

Jean-Daniel M. SAPHORES

Curriculum Vitae

Civil & Environmental Engineering
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PROFESSIONAL EXPERIENCE

Associate Professor , Civil & Environmental Engineering, U.C. Irvine, CA Core faculty of the Institute of Transportation Studies Core faculty of the Urban Water Research Center Courtesy appointments in Planning, Policy, & Design, and Economics	07/06-present
Assistant Professor , Planning, Policy, and Design, U.C. Irvine, CA Courtesy appointments in Economics and Civil & Environmental Engineering	07/00-06/06
Consultant , World Bank (Analysis of Romanian Forestry Auctions)	06/03-02/04
Assistant Professor , Department of Economics, Université Laval, Québec	08/97-07/00
Post-Doctoral Fellow , Department of Economics, Université Laval, Québec	01/97-06/97
Summer Intern , The World Bank, Washington, D.C.	07/96-09/96
Research/Teaching Assistant , Cornell University, Ithaca, NY	09/91-12/96
Staff Engineer , Woodward-Clyde Consultants, Denver, CO,	09/89-08/91
Research/Teaching Assistant , University of Colorado, Boulder, CO	09/87-08/89
Staff Engineer , 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	01/1997
MA in Economics , Cornell University, Ithaca, NY	08/1994
MS in Environmental Systems Engineering , Cornell University, Ithaca, NY	08/1994
MS in Geotechnical Engineering , University of Colorado, Boulder, CO	08/1989
Ingénieur Civil , Ecole Nationale des Ponts et Chaussées (ENPC), Paris, France Major subject: Civil Engineering. Minor subject: Applied Mathematics	08/1988

SELECTED HONORS AND AWARDS

Pike Johnson Award for outstanding paper published in the field of transportation systems planning and administration (Transportation Research Board, Washington, DC)	2010
Best Publication Award of UC Toxic Substances Research & Teaching Program	2007
AT&T Industrial Ecology Fellow:	2003-2004
AT&T Industrial Ecology Fellow:	2002-2003
Distinguished Ph.D. Thesis, Dept. 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

GRANTS

- **G36.** "Low Energy Options for Making Water from Wastewater," **\$4.8 million, NSF-PIRE, Co-PI,** 09/01/12-08/31/17.
- **G35.** "A Simulation-Based Approach to Quantify Congestion and Air Pollution Impacts from Road Incidents" 107,231\$ UCTC, PI, 08/11-07/13.
- **G34.** "Greening freight transportation: An analysis of some social benefits from shifting freight traffic to off-peak hours" \$88,823 UCTC, PI, 08/10-07/11.
- **G33.** "Incorporating Vehicular Emissions into an Efficient Mesoscopic Traffic Model - An Application to Southern California," \$98,551, UCTC, PI, 08/09 - 07/10.
- **G32.** "Can Technology Make Us Greener Drivers?" \$93,955, UCTC, Co-PI, 08/09 - 07/10.
- **G31.** "Mitigating the Air Quality Impacts of San Pedro Bay Port Drayage Truck Operations on Arterials," \$114,651, UCTC, Co-PI, 08/09 - 07/10.
- **G30.** "Mitigating the Social and Environmental Impacts of Multimodal Freight Corridor Operations at Southern California Ports," \$220,790, UCTC, Co-PI, 09/07-08/09.
- **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 ó CONACYT, PI, 09/07-08/09.
- **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, EPA (Communities and the Built Environment, EPA Region 9), PI,** 05/07-02/12.
- **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,** 9/06-08/09.
- **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,** 10/05-09/11.
- **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, PI, 06/04-05/05.
- **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, PI, 09/03-08/05.

- **G16.** ðElectronic Design, Manufacturing, and the Environment: A Multidisciplinary Symposium,ö \$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.** ðLead-Based Solder in Electronics: An Industrial Ecology Assessment of Current Inventory and End-of-Life Management,ö \$25,000, AT&T Industrial Ecology Faculty Fellow, Co-PI, 01/03-12/03.
- **G13.** ðBiocomplex Dimensions of Industrial Ecology: Decision Analysis and Sectoral Trade-offs in the Management of Toxic Metals Used in the Electronics Industry,ö **\$110,000, National Science Foundation, Co-PI**, 10/02-08/04.
- **G12.** ðManaging Toxic Metals in Electronic Waste: Future Implications of Alternative Policies for Health, the Environment, and Economic Sectors in California,ö **\$148,934, Toxic Substances Research and Teaching Program, University of California, Co-PI**, 06/02-05/04.
- **G11.** ðTowards a UCI Center for Industrial Ecology: Integrating Research on Materials, Engineering, Economics, the Environment, and Policy,ö \$30,000, Executive Vice-Chancellor UCI, Co-PI, 01/02-12/04.
- **G10.** ðA Case Study in Industrial Ecology at UCI: Assessing the Impacts of Lead Use in the Electronics Industry,ö \$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.** ðThe Impact Of Motor Vehicle Transportation On Water Quality,ö \$48,711, University of California Transportation Center, PI, 08/01-07/03.
- **G7.** Funds to create a course on ðTransportation and the Environment,ö \$6,400, University of California Transportation Center, 08/01-07/02.
- **G6.** ðValuing Electricity Generating Assets in a Deregulated Market Using Real Options,ö \$CA 25 000, Natural Resources Canada, Co-PI, 10/99-09/00.
- **G5.** ðAnalysis of the Trade-offs Between Crop Losses and Pesticide Exposure using Real Options,ö \$CA 8 500, CRSH and Université Laval, PI, 09/99-08/00.
- **G4.** ðProtecting Biodiversity in Canada: Why and How Should Governments Get Non-Profit Organizations Involved?,ö \$CA 19,850, Kahanoff Foundation and School of Public Policy at Queen's University, Co-PI, 06/99-05/00.
- **G3.** ðStructural Stability and Discontinuities in Crude Oil Spot Prices,ö \$CA 22500, Natural Resources Canada, PI, 03/98-06/99.
- **G2.** ðConception of a System of Green Accounts for a Regional Forest Economy,ö \$CA 20000, Canadian Network of Forestry Research, January 1998, Co-PI, 05/98-04/99.
- **G1.** ðAnalysis of Economic Instruments to Protect Endangered Speciesø Habitats on Private Lands,ö \$CA 12500, Québec Ministry of the Environment, Co-PI, 07/97-06/98.

