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## **EDUCATION**

University of California, Berkeley, 1982-1985.

Ph.D., Department of Agricultural and Resource Economics, December 1985. National Wildlife Federation Fellowship. Teaching Associate.

M.A., Department of Statistics, 1985.

George Washington University, 1977-1982.

M.A., School of Public and International Affairs, 1979. Scottish Rite Fellowship. Supplemental courses in econometrics and survey techniques, 1980-1982.

Mississippi State University, 1973-1977.

B.A. French/Political Science, 1977. Academic Scholarship.

## **PROFESSIONAL EXPERIENCE**

University of California, San Diego, 1985-present

Department of Economics. Chair 2002-2006; Professor, 1996-present; Associate Professor, 1990-1996; Assistant Professor 1985-1990. Responsible for teaching graduate courses in natural resource economics and econometrics, and undergraduate courses in environmental economics, energy economics, public policy, and marketing. Chair, Chancellor's Advisory Committee on Sustainability; Co-Chair, Academic Senate Sustainability 2.0 Task Force, Chair; Social Science Computing; Vice Chair, Academic Senate Committee on Computing; Member, Academic Senate Committees on Educational Policy and Undergraduate Statistics; Member, Environmental Studies & Environmental Sciences Program Steering Committees; service on departmental graduate and recruiting committees. Senior Fellow, San Diego Super Computer Center. Research Director for International Environmental Policy, UC Institute for Global Conflict & Cooperation. Affiliated Faculty Member Graduate School of International Relations and Pacific Studies.

University of Technology Sydney (UTS), 2008-present

Centre for the Study of Choice, Distinguished Research Professor.

Visiting Professor.

University of Sydney 1995, 1997; University of Oslo 1996; UNSW 2005; UTS 2007.

Association of Environmental and Resource Economists

President, 2004-2007; Program Chair World Congress, 2002. Elected Fellow 2010.

Natural Resource Damage Assessment, Inc., 1990-2001

Principal. Assessed the economic damages associated with several major environmental incidents, including the Exxon Valdez oil spill for the State of Alaska.

Resources for the Future, October 1979-1990

1982-1990, Consultant/Associate Research Program. Staff Member. 1979-1982.

Southern Research Associates, 1977-1979.

Political and Marketing Analyst.

## PUBLICATIONS

- (and Samuel R. Dastrup), "After the Fall An Ex Post Characterization of Housing Price Declines Across Metropolitan Areas," *Contemporary Economic Policy*, forthcoming.
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- (and Peter Navarro), "Growth Controls: Policy Analysis for the Second Generation," *Policy Sciences*, vol. 24, 1991.
- (and Kerry M. Martin), "Measuring the Benefits of Fresh Water Quality Changes: Techniques and Empirical Findings," in Ariel Dinar and David Zilberman, *The Economics and Management of Water and Drainage in Agriculture* (Boston: Kluwer, 1991).
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- (and John Horowitz) "Discounting Statistical Lives," *Journal of Risk and Uncertainty*, vol. 3, 1990. Reprinted in W. Kip Viscusi, John F. Cogan, and Ted Gayer, eds., *Classics in Risk Management* (Northampton, MA: Edward Elgar, 2004).
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## **CONTRIBUTOR CREDITS**

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- "A Model of U.S. Wheat Production Using Microdata and Flexible Functional Forms," draft manuscript, University of California, Berkeley, December 1983.
- "Constructing Voting Indices from Factor Scores," draft manuscript, Resources for the Future, August 1983.
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- (and Robert Cameron Mitchell), "An Experiment in Determining Willingness to Pay for National Water Quality Improvements," A report to U.S. Environmental Protection Agency, June 1981.
- (and William J. Vaughan and Clifford S. Russell), *National Directory of Recreational Fee Fisheries* (Washington, D.C.: Resource for the Future, 1980).
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## **PRESENTATIONS AT PROFESSIONAL MEETINGS**

- "New Approaches to Pollution Control," keynote address at the 13<sup>th</sup> Annual Colorado University Environmental and Resource Economics Workshop, October 2011.
- (and Kevin Novan), "Economics of Bulk Electricity Storage with Intermittent Renewables," paper presented at the 2<sup>nd</sup> all-UC Conference on Energy and Environmental Economics," Berkeley, June 2011.
- (and Nada Wasi) "The Influence of Rebate Programs on the Demand for Water Heaters: The Case of New South Wales," paper presented at the Association of Environmental and Resource Economists Summer Conference, Seattle, June 2011.
- (and J.R. DeShazo, Kurt Schwabe and Jeffery Vincent), "Valuing Poaching and Logging Protection Policies for Tropical Forest Ecosystems," paper presented at the Association of Environmental and Resource Economists Summer Conference, Seattle, June 2011.
- (and Maria Damon and Joel Watson), "A New (Economic) Approach to Environmental Technology Standards," paper presented at the Association of Environmental and Resource Economists Summer Conference, Seattle, June 2011.
- (and Jorge Arana, Towhidul Islam, Jordan Louviere, and Riccardo Scarpa, "Temporal Reliability of Discrete Choice Experiments," presentation at the Association of Environmental and Resource Economists Summer Conference, Seattle, June 2011.
- (and Bart Frishknecht, Christine Ebling, Jordan Louviere, and John Rose), "Designing DCES to Estimate Choice Modes (Or Equivalent) for Each person in a Sample," presentation at the Association of Environmental and Resource Economists Summer Conference, Seattle, June 2011.
- (and Jordan Louviere, Jorge Arana, Sandra Burke, Bart Frishknecht, John Rose, Ricardo Scarpa, and Paul Wang), "Differences in Empirical Outcomes Associated with Different Design Approaches: 64 DCEs for Carbon Trading Schemes and Solar Panels," presentation at the Association of Environmental and Resource Economists Summer Conference, Seattle, June 2011

