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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, 1980. 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. Distinguished Professor, 2015-present, Chair 2002-2006, Professor, 1996-2015; 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. 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 Global Policy & Strategy; Department of Political Science.

University of South Australia, 2014-2015.

Institute for Choice, Distinguished Research Professor.

Visiting Professor/Distinguished Research Professor.

University of Sydney 1995, 1997; University of Oslo 1996; UNSW 2005; UTS 2008-2013.

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 Jacob LaRiviere), “Structural Uncertainty and Pollution Control: Optimal Stringency with Unknown Pollution Sources,” *Environmental and Resource Economics*, forthcoming.
- (and Tiago Ribeiro, Jordan J. Louviere, and John M. Rose), "Possible Design-Induced Artefacts Associated with Designs for Discrete Choice Experiments,” *Journal of Statistical Theory and Practice*, forthcoming.
- (and Joffre Swait, Joffre, Jordan J. Louviere, Bart Frischknecht, Jorge Araña, Christine Eckert, Tiago Ribeiro, Simon Fifer, John M. Rose, Andrew Heathcote, Scott Brown, “Choice Modeling,” in *Oxford Bibliographies in Marketing*, (Oxford: Oxford University Press, forthcoming).
- (and Richard C. Bishop, Kevin J. Boyle, David Chapman, W. Michael Hanemann, W.M., Barbara Kanninen, Raymond J. Kopp, Jon A. Krosnick, John List, Norman Meade, Robert Paterson, Stanley Presser, V. Kerry Smith, Roger Tourangeau, Michael Welsh, Jeffrey M. Wooldridge, Matthew DeBell, Colleen Donovan, Matthew Konopka, and Nora Scherer), “Putting a Value on Injuries to Natural Assets: The BP Oil Spill. *Science*, vol. 356, 2017.
- (and Tamara L. Sheldon and J.R. DeShazo), “Electric and Plug-In Hybrid Vehicle Demand: Lessons for an Emerging Market,” *Economic Inquiry*, vol. 55, 2017.
- (and J.R. DeShazo and Tamara L. Sheldon), “Designing Policy Incentives for Cleaner Technologies: Lessons from California's Plug-in Electric Vehicle Rebate Program,” *Journal of Environmental Economics and Management*, vol. 84, 2017.
- (and Jennifer T. Le and Lisa A. Levin), “Incorporating Ecosystem Services into Environmental Management of Deep-Seabed Mining,” *Deep Sea Research Part II*, vol. 137, 2017.
- (and Jon Strand, Stale Navrud, Ariel Ortiz Bobea, and Jeffrey R. Vincent), “Using the Delphi Method to Value Protection of the Amazon Rainforest,” *Ecological Economics*, vol. 131, 2017.
- (and Kevin Boyle, Robert Paterson, Christopher Leggett, Barbara Kanninen, and John Molenar), Valuing Shifts in the Distribution of Visibility in Class I Visibility Areas,” *Journal of Environmental Management*, vol. 173, 2016.
- (and M. Burke, M. Craxton, C.D. Kolstad, C. Onda, H. Allcott, E. Baker, L. Barrage, R. Carson, K. Gillingham, J. Graff-Zivin, M. Greenstone, S. Hallegatte, W.M. Hanemann, G. Heal, S. Hsiang, B. Jones, D.L. Kelly, R. Kopp, M. Kotchen, R. Mendelsohn, K. Meng, G. Metcalf, J. Moreno-Cruz, R. Pindyck, S. Rose, I. Rudik, J. Stock and R. Tol), “Opportunities for Advances in Climate Change Economics: Target Carbon’s Costs, Policy Designs and Developing Countries,” *Science*, vol. 352, 2016.
- (and Jordan J. Louviere), “When the Ayes Don’t Have It: Supplementing an Accept/Reject DCE with a Case 2 Best-Worst Scaling Task,” in Best-Worst Scaling: Theory, Methods and Applications,” in Jordan J. Louviere, Terry N. Flynn, and A.A.J. Marley, eds., *Best-Worst Scaling: Theory, Methods and Applications* (New York: Cambridge University Press, 2015).
- (and Daniel Moyer, Samuel L. Carson, Thayne Keegan Dye and David Goldbaum) "Determining the Influence of Reddit Posts on Wikipedia Pageviews," in

