores J.-D., L. Khalaf, and D. Pelletier, 2002. "On ARCH and Jumps in Natural Resource Prices, An Application To Pacific Northwest Stumpage Prices," *American Journal of Agricultural Economics* 84(2): 387-400.
- **J8** Saphores J.-D., and B. Bakshi, 2001. "Global Warming, Forests, and Biodiversity," *Energy Studies Review* 10(1): 49-56.
- **J7** Saphores J.-D., 2000. "The Economic Threshold with a Stochastic Pest Population: A Real Options Approach," *American Journal of Agricultural Economics* 82(2): 541-555.
- **J6** Barla, P., J. Doucet, and J.-D. Saphores, 2000. "Protecting Natural Habitats on Private Lands: Market Instruments and Canadian Policy," *Canadian Public Policy*, 26.1 (March): 95-110.
- **J5** Meyburg A.H., J.-D. Saphores, and R.E. Schuler, 1998. "The Economic Impacts of a Divisible-Load Permit System for Heavy Vehicles," *Transportation Research, Part A*, 32A(2): 115-127.
- **J4** Meyburg A.H., J.-D. Saphores, and R.E. Schuler, 1996. "Collecting Usage Data for Analyzing a Heavy Vehicles Divisible Load Permit," *Transportation Research Record* 1522 (January): 9-17.
- **J3** Pak R.Y.S. and J.-D. Saphores, 1991. "Rocking Rotation of a Rigid Disc in a Half-Space," *International Journal of Solids and Structures*, 28(3): 389-401.
- **J2** Pak R.Y.S. and J.-D. Saphores, 1991. "Torsion of a Rigid Disc in a Half-Space," *International Journal of Engineering Science*, 29(1): 1-12.
- **J1** Pak R.Y.S. and J.-D. Saphores, 1991. "On the Response of a Partially Embedded Rod to Axial Load," *Journal of Applied Mechanics*, 58(June): 599-602.

World Bank Policy Research Working Papers

- **WBPP1** Saphores, J.-D., J. R. Vincent, V. Marochko, I. Abrudan, L. Bouriaud, and Clifford Zinnes, 2006. "Detecting Collusion in Timber Auctions: An Application to Romania," WPS 4105, Washington, DC.

Refereed Conference Proceedings

- **RCP8** Sangkapichai, M., Saphores, J-D, Ritchie, S., You, S., and Lee, G. (2009). Estimating PM and NOx Train Emissions in the Alameda Corridor, California. Proceedings of the 88th meeting of the Transportation Research Board, Washington D.C.
- **RCP7** Lee, G., You, S., Ritchie, S., Saphores, J-D, Sangkapichai, M., and Jayakrishnan, R. (2009). Environmental Impacts of a Major Freight Corridor: A study of the I-710 in California, Proceedings of the 88th meeting of the Transportation Research Board, Washington D.C.
- **RCP6** Tsai, M-T, J-D, Saphores, and A.C. Regan (2009). Freight Transportation Contracting Under Uncertainty, Proceedings of the 88th meeting of the Transportation Research Board, Washington D.C.

- **RCP5** Heling, M., J-D, Saphores, and S. Samuelson (2009). User Characteristics and Responses to a Shared-Use Station Car Program: An Analysis of ZEV•NET in Orange County, CA, Proceedings of the 88th meeting of the Transportation Research Board, Washington D.C.
- **RCP4** Tsai, M-T, A.C. Regan and J-D, Saphores (2008). Freight Transportation Derivatives Contracts: State of the Art and Future Developments, Proceedings of the 87th meeting of the Transportation Research Board, Washington D.C.
- **RCP3** Saphores, J-D (2007). Population Uncertainty and the Timing of an Urban Transportation Infrastructure Investment, Proceedings of the 86th meeting of the Transportation Research Board, Washington D.C.
- **RCP2** Ogunseitan, O., J. Schoenung, A. Shapiro, J-D. Saphores, A. Bhuie, and A. Stein (2003). "Biocomplex Dimensions of Industrial Ecology: Sectoral Trade-Offs on Selecting Alternatives to Lead (Pb) in Electronics," *Sustainable Planning and Development (The Sustainable World)* Vol. 6, Ed. E. Beriatos, A. Kungolos, C. A. Brebbia, ISBN: 1-85312-985-2.
- **RCP1** Nixon, H. and J.-D. Saphores (2002). "Used Oil Policies to Protect the Environment: An Overview of Canadian Experiences." Pages 73-80 in Volume 1 of *Conference Proceedings of the Third International Conference on Traffic and Transportation Studies*, Guilin, People's Republic of China, July 23-25, K. Wang, G. Xiao, L. Nie, and H. Yang editors. Published by the ASCE.

Refereed Book Chapters

- **RC2** Barla, P., J.-G. Power, J.-D. Saphores, I. Attridge, and S. Hilts (2003). "Protecting Biodiversity in Canada: The Role of Non-Profit Organizations". Pages 129-176 in *The Nonprofit Sector in Interesting Times*, Vol. III, edited by K. L. Brock and K.G. Banting. Montreal and Kingston, ON: McGill-Queen's University Press.
- **RC1** Saphores, J.-D. and P. Carr (2000). "Real Options and the Timing of Implementation of Emission Limits Under Ecological Uncertainty." Pages 254-271 in *Project Flexibility, Agency, and Competition: New Developments in the Theory and Applications in Real Options*, M. Brennan and L. Trigeorgis Eds. Oxford University Press.

Conference Proceedings

- **CP1** Ogunseitan, O., J. Schoenung, J.-D. Saphores, A. Shapiro, A. Bhuie, H.-Y. Kang, H. Nixon, and A. Stein (2003). "The Devil that We Know: Pb Replacement Policies under Conditions of Scientific Uncertainty," *Proceedings, The Third International Symposium on Microelectronics and Packaging*, ISBN 0-930815-69-6, Israel (June).

Reports

- **R1** Marochko, V., J.-D. Saphores, J. Vincent, C. Zinnes, L. Brouiard, and L. Padureanu (2004). Governance in the Romanian Forestry Sector, *prepared for the World Bank*, January.

- **R2** Aguilar-Benitez, I. and J.-D. Saphores (2009). Enforcement and non-payment of water services An analysis of utilities at the US-Mexico border, prepared for UCMexus-CONACYT.

Book Reviews

- **BR3** Saphores, J.-D. (2005). Review of *Earth System Analysis for Sustainability*, Edited By Hans Joachim Schellhuber, Paul J. Crutzen, William C. Clark, Martin Clausen And Herman Held, The MIT Press 2004, forthcoming in *Environmental Conservation*.
- **BR2** Saphores, J.-D. (2003). Review of *The Economic Dynamics of Environmental Law*, by David Driesden; The MIT Press 2003, forthcoming in *International Environmental Agreements: Politics, Law, and Economics*.
- **BR1** Saphores, J.-D. (2002). Review of *Environment, Land Use, and Urban Policy*, D. Banister, K. Button, and P. Nijkamp (Eds.); Edward Elgar Publishing, Inc. 1999. *Transportation Research Part A 37 (2003): 183-190*.