RESEARCH

Main Research Interests: Transportation Systems, Environmental Systems with a particular interest for Waste Management (E-waste), Water Resources, and Air Pollution, Sustainable Infrastructure Management, Real Options.

REFEREED JOURNAL PAPERS (student advisees are underlined)

- **JP48** Milovantseva, N., and J.-D. Saphores, forthcoming. Time bomb or hidden treasure? Characteristics of junk TVs and of the U.S. households who store them. *Waste Management*.
- **JP47** Li, W., and J.-D. Saphores, forthcoming. Assessing the Impacts of Freeway Truck Traffic on Residential Property Values: A Southern California Case Study. *Transportation Research Record*.
- **JP46** Pincetl, S., Gillespie, T., Pataki, T., Saatchi, S. and J.-D. Saphores, forthcoming. Urban Tree Planting Programs, Function or Fashion? Los Angeles and Urban Tree Planting Campaigns, *GeoJournal*. DOI 10.1007/s10708-012-9446-x.
- **JP45** Lee, G., You, S, Ritchie, S., Saphores, J.-D., Jaykrishnan, R., and O. Ogunseitan (2012) Assessing Air Quality and Health Benefits of the Clean Truck Program in the Alameda Corridor, CA. *Transportation Research Part A*, 46(8, October): 1177-1193.
- **JP44** Li, W., and J.-D. Saphores (2012) A Spatial Hedonic Analysis of the Value of Urban Land Cover in the Multifamily Housing Market in Los Angeles, CA, *Urban Studies*. 49(12, September) 2597-2615. DOI: 10.1177/0042098011429486.
- **JP43** Grant, S., Saphores, J.-D., Feldman, D.L, Hamilton, A.J., Fletcher, T., Cook, P., Stewardson, M., Sanders, B.F., Levin, L.A., Ambrose, R.F., Deletic, A., Brown, R., Jiang, S.C., Rosso, D., Cooper, W.J., Marusic, I. (2012) Taking the "Waste" Out of "Wastewater" for Human Water Security and Ecosystem Sustainability. *Science*. Vol. 337(6095, August): 681-686. DOI: 10.1126/science.1216852
- **JP42** Saphores, J.-D.M., O.A. Ogunseitan, and A.A. Shapiro (2012) Willingness to engage in pro-environmental behavior: An analysis of e-waste recycling based on a national survey of U.S. households. *Resources, Conservation and Recycling*, 60(March):49-63. doi:10.1016/j.resconrec.2011.12.003.
- **JP41** Saphores, J.-D., and W. Li (2012) Estimating the value of urban green areas: A hedonic pricing analysis of the single family housing market in Los Angeles, CA, *Landscape and Urban Planning*, 104(3-4, March): 373-387, DOI:10.1016/j.landurbplan.2011.11.012.
- **JP40** Gillespie, T.,W., Pincetl, S., Brossard, S., Smith, J., Saatchi, S., Pataki, D., and J.-D. Saphores (2012) A Time Series of Urban Forestry in Los Angeles, *Urban Ecosystems*, 15(1, March): 233-246 DOI 10.1007/s11252-011-0183-6.
- **JP39** Tsai, M.-T., Saphores, J-D, and A. Regan (2011) Valuation of Freight Transportation Contracts under Uncertainty, *Transportation Research Part E*. 47(6, November): 920-932
- **JP38** Saphores, J-D, and N. Milovantseva (2011) E-waste and the Digital Transition - Results from a Survey of US Households, *JOM (the journal of The Minerals, Metals & Materials Society)* 63(8): 14-17, DOI: 10.1007/s11837-011-0148-5

- **JP37** You S., Lee G., Ritchie S., Saphores J.-D., Sangkapichai M., and R. Ayala (2010) Air Pollution Impacts of Shifting San Pedro Bay Port's Freight from Truck to Rail in Southern California. *Transportation Research Record, Journal of the Transportation Research Board* 2162: 25634. DOI: 10.3141/2162-04
- **JP36** Garde, A., Saphores, J-D, Matthew, R. and K. Day (2010) Sustainable Neighborhood Development: Insights from Southern California, *Environment and Planning Part B*, 37 (3): 387-407.
- **JP35** Aguilar-Benitez, I., and J.-D. Saphores (2010) "Public Accountability and Performance of Two Border Water Utilities," *Water Policy* 12, 203-219. doi:10.2166/wp.2009.032.
- **JP34** Ogunseitán, O.A., Schoenung, J.M., Saphores, J.-D., and A.A. Shapiro (2009) The Electronics Revolution: From E-Wonderland to E-Wasteland, *Science*, 30/10/09: 326 (5953): 670 - 671
- **JP33** Tsai, M.-T., Regan, A. and J.-D. Saphores (2009) Freight Transportation Derivatives Contracts: State of the Art and Future Developments, *Transportation Journal*, 48(4, Fall): 7-19.
- **JP32** Saphores, J-D, Nixon, H., Ogunseitán, 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): 332263331.
- **JP31** 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 Record* 2123, 1196128. DOI: 10.3141/2123-13
- **JP30** 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* Vol. XVIII(2): 341-377.
- **JP29** Sangkapichai, M., and J.-D. Saphores (2009) "Why are Californians interested in hybrid cars?" *Journal of Environmental Planning and Management* 52 (1): 79696.
- **JP28** Nixon, H., and J.-D. Saphores (2009) "Information and the decision to recycle: Results from a survey of US households," *Journal of Environmental Planning and Management* 52 (2): 257 ó 277.
- **JP27** Nixon, H., Saphores, J.-D., O. Ogunseitán, 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.
- **JP26** Aguilar-Benitez, I. and J.-D. Saphores (2008) "An analysis of nonpayment of water services in Nuevo Laredo, Mexico," *Water Resources Research* 44. DOI: doi:10.1029/2007WR006225.
- **JP25** Lincoln, J.D., A. Shapiro, J.C. Earthman, J.-D. Saphores, and O. Ogunseitán (2008) "Design and Evaluation of Bioepoxy-Flax Composites for Printed Circuit Boards," *IEEE Transactions on Electronics Packaging Manufacturing* 31 (3): 211-220.