- Proceedings of the Ninth International AAAI Conference on Web and Social Media*, (Palo Alto, CA: Association for the Advancement of Artificial Intelligence 2015).
- (and J.R. DeShazo, Kurt A. Schwabe, Jeffrey R. Vincent, Ismariah Ahmade), “Incorporating Local Visitor Valuation Information into the Design of New Recreation Sites in Tropical Forests,” *Ecological Economics*, vol. 120, 2015.
- “Nonmarket Valuation and Water Resource Management,” in Ariel Dinar and Kurt A. Schwabe, eds., *The Handbook of Water Economics* (Northampton, MA: Edward Elgar, 2015).
- (and J.R. DeShazo, Kurt A. Schwabe, Jeffrey R. Vincent, Ismariah Ahmade, Chong Siew Kook and Chang Yii Tan), “Designing and Implementing Surveys to Value Tropical Forests: A Malaysian Application,” *Journal of Tropical Forest Science*, vol. 27, 2015.
- (and Jordan J. Louviere, John M. Rose, and Joffre Swait), “Frontiers in Modelling Discrete Choice Experiments: A Benefit-Transfer Perspective,” in Robert Johnston, John Rolfe, Randy Rosenberger, and Roy Brouwer, eds., *Benefit Transfer of Environmental and Resource Values: A Handbook for Researchers and Practitioners* (Dordrecht, Netherlands: Springer, 2015).
- (and Kurt A. Schwabe, J.R. DeShazo, Matthew D. Potts, Ashley N. Reese, and Jeffrey R. Vincent), “Creation of Malaysia's Royal Belum State Park: A Case Study of Conservation in a Developing Country,” *Journal of Environment and Development*, vol. 24, 2015.
- (and Jordan J. Louviere) “Statistical Properties of Consideration Sets,” *Journal of Choice Modelling*, vol. 13, 2014.
- (and Jeffrey R. Vincent, J.R. Deshazo, Kurt A. Schwabe, Ismariah Ahma, Chong Siew Kook, Chang Y. Tan and Matthew D. Potts), “Tropical Countries May Be Willing to Pay More to Protect Their Forests,” *Proceedings of National Academy of Sciences*, vol. 111, 2014.
- (and Theodore Groves and John A. List), “Consequentiality: A Theoretical and Experimental Exploration of a Single Binary Choice,” *Journal of the Association of Environmental and Resource Economists*, vol. 1, 2014.
- (and Mikolaj Czajkowski), “The Discrete Choice Experiment Approach to Environmental Contingent Valuation,” in Stephane Hess and Andrew Daly, eds. *Handbook of Choice Modelling* (Northampton, MA: Edward Elgar, 2014).
- “Exxon Valdez,” in T.C. Haab and J. Whitehead, eds., *Encyclopedia of Environmental and Natural Resource Economics* (Westport, CT: Greenwood Press, 2014).
- (and Nada Wasi), “The Influence of Rebate Programs on the Demand for Water Heaters: The Case of New South Wales,” *Energy Economics*, vol. 40, 2013.
- (and Kevin Novan), “The Private and Social Economics of Bulk Electricity Storage,” *Journal of Environmental Economics and Management*, vol. 66, 2013.
- (and Jordan J. Louviere, Leonie Burgess, A.A.J. Marley, Deborah Street), “Sequential Preference Questions: Factors Influencing Completion Rates and Response Times Using an Online Panel,” *Journal of Choice Modelling*, vol. 8, 2013.
- (and Michael B. Conaway and Ståle Navrud), “Preliminary Valuation of a Cultural