Research Interests

- Decision making under uncertainty using the theory of real options with applications to infrastructure management, natural resources, the environment, transportation and urban economics; applied econometrics; equity and inequality issues.

Invited Presentations

- **IP5.** Saphores, J.-D. and Aguilar, I., (2007). “An Analysis of Non-payment of Water Services in Nuevo Laredo,” Environmental seminar, UCSD (February 26).
- **IP4.** “Investing in Transportation Infrastructure Under Uncertainty,” with Marlon Boarnet, Business School, University of Alberta, Edmonton Canada, April 16, 2004.
- **IP3.** “Governance in the Romanian Forestry Sector”, with J. Vincent and C. Zinnes, World Bank, Washington D.C., January 26, 2004.
- **IP2.** “Managing Exotic Pests under Uncertainty: Optimal Control and Monitoring”, with Jason Shogren, *University of Wyoming Conference on Bioinvasions*, Laramie, June 6-7, 2003.
- **IP1.** “Harvesting a Renewable Resource Under Uncertainty,” *Economics Department, Binghamton University*, Binghamton, NY, May 3, 2002.

Conference Presentations/Seminars

- **C48.** Saphores, J.D., Sangkapichai, M., Ritchie, S., You, S.Y., and G. Lee (2009) “Estimating the air quality impacts of a major freight corridor - A Study of the Alameda Corridor in Southern California”, poster presented at the Data and Tools for Understanding the Goods Movement – Air Quality Connection Workshop at The National Academies Beckman Center., Irvine, CA, June 2-3.

- **C47.** Saphores, J.-D. (2009). "Building sustainability indicators to assess the physical, social, and economic values of greening cities: a study of the million trees initiatives in Los Angeles, CA", EPA webinar (Web seminar), February 26.
- **C46.** Saphores, J.-D. (2009). Presentation on transportation sustainability in the panel "The Effectiveness of Current Policy Actions III: Best Practices in the Transportation Sector" at the North American Network on Regional Climate Change Governance Workshop, January 19-20, in Mexico City.
- **C45.** Garde, A., Saphores, J.-D., Matthew, R., and K Day (2008). "Sustainable neighborhood Development: missed Opportunities in southern California?," Paper presented at the 5th International Engineering and Construction Conference (IECC'5), August 27-29, Irvine, CA.
- **C44.** Lincoln, J.D., Ogunseitan, D., Saphores, J.-D., Schoenung, J., Shapiro, A.A. (2007). TMS webinar (Web seminar): Materials Science and Policy for Environmentally Benign Electronics, September 27. Available from: <http://www.tms.org/meetings/webcast/msp07/home.html>
- **C43.** Saphores, J.-D. (2007). "Population Uncertainty and the Timing of an Urban Transportation Infrastructure Investment," Paper presented at the 11th World Conference on Transport Research, Berkeley, CA, June.
- **C42.** Saphores, J.-D. (2007). "Emissions Possible - Solutions for Sustainable Transportation," National Alternative Fuel and Vehicle Conference, Anaheim, CA, April 2.
- **C41.** Saphores, J.-D. (2007). "Population Uncertainty and the Timing of an Urban Transportation Infrastructure Investment," 13th Annual University of California Transportation Research Conference at UCLA, February 15-17.
- **C40.** Saphores, J.-D. (2007). "Population Uncertainty and the Timing of an Urban Transportation Infrastructure Investment," Transportation Research Board 86th annual conference, Washington DC, January 21-25.
- **C39.** Sangkapichai, M., and J.-D. Saphores (2006). "Understanding Californians' Interest For Hybrid Cars," Seminar at the Institute of Transportation Studies at UCI, December 6.
- **C38.** Nixon, H., Saphores, J.-D., Ogunseitan, O., and A.A. Shapiro (2006). "Understanding Preferences for Recycling Electronic Waste in California: A contingent Ranking Study," Department of Environmental Health, Science and Policy seminar at UCI, November 27.
- **C37.** Nixon, H., Saphores, J.-D., Ogunseitan, O., and A.A. Shapiro (2006). "Understanding Preferences for Recycling Electronic Waste in California: A contingent Ranking Study," Economics Department at UCI, November 14.
- **C36.** Saphores, J.-D. and I. Aguilar, (2006). "Residential Water demand and planning in Nuevo Laredo," 2nd World Planning School Congress. Mexico City, July 11-16.
- **C35.** Bakshi, B., and J.-D. Saphores (2006). "Grandma or the Wolf? A real options framework for managing human-wildlife conflicts," Third World Congress of Environmental and Resource Economists, Kyoto, Japan, July 3-7.

- **C34.** Saphores, J.-D. (2006). “ Population Uncertainty and the Timing of an Urban Transportation Infrastructure Investment,” Canadian Economic Association 40th Annual Meetings, May 26 - 28, Montréal (Québec).
- **C33.** “Consumer Willingness to Recycle Electronic Waste in California,” with Hilary Nixon, Oladele Ogunseitan, and Andrew Shapiro, *80th Annual Conference of the Western Economic Association International, San Francisco, CA, July 4th - 8th, 2005.*
- **C32.** “Grandma or the Wolf?: Managing Human-Wildlife Conflict,” with Baishali Bakshi, *Annual Joint Conference of the Econometric Society and the European Economic Association, Universidad Carlos III de Madrid, August 20th-24th, 2004.*
- **C31.** “Grandma or the Wolf?: Managing Human-Wildlife Conflict,” with Baishali Bakshi, *8th Annual International Conference on Real Options, Montréal Canada, June 17-19, 2004.*
- **C30.** “Investing in Transportation Infrastructure under Uncertainty,” with Marlon Boarnet, *8th Annual International Conference on Real Options, Montréal Canada, June 17-19, 2004.*
- **C29.** “Regulation and Investment under Uncertainty- An Application to Power Grid Interconnection,” with Eric Gravel and Jean-Thomas Bernard, *Greening XIII, University of Southern California, Los Angeles, January 24, 2004.*
- **C28.** “Barriers and Optimal Investment Rules,” joint meeting of the *European Economic Association and Econometric Society European Meeting, Stockholm, Sweden, August 20-24, 2003*
- **C27.** “Industrial Odors and Residential Property Values - A Hedonic Analysis of four Orange County (ca) Cities”, with Ismael Aguilar, *78th Annual Conference of the Western Economic Association International, Denver, Colorado, July 10 – 15, 2003.*
- **C26.** “Barriers and Optimal Investment Rules,” *7th Annual International Conference on Real Options, Washington, D.C., July 10-12 2003.*
- **C25.** “Barriers and Optimal Investment Rules,” *2003 Econometric Society North American Summer Meeting, June 26-29, 2003*
- **C24.** “Investing in Transportation Infrastructure Under Uncertainty,” with Marlon Boarnet, *Annual Conference of the Canadian Economic Association, May 29- June 1, 2003, Ottawa, Canada.*
- **C23.** “Harvesting a Renewable Resource under Uncertainty,” *57th Econometric Society European Meeting, Venice, Italy, August 25-28, 2002.*
- **C22.** “Harvesting a Renewable Resource under Uncertainty,” *2002 World Congress of Environmental and Resource Economists, Monterey, California, June 24-27.*
- **C21.** “Optimal Investment Rules when Investment Opportunities may Vanish,” *Annual Conference of the Canadian Economic Association, May 30- June 2, 2002, Calgary, Canada.*
- **C20.** “The Optimal Timing Of Building A Mass Transit System,” with Marlon Boarnet, *Annual Conference of the Regional Science Association International, November 15-17, 2001, Charleston,*

South Carolina.