- **JP24** 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.
- **JP23** 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.
- **JP22** 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: 2572-2578.
- **JP21** 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.
- **JP20** 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 .
- **JP19** 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.
- **JP18** 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.
- **JP17** 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.
- **JP16** Saphores, J.-D. (2005) "The Density of Bounded Diffusions," *Economics Letters* 86(1): 87-93.
- **JP15** Saphores, J.-D. and J. Shogren (2005) "Managing Exotic Pests under Uncertainty," *Ecological Economics* 52(3): 327-39.
- **JP14** 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.
- **JP13** 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.
- **JP12** Saphores, J.-D. (2004) "Environmental Uncertainty and the Timing of Environmental Policy," *Natural Resources Modeling* 17(2): 163-190.

- **JP11** Saphores, J.-D. (2003) "Harvesting a Renewable Resource under Uncertainty." *Journal of Economic Dynamics and Control* 28 (3): 509-529.
- **JP10** 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.
- **JP9** 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.
- **JP8** Saphores J.-D., and B. Bakshi (2001) "Global Warming, Forests, and Biodiversity," *Energy Studies Review* 10(1): 49-56.
- **JP7** Saphores J.-D. (2000) "The Economic Threshold with a Stochastic Pest Population: A Real Options Approach," *American Journal of Agricultural Economics* 82, 541-555.
- **JP6** 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.
- **JP5** 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.
- **JP4** 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.
- **JP3** 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.
- **JP2** 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.
- **JP1** 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.

REFEREED CONFERENCE PROCEEDINGS (student advisees are underlined)

- **RCP17** Bhagat, A., Saphores J.-D., Jayakrishnan, R. (2012). Analysis of Timing of Truck and Car Accidents in a Busy Freight Corridor. Proceedings of the 91st meeting of the Transportation Research Board, Washington D.C.
- **RCP16** Saphores J.-D., Nixon, H. (2012). U.S. Household Preferences for Alternative-fuel Vehicles: Results from a National Survey. Proceedings of the 91st meeting of the Transportation Research Board, Washington D.C.

- **RCP15** Li, W., Saphores J.-D. (2012). Assessing the Impacts of Freeway Truck Traffic on Residential Property Values: A Southern California Case Study. Proceedings of the 91st meeting of the Transportation Research Board, Washington D.C.
- **RCP14** Ayala, R., Saphores J.-D. (2011). Impact of State and Local Incentives on Household Ownership of Hybrid Electric Vehicles: Results from 2009 National Household Travel Survey. Proceedings of the 90th meeting of the Transportation Research Board, Washington D.C.
- **RCP13** Kopitch L., Saphores J.-D. (2011). Assessing Effectiveness of Changeable Message Signs on Secondary Crashes. Proceedings of the 90th meeting of the Transportation Research Board, Washington D.C.
- **RCP12** Ayala R., You S., Saphores J.-D., Ritchie S., Lee G., Sangkapichai M., (2010). A Preliminary Analysis of the Environmental Impacts of the Clean Truck Program in the Alameda Corridor, California. Proceedings of the 89th meeting of the Transportation Research Board, Washington D.C.
- **RCP11** Lee G., You S., Sangkapichai M., Ritchie S., Saphores J.-D., Ogunseitan O., Ayala R., Jayakrishnan R., Torres R. (2010). Assessing the Environmental and Health Impacts of Port-Related Freight Movement in a Major Urban Transportation Corridor. Proceedings of the 89th meeting of the Transportation Research Board, Washington D.C.
- **RCP10** Sangkapichai M., Saphores J.-D., Ogunseitan O., Ritchie S., You S., and Lee G. (2010). Analysis of Health Impacts from Particle Matter and Nitrogen Oxide Emissions Resulting from Train Operations in the Alameda Corridor, California. Proceedings of the 89th meeting of the Transportation Research Board, Washington D.C.
- **RCP9** You S., Lee G., Ritchie S., Saphores J.-D., Sangkapichai M., Ayala R. (2010). Air Pollution Impacts of Shifting San Pedro Bay Port's Freight from Truck to Rail in Southern California. Proceedings of the 89th meeting of the Transportation Research Board, Washington D.C.
- **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. Samuelsen (2009). User Characteristics and Responses to a Shared-Use Station Car Program: An Analysis of ZEVNET 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.
- **RCPI** 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.

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.

CONFERENCE PROCEEDINGS

- **CPI** 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

- **R4** Saphores, J.-D. 2012. "Sustainability Indicators for Los Angeles," *Report to EPA and the City of Los Angeles*. University of California, Irvine.
- **R3** Hixon, H., J.-D. Saphores, 2011. "Understanding Household Preferences For Alternative-Fuel Vehicle Technologies," *Mineta Transportation Institute*. Available at: <http://transweb.sjsu.edu/PDFs/research/2809-Alternative-Fuel-Vehicle-Technologies.pdf>.
- **R2** Aguilar, I., J.-D. Saphores, 2009. Enforcement and non-payment of water services - An analysis of utilities at the US-Mexico border, *UC MEXUS*, October.
- **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.

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*.

INVITED PRESENTATIONS

- **IP14**. "A Spatial Hedonic Analysis of the Value of Urban Land Cover in the Multifamily Housing Market in Los Angeles, CA," *Economics Department, Cal State Long Beach, March 18, 2011*.
- **IP13**. "Alternative fuel vehicles: promises and barriers," presented at the *ASEI 2010 conference in Anaheim, CA, September 18, 2010*.
- **IP12**. "US Household Preferences for Alternative Fuel Vehicles - Results from a National Survey," *TRB summer conference in Raleigh, NC, June 9, 2010*.
- **IP11**. "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, February 26, 2009*.
- **IP10**. "Fostering sustainability in the transportation sector," *North American Network on Regional Climate Change Governance Workshop, Mexico City, January 20, 2009*.
- **IP9**. "Emissions Possible - Solutions for Sustainable Transportation," *National Alternative Fuel and Vehicle Conference, Anaheim, CA, April 2, 2007*.
- **IP8**. "An Analysis of Non-payment of Water Services in Nuevo Laredo," *Environmental seminar, University of California San Diego, February 26, 2007*.