- “The Process of Allocating Fish and Water: Soul Mates Separated at Birth,” presentation at the International Seafood Sustainability Allocation Workshop, Yontville, CA, February 2011.
- (and Jacob La Riviere) “Uncertainty in the Relationship Between Emissions and Ambient Pollution Levels and Optimal Pollution Control,” 12<sup>th</sup> Occasional California Workshop on Environmental Economics, Santa Barbara, CA, October 2011.
- (and Jordan J. Louviere and Edward Wei), “A Funny Thing Happened on the Way to the Emission Trading Scheme,” paper presented at the 5<sup>th</sup> Annual Choice Modeling Workshop, Adelaide Australia, July 2010.
- (and Ian Bateman, Brett Day Ian Bateman, Diane Dupont, Jordan J. Louviere, Sanae Morimoto, Riccardo Scarpa and Paul Wang, “Task Independence in Stated Preference Studies: A Test of Order Effect Explanations” paper presented at the 4<sup>th</sup> World Congress of Environmental and Resource Economists, Montreal, July 2010.
- (and Phoebe Koundouri, and Céline Nauges), “Arsenic Mitigation in Bangladesh: A Household Labor Market Approach,” paper presented at the 4<sup>th</sup> World Congress of Environmental and Resource Economists, Montreal, July 2010.
- (and Ian Bateman, Brett Day Ian Bateman, Diane Dupont, Jordan J. Louviere, Sanae Morimoto, Riccardo Scarpa and Paul Wang, “Task Independence in Stated Preference Studies: A Test of Order Effect Explanations” paper presented at the U.S.D.A. W-2133 Meeting, Tucson, AZ.
- (and Phoebe Koundouri, and Céline Nauges), “Arsenic Mitigation in Bangladesh: A Household Labor Market Approach,” paper presented at the American Agricultural Economics Association Meeting, Atlanta, January 2010.
- (and Maria Damon), “A New Approach to Environmental Technology Standards,” paper presented at the European Association of Environmental and Resource Economics, Amsterdam, June 2009.
- (and Paul Metcalfe, Bill Baker, Kevin Andrews, Giles Atkinson, Ian Bateman, Sarah Butler, Richard Carson, Jo East, Yves Gueron, Rob Sheldon and Kenneth Train), “An Assessment of the Non-market Benefits of the Water Framework Directive to Households in England and Wales,” paper presented at the European Association of Environmental Economics and Management, Amsterdam, June 2009.
- (and Maria Damon), “A New Approach to Environmental Technology Standards,” paper presented at the Association for Public Policy Analysis and Management, Los Angeles, November 2008.
- “The Evolution of Economic Policy on Climate Change,” Trevor Swan Lecture, Australian National University, August 2008.
- (and Clive Granger, Jeremy Jackson, and Wolfram Schlenker), “Fisheries Management Under Cyclical Population Dynamics,” paper presented at the American Agricultural Economics Association Meeting, Orlando, FL, July 2008.
- (and Ian J. Bateman, Brett Day, Diane Dupont, Jordan J. Louviere, Sanae Morimoto, Riccardo Scarpa, and Paul Wang), “Choice Set Awareness and Ordering Effects in Discrete Choice Experiments,” paper presented at the European Association of Environmental and Resource Economists, Gothenburg, Sweden, June 2008.
- “China and the Changing Face of World CO<sub>2</sub> Emissions,” presentation at the Future In Review 2008 Conference, Coronado, CA, May 2008.