- **C19.** “Harvesting a Renewable Resource Under Uncertainty,” *6th Occasional California Workshop on Environmental and Resource Economics*, University of California, Santa Barbara, October 26-27, 2001.
- **C18.** “The Option Value of Harvesting a Renewable Resource,” *5th Annual International Conference on Real Options*, July 13-14, 2001, UCLA, Los Angeles, CA.
- **C17.** “Harvesting a Renewable Resource Under Uncertainty,” *Annual Conference of the Western Economic Association International*, July 5- 9, 2001, San Francisco, CA.
- **C16.** “Forests, Biodiversity Conservation, and the Kyoto Protocol: Challenges and Opportunities,” with Baishali Bakshi, *Founding Conference of the Francophone Network on Energy and the Environment (MONDER)*, June 10-13, 2001, Paris, France.
- **C15.** “Harvesting a Renewable Resource Under Uncertainty,” *Annual Conference of the Canadian Economic Association*, May 31- June 3, 2001, Montreal, Canada.
- **C14.** "Simulation-Based Exact Tests When Nuisance Parameters are Unidentified Under the Null Hypothesis The Case of Jump Tests in Models with Conditional Heteroscedasticity," with Lynda Khalaf and Jean-François Bilodeau, *World Congress of the Econometric Society*, August 11-16, 2000, Seattle.
- **C13.** "The Economic Threshold with a Stochastic Pest Population," annual *NAREA* conference, June 11-13, 2000, University of Rhode Island.
- **C12.** "Simulation-Based Exact Test for Jump Diffusions with Unidentified Nuisance Parameters: An Application to Commodity Spot Price with Lynda Khalaf and Jean-François Bilodeau, annual conference of the *Canadian Economic Association*, June 3-6, 2000, Vancouver, B.C.
- **C11.** "On Jumps and Arch Effects in Natural Resource Prices: An Application to Stumpage Prices from Pacific Northwest National Forests " with Linda Khalaf and Jean-François Bilodeau, annual conference of the *CAEA*, June 1-3, 2000, Vancouver, B.C.
- **C10.** “Irreversibilities, Uncertainty, and the Reduction of a Stock Externality,” with Peter Carr, *The Econometric Society European Meeting 1999*, Santiago de Compostela, August 29 – September 1.
- **C9.** “Pollution Reduction, Environmental Uncertainty, and the Irreversibility Effect,” With Peter Carr, *Third Annual International Conference On Real Options: Theory Meets Practice*, Wassenaar/Leiden, July 1999.
- **C8.** “Structural Discontinuities in Crude Oil Prices,” with Linda Khalaf and Jean-François Bilodeau, *Annual Conference of the Canadian Economic Association*, Toronto, Canada, May 28-30, 1999.
- **C7.** “Structural Discontinuities in Crude Oil Prices,” with Linda Khalaf and Jean-François Bilodeau, 39th conference of the *Société Canadienne de Sciences Économiques*, Hull, May 12-13, 1999.

- **C6.** “Setting Emission Limits for a Stock Pollutant Under Economic Uncertainty: A Real Options Analysis,” with Rams Kanouni, 39th conference of the *Société Canadienne de Sciences Économiques*, Hull, May 12-13, 1999.
- **C5.** “Pollution Reduction, Environmental Uncertainty, and the Irreversibility Effect,” with Peter Carr, Annual Conference of the *Canadian Research Group in Environmental and Resource Economics*, Ottawa, October 1998.
- **C4.** “Pollutant Stock Uncertainty and the Timing of Implementation of Emission Limits,” with Peter Carr, *First World Congress of Environmental and Resource Economists*, Venice, Italy, June 25-27, 1998.
- **C3.** “Stumpage Prices and Geometric Brownian Motion: An Application to Pacific Northwest National Forest,” with Linda Khalaf and Denis Pelletier, Annual Conference of the *Canadian Economic Association*, Ottawa, Canada, May 28-31, 1998.
- **C2.** “Processus de Sauts pour Modéliser le Prix du Bois de Coupe: une Application aux Forêts de la Côte Pacifique,” with Linda Khalaf and Denis Pelletier, 38th conference of the *Société Canadienne de Sciences Économiques*, Québec, May 8-9, 1998
- **C1.** “Pesticides: Optimal Timing,” with Jon Conrad, *American Association of Agricultural Economists* Annual Conference, San Antonio, Texas, July 1996.

Conference Presentations by Co-Authors

- **CO58.** Milovantseva, N., Saphores, J.-D., Ogunseitan, O.A., and A.A. Shapiro (2009) “Better Recycling of "Conventional" Cell Phones versus More Expensive but "Green" Cell Phones: An Assessment of Consumer Preferences.” Poster at the 2009 University of California Toxic Substances Research & Teaching Program, Berkeley, California, May 1-2.
- **CO57.** Lincoln, J.D., Earthman, J.C., Ogunseitan, O.A., Saphores, J.-D., Schoenung, J.M., and A.A. Shapiro (2009). “Green Materials and Processes for Managing Electronic Waste.” TMS Annual Meeting, San Francisco, California, February 15-19.
- **CO56.** Ogunseitan, O.A., Saphores, J.-D., Schoenung, J.M., and A.A. Shapiro (2009). “Engineering Environmentally-Benign Electronics: Convergent Optimization of Materials Use, Consumer Participation, and Government Regulation.” TMS Annual Meeting, San Francisco, California, February 15-19.
- **CO55.** Lee, G., You, S., Ritchie, S., Saphores, J.-D., Sangkapichai, M., and R. Jayakrishnan (2009) “Environmental Impacts of a Major Freight Corridor: A study of the I-710 in California” Transportation Research Board, 88th Annual Meeting Proceedings, Washington D.C., January 11-15.
- **CO54.** Sangkapichai, M., Saphores, J.D., Ritchie, S., You, S.Y., and G. Lee (2009) “An Analysis of PM and NOx Train Emissions in the Alameda Corridor, California” Transportation Research Board, 88th Annual Meeting Proceedings, Washington D.C., January 11-15.
- **CO53.** Tsai, M.T., Saphores, J.D. and Regan, A. (2009) “Freight Transportation Contracting under Uncertainty.” Transportation Research Board, 88th Annual Meeting Proceedings, Washington D.C.,

January 11-15.