- Heritage Site of Global Significance: A Delphi Contingent Valuation Study,” in Ilde Rizzo and Anna Mignosa, eds., *Handbook on the Economics of Cultural Heritage* (Northampton, MA: Edward Elgar, 2013).
- (and Samuel R. Dastrup), “After the Fall An Ex Post Characterization of Housing Price Declines Across Metropolitan Areas,” *Contemporary Economic Policy*, vol. 31, 2013.
- “Contingent Valuation: A Practical Alternative When Prices Aren't Available,” *Journal of Economic Perspectives*, vol. 26, 2012.
- (and Paul Metcalfe, William Baker, Kevin Andrews, Giles Atkinson, Ian Bateman, Sara Butler, Jo East, Yves Gueron, Rob Sheldon and Kenneth Train), “An Assessment of the Non-Market Benefits of the Water Framework Directive for Households in England and Wales,” *Water Resources Research*, vol. 48, 2012.
- (and Brett Day, Ian J. Bateman, Diane Dupont, Jordan J. Louviere, Sanae Morimoto, Riccardo Scarpa, and Paul Wang), “Ordering Effects and Choice Set Awareness in Repeat-Response Stated Preference Studies,” *Journal of Environmental Economics and Management*, vol. 63, 2012.
- (and Jordan J. Louviere), “A Common Nomenclature for Stated Preference Approaches,” *Environmental and Resource Economics*, vol. 49, 2011.
- (and Tolga Cenesizoglu and Roger Parker), “Aggregation Issues in Forecasting Aggregate Demand: An Application to U.S. Commercial Air Travel,” *International Journal of Forecasting*, vol. 27, 2011.
- (and Theodore Groves), “Incentive and Information Properties of Preference Questions: Commentary and Extensions,” in Jeff Bennett, ed., *International Handbook of Non-Market Environmental Valuation* (Northampton, MA: Edward Elgar, 2011).
- Contingent Valuation: A Comprehensive Bibliography and History* (Northampton, MA: Edward Elgar, 2011).
- (and David Philips and Jordan Louviere), “Design of Discrete Choice Experiments: A Discussion of Issues That Matter in Future Applied Research,” *Journal of Choice Modelling*, vol. 4, 2011.
- (and Phoebe Koundouri, and Céline Nauges), “Arsenic Mitigation in Bangladesh: A Household Labor Market Approach,” *American Journal of Agricultural Economics*, vol. 93, 2011. Reprinted in Kenneth G. Willis and Guy Garrod, *Valuing Environmental and Natural Resources* (Northampton, MA: Edward Elgar, 2014).
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- (and Christine Ebling, Bart Frischknecht, Jordan J. Louviere, and John Rose), “Some Observations on the Great Sawtooth Model-Off Competition And a Few Remarks an Ralph Wirth’s Simulation Results,” *Proceedings of the 15th Annual Sawtooth Software Conference* (Sequim, WA: Sawtooth Software, 2010).
- (and Jordan J. Louviere), “Experimental Design and the Estimation of Willingness to Pay In Choice Experiments For Health Policy Evaluation,” in Philip Clarke, Emma Frew, Jordan Louviere and Emma McIntosh, eds., *Applied Methods of Cost-Benefit Analysis in Health Care* (Oxford: Oxford University Press, 2010).

- (and Jordan J. Louviere and Edward Wei, “Alternative Australia's Climate Change Plan: The Public's Views,” *Energy Policy*, vol. 38, 2010.
- “Environmental Kuznets Curve: Searching for Empirical Regularity and Theoretical Structure,” *Review of Environmental Economics and Policy*, vol. 4, 2010. Reprinted in Peter Victor, *The Costs of Economic Growth* (Northampton: MA: Edward Elgar, 2013).
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- (and Maximillian Auffhammer), “Forecasting the Path of China’s CO2 Emissions: Using Province Level Information,” *Journal of Environmental Economics and Management*, vol. 55, 2008.
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- The Stated Preference Approach to Environmental Valuation [Volume 2]: Conceptual and Empirical Issues* (Aldershot, UK: Ashgate, 2007).
- The Stated Preference Approach to Environmental Valuation [Volume 3]: Benefit-Cost Analysis and Natural Resource Damage Assessment* (Aldershot, UK: Ashgate, 2007).
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- "Review of 'The Economic Valuation of the Environment and Public Policy: A Hedonic Approach' by Noboru Hidano," *Environment*, vol. 46, 2004.
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- (and Jon A. Krosnick, Allyson Holbrook, Matthew K. Berent, W. Michael Hanemann, Raymond J. Kopp, Robert Cameron Mitchell, Paul A. Ruud, V. Kerry Smith, Wendy R. Moody, Melanie C. Green, and Michael Conaway), "The Impact of "No Opinion" Response Options on Data Quality: Non-Attitude Reduction or an Invitation to Satisfice?" *Public Opinion Quarterly*, vol. 66, 2002. Reprinted in Caroline Roberts and Roger Jowell, *Attitude Measurement* (London: Sage, 2008).
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- "The Practice of Environmental and Resource Economics," (guest editor), Special Issue of *Environmental and Resource Economics*, vol. 22, 2002.
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- Techniques: A Manual* (Northampton, MA: Edward Elgar, 2002).
- (and Robert Cameron Mitchell and Michael B. Conaway), "Economic Benefits to Foreigners Visiting Morocco Accruing from the Rehabilitation of the Fes Medina," in Ståle Navrud and Richard C. Ready, eds., *Valuing Cultural Heritage: Applying Environmental Valuation Techniques to Historic Buildings, Monuments and Artifacts* (Northampton, MA: Edward Elgar, 2002).
- (and Linda Fernandez, eds.) *Both Sides of the Border: Transboundary Environmental Management Issues Facing Mexico and the United States* (Boston: Kluwer Academic Press, 2002).
- (and Nicholas E. Flores, and Norman F. Meade), "Contingent Valuation: Controversies and Evidence," *Environmental and Resource Economics*, vol. 19, 2001. Reprinted in Michael Hoel, ed., *Recent Developments in Environmental Economics: The International Library of Critical Writings in Economics*, (Northampton, MA: Edward Elgar, 2004), in C.F. Mason and E.H. Bulte, eds., *Environmental Economics: Critical Concepts in the Environment* (New York: Routledge, 2008), and in K.G. Willis and G. Garrod, eds., *Valuing Environmental and Natural Resources* (Northampton, MA: Edward Elgar, 2014).
- "Contingent Valuation," in Neil J. Smelser and Paul B. Baltes, eds. *International Encyclopedia of the Social and Behavioral Sciences* (Oxford: Pergamon, 2001).
- (and Robert Cameron Mitchell), "Protest, Property Rights, and Hazardous Waste: A Reassessment," in Heyes, Anthony, ed., *Law and Economics of the Environment* (Northampton, MA: Edward Elgar, 2001).
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- (and Theodore G. Ganiats, Robert Hamm, Scott Cantor, Walton Sumner, Stephen Spann, Michael Hagen, and Christopher Miller), "Population-Based Time Preferences for Future Health Outcomes," *Medical Decision Making*, vol. 20, 2000.
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- (and Jordan J. Louviere, Robert J. Meyer, David Bunch, Benedict Delleart, W. Michael Hanemann, David Hensher, and Julie Irwin), "Combining Sources of Preference Data for Modeling Complex Decision Processes," *Marketing Letters*, vol. 10, 1999.
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- "Contingent Valuation and Tests of Insensitivity to Scope," in R.J. Kopp, W. Pommerhene, and N. Schwartz, eds., *Determining the Value of Non-Marketed Goods: Economic, Psychological, and Policy Relevant Aspects of Contingent Valuation Methods*, (Boston: Kluwer, 1997).
- (and Nicole Bordes and Bernard A. Pailthorpe (1997), "An Archetypal Representation of the History of the US Economy", *Gather/Scatter* (SDSC) vol. 13.
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- (and Leanne Wilks and David Imber), "Valuing the Preservation of Australia's Kakadu Conservation Zone," *Oxford Economic Papers*, vol. 46, 1994.
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- (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 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 the American Economic Association meeting, Chicago, 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 meeting, 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. Abstract in *American Journal of Agricultural Economics*, vol. 66, p. 908.
- (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, Irvine, University of California, Los Angeles, University of California, Riverside, University of California, San Diego, University of California, Santa Barbara, 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, New York University, University of Oslo, Oregon State University, Peking University, University of Pennsylvania, 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 (Elected Fellow), American Association for Public Opinion Research, American Economic 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, Sigma Xi, Western Economics Association.