- “Contingent Valuation: Where From and Where To,” keynote address at Conference on Economic Valuation of the Environment,” Department of the Environment, Food, and Rural Affairs, United Kingdom, London, November 2006.
- “On the Use of Contingent Valuation,” Stockholm Seminar, Royal Swedish Academy of Sciences, September, 2006.
- (and Shelia Walsh), “Preventing Damages from Oil Spills: Lessons from the Exxon Valdez,” paper presented at Workshop on Les Dommages Ecologiques Causés par les Marées Institut Océanographique Noires: Evaluations Economiques et Indemnisations,” Paris, May 2006.
- “Archetypal Analysis”, Keynote presentation at the Salford System Data Mining Conference, San Diego, March 2006.
- (and Jason Murray), “Fisheries Management Implications of Intrinsic Under Identification of Growth Equation Parameters,” paper presented at the American Agricultural Economics Association Meeting, Providence RI, August, 2005.
- (and Tolga Cenesizoglu and Roger Parker), “Aggregation Issues in Forecasting Aggregate Demand: An Application to U.S. Commercial Air Travel,” paper presented at the American Marketing Association’s Advanced Research Techniques Forum, Coeur d’Alene, ID, June 2005.
- (and Clive Granger, Jeremy Jackson, and Wolfram Schlenker), “Are Current Fisheries Management Models Wrong? An Error Correction Approach to Reconciling the Historical Records on Fish Stocks,” Allied Social Sciences Meeting, Philadelphia, PA, January 2005.
- (and Maria Damon), “Pollution Control Policies Aimed at Consumers: Evidence from Recreational Boaters in San Diego Bay,” paper presented at the European Association of Environmental and Resource Economists, Budapest, June 2004.
- (and Theodore Groves, John List and Mark Machina), “Probabilistic Influence and Supplemental Benefits: A Field Test of the Two Key Assumptions Underlying Stated Preferences,” paper presented at the European Association of Environmental and Resource Economists, Budapest, June 2004.
- (and Theodore Groves, John List and Mark Machina), “Probabilistic Influence and Supplemental Benefits: A Field Test of the Two Key Assumptions Underlying Stated Preferences,” paper present at NBER Public Economics Workshop, Palo Alto, March 2004.
- “Air Travel Passenger Demand Forecasting,” presentation at the Predictive Methodology and Application in Economics and Finance Conference in Honor of Clive Granger, La Jolla, CA, January 2004.
- “Contingent Valuation of Tropical Rainforest,” presentation at Workshop on International Financing of Biodiversity Conservation in Developing Countries, La Jolla, December 2003.
- (and Theodore Groves, John List and Mark Machina), “Probabilistic Influence and Supplemental Benefits: A Field Test of the Two Key Assumptions Underlying Stated Preferences,” paper present at the Workshop on Advancing the Methodology of Discrete Choice Experiment in Health Economics, Oxford, September 2003.

- “A Experiencia da Valoración de Danos Nos Recursos Naturais e Ambientais Polo Exxon Valdez,” presentation at Efectos Economicos, Sociais e Ambientais da Marea Negra Do ‘Prestige’, Seminario Cientifico Internacional, Santiago de Compostela, Spain, March 2003.
- (and Moshe Ben-Akiva, Denis Bolduc, David Bunch, Jordan Louviere, Hikaru Phillips and Matthew Symons), “Identifying Optimal Offerings and Campaigns in Interactive Channels Using Real-Time Experiments and Automated Modeling Procedures,” paper present at the American Marketing Association Advanced Research Techniques Forum, Vail Colorado, June 2002.
- (and Theodore Groves, John List and Mark Machina), “Probabilistic Influence and Supplemental Benefits: A Field Test of the Two Key Assumptions Underlying Stated Preferences,” paper present at the Second World Congress of Environmental and Resource Economists, Monterey California, June 2002.
- (and Maria Damon, Leigh Johnson, and Jamie Miller), “Conceptual Issues in Transitioning from Copper Hull Coatings on Recreational Boats to Non-Toxic Alternatives,” paper present at the Second World Congress of Environmental and Resource Economists, Monterey California, June 2002.
- “The Contingent Valuation Debate: Lessons for the Valuation of Cultural Resources,” paper presented at Conference on the Contingent Valuation of Culture, Chicago, February 2002.
- “Contingent Valuation Controversies and Evidence,” Keynote Address, 6<sup>th</sup> Occasional California Workshop on Environmental and Resource Economics, Santa Barbara, October 2001.
- (and Maximillian Auffhammer and Theresa Garin-Munoz), “Exploring Structural Differences in CO2 Emissions of China’s Provinces,” paper presented at the European Association of Environmental and Resource Economists Meeting, Southampton, UK, June 2001.
- (and Anna Alberini), “Yea Sayers, Nay Sayers, or Just Plain Confused: Mixtures of Populations in Contingent Valuation Survey Responses,” paper presented at the European Association of Environmental and Resource Economists Meeting, Southampton, UK, June 2001.
- (and Dan Steinberg, D. Agarwal and J.Y.A. Rupp), Winner KDD Cup 2000 for Web Analytics, at Sixth ACM SIGKDD International Conference on Knowledge Discovery & Data Mining, Boston, August 2000.
- (and Yongil Jeon) “On Overcoming Informational Deficiencies in Estimating Willingness to Pay Distributions,” paper presented at the American Agricultural Economics Association Meeting, Tampa, FL, August 2000.
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- (and Theodore Groves and Mark J. Machina), “Incentive and Informational Properties of Preference Questions,” invited paper, Conference on the Theory and Application of Environmental Valuation Japan Forum of Environmental Valuation Kobe, Japan, January 2000
- (and Theodore Groves and Mark J. Machina), “Incentive and Informational Properties of Preferences Questions,” Plenary Address, European Association of