- **CO52.** Aguilar, I., and J.-D. Saphores (2008) “Public Accountability and Performance of Two Border Water Utilities,” International conference on water scarcity, global changes, and groundwater management responses, at the University of California, Irvine, December 1-5.
- **CO51.** Sangkapichai, M., and Saphores, J.-D. (2008). “Revisiting the Performance of Employee Trip Reduction Programs in Southern California,” presented at the California UTC-PATH Conference: Tackling Congestion in an Era of Climate Change, Los Angeles, CA, November 6-7.
- **CO50.** Sangkapichai, M., and Saphores, J.-D. (2008). “Why are Californians Interested in Hybrid Cars?,” presented at the California UTC-PATH Conference: Tackling Congestion in an Era of Climate Change, Los Angeles, CA, November 6-7.
- **CO49.** Saphores, J.-D., Nixon, H., Ogunseitan, O.A., & Shapiro, A.A. (2008). “How much e-waste in US basements and attics?” Presented at Electronics Goes Green 2008, Berlin, Germany, September 8-10.
- **CO48.** Shapiro, A.A., Lincoln, J.D., Earthman, J.C., Saphores, J.-D., Ogunseitan, O.A., and J. M. Schoenung (2008). “Bioepoxy-Flax Composites for Printed Circuit Boards.” Presented at Electronics Goes Green 2008, Berlin, Germany, September 8-10.
- **CO47.** Saphores, J.-D., Nixon, H., Ogunseitan, O.A. , and Shapiro, A.A. (2008). “How much e-waste in your basement and attic? Results from a National Survey,” presented at the ACSP-AESOP 4th Joint Congress, July 6-11, 2008 ~ Chicago, Illinois.
- **CO46.** Tsai, M.T., Regan, A. and Saphores, J.D. (2008) “Freight Transportation Contracting Under Uncertainty: A Real Options Approach,” Informs: Revenue Management and Pricing Section, 8th Annual Conference, Montreal, Canada, June 18-20.
- **CO45.** Sangkapichai, M., and Saphores, J.D. (2008) “Why Are Californians Interested In Hybrid Cars?” Transportation Research Board, 87th Annual Meeting Proceedings, Washington D.C., January 13-17.
- **CO44.** Tsai, M.T., Regan, A. and Saphores, J.D. (2008) “Freight Transportation Derivatives Contracts: State of the Art and Future Developments.” Transportation Research Board, 87th Annual Meeting Proceedings, Washington D.C., January 13-17.
- **CO43.** Tsai, M.T., Regan, A. and Saphores, J.D. (2007) Freight Transportation Derivatives Contracts: State of the Art and Future Developments. 2nd Annual National Urban Freight Conference Proceedings, Long Beach, CA, December 5-7.
- **CO42.** Nixon, H., Saphores, J.-D., Ogunseitan, O. A. , & Shapiro, A. A. (2007). “Understanding Preferences for Recycling Electronic Waste in California,” presented at the 48th Annual Conference of the Association of Collegiate Schools of Planning, October 18-21 in Milwaukee, Wisconsin.
- **CO41.** Aguilar, I., and J.-D. Saphores (2007) “Public Accountability and Performance of Two Border Water Utilities,” 2nd IWA Leading-Edge Conference & Exhibition on Strategic Asset Management, Lisbon, Portugal, October 17-19.

- **CO40.** Bakshi, B., and Saphores, J.-D. (2007) “Grandma or the Wolf? A real options framework for managing human-wildlife conflicts,” BioEcon IX at Kings College Cambridge, 19-21 September.
- **CO39.** Nixon, H. & Saphores, J.-D. (2007). Impacts of motor vehicle operation on water quality: Clean-up costs and policies. Paper presented at the 11th World Conference on Transport Research, Berkeley, CA, June.
- **CO38.** Aguilar, I., and J.-D. Saphores (2007). “Accountability and performance of water utilities at the U.S.-Mexico Border,” Seminar on Border Health and Border Resources. UC Mexus, Riverside CA May.
- **CO37.** Nixon, H., Saphores, J.-D., Ogunseitan, O. A. , & Shapiro, A. A. (2007). Electronic Waste Recycling Preferences in California: The Role of Environmental Attitudes and Behaviors. Paper presented at the annual IEEE International Symposium on Electronics & the Environment, Orlando, FL, May 7-10.
- **CO36.** Lincoln, J.D., Earthman, J.C., Ogunseitan, O.A., Saphores, J.-D., and A. A. Shapiro (2007). Renewable-resource Printed Wiring Board Design using Natural Fibers and a Bio-based Thermosetting Matrix. International Symposium on Electronics and the Environment. Orlando, FL., May 7-10. Best Paper Award.
- **CO35.** Nixon, H. & Saphores, J.-D. (2006). Financing electronic waste recycling: Californian households’ willingness to pay an advanced recycling fee. Paper presented at the annual meeting of the American Collegiate Schools of Planning, Fort Worth, TX, November.
- **CO34.** Aguilar, I., and J.-D. Saphores (2006). Local Accountability and Performance of water utilities (2006). 2nd World Planning School Congress. Mexico City, July 11-16.
- **CO33.** Nixon, H., Saphores, J.-D., Ogunseitan, O. A. , Lincoln, J. D., & Shapiro, A. A. (2006) California households’ willingness to pay for “green” PCs. Paper presented at the annual IEEE International Symposium on Electronics & the Environment, San Francisco, CA, May 8-11.
- **CO32.** Aguilar, I., and Saphores, J.-D., (2006). “El No pago de los servicios del agua potable y alcantarillado y algunos de sus impactos,” IV World Water Forum, Mexico City. March 16-22.
- **CO31.** “Understanding Californians’ Interest for Hybrid Cars,” presented by M. Sangkapichai, *12th Annual University of California Transportation Center Student Conference, University of California, Berkeley, February 9-11, 2006.*
- **CO30.** “Financing E-Waste Management: Californians’ Willingness to Pay an Advanced Recycling Fee and a Premium for Green Electronics,” presented by H. Nixon, with A. Shapiro, J. Lincoln, and O. Ogunseitan, *Greening XV, USC – Los Angeles, January 28, 2006.*
- **CO29.** Saphores, J.-D., Nixon, H., Ogunseitan, O. A., & Shapiro, A. (2005) “E-waste management in California: Consumer willingness to recycle,” Paper presented at the 6th biennial CANSEE conference (Canadian Society for Ecological Economics), York University, Toronto, Canada, October 27-29.