PROGRAM AFFILIATIONS (Current and Past)

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
John Muir College, Elected Fellow
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
University of California Center for Energy and Environmental Economics
U.S. Environmental Protection Agency, Science Advisory Board (Environmental Economics)

CONTRACTS AND GRANTS

Principal investigator or co-principle investigator on contracts and grants totaling over 25 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.

CONSULTANT

Accent, 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., HBRIS, 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, 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.

CONFERENCE PROGRAM COMMITTEES

Program Chair, Second World Congress of Environmental and Resource Economists (2002)
Co-Chair, International Choice Modelling Conference (2013)
Program Committee, American Association for the Advancement of Sciences (2013-2014)
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)
World Congress of Environmental and Resource Economists (various years)

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

EDITORIAL POSITIONS (Current and Past)

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, Applied Economics, Australian Journal of Agricultural and Resource Economics, Australian Journal of Management, B.E. Journal of Economic Analysis and Policy, California Sea Grant, Cambridge University Press, Chapman and Hall, Chicago Lung Association, Coastal Management Journal, Contemporary Economic Policy, Ecological Economics, Econometric Theory, Econometrica, Economic Development and Cultural Change, Economic Inquiry, Economic Journal, Economic Letters, Energy Journal, Environment and Development Economics, Environment & Planning C: Government and Policy, Environmental and Resource Economics, Environmental Conservation, European Economic Review, Foundations and Trends in Microeconomics, GeoForum, Health Economics, John Wiley, Journal of Agricultural and Resource Economics, Journal of Applied Econometrics, Journal of Choice Modelling, Journal of Comparative Economics, Journal of Development Economics, Journal of Econometrics, Journal of Economic Education, Journal of Economic Literature, Journal of Economics and Business Statistics, Journal of Economic Psychology, Journal of Energy Storage, Journal of Environmental Assessment Policy and Management, Journal of Environment and Development, Journal of Environmental Economics and Management, Journal of Environmental Management, Journal of Food Distribution Research, 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, Management Science, 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, Prentice-Hall, 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, Review of Environmental Economics and Policy, Review of Economic Studies, Resource and Energy Economics, Risk Analysis, Rockefeller Foundation