- Environmental and Resource Economists, Oslo Norway, June 1999.
- (and Robert Cameron Mitchell), "Public Preferences Toward Environmental Policies: The Case of Trihalomethanes," paper presented at the Society for Risk Analysis Meeting, Phoenix, December 1998)
- (and Changhua Rich), "Per Capita Pollution Emissions Across China's Provinces: Explaining the Differences," presentation at the 4<sup>th</sup> Occasional California Workshop on Environmental and Resource Economics, University of California, Santa Barbara, October 1998.
- (and Nicholas E. Flores, and Norman F. Meade), "Contingent Valuation: Controversies and Evidence," paper presented at the World Congress of Environmental Economists, Venice, June, 1998.
- (and Jordan J. Louviere), "Archetypal Analysis and Segmentation," paper present at the American Marketing Association Advanced Research Techniques Forum, Keystone Colorado, June 1998.
- (and Theodore Groves and Mark J. Machina), "Incentive Compatibility Issues in Stated Preference Surveys," paper presented at the National Oceanic and Atmospheric Administration Workshop on Application of State Preference Methods to Resource Compensation, Washington, June 1998.
- (and Allyson Ankerbrand, Jon A. Krosnick, and Robert Cameron Mitchell), "Violating Conversational Conventions Disrupts Cognitive Process of Survey Questions," paper presented at the annual conference of the American Association for Public Opinion Research, St. Louis, May 1998.
- (and Theodore Groves and Mark J. Machina), "Economic Responses to Preference Surveys," paper presented at the annual U.S.D.A. W-133 meeting, Colorado Springs, CO, March 1998.
- (and Theodore Groves and Mark J. Machina), "Stated Preference Questions: Context and Optimal Response," paper presented at the Econometric Society Summer Meeting, California Institute of Technology, June 1997.
- (and Theodore Groves and Mark J. Machina), "Comparative Statistics of Approaches to Eliciting Economic Values," presentation at 1997 NSF/EPA Workshop on Valuation and Environmental Policy, Arlington, VA, May 1997.
- (and Dan Steinberg and Leo Breiman), "Broad Scale Missing Value Imputation with Iterative Binary Partitioning," paper presented at Second World Conference of the International Association for Statistical Computing, Pasadena, February 1997.
- (and Nicholas E. Flores), "A Dynamic Characterization of Temporary Rationing: Implications for Natural Resource Valuation," invited paper presented at the Third Occasional California Workshop on Environmental and Resource Economics, University of California, Santa Barbara, May 1996.
- (and Theodore Groves and Mark J. Machina), "Informational and Strategic Properties of Value Elicitation Procedures," paper presented at the INFORMS Conference, Washington, DC, May 1996.
- (and Theodore Groves and Mark J. Machina), "Informational and Strategic Properties of Value Elicitation Procedures," paper presented at the annual U.S.D.A. W-133 meeting, Jekyll, Island, GA, February 1996.
- (and Nicholas E. Flores, and Norman F. Meade), "Contingent Valuation: Controversies and Evidence," paper presented at the Western Economic Association Annual