- **CO28.** “A Study of Benign Manufacturing of Electronics, Recycling and Disposal Trades,” presented by Oladele Ogunseitan, with A. Shapiro, J. Schoenung, H. Nixon, and J. Lincoln, *International Society of Industrial Ecology Annual Conference*, Stockholm, June 12-15, 2005.
- **CO27.** “Consumer Willingness to Recycle Electronic Waste in California,” presented by Hilary Nixon, with O. Ogunseitan, J. Schoenung, A. Shapiro, and J. Lincoln, *International Society for Industrial Ecology Annual Conference*, Stockholm, Sweden, June 12-15, 2005.
- **CO26.** “Environmentally Benign Materials for Electronics: A Review of Current Developments and Emerging Technologies,” presented by John Lincoln, with O. Ogunseitan, J. Schoenung, H. Nixon, and A. Shapiro, *IEEE/CPMT 10th International Symposium on Advanced Packaging Materials*, Beckman Center, Irvine, CA, March 2005.
- **CO25.** “Decision Analysis and Sectoral Trade-offs in the Management of Toxic Metals used in Electronic Products,” presented by O. Ogunseitan, with J. Schoenung and A. Shapiro, *NSF Design, Service and Manufacturing Grantees and Research Conference*, Scottsdale, AZ, January 2005.
- **CO24.** “Willingness to Recycle Electronic Waste in California: A Semi-Nonparametric Extended Ordered Probit Analysis,” presentation by Hilary Nixon, with O. Ogunseitan, J. Schoenung & A. Shapiro, *Greening XIV*, UC Irvine, January 22, 2005.
- **CO23.** “Green Electronics: A U.S. Perspective on Policy, Risk, and Product Design,” presented by Julie Schoenung, with O. Ogunseitan, and A. Shapiro, *Electronics Goes Green 2004*, Berlin, Germany, September 6-8, 2004.
- **CO22.** “Grandma or the Wolf? A Real Options Framework for Managing Humans-Wildlife Conflicts,” presented by Baishali Bakshi, *38th Annual Meeting of the Canadian Economic Association*, Ryerson University, Toronto, Ontario, June 4 - 6, 2004.
- **CO21.** “Willingness to Pay for Electronic Waste Recycling in California: Preliminary Survey Results,” poster presented by Hilary Nixon, *2004 IEEE International Symposium on Electronics and the Environment*, Scottsdale, AZ, May 10-13, 2004.
- **CO20.** “Environmental and Economic Trade-Offs for Managing Electronic Waste in California: The Case of Cell Phones and Personal Computers,” presented by Amrit Bhuie, with O. Ogunseitan, J. Schoenung, and A. Shapiro, *17th Annual Research Symposium, UC Toxic Substance Research & Teaching Program*, San Diego, May 2004.
- **CO19.** “Willingness to Pay for Electronic Waste Recycling in California: Preliminary Survey Results,” poster presented by Hilary Nixon, *University of California Toxic Substances Research and Teaching Program Annual Conference*, San Diego, CA, April 23-24, 2004.
- **CO18.** “Implications of Pb-Free Microelectronics Assembly in Aerospace Applications,” presented by Andrew Shapiro, with J. Bonner, O. Ogunseitan, and J. Schoenung, *IEEE Aerospace Conference*, Big Sky, Montana, March 2004.
- **CO17.** “Grandma or the wolf? A Real Options Framework for Managing Humans-Wildlife Conflicts,” presented by Baishali Bakshi, *Allied Social Sciences Meeting*, San Diego, CA, January 5-6 2004.

- **CO16.** “Can Grandma and the Wolf Live in Harmony?,” presented by Baishali Bakshi, 7th Occasional Conference on Environmental Economics, Bren School of Environmental Science & Management, University of California, Santa Barbara, October 17-18, 2003.
- **CO15.** “Biocomplex Dimensions of Industrial Ecology: Sectoral Trade-Offs on Selecting Alternatives to Lead (Pb) in Electronics,” presented by O. Ogunseitan, with J. Schoenung, A. Shapiro, A. Bhuie, and A. Stein, *First International Conference on Sustainable Planning and Development*, Skiathos Island, Greece, Oct. 1-3, 2003.
- **CO14.** “The Environmental Impacts of Motor Vehicle Operation on Water Quality: A Preliminary Assessment,” poster presented by Hilary Nixon, *California APA State Conference*, Santa Barbara, CA, Sept. 28-Oct. 1, 2003.
- **CO13.** “Lead In Electronics: An Industrial Ecology Case Study,” presented by Andrew Shapiro, with J. Schoenung, and O. Ogunseitan, *International Symposium on Industrial Ecology*, Ann Arbor, Michigan, June 2003.
- **CO12.** “Lead-Free Solders: Issues on Toxicity, Availability, and Impacts of Extraction,” presented by Julie Schoenung, with A. Ku, O. Ogunseitan, and A. Shapiro, *Proceedings, 53rd Electronic Components and Technology Conference*, New-Orleans, May 2003.
- **CO11.** “Managing Toxic Metals in Electronic Waste: Future Implications of Alternative Policies for the Health, Environment, and Economy Sectors in California,” presented by Amrit Bhuie, with O. Ogunseitan, A. Shapiro, J. Schoenung, H-Y. Kang, A. Stein, H. Aoyagi, and H. Nixon, *UC Toxic Substances Research & Teaching Program, 16th Annual Research Symposium*, Oakland, CA, April 25-26, 2003.
- **CO10.** “The Devil that We Know: Pb Replacement Policies under Conditions of Scientific Uncertainty,” presented by Oladele Ogunseitan, with J. Schoenung, A. Shapiro, A. Bhuie, H-Y. Kang, H. Nixon, and A. Stein, *Proceedings, Electronic Design, Manufacturing, and the Environment*, Irvine, April 3-4, 2003.
- **CO9.** “The Environmental Impacts of Motor Vehicle Operation on Water Quality: A Preliminary Assessment,” presented by Hilary Nixon at the *ACSP 2002 Annual Conference*, in Baltimore, MD, November 21-24 2002.
- **CO8.** “The Environmental Impacts of Motor Vehicle Operation on Water Quality: A Preliminary Assessment,” poster presented by Hilary Nixon at the *APPAM Fall Research Conference*, Dallas, TX, November 7-9, 2002.
- **CO7.** “Used Oil Policies to Protect the Environment: An Overview of Canadian Experiences,” presented by Hilary Nixon at the *Third International Conference on Transportation and Traffic Studies*, Guilin, China, July 23-25, 2002.
- **CO6.** “The Environmental Impacts of Motor Vehicle Operation on Water Quality: A Preliminary Assessment,” presented by Hilary Nixon at the *annual UCTC conference*, in Berkeley, California, February 2, 2002.