- **IP7.** "Understanding Californians' Interest For Hybrid Cars," with M. Sangkapichai, *Institute of Transportation Studies at UCI, December 6, 2006.*
- **IP6.** "Understanding Preferences for Recycling Electronic Waste in California: A contingent Ranking Study," with H. Nixon, O.A. Ogunseitan, and A.A. Shapiro, *Department of Environmental Health, Science and Policy seminar at UCI, November 27, 2006.*
- **IP5.** "Understanding Preferences for Recycling Electronic Waste in California: A contingent Ranking Study," with H. Nixon, O.A. Ogunseitan, and A.A. Shapiro, *Economics Department at UCI, November 14, 2006.*
- **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

- **C51.** "Time on Market and the Impact of a Mass Rapid Transit System on Property Values – The Case of Kaohsiung, Taiwan," with C.C. Yeh, *87th annual conference of the WEAI, San Francisco, CA, July 3, 2012.*
- **C50.** "The Effectiveness of State and Local Incentives on Household Ownership of Hybrid Electric Vehicles - Results from the 2009 National Household Travel Survey," with R. Ayala, *TRB workshop titled Using National Household Travel Survey Data for Transportation Decision Making, The Keck Center of the National Academies, Washington DC, June 6, 2011.*
- **C49.** "Willingness to Recycle Electronic Waste: Results from a National Survey of U.S. Households," with O. Ogunseitan and A.A. Shapiro, *2011 TMS Annual Meeting, San Diego, CA, February 28, 2011.*
- **C48.** "US Household Willingness to Recycle Electronic Waste - Results from A National Survey," with O. Ogunseitan and A.A. Shapiro, *10th International Electronics Recycling Congress IERC 2011 in Salzburg, Austria, January 19-21, 2011,*
- **C47.** "Understanding household preferences for alternative fuel vehicles - Results from a national survey," with H. Nixon, *ACSP 51st Annual Conference in Minneapolis, Minnesota, October 7, 2010.*
- **C46.** "Estimating the Benefits of Urban Forests in Los Angeles – A Spatial Hedonic Analysis of the Multifamily Housing Market," with W. Li, *85th annual conference of the WEAI, Portland, OR, July 2, 2010.*
- **C45.** "Estimating the Benefits of Urban Forests - An Application to the Los Angeles (CA) Single Family Housing Market," with W. Li, *56th North American Meetings of the RSAI in San Francisco, November 18-21, 2009.*
- **C44.** "An Analysis of Train Emissions and their Health Impacts in California's Alameda Corridor," with M. Sangkapichai, S. Ritchie, G. Lee. I. You, and R. Ayala, *INFORMS in San Diego, CA, October 13, 2009.*
- **C43.** "Estimating the Benefits of Urban Forests - An Application to the Los Angeles (CA) Single Family Housing Market," with W. Li, *50th Anniversary ACSP Conference, in Crystal City, Virginia, October 1-4, 2009.*
- **C42.** "Building Sustainability Indicators for Los Angeles," *CIC's 7th Annual Conference, Bellevue, Washington, Oct 1-2, 2009.*

- **C41.** ðEstimating the air quality impacts of a major freight corridor - A Study of the Alameda Corridor in Southern California,ö Data and Tools for Understanding the Goods Movement ó Air Quality Connection TRB Workshop, *The National Academies Beckman Center, Irvine, CA, June 2-3.*
- **C40.** ðAn analysis of nonpayment of water services in Nuevo Laredo, Mexico,ö with I. Aguilar, *International Conference on Water Scarcity, Global Changes and Groundwater Management Responses, Irvine, CA, December 1-5, 2008.*
- **C39.** ðMaterials Science and Policy for Environmentally Benign Electronics: *TMS webinar*ö with J.D. Lincoln, O.A. Ogunseitan, J. Schoenung, and A.A. Shapiro, *September 27, 2007.* Available from: <http://www.tms.org/meetings/webcast/msp07/home.html>
- **C38.** ðPopulation Uncertainty and the Timing of an Urban Transportation Infrastructure Investment,ö *11th World Conference on Transport Research, Berkeley, CA, June, 2007.*
- **C37.** "Population Uncertainty and the Timing of an Urban Transportation Infrastructure Investment," *13th Annual University of California Transportation Research Conference at UCLA, February 15-17, 2007.*
- **C36.** ðResidential Water demand and planning in Nuevo Laredo,ö with I. Aguilar, *2nd World Planning School Congress. Mexico City, July 11-16, 2006.*
- **C35.** ðGrandma or the Wolf? A real options framework for managing human-wildlife conflicts,ö with B. Bakshi, *Third World Congress of Environmental and Resource Economists, Kyoto, Japan, July 3-7, 2006.*
- **C34.** ðPopulation Uncertainty and the Timing of an Urban Transportation Infrastructure Investment,ö *Canadian Economic Association 40th Annual Meetings, Montréal (Québec), May 26 - 28, 2006.*
- **C33.** ðConsumer Willingness to Recycle Electronic Waste in California,ö 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.** ðGrandma or the Wolf?: Managing Human-Wildlife Conflict,ö with B. Bakshi, *Annual Joint Conference of the Econometric Society and the European Economic Association, Universidad Carlos III de Madrid, August 20th-24th, 2004.*
- **C31.** ðGrandma or the Wolf?: Managing Human-Wildlife Conflict,ö with B. Bakshi, *8th Annual International Conference on Real Options, Montréal Canada, June 17-19, 2004.*
- **C30.** ðInvesting in Transportation Infrastructure under Uncertainty,ö with Marlon Boarnet, *8th Annual International Conference on Real Options, Montréal Canada, June 17-19, 2004.*
- **C29.** ðRegulation and Investment under Uncertainty- An Application to Power Grid Interconnection,ö with Eric Gravel and Jean-Thomas Bernard, *Greening XIII, University of Southern California, Los Angeles, January 24, 2004.*
- **C28.** ðBarriers and Optimal Investment Rules,ö *Joint Meeting of the European Economic Association and Econometric Society European Meeting, Stockholm, Sweden, August 20-24, 2003.*
- **C27.** ðIndustrial Odors and Residential Property Values - A Hedonic Analysis of four Orange County (CA) Citiesö, with Ismael Aguilar, *78th Annual Conference of the Western Economic Association International, Denver, Colorado, July 10 – 15, 2003.*
- **C26.** ðBarriers and Optimal Investment Rules,ö *7th Annual International Conference on Real Options, Washington, D.C., July 10-12 2003.*
- **C25.** ðBarriers and Optimal Investment Rules,ö *2003 Econometric Society North American Summer Meeting, June 26-29, 2003.*
- **C24.** ðInvesting in Transportation Infrastructure Under Uncertainty,ö 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 Canadian Economic Association*, 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/SEMINARS BY CO-AUTHORS