- Conference, San Diego, July 1995.
- "Economic Considerations in Designing and Conducting Ecotoxicological Risk Assessments," presentation at California Environmental Protection Agency Workshop on Case Studies in Ecological Risk Assessments, Irvine, June 1995.
- "The Economic Structure of Non-Market Valuation Systems: Puzzles and Some Answers," invited paper presented at the Australian Agricultural Economics Society 39th Annual Conference, Perth, Western Australia, February 1995.
- "The Who, What, Where, Why, and How of NRDA," panel presentation at the OPA '90 Revisited Conference, Maritime Association of the Port of New York and New Jersey, New York, January 1995.
- (and Nicholas E. Flores) "The Relationship Between the Income Elasticities of Demand and Willingness to Pay," paper presented at the Association of Environmental and Resource Economists meeting, Washington D.C., January 1995.
- "Valuation of Tropical Rainforest: Philosophical and Practical Issues in the Use of Contingent Valuation," invited paper at Third Biennial Meeting International Society for Ecological Economics, San José, Costa Rica, October 1994.
- (and W.J. Sieber, T.G. Ganiats, and S.B. Cantor), "Discounting Future Health: Moderating Effects of Age, Sex, and Education," Paper presented at the annual meeting of the Society for Medical Decision Making, 1994. Abstract in *Medical Decision Making*, Vol. 14, 1994.
- "Contingent Valuation Surveys and Tests of Insensitivity to Scope," paper presented at the International Conference on Determining the Value of Nonmarketed Goods: Economic Psychological, and Policy Relevant Aspects of Contingent Valuation Methods, Bad Homburg, Germany, July 1994.
- (and T.G. Ganiats, R. Hamm, S.J. Spann, M.D. Hagen, and S.B. Cantor), "Population-Based Discounting of Future Health Outcomes," paper presented at Association for Health Services Research, San Diego, June 1994. Abstract on *Medline*.
- (and Nicholas E. Flores, Kerry M. Martin, and Jennifer L. Wright), "Contingent Valuation and Revealed Preference Methodologies Comparing the Estimates for Quasi-Public Goods," paper presented at the annual U.S.D.A. W-133 meeting, Tucson, Arizona, February 1994.
- "Future Research Implications of the NOAA Panel Report on Contingent Valuation," invited presentation at American Economic Association meeting, Boston, January 1994.
- (and Anna Alberini and Barbara J. Kanninen), "A General Model for Double-Bounded Discrete Choice Contingent Valuation Data," presented at the Association of Environmental and Resource Economists, Boston, January 1994.
- "Current Directions in Recreation Demand Modeling," Invited presentation at International Conference on Regional Water Management, Berkeley, October 1993
- (and Robert Cameron Mitchell), "Issues of Scope and Sequence in Contingent Valuation," invited paper presented at the American Association of Agricultural Economics meeting, Orlando, Florida, August 1993.
- "The CV Methodological Lessons from the Exxon Valdez and Blue Ribbon Panel Experiences," presentation at the California Workshop on Environmental and Resource Economics and Policy, Santa Barbara, May 1993.
- "The Development of Alaska's Exxon Valdez Contingent Valuation Instrument: The Measurement of Passive-Use Values," paper presented at the annual U.S.D.A., W-

133 meeting, Santa Fe, New Mexico, March 1993.

(and W. Michael Hanemann) "Issues in the Assessment of Damages from Oil Spills," invited presentation at the Society For Risk Analysis annual meeting, Coronado, CA, December 1992.

"The Contingent Valuation Method and Environmental Damage Assessment," invited presentation at Southern Economic Association, Washington, November 1992.

(and Nicholas E. Flores and W. Michael Hanemann) "On the Creation and Destruction of Public Goods: The Matter of Sequencing" paper presented at European Association of Environmental and Resource Economists meeting, Krakow, Poland, June 1992.

"The Current State of Natural Resource Damage Assessment," invited address presented to the Natural Resource Modeling Association Conference, Berkeley, June 1992.

(and Nicholas E. Flores and W. Michael Hanemann) "On the Nature of Compensable Value in a Natural Resource Damage Assessment," invited paper presented at the annual American Economics Association Meeting, New Orleans, January 1992.

(and Michael B. Conaway, W. Michael Hanemann, Raymond J. Kopp, Kerry Martin, Robert C. Mitchell, Stanley Presser and Paul A. Ruud), "Valuing Winter Visibility Improvements in the Grand Canyon," paper presented at Association of Environmental and Resource Economists meeting, New Orleans, January 1992.

(and Robert Cameron Mitchell), "Nonuse Values and Contingent Valuation," invited paper presented at Southern Economic Association meeting, Nashville, November 1991.

(and John Horowitz), "The Demand For Government Regulation of Environmental Health Risks," paper presented at the Association for Public Policy Analysis and Management Conference, Bethesda, October 1991.

"The Value of Winter Visibility Improvements in the Grand Canyon," paper presented at the Summer NBER Tax Workshop, Cambridge, August 1991.

(and John Horowitz), "A Classification Tree for Predicting Consumer Preferences for Risk Reduction," invited paper presented at the summer meeting of the American Agricultural Economics Association, Manhattan Kansas, August 1991.

(and William Balson and Robert Mitchell) "The Grand Canyon Visibility Benefits Study," paper presented at the annual meeting of the Air and Waste Management Association, Vancouver, June 1991.

"The Economic Value of Preventing Water Shortages," paper presented at the European Association of Environmental and Resource Economists, Stockholm, June 1991.

"Visibility at the Grand Canyon Revisited," paper presented at the Western Regional Sciences/W-133 Meeting Monterey, February 1991.

(and John Horowitz), "Does the Public Really Care About Risk Characteristics," paper presented at Society for Risk Analysis meeting, New Orleans, October 1990.

(and John Horowitz), "Do Consumers Really Care About the Characteristics of Health Risks," paper presented at the Association of Environmental and Resource Economist Meeting, Vancouver, August 1990.

(and Francis Lim and Mark Machina), "Forecasting State Lotto Sales: Micro and Policy Implications," paper presented at the Fifth International Conference on the Foundations and Applications of Utility, Risk, and Decision Theory, Durham, North Carolina, June 1990.

(and John Horowitz), "Which Risks are Important? The Case of Food Safety," paper presented at Economics of Food Safety Workshop, Alexandria, VA, June 1990.