- **CO5.** “The Environmental Impacts of Motor Vehicle Operation on Water Quality: A Preliminary Assessment,” presented by Hilary Nixon at *Greening XI*, UCLA, Los Angeles, California, January 26, 2002.
- **CO4.** “Economic Uncertainty, Irreversibilities, and the Decision to Reduce Emissions of a Stock Pollutant: A Real Option Approach,” presented by Rams Kanouni, *Annual Conference of the Canadian Economic Association*, May 31- June 3, 2001, Montreal, Canada.
- **CO3.** “Simulation Based Exact Tests for Jump Diffusions with Unidentified Nuisance Parameters: An Application to Commodity Spot Prices,” presentation by Lynda Khalaf, with J.-F. Bilodeau, *Society for Computational Economics*, July 6-8, 2000, Barcelona, Spain.
- **CO2.** “CO₂, Land Use, and Forestry,” presented by Caroline Gauthier, 1999 Conference of the *Canadian Research Group in Environmental and Resource Economics*, Edmonton, October 2-3.
- **CO1.** “CO₂, Land Use, and Forestry,” presented by Caroline Gauthier, *Annual Conference of the Canadian Economic Association*, Toronto, Canada, May 28-30, 1999.

Grants

- **G35.** “Incorporating Vehicular Emissions Into An Efficient Mesoscopic Traffic Model - An Application to Southern California”, \$98,551, UCTC, PI, 09/09 - 07/10.
- **G34.** “Can Technology Make Us Greener Drivers?”, \$93,955, UCTC, Co-PI, 09/09 - 07/10.
- **G33.** “Mitigating the Air Quality Impacts of San Pedro Bay Port Drayage Truck Operations on Arterials”, \$114,651, UCTC, Co-PI, 09/09 - 07/10.
- **G32.** “Understanding Household Preferences for Alternative Fuel Vehicle Technologies”, \$51,436, Mineta Transportation Institute, PI, 04/09 - 06/10.
- **G31.** “Mitigating the Social and Environmental Impacts of Multimodal Freight Corridor Operations at Southern California Ports, Phase II”, \$130,921, UCTC, Co-PI, 08/08-07/09.
- **G30.** “Mitigating the Social and Environmental Impacts of Multimodal Freight Corridor Operations at Southern California Ports”, \$89,869, UCTC, Co-PI, 09/07-07/09.
- **G29.** “Real Option Based Procurement for Transportation Services”, \$107,398, UCTC, Co-PI, 09/07 to 08/08.
- **G28.** “Enforcement and non-payment of water services - An analysis of utilities at the US-Mexico border”, \$24,050, UC MEXUS – CONACYT, PI, 07/07-06/09.
- **G27.** “Building sustainability indicators to assess the physical, social, and economic values of greening cities - A study of the million trees initiatives in Los Angeles, CA”, \$299,985, Environmental Protection Agency (Communities and the Built Environment, EPA Region 9), PI, 05/07-12/09.
- **G26.** “Assessing the Role of Desalination in Southern California’s Future Water Supply”, \$10,000,

Urban Water Research Center at UCI, PI, 9/06-08/08.

- **G25.** “Collaborative Research: A Study in the Dynamics of Human Behavior in Institutional Innovation and Learning”, \$748,712, National Science Foundation-“Agents of Change,” Co-PI, 09/06-08/10.
- **G24.** Travel and research grant, \$1700, School of Social Ecology, University of California Irvine, 01/06-12/06.
- **G23.** “Engineering Environmentally-Benign Electronics: Convergent Optimization of Materials Use, Consumer Participation, and Government Regulation,” \$1.5 million, National Science Foundation MUSES 0524903, Co-PI, 10/05-09/10.
- **G22.** Faculty Desktop Computing Initiative Award, \$1500, UC Irvine, 02/05-05/05.
- **G21.** Research grant for “Managing Water Resources at the US-Mexico Border,” \$1500, School of Social Ecology, University of California Irvine, 02/05-12/05.
- **G20.** Travel grant, \$700, School of Social Ecology, University of California Irvine, 01/05-12/05.
- **G19.** “Diesel Substitutes: Informing Public Policy about their Environmental, Public Health, and Economic Impacts,” \$14,978, Newkirk Center, UCI, Sole PI, 06/04-now.
- **G18.** Travel grant, \$850, School of Social Ecology, University of California Irvine, 01/04-12/04.
- **G17.** “TMDLs in California: An Analysis of Current and Proposed Implementation Practices,” \$43,470, Urban Water Research Center at UCI, Sole PI, 09/03-now.
- **G16.** “Electronic Design, Manufacturing, and the Environment: A Multidisciplinary Symposium,” \$15,000, University of California, Discovery Grant Program, Co-PI, 01/03-05/03.
- **G15.** Travel grant, \$900, School of Social Ecology, University of California Irvine, 01/03-12/03.
- **G14.** “Lead-Based Solder in Electronics: An Industrial Ecology Assessment of Current Inventory and End-of-Life Management,” \$25,000, AT&T Industrial Ecology Faculty Fellow, Co-PI, 01/03-12/03.
- **G13.** “Biocomplex Dimensions of Industrial Ecology: Decision Analysis and Sectoral Trade-offs in the Management of Toxic Metals Used in the Electronics Industry,” \$110,000, National Science Foundation, Co-PI, 10/02-08/04.
- **G12.** “Managing Toxic Metals in Electronic Waste: Future Implications of Alternative Policies for Health, the Environment, and Economic Sectors in California,” \$148,934, Toxic Substances Research and Teaching Program, University of California, Co-PI, 06/02-05/04.
- **G11.** “Towards a UCI Center For Industrial Ecology: Integrating Research On Materials, Engineering, Economics, The Environment, And Policy,” \$30,000, Executive Vice-Chancellor UCI, Co-PI, 01/02-12/04.

- **G10.** “A Case Study in Industrial Ecology at UCI: Assessing the Impacts of Lead Use in the Electronics Industry,” \$25,000, AT&T Industrial Ecology Faculty Fellow, Co-PI, 01/02-12/02.
- **G9.** Travel grant, \$900, School of Social Ecology, University of California Irvine, 01/02-12/02.
- **G8.** “The Impact Of Motor Vehicle Transportation On Water Quality,” \$48,711, University of California Transportation Center, Sole PI, 08/01-07/03.
- **G7.** Funds to create a course on “Transportation and the Environment,” \$6,400, University of California Transportation Center, 08/01-07/02.
- **G6.** “Valuing Electricity Generating Assets in a Deregulated Market Using Real Options,” \$CA 25 000, Natural Resources Canada, Co-PI, 10/99-09/00.
- **G5.** “Analysis of the Trade-offs Between Crop Losses and Pesticide Exposure using Real Options,” \$CA 8 500, CRSH and Université Laval, Sole PI, 09/99-08/00.
- **G4.** “Protecting Biodiversity in Canada: Why and How Should Governments Get Non-Profit Organizations Involved?,” \$CA 19 850, Kahanoff Foundation and School of Public Policy at Queen’s University, Co-PI, 06/99-05/00.
- **G3.** “Structural Stability and Discontinuities in Crude Oil Spot Prices,” \$CA 22 500, Natural Resources Canada, Joint PI, 03/98-06/99.
- **G2.** “Conception of a System of Green Accounts for a Regional Forest Economy,” \$CA 20 000, Canadian Network of Forestry Research, January 1998, Co-PI, 05/98-04/99.
- **G1.** “Analysis of Economic Instruments to Protect Endangered Species’ Habitats on Private Lands,” \$CA 12 500, Québec Ministry of the Environment, Co-PI, 07/97-06/98.