- **CO53.** "From a Technical Marvel to a Hazardous Box: An Estimate of the Volumes of Potentially Toxic Materials in Obsolete TVs Stored by U.S. Households based on National Survey," with N. Milovantseva, *2011 TMS Annual Meeting, San Diego, CA, February 28, 2011.*
- **CO52.** "Microscopic Modeling of Air Quality Impacts of Drayage Truck Operations in the Alameda Corridor," S. Ritchie, J.-D. Saphores, G. Lee, I. You, R. Ayala, and M. Sangkapichai, *INFORMS, San Diego, CA, October 13, 2009.*
- **CO51.** W. Li, and J.-D., Saphores (2009). "Estimating the Benefits of Urban Forests in the Los Angeles (CA) Multi-Family Housing Market – A Spatial Hedonic Approach," *50th Anniversary ACSP Conference in Crystal City, Virginia, October 1-4, 2009.*
- **CO50.** W. Li, and J.-D., Saphores (2009). "Estimating the Benefits of Urban Forests in the Los Angeles (CA) Multi-Family Housing Market – A Spatial Hedonic Approach," *56th North American Meetings of the RSAI in San Francisco, November 18-21, 2009.*
- **CO49.** "Better Recycling of "Conventional" Cell Phones versus More Expensive but "Green" Cell Phones: An Assessment of Consumer Preferences," with N. Milovantseva, O.A. Ogunseitan, and A.A. Shapiro. *2009 University of California Toxic Substances Research & Teaching Program, Berkeley, California, May 2, 2009.*
- **CO48.** "Moisture Absorption Phenomena in Green Composite Printed Circuit Board Prototypes." Workshop at TMS 2009: "Green Materials and Processes for Managing Electronic Waste," with J.D. Lincoln, J.C. Earthman, O.A. Ogunseitan, J.M. Schoenung, and A.A. Shapiro. *TMS Annual Meeting, San Francisco, California, February 18, 2009.*
- **CO47.** "Engineering Environmentally-Benign Electronics: Convergent Optimization of Materials Use, Consumer Participation, and Government Regulation," with O.A. Ogunseitan, J.M. Schoenung, and A.A. Shapiro. *TMS Annual Meeting, San Francisco, California, February 18, 2009.*
- **CO46.** "Revisiting the Performance of Employee Trip Reduction Programs in Southern California," with M. Sangkapichai. *PATH Conference, Los Angeles, CA, November 7, 2008.*
- **CO45.** "Why are Californians Interested in Hybrid Cars?," with M. Sangkapichai. *PATH Conference, Los Angeles, CA, November 7, 2008.*
- **CO44.** "How much e-waste in US basements and attics? Results from a National Survey," with H. Nixon, O. Ogunseitan, and A.A. Shapiro. *Electronics Goes Green, Berlin, Germany, September 2008.*
- **CO43.** "Bioepoxy-Flax Composites for Printed Circuit Boards," with A. A. Shapiro, J. D. Lincoln, J.C. Earthman, O.A. Ogunseitan, and J. M. Schoenung. *Electronics Goes Green, Berlin, Germany, September 2008.*
- **CO42.** "Sustainable Neighborhood Development: Insights from Southern California," with A. Garde, R. Matthew, and K. Day. *5th International Engineering Construction Conference. Irvine, CA, August 29, 2008.*
- **CO41.** "How much e-waste in your basement and attic? Results from a National Survey," with H. Nixon, O.A. Ogunseitan, and A.A. Shapiro. *ACSP-AESOP 4th Joint Congress, Chicago, Illinois, July 6-11, 2008.*
- **CO40.** "Grandma or the Wolf? A real options framework for managing human-wildlife conflicts," with B. Bakshi. *BioEcon IX at Kings College Cambridge, 19-21 September, 2007.*
- **CO39.** "Impacts of motor vehicle operation on water quality: Clean-up costs and policies," with H. Nixon. *11th World Conference on Transport Research, Berkeley, CA, June 2007.*
- **CO38.** "Accountability and performance of water utilities at the U.S.-Mexico Border," with I. Aguilar. *Seminar on Border Health and Border Resources. UC Mexus, Riverside CA May, 2007.*