- (and Anna Alberini), "The Efficiency of Discrete Choice Estimation," paper presented at Western Regional Sciences/W-133 Meeting Molokai, Hawaii, February 1990.
- (and John Horowitz), "The Many Facets of Risk: Valuing the Characteristics," paper presented at the Association of Environmental and Resource Economists Meeting, Atlanta, December 1989.
- "The Tobit Model with a Non-Zero Censoring Threshold," paper presented at the Econometric Society Meeting, Atlanta, December 1989.
- "Value of Diamonds and Water: Water Supply Reliability in Southern California," paper presented at Association for Public Policy Analysis and Management, Washington D.C., November 1989.
- (and Robert Cameron Mitchell and Paul Ruud), "Valuing Air Quality Improvements: Simulating a Hedonic Pricing Equation in the Context of a Contingent Valuation Scenario," paper presented at the annual Air Pollution Control Association meeting, Estes Park, Colorado, October 1989.
- (and Dan Steinberg), "Experimental Design for Discrete Choice Voter Preference Surveys," paper presented at the annual meeting of the American Statistical Association, Washington, D.C., August 1989.
- (and W. Michael Hanemann and Thomas Wegge) "A Nested Logit Model of Recreational Fishing Demand in Alaska," paper presented at the annual Western Economic Association Conference, Lake Tahoe, June 1989.
- (and Peter Navarro), "Role of Regulation in Explaining Trade Flows," paper presented at 2nd University of California Conference on Economics Issues of the Pacific Rim, Davis, April 1989.
- "Contingent Valuation: Using Surveys to Price Public Goods," invited paper presented at American Association for Public Opinion Conference, Monterey, March 1989.
- (and Dan Steinberg) "Estimation of Demand Curves via Survival Analysis," invited presentation at Winter Meeting of the American Statistical Association, San Diego, January 1989.
- (and Ciaran S. Phibbs), "Influence of Specific Services on the Shape of Hospital Market Areas," paper presented at Western Economics Association meeting, Los Angeles, July 1988.
- (and Robert Cameron Mitchell) "On the Use of Contingent Valuation in Natural Resource Damage Cases," paper present at Natural Resources Damage Assessment Conference, Washington, DC, June 1988.
- (and Michael W. Hanemann and Dan Steinberg) "A Discrete Choice Contingent Valuation Estimate of the Value of Kenai King Salmon," paper presented at the Social and Behavioral Economics Conference, San Diego, June 1988.
- (and Peter Navarro), "Matching Behavior in Academic Labor Markets," paper presented at the annual meeting of the Eastern Economic Association, Boston, March 1988.
- (and W. Michael Hanemann) "Valuing Quality in a Recreational Fishery Using a Generalized Logit Model," paper presented at the annual U.S. Department of Agriculture W-133 Conference on Research Issues in Resource Decisions Involving Marketed and Nonmarketed Goods, Monterey, January 1988.
- "What Components of Value Should Be Included in a Benefit/Damage Estimate", presentation at the annual U.S. Department of Agriculture W-133 Conference on Research Issues in Resource Decisions Involving Marketed and Nonmarketed

- Goods, Monterey, January 1988.
- (and Peter Navarro), "Special Interest and Ideology in the Dispute Over Natural Resource Damage Assessment: Economists Caught in a Methodological Crossfire," invited paper presented at American Economics Association meeting, Chicago, December 1987.
- (and Robert Cameron Mitchell), "Valuing Reductions in Environmental Risk: The Case of Trihalomethanes," paper presented at the Association for Public Policy Analysis and Management, Washington D.C., October 1987.
- (and Theodore Graham-Tomasi), "An Economic Perspective on Natural Resources Damage Assessment Regulations," paper presented at the Association for Public Policy Analysis and Management, Washington D.C., October 1987.
- (and James Chalfant and Kenneth White), "Demand System Specification and Out-of-Sample Prediction Rates", paper presented at the Econometric Society Summer Meeting, University of California, Berkeley, June 1987.
- (and Robert Cameron Mitchell), "How Far Out on the Learning Curve Are We with Contingent Valuation?", paper presented at Engineering Foundation-Universities' Council on Water Resources Conference on the Role of Social/Behavior Science in Water Resource Management Santa Barbara, May 1987.
- (and Robert Mitchell), "Evidence of Bias in Amenity Valuation," paper presented at Workshop on Integrating Economic and Psychological Knowledge in Valuation of Public Amenity Resources (U.S. Forest Service), Estes Park, CO, May 1986.
- "The Use of Dichotomous Choice Formats for Contingent Valuation: Current Research Issues and Concerns," presentation at annual U.S. Department of Agriculture W-133 Conference on Research Issues in Resource Decisions Involving Marketed and Nonmarketed Goods, San Diego, February 1986.
- (and Robert Cameron Mitchell), "Not in My Backyard or the Economic Cost of Siting Opposition," invited paper presented at the annual American Economics Association Meeting, New York, December 1985.
- "Splitting, Smoothing, and Resampling: Computer Intensive Statistics and Their Use in Economics and the Social Sciences," paper presented at the 5th World Congress of the Econometric Society, Massachusetts Institute Technology, August 1985.
- (and James Chalfant), "Causality Tests Without Linearity or Normality," paper presented at Econometric Society 5th World Congress, MIT, August 1985.
- (and Shankar Subramanian), "A Fast Robust Data Smooth Using An L-Estimator," paper presented at American Statistical Association Meeting, Las Vegas, August 1985.
- "SAS Macros for Bootstrapping and Cross-Validating Regression Equations," paper presented at SAS Users Group International 10th Annual Conference, Reno Nevada, March 1985.
- (and Shankar Subramanian), "Robust Regression: A Synthesis of Developments Involving Distribution Theory and Non-Spherical Errors," paper presented at Econometric Society meeting, Dallas, December 1984.
- "Compensating for Missing Data and Invalid Responses in Willingness to Pay Surveys," paper presented at American Statistical Association meeting, Philadelphia, 1984.
- (and Robert Cameron Mitchell), "Fresh Water Quality Benefits: Findings from a New National Contingent Valuation Study," invited paper presented at Joint Meeting of the American Agricultural Economics Association and the Association of