TEACHING

Main Teaching Interests: Transportation Systems and Policy, Urban Economics, Probabilities and Statistics, Sustainability, Natural Resource Economics and Policy, Environmental Economics and Policy, Microeconomics, Applied Econometrics.

Teaching Experience

UCI

“Transportation Demand Analysis” (CEE220A), graduate course, Winter 2008 and Fall 2008.

“Environmental Studies III” (US13C), undergraduate course, Spring 2008 and Spring 2009.

“Methods III: Modeling, economics, and management” (CEE110), undergraduate course, Spring 2007, 2008, and 2009.

“Data Analysis II,” (SOCECOL 264B), PhD course, Spring 2007 & Spring 2008.

“Transportation and the Environment” (CEE125), undergraduate course, Winter 2007 and Fall 2008.

“Sustainability II,” undergraduate course, Spring 2006.

“Sustainability I,” undergraduate course, Winter 2006 and 2007.

“Economic Development Finance,” undergraduate course, Winter 2006.

“Environmental Economics and Policy,” (U205) graduate course, Winter 2001, 2002, 2004, & Spring 2006.

“Transportation and the Environment,” (U275 then U205) graduate course, Spring 2002; (E100) undergraduate course, Winter 2004.

“Water Resource Policy,” (E155U) undergraduate course, Winter 2001 and 2002, Spring 2003, 2004, and 2005.

“Advanced Research Methods,” (U218A), graduate course, Fall 2004.

“Analytical Methods for Planning,” (U215) graduate course, Spring 2001, 2002, 2003, 2004, & 2005.

“Environmentally Sustainable Manufacturing,” (CBEMS 249 or EECS 272), co-taught at UCI with A. Shapiro, O. Ogunseitan, and J. Schoenung, Spring 2003 and Spring 2009. Also co-taught at UC-Davis Winter 2005.

Freshman seminar on “Global Environmental Problems: What Role for Economics?,” Fall 2003, Fall 2004, Spring 2005, Winter 2006 and Spring 2006.

“Field Study,” (SE195) undergraduate course, Spring 2001, 2002, 2003, 2004, & 2005.

Université Laval, Québec, Canada

“Natural Resource Economics,” graduate course, Fall 1999.

“An Introduction to Environmental Economics,” graduate course, Winter 1998, 1999, and 2000.

“Time Series Econometrics,” graduate course, Winter 1999 and 2000.

“Economics for Engineers,” undergraduate course, Winter 1998 and 1999.

“Dynamical Methods in Economics,” graduate course, Winter 1997.

Cornell University (as a Teaching Assistant)

“Uncertainty Analysis in Engineering,” undergraduate course, Fall 1993 and 1994.

“Engineering Economics,” undergraduate course, Spring 1994 and 1995.

Tutor in mathematics and physics for Navy ROTC, from Fall 1994 to Fall 1995.

University of Colorado (as a Teaching Assistant)

“Mechanics of Materials”, “Soil Mechanics,” and “Dynamics,” 1987-1988.

Advising

• **Doctoral Committees:**

Advisor for Xiaoling Lin (Transportation Science, UCI, Winter 2009-present)
Advisor for Lima Kopitch (Transportation Science, UCI, October 2008-present)
Advisor for Roberto Ayala (Transportation Science, UCI, September 2008-present)
Advisor for Daji Yuan (Civil and Environmental Engineering, UCI, Fall 2007-present)
Advisor for Chung-Cheng Yeh (Civil and Environmental Engineering, UCI, Fall 2006-present)
Advisor for Wei Li (School of Social Ecology, UCI, Fall 2006-present)
Committee member for Joe Chow (Civil & Environmental Engineering, UCI, May 2008-present)
Committee member for John Duselis (Department of Computer Science, September 2008-present)
Committee member for Gunwoo Lee (Civil and Environmental Engineering, UCI, Summer 2007-present)

Students who graduated:

Advisor for Mana Sangkapichai (Transportation Science, UCI, Winter 2005-September 3009)
Co-Advisor for Mei-Ting Tsai (Civil and Environmental Engineering, UCI, 2006-2008)
Co-Advisor for Dhawal Nagpal (Economics, UCI, 2004-2008)
Advisor for Ismael Aguilar (Ph.D., Planning, Policy, & Design, UCI, 2001-2006)
Advisor for Rams Kanouni (Ph.D., Economics, Université Laval, 1999-2006)
Advisor for Hilary Nixon (Ph.D., Planning, Policy, & Design, UCI, 2001-2006)
Co-Advisor for Baishali Bakshi (Ph.D., Economics, UCI, 2000-2004)
Committee member for Michael Johnson (Environmental Health, Science and Policy, UCI 2007)
Committee member for Nesamani Subramanian Kalandiyur (ITS, UCI, 2002-2007)
External committee member for Angila Romious (Social Ecology, UCI, 2007)
External committee member for Tristan Egualada (Mathematics, UCI, 2005)
External committee member for Hun-Kyun Bae (Civil & Env. Engineering, UCI, 2002 & 2005)
External committee member for David Wangerin (ICS, UCI, 2005)
Committee member for David Turbow (Ph.D., Env. Health, Science, and Policy, UCI, 2001-2003)
Committee member for Tim Smith (Ph.D., Env. Health, Science, and Policy, UCI, 2002-2003)
External committee member for John M. Thomas (Civil & Env. Engineering, UCI, 2004)
External committee member for Eric Runnerstrom (Env. Health, Science, and Policy, UCI, 2004)
External committee member for Lisa Sander (Env. Health, Science, and Policy, UCI, 2003)

• **Masters Committees:**

PR Advisor for Jessica Debats (Planning, Policy, & Design, UCI, Summer 2009-present)

Students who graduated:

Committee member for David Barral (CEE, Summer 2009)
Co-Advisor for Courtney Endo (CEE and PPD, UCI, September 2007-March 2009)
PR Advisor for Annette Tam (Planning, Policy, & Design, UCI, Summer 2008-April 2009)
PR Co-Advisor for Sayaka Sugahara (Planning, Policy & Design, UCI, Summer 07-April 08)
Advisor for Nabuhiko Daito (Planning, Policy, & Design, UCI, Fall 2005-June 2007)
Advisor for Fareeha Kibriya (Planning, Policy, & Design, UCI, Fall 2005-June 2007)