- **CO37.** "Electronic Waste Recycling Preferences in California: The Role of Environmental Attitudes and Behaviors," with H. Nixon, O.A. Ogunseitan, and A.A. Shapiro. *Annual IEEE International Symposium on Electronics & the Environment, Orlando, FL, May 7-10, 2007.*
- **CO36.** "Renewable-resource Printed Wiring Board Design using Natural Fibers and a Bio-based Thermosetting Matrix," with J.D. Lincoln, J.C. Earthman, O.A. Ogunseitan, and A.A. Shapiro. *International Symposium on Electronics and the Environment. Orlando, FL., May 7-10, 2007.* Best Paper Award.
- **CO35.** "Financing electronic waste recycling: Californian households' willingness to pay an advanced recycling fee," with H. Nixon. *Annual meeting of the American Collegiate Schools of Planning, Fort Worth, TX, November, 2006.*
- **CO34.** "Local Accountability and Performance of water utilities," with I. Aguilar. *2nd World Planning School Congress. Mexico City, July 11-16, 2006.*
- **CO33.** "California households' willingness to pay for 'green' PCs," with H. Nixon, O.A. Ogunseitan, J.-D. Lincoln, and A.A. Shapiro. *Annual IEEE International Symposium on Electronics & the Environment, San Francisco, CA, May 8-11, 2006.*
- **CO32.** "El No pago de los servicios del agua potable y alcantarillado y algunos de sus impactos," with I. Aguilar. *IV World Water Forum, Mexico City, March 16-22, 2006.*
- **CO31.** "Understanding Californians' Interest for Hybrid Cars," with 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," with H. Nixon, A.A. Shapiro, J.D. Lincoln, and O.A. Ogunseitan, *Greening XV, USC – Los Angeles, January 28, 2006.*
- **CO29.** "E-waste management in California: Consumer willingness to recycle," with H. Nixon, O.A. Ogunseitan, and A.A. Shapiro. *6th biennial CANSEE conference (Canadian Society for Ecological Economics), York University, Toronto, Canada, October 27-29, 2005.*
- **CO28.** "A Study of Benign Manufacturing of Electronics, Recycling and Disposal Trades," with O.A. Ogunseitan, A.A. Shapiro, J. Schoenung, H. Nixon, and J.D. Lincoln. *International Society of Industrial Ecology Annual Conference, Stockholm, June 12-15, 2005.*
- **CO27.** "Consumer Willingness to Recycle Electronic Waste in California," with Hilary Nixon, O.A. Ogunseitan, J. Schoenung, A.A. Shapiro, and J.D. 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," with J.D. Lincoln, O.A. Ogunseitan, J. Schoenung, H. Nixon, and A.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," with O. Ogunseitan, J. Schoenung and A.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," with H. Nixon, O.A. Ogunseitan, J. Schoenung & A.A. Shapiro. *Greening XIV, UC Irvine, January 22, 2005.*
- **CO23.** "Green Electronics: A U.S. Perspective on Policy, Risk, and Product Design," with Julie Schoenung, O.A. Ogunseitan, and A.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," with 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," with 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," with A. Bhuie, O.A. Ogunseitan, J. Schoenung, and A.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," with H. 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," with A.A. Shapiro, J. Bonner, O.A. 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," with Baishali Bakshi. *Allied Social Sciences Meeting, San Diego, CA, January 5-6 2004.*
- **CO16.** "Can Grandma and the Wolf Live in Harmony?," with 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," with O.A. Ogunseitan, J. Schoenung, A.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," with Hilary Nixon. *California APA State Conference, Santa Barbara, CA, Sept. 28-Oct. 1, 2003.*
- **CO13.** "Lead In Electronics: An Industrial Ecology Case Study," with Andrew Shapiro, J. Schoenung, and O.A. Ogunseitan. *International Symposium on Industrial Ecology, Ann Arbor, Michigan, June 2003.*
- **CO12.** "Lead-Free Solders: Issues on Toxicity, Availability, and Impacts of Extraction," with Julie Schoenung, A. Ku, O.A. Ogunseitan, and A.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," with A. Bhuie, O.A. Ogunseitan, A.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," with O.A. Ogunseitan, J. Schoenung, A.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," with H. Nixon. *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," with H. Nixon. *APPAM Fall Research Conference, Dallas, TX, November 7-9, 2002.*
- **CO7.** "Used Oil Policies to Protect the Environment: An Overview of Canadian Experiences," with H. Nixon. *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," with H. Nixon. *Annual UCTC conference, Berkeley, California, February 2, 2002.*
- **CO5.** "The Environmental Impacts of Motor Vehicle Operation on Water Quality: A Preliminary Assessment," with H. Nixon. *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," with Rams Kanouni. *Annual Conference of the Canadian Economic Association, Montreal, Canada, May 31- June 3, 2001.*
- **CO3.** "Simulation Based Exact Tests for Jump Diffusions with Unidentified Nuisance Parameters: An Application to Commodity Spot Prices," with L. Khalaf and J.-F. Bilodeau. *Society for Computational Economics, Barcelona, Spain, July 6-8, 2000.*
- **CO2.** "CO₂, Land Use, and Forestry," with C. Gauthier. *Conference of the Canadian Research Group in Environmental and Resource Economics, Edmonton, October 2-3, 1999.*
- **CO1.** "CO₂, Land Use, and Forestry," with Caroline Gauthier. *Annual Conference of the Canadian Economic Association, Toronto, Canada, May 28-30, 1999.*

MENTORING

PRIMARY ADVISOR OF CURRENT PH.D. STUDENTS:

Chung Chen Yeh	Civil and Environmental Engineering, UCI	Fall 2006-present
Ankooor Bhagat	Civil and Environmental Engineering, UCI	Fall 2009-present
Michelle Miro	Civil and Environmental Engineering, UCI	Fall 2012-present
Recipient of a 3-year NSF Graduate Research Fellowship Award		
Todd Matsubara	Transportation Science, UCI	Fall 2011-present

Sungsu (Stephen) Yoon	Transportation Science, UCI	Fall 2011-present
Kevin Wang	Transportation Science, UCI	Fall 2010-present
Natalia Milovantseva	School of Social Ecology, UCI	Summer 2008-present
<i>Recipient of a Fulbright Award</i>		
Harya Dillon,	Planning, Policy and Design, UCI	Fall 2011-present
Hsing-Ping Hsu	Planning, Policy and Design, UCI	Fall 2011-present

PRIMARY ADVISOR OF PH.D. STUDENTS WHO GRADUATED

Wei Li (Planning, Policy, and Design, UCI, Fall 2006-Summer 2011)

Dissertation: *Assessing Intangible Benefits and Costs of Environmental Attributes in a Hedonic Pricing Framework - Case Studies in Southern California*

Martha Newkirk Excellence in Research Award, UCI, 2010; UCTC Doctoral Dissertation Fellowship, 2010; Dean's Doctoral Dissertation Fellowship, UCI 2009

Current Position: **Assistant Professor of Urban and Regional Planning, Texas A&M University.**

Lima Kopitch (Transportation Science, UCI, Summer 2008-Fall 2011)

Dissertation: *An Analysis of the Impact of an Incident Management System on Secondary Incidents on Freeways - An Application to the I-5 in California*

UCTC Dissertation Fellowship Award, 2010

Current Position: TMC Operations Engineer, Traffic Operations, Caltrans District 11 (San Diego)

Roberto Ayala (Transportation Science, UCI, Summer 2008-present)

Dissertation: *Of Planes, Trains and Automobiles: Market Structure and Incentives for a more Efficient, Cleaner and Fairer Transportation System*

Current Position: Lecturer, Cal State Los Angeles

Mana Sangkapichai (Transportation Science, UCI, Winter 2005-2009)

Dissertation: *Transportation and the Environment: Essays on Technology, Infrastructure, and Policy*

UCTC Dissertation Fellowship Award, 2008; co-recipient of TRB's Pike Johnson award

Current Position: Transportation Modeler, Southern California Association of Governments (SCAG)

Mei-Ting Tsai (Civil and Environmental Engineering [co-advised], UCI, 2006-2008)

Dissertation: *Real Option-based Procurement for Transportation Services*

Current Position: **Assistant Professor, Department of Business Administration, National Chung Hsing University, Taiwan**

Dhawal Nagpal (Economics, UCI, 2004-2008)

Dissertation: *Essays in Environmental Economics and Policy: Climate Change and Fuel Economy Policy*

Current Position: Analyst at Knightsbridge Asset Management LLC

Ismael Aguilar (Ph.D., Planning, Policy, & Design, UCI, 2001-2006)

Dissertation: *Institutional and Economic Aspects of Water Services Management at the U.S.-Mexico Border: Accountability, Non-Payment and Water Demand in Laredo, Texas and Nuevo Laredo, Tamaulipas*

Newkirk Center Fellowship 2004, Don Owen Water Science and Policy Fellowship, 2003-2004

Current Position: **Associate Professor, Colegio de la Frontera Norte, Mexico**

Rams Kanouni (Ph.D., Economics, Université Laval, 1999-2006)

Dissertation (in French): *Impact de l'incertitude sur la gestion de l'environnement et des ressources naturelles : Une analyse en temps continu par la programmation dynamique et les options réelles*

Current Position: Head of Infrastructure Strategy, Abu Dhabi Investment Authority

Hilary Nixon (Ph.D., Planning, Policy, & Design, UCI, 2001-2006)

Dissertation: *Electronic Waste Management in California: Consumer Attitudes Toward Recycling, Advanced Recycling Fees, "Green" Electronics, and Willingness to Pay for E-waste Recycling*

Martha Newkirk Award for Excellence in Research, 2003-2004; Summer Research Fellowship, School of Social Ecology, 2004; Data Collection Fellowship, School of Social Ecology, 2003

Current Position: **Associate Professor, Urban and Regional Planning, San Jose State University**

Baishali Bakshi (Ph.D., Economics [co-advised], UCI, 2000-2004)

Dissertation: *International trade, corruption, and environmental management*

Current Position: Lecturer, University of Minnesota

DISSERTATION COMMITTEE MEMBER OF CURRENT PHD STUDENTS:

Jinsuhk Suh (Planning, Policy and Design, UCI, Spring 2011-present)

DISSERTATION COMMITTEE MEMBER OF PHD STUDENTS WHO GRADUATED:

Daniel Kang (Environmental Health Science and Policy, UCI, Spring 2010-Spring 2012)

Gunwoo Lee (Civil and Environmental Engineering, UCI, Summer 2007-Fall 2011)

Joe Chow (Civil and Environmental Engineering, UCI, Spring 2008-Winter 2010)

Haomin Xu (Environmental Engineering, UCI, 2010)

Ken Joh (Planning, Policy and Design, UCI, Fall 2007-Spring 2009)

Michael Johnson (Environmental Health, Science and Policy, UCI, 2007-2009)

Nesamani Kalandiyur (Transportation Science, UCI, 2002-2007)

David Turbow (Environmental Health, Science, and Policy, UCI, 2001- 2003)

Tim Smith (Environmental Health, Science, and Policy, UCI, 2002-2003)

EXTERNAL OR ADVANCEMENT COMMITTEE MEMBER OF PH.D. STUDENTS:

Qijian Gan (Civil & Environmental Engineering, UCI, 2011), **Keqin Gong** (Mathematics, UCI, 2010), **Sui Huang** (Electrical Engineering and Computer Science, 2010), **John Duseles** (Computer Science, UCI, 2008), **Neeta Bijoor** (Earth System Science, UCI, 2008), **Angila Romious** (Social Ecology, UCI, 2007), **Toby Warden** (Planning, Policy and Design, UCI, 2006), **Heather Goldsworthy** (Planning, Policy and Design, UCI, 2006), **Tristan Igualada** (Mathematics, UCI, 2005), **Hun-Kyun Bae** (Civil & Environmental Engineering, UCI, 2005), **David Wangerin** (ICS, UCI, 2005), **John M. Thomas** (Civil & Environmental Engineering, UCI, 2004), **Eric Runnerstrom** (Environmental Health, Science, and Policy, UCI, 2004), **Lisa Sander** (Environmental Health, Science, and Policy, UCI, 2003).

ADVISOR FOR MS STUDENTS:

Eunice Yuan (Planning, Policy, & Design MURP then CEE MSCE, 2010-2012)

Matsubara, Todd (Transportation Science, UCI, 2011-2012)

Xiaoling Lin (Transportation Science, UCI, 2009-2011)

Kevin Wang (Transportation Science, UCI, 2009-2010)

Jielin Sun (Civil and Environmental Engineering, UCI, 2009-2011)

Éric Gravel (Co-advisor, Economics, Université Laval, 1999-2002)

John-Gabriel Power (Co-advisor, Economics, Université Laval, 1999-2001)

Jean-François Bilodeau (Co-advisor, Economics, Université Laval, 1998-2000)

COMMITTEE MEMBER FOR MS THESES:

Courtney Endo (Civil and Environmental Engineering, UCI, 2008-2009)

David Barral (Civil and Environmental Engineering, UCI, 2009)
Anna Ku (Civil and Environmental Engineering, UCI, 2002)
Elaine Luckey (Environmental Health, Science, and Policy, UCI, 2001)

PROFESSIONAL REPORT ADVISOR FOR MS STUDENTS IN PLANNING, POLICY, & DESIGN (UCI):

Shan Li (2011-2012), **Jessica Debats** (2010-2011), **Annette Tam** (2008-2009), **Sayaka Sugahara** (2007-2008), **Travis Seaward** (2005-2006), **Natalia Kumar** (2005-2006), **Alexa Wiedel** (2004-2005), **Kelly Koldus** (2003-2004), **Tony Raeker** (2002-2003)

RESEARCH WITH UNDERGRADUATE STUDENTS (: HONORS; #: MDP PROJECT)*

Elliot Huang (2012), **Oh Tae Jung** (2011-2012), **Mindy Buy#** (2011-2012), **Huy Nghiem#** (2011-2012), **Michael Mori#** (2011-2012), **Robert Wu#** (2011-2012), **Judy Pham#** (2011), **Justin Mathews** (2010-2011), **Benjamin Fuller** (2010-2011), **Rose Raymond** (2009), **Stephanie Ho** (2008), **Pui Yu Ling** (2008), **Rupert Inman** (2007), **Allan Taing*** (2005-2006), **Hallie Rulnick*** (2005-2006), **Amy Watson*** (2003-2004), **Debbie Karimoto*** (2003-2004), **Linda Isakson*** (2002-2003)

TEACHING

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

TEACHING EXPERIENCE AT UCI

- Transportation Data Analysis (CEE 224A), graduate course, winter 2012.
- Transportation Demand Analysis (CEE220A), graduate course, winter 2008, fall 2008 and 2009.
- Environmental Studies III (US13C), undergraduate course, spring 2008, 2009, 2010, 2011, and 2012.
- Methods III: Modeling, economics, and management (CEE110), undergraduate course, spring 2007, 2008, 2009, 2010, and 2012.
- Transportation and the Environment (CEE125), undergraduate course, winter 2007, fall 2008, 2009, and winter 2012.
- Data Analysis II (SOCECOL 264B), PhD course, spring 2007 & spring 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, and 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), co-taught at UCI with A. Shapiro, O. Ogunseitan, and J. Schoenung, Spring 2003. 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.