Environmental and Resource Economists, Cornell University, August 1984.  
(and Alan Love and Fabienne Keller-Griesmar), "The Soviet Grain Import Decision as an Optimal Control Problem," paper presented at American Agricultural Economics Association meeting, Cornell University, August 1984.  
(and William E. Foster), "A Theory of Auctions from the Auctioneer's Perspective," paper presented at Econometric Society Summer meeting, Stanford University, June 1984.  
(and Robert Cameron Mitchell), "Public Perceptions of Risk and Local Siting Issues," paper presented at Western Social Sciences Association meeting, San Diego, April 1984.  
"Ordinal and Dummy Variables: An Errors-in-Variables Approach," paper presented at Econometric Society Meeting, San Francisco, December 1983.

## **SEMINARS PRESENTED**

Academia Sinica, Agricultural University of Norway, Athens University of Business and Economics, Australian National University, University of Auckland, Lincoln University, University of California, Berkeley, University of California, Davis, University of California, Los Angeles, University of California, San Diego, University of California, Santa Barbara, University of California, Riverside, University of Chicago, Chung-Hua Institution for Economic Research (Taipei), University of Colorado, Boulder, Columbia, Cornell, University College, Dublin, Duke University, University of East Anglia, East-West Center at the University of Hawaii, University of Florida, Forest Research Institute Malaysia, Göteborg University, Harvard University, University of Haifa, Hebrew University, University of Economics Ho Chi Minh City, University of Illinois, University College, London, London School of Economics, University of Maryland, Massey University, Massachusetts Institute of Technology, University of Michigan, Michigan State University, University of New South Wales, University of Oslo, Oregon State University, Peking University, Rand Corporation, Research Triangle Institute, Resources for the Future, University of Saarland San Diego State University, Stanford University, Stockholm School of Economics, University of Southern California, Sungkyunkwan University, University of Sydney, University of Technology, Sydney, TERI University (Delhi), Tokyo Institute of Technology, U.S. Environmental Protection Agency, University of Venice, University of Washington, Seattle, University of Warsaw, University of Wisconsin, Madison, Washington State University, World Health Organization, Xi'an Jiaotong University.

## **PROFESSIONAL MEMBERSHIPS**

Agricultural and Applied Economics Association (Elected Fellow), American Association for the Advancement of Science, American Association for Public Opinion Research, Association for Public Policy Analysis and Management, American Economics Association, American Marketing Association, American Statistical Association, Association of Environmental and Resource Economists (Elected Fellow), Econometric Society, European Association of Environmental and Resource Economists, International Society for Ecological Economics, Society for Benefit Cost Analysis, Western Economics Association.

## **CONTRACTS AND GRANTS**

Principal investigator or co-principle investigator on contracts and grants totaling over 20 million dollars. Funding sources have included the National Science Foundation, Federal agencies such as the Department of Commerce and the U.S. Environmental Protection Agency, state agencies such as the Alaskan Department of Fish and Game and the California Resources Agency, international organizations such as the World Bank and private foundations such as Electric Power Research Institute and the Hewlett Foundation.