PR Advisor for Travis Seaward (Planning, Policy, & Design, UCI, 2004-2006)
Advisor for Jared Eskenazi (Planning, Policy, & Design, UCI, 2004-2006)
Advisor and PR Advisor for Natalia Kumar (Planning, Policy, & Design, UCI, 2004-2006)
PR Advisor for Alexa Wiedel (Planning, Policy, & Design, UCI, 2004-2005)
Advisor for Eric Dyer (Planning, Policy, & Design, UCI, 2003-2005)
Advisor for Nicole Krause (Planning, Policy, & Design, UCI, 2003-2005)
Advisor for Stephen Gibson (Planning, Policy, & Design, UCI, 2002-2004)
Advisor for Johanna Young (Planning, Policy, & Design, UCI, 2002-2004)
PR Advisor for Kelly Koldus (Planning, Policy, & Design, UCI, 2002-2004)
Advisor for Cliff Jones (Planning, Policy, & Design, UCI, 2001-2003)
PR Advisor for Tony Raeker (Planning, Policy, & Design, UCI, 2001-2003)
Advisor for Gota Togawa (Planning, Policy, & Design, UCI, 2000-2002)
Committee member Anna Ku (Civil and Environmental Engineering, UCI, 2002)
Committee member for Elaine Luckey (Environmental Health, Science, and Policy, UCI, 2001)
Co-advisor for Éric Gravel (Economics, Université Laval, 1999-2002)
Co-advisor for John-Gabriel Power (Economics, Université Laval, 1999-2001)
Co-advisor for Jean-François Bilodeau (Economics, Université Laval, 1998-2000)

- Undergraduate Students (Honors/Research)
 - Allan Taing (2005-2006)
 - Hallie Rulnick (2005-2006)
 - Amy Watson (2003-2004)
 - Debbie Karimoto (2003-2004)
 - Linda Isakson (2002-2003)

SERVICE

Academic Community

Journal Referee for

American Journal of Agricultural Economics	Canadian Journal of Agricultural Economics
Canadian Journal of Economics	Canadian Public Policy
Ecological Economics	Economics of Governance
Environment and Development Economics	Journal of Economic Dynamics and Control
Journal of Agricultural and Resource Economics	J. of Environmental Economics & Management
Journal of Institutional and Theoretical Economics	Journal of Regional Science
Natural Resources Modeling	Review of Economic Studies
The Engineering Economist	Transportation Research Part A
Waste Management	Water International

Reviewer of Grant Proposals

NSF	Illinois Sea Grant
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Committee Participation

- Member, AAEA Professional Activities Committee, Summer 2004 - Spring 2007.

University Community

- Member of BUSHFA (Board on Undergraduate Scholarships, Honors & Financial Aids), University of California Irvine, 09/07-08/10.
- Member, Senate Sub-Committee on International Education, University of California Irvine, 09/04-08/05.
- Member, UCI Senate Committee on Teaching, Fall 2002-Spring 2003.

School of Social Ecology

- Member, School of Social Ecology Executive Committee, Fall 2004-Summer 2005.
- Member, School of Social Ecology Executive Committee, Fall 2003-Summer 2004.
- Member, Ad Hoc Committee on Methods in Social Ecology, Fall 2002-Spring 2003.

Inter-Unit

- Director of the Transportation Science Program, March 2009-present. Proposed the activation of the Master in Transportation Science.
- Member, recruiting committee for the Urban Water Research Center at UCI (with Soroosh Sorooshian, Helen Ingram, and Jay Famiglietti), Winter 2005 – Fall 2005.
- Lead writer of the draft for a concurrent MSCE in Civil Engineering/Masters in Urban Planning (2004-2005).
- Co-organizer of the symposium “Electronic Design, Manufacturing, and the Environment,” The Beckman Center for the National Academy of Sciences, UCI, April 3rd- 4th, 2003.
- Member, Institute for Transportation Studies Executive Committee, Fall 2003-present.
- Member, Steering committee for the Urban Water Research Center (UWRC) initiative, 2001-2003.

CEE Department

- Member of the undergraduate affairs committee, September 2007-present.
- Helped administer preliminary exams for CEE students pursuing a PhD in transportation engineering, in August 2008 and August 2009.
- Merit review committee member in November of 2007, April 2008, and April 2009.
- Promotion review committee member in February of 2009.
- Department representative for international education (October 2007-September 2009).

PPD Department

- Co-Organized the Departmental Seminar Series, Planning, Policy and Design, Winter 2005-present.
- Member, Ad Hoc Committee on Promotion and Tenure, Planning, Policy and Design, UCI, 2005.
- Member, Computer Committee, Civil and Environmental Engineering, UCI, 2004-2005.
- Member, Ad Hoc Committee on Promotion and Tenure, Planning, Policy and Design, UCI, 2003.
- Member, Ad Hoc Committee on Promotion and Tenure, Planning, Policy and Design, UCI, 2002.
- Member, Ad Hoc Committee on Student Admissions, Planning, Policy and Design, UCI, Winter 2002.

Service at Université Laval

- Co-organized an International Colloquium on “Ecology and Economics,” (“3^{èmes} Journées du GREEN-CIRANO”) in Québec City, December 3-4, 1999.
- Departmental Representative to the Library System (Université Laval; Fall 1998-Summer 1999).

Community

- Co-organized a second workshop on sustainability indicators for Los Angeles, at the IoE in LaKretz Hall, UCLA, Friday April 3rd, 2009.
- Co-organized a workshop titled “Building neighborhood-level sustainable indicators for Los Angeles, CA” at the IoE, UCLA, January 22nd, 2008.
- Weekly volunteer at ReStore, a warehouse operated by Habitat for Humanity in Santa Ana, CA, February 2005-June 2005.
- Invited presentation for Distinguished Guest Lecture Series, Saddleback College, Emeritus Institute, Mission Viejo, CA. Title “Global Environmental Problems: What Role for Economics,” April 2003.
- Weekly volunteer at the Maple Center, an after-school program in Costa Mesa mostly for children of Hispanic immigrants, October 2002-June 2003.
- Invited presentation for UCI Think on Water Issues in Orange County – UCI, March 2001

OTHER

Awards

- ATT Foundation Industrial Ecology Fellow, 2003.
- ATT Foundation Industrial Ecology Fellow, 2002.
- Course Releases (2), UCI and Department of Planning, Policy, and Design, Spring 2002.
- Hagman Conference Scholar at UCLA’s Extension’s 16th Annual Land Use Law and Planning Conference, January 25, 2002.
- Distinguished Ph.D. Thesis, Department of Agricultural, Resource, and Managerial Economics, Cornell University, May 1998.
- Stephen B. and Janice Ashley Graduate Fellowship in Agricultural Economics, Fall 1995.
- Fédération Nationale du Bâtiment Scholarship, Spring 1986.

Membership in Professional Societies

- American Society of Civil Engineers
- Agricultural and Applied Economic Association
- Western Economic Association

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