TEACHING EXPERIENCE AT 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.

SERVICE

SERVICE TO NATIONAL ORGANIZATIONS

- Member, TRB committee on Ports and Channels (AW010), 2010-present
- Member, TRB committee on Transportation and Energy (ADC70), 2011-present
- Member, TRB task force on the NHTS (ABJ45T), 2011-present
- Member, ASCE Sustainability Committee (Los Angeles Section), Spring 2011-present
- Member, AAEA Professional Activities Committee, Summer 2004 - Spring 2007

Note: The Transportation Research Board (TRB) is a division of the National Research Council (NRC), which serves as an independent adviser to the President, Congress and federal agencies. The NRC is jointly administered by the National Academy of Sciences, the National Academy of Engineering, and the Institute of Medicine.

REVIEWER OF GRANT PROPOSALS

NSF, 2004

Illinois Sea Grant

Center for Multimodal Solutions for Congestion Mitigation, University of Florida, 2010

Israel Science Foundation, 2012

REFEREE FOR

AERE summer conferences (1st and 2nd), African Journal of Environmental Science and Technology, American Journal of Agricultural Economics, Annales d'Economie et de Statistiques, Atmospheric Environment, Canadian Journal of Agricultural Economics, Canadian Journal of Economics, Canadian Public Policy, Ecological Economics, Economics of Governance, Energy Economics, Energy Studies Review, Environment and Development Economics, Environmental and Resource Economics, Environmental Engineering and Management Journal, Environmental Modeling and Assessment, Environmental Science and Policy, Environmental Science and Technology, International Journal of Sustainable Transportation, Japan Society of Material Cycles and Waste Management, Journal of Agricultural and Applied Economics, Journal of Agricultural and Resource Economics, Journal of Economic Dynamics and Control, Journal of Agricultural and Resource Economics, Journal of Applied Econometrics, Journal of Environmental Economics & Management, Journal of Environmental Management, Journal of Environmental Planning, and Management, Journal of Industrial Ecology, Journal of Institutional and Theoretical Economics, Journal of Regional Science, Journal of Risk Research, Journal of Transport Economics and Policy, Journal of Water Resources Planning and Management, Natural Resources Modeling, Review of Economic Studies, Sustainability, The Engineering Economist, Transportation Research Part A, Transportation Research Record, Transportmetrika, Urban Studies, Waste Management, Water International

SERVICE TO OTHER UNIVERSITIES

- External reviewer, PhD dissertation on e-waste at the University of Madras, India, 2012
- Tenure case review for an Assistant Professor in Economics at Soka University, Winter 2012
- External reviewer and Examination Committee Chair for the thesis of Jenny Izbeth Flores Ortega at El Colegio de la Frontera Norte in Tijuana.
- Tenure case review for an Assistant Professor in Economics at the University of Waterloo, Fall 2007

SERVICE TO AGENCIES

- Member, South Coast Air Quality Management District (SCAQMD) High Cube Warehouse Truck Trip Rate Study Working Group, 03/12-present
- Report Reviewer for the Mineta Transportation Institute, 2010-present

CAMPUSWIDE SERVICE

- Member, Sustainability Education Task Force, Summer 2012-present
- Member, UCI Senate Council on Faculty Welfare, 04/12-present
- Member, UCI Senate Board on Undergraduate Scholarships, Honors & Financial Aids, 09/07-08/10
- Organizer of Dean von Weizsacker as a Chancellor's Distinguished Fellow
- Member, UCI Senate Sub-Committee on International Education, 09/04-08/05.
- Member, UCI Senate Committee on Teaching, Fall 2002-Spring 2003.

HENRI SAMUELI SCHOOL OF ENGINEERING

- Member, MS in Environmental Management Committee, Winter 2012-present
- Member, HSSoE Undergraduate Studies Committee, Fall 2009-Spring 2010

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, Transportation Science Program, Fall 2008-present.
- Organizer of the ITS seminar series, 2009-2010
- Member, CUSA Faculty Science Committee, Fall 2009-present
- 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 (2006-present)

- Chair, Undergraduate Affairs Committee, and ABET Lead, 2011-2012
- Member, Drafting Committee for Merit Case, 2011-2012
- Member, CEE Affiliates Committee, 2009-2010

- Chair, Undergraduate Affairs Committee, 2009-2010
- Member, Admissions committee for graduate applicants in Transportation Systems, Winter 2010
- Member, Drafting Committee for Merit Case, 2009-2010 (3 cases)
- Member, Undergraduate Affairs Committee, 2008-2009
- Member, Admissions committee for graduate applicants in Transportation Systems, Winter 2009
- Student Affairs Lead, 2007-2008
- Member, Drafting Committee for Merit Case, 2007-2008 (2 cases)
- Member, Drafting Committee for Merit Case, 2006-2007

PPD DEPARTMENT (2000-2006)

- Co-Organizer of the Departmental Seminar Series, 2005-2006.
- Member, Ad Hoc Committee on Promotion and Tenure, 2005.
- Member, Ad Hoc Committee on Promotion and Tenure, 2003.
- Member, Ad Hoc Committee on Promotion and Tenure, 2002.
- Member, Ad Hoc Committee on Student Admissions, Winter 2002.

MEMBERSHIP IN PROFESSIONAL SOCIETIES

- American Society of Civil Engineers
- Western Economic Association
- Association of Collegiate Schools of Planning

SELECTED MEDIA APPEARANCES OR INTERVIEWS

- Interviews on Radio Canada on e-waste: March 2008, April 2010, and December 2010 (9 stations)
- Scientific American interview on e-waste management: October 2009
- USA Today interview on e-waste management: October 2009

LANGUAGES:

- English and French (bilingual)
- Spanish (fluent)