## **PROGRAM AFFILIATIONS (Past and Current)**

California Sea Grant Program  
National Research Council (NRC) Committee on Oil Spill Research and Development  
NRC Committee on Assessment of Water Resources Project Planning Procedures  
National Bureau of Economic Research, Faculty Research Fellow, Program in Public Economics  
San Diego Supercomputer Center, Senior Fellow  
Scripps Institution of Oceanography Center for Marine Biodiversity and Conservation  
UCSD Center for Environmental Economics  
UCSD Center for U.S.-Mexican Studies  
UCSD Institute for Neural Computation  
UC Center for Energy and Environmental Economics

## **CONSULTANT**

Alaska Department of Law, Alaska Department of Fish and Game, American Council of Learned Societies, Australian Bureau of Agriculture and Resource Economics, Australian Resource Assessment Commission, Battelle Pacific Northwest Laboratories, Boeing, California Attorney General's Office, California Department of Fish and Game, California Energy Commission, City of San Diego, Computer Intelligence/Ziff Davis, Dames and Moore, Decision Focus, Electric Power Research Institute, Environment Canada, Hazen and Sawyer, Inc., HBRS, Inc., Illinois Department of Energy and Natural Resources, Industrial Economics, KPMG, Los Angeles Department of Water and Power, Memetrics (Chief Scientist, now a part of Accenture Marketing Science), Metropolitan Water District of Southern California, Motorola, National Association of Broadcasters, National Economic Research Associates, National Oceanic and Atmospheric Administration, National Wildlife Federation, New Jersey Department of Environmental Conservation, Organization for Economic Cooperation and Development, Price Waterhouse, QED Research, Research Triangle Institute, Review of Economic Studies, Salford Systems, Salt River Project, San Diego Association of Governments, South Florida Water Management District, Spectrum Economics, STICS, Stone Analytics, United Kingdom Department of Environment, Food and Rural Affairs, United Kingdom, Ministry of Justice, United Nations, U.S. Department of Agriculture, U.S. Army Corp of Engineers, U.S. Department of Commerce, U.S. Department of Energy, U.S. Environmental Protection Agency, U.S. Forest Service, U.S. Department of Interior, U.S. Department of Justice, U.S. National Park Service, World Bank.

## WHO'S WHO

Who's Who in Economics, Who's Who in America, Who's Who in the West, Who's Who in Finance and Industry

## CONFERENCE PROGRAM COMMITTEES

Program Chair, Second World Congress of Environmental and Resource Economists (2002)  
American Association of Public Opinion Research (various years)  
American Association of Agricultural Economics (various years)  
Association of Environmental and Resource Economists (various years)  
European Association of Environmental and Resource Economists (various years)  
International Choice Symposium (various years)

## EDITORIAL POSITIONS

Co-Editor: *Foundations and Trends in Microeconomics*

Editorial Boards: *Contemporary Economic Policy, Environmental and Resource Economics, Journal of Environment and Development, Journal of Environmental Economics and Management*

## REVIEWER

Addison-Wesley, *Agricultural Economics, Agricultural and Resource Economics Review, American Economic Review, American Journal of Agricultural Economics, American Journal of Economics: Economic Policy, American Journal of Economics: Microeconomics, American Journal of Public Health, Australian Journal of Agricultural Economics, Applied Economics, Australian Journal of Agricultural and Resource Economics, Australian Journal of Management, B.E. Journal of Economic Analysis and Policy, Chicago Lung Association, Coastal Management Journal, Contemporary Economic Policy, Ecological Economics, Econometric Theory, Econometrica, Economic Development and Cultural Change, Economic Journal, Economic Letters, Energy Journal, Environment and Development Economics, Environment & Planning C: Government and Policy, Environmental and Resource Economics, Environmental Conservation, Foundations and Trends in Microeconomics, GeoForum, Health Economics, John Wiley, Journal of Agricultural and Resource Economics, Journal of Applied Econometrics, Journal of Comparative Economics, Journal of Development Economics, Journal of Econometrics, Journal of Economic Education, Journal of Economic Literature, Journal of Economics and Business, Journal of Economic Psychology, Journal of Environmental Assessment Policy and Management, Journal of Environment and Development, Journal of Environmental Economics and Management, Journal of Environmental Management, Journal of Health Economics, Journal of Law, Economics and Organization, Journal of Neuroscience, Psychology, and Economics, Journal of Political Economy, Journal of Politics, Journal of International Economics, Journal of Law and Economics, Journal of Public Economics, Kluwer Academic Publishers, Leisure Sciences, Lifetime Data Analysis, Marine Ecology Progress Series, Michigan Sea Grant Program, Natural Resource Modeling, National Oceans Economics*

Program, National Science Foundation, *Oxford Economic Papers*, Oxford University Press, *Policy Sciences*, *Policy Studies Journal*, Princeton University Press, *Proceedings of the National Academy of Sciences*, *Public Opinion Quarterly*, *Quarterly Journal of Economics*, *Public Budgeting and Finance*, *Rand Journal of Economics*, *Regional Science and Urban Economics*, *Review of Economic Studies*, *Review of Economics and Statistics*, *Review of Economics of the Household*, *Resource and Energy Economics*, *Risk Analysis*, *Scandinavian Journal of Economics*, Social Sciences and Humanities Research Council (Canada), *Southern Economic Journal*, Springer, *Statistica Sinica*, University of California Water Resources Center, Wadsworth Advanced Books, *Water International*, *Water Resources Research*, *Western Journal of Communication*, *Western Journal of Agricultural Economics*, Western Regional Center of the National Institute for Global Environmental Change, *World Bank Economic Review*, *World Development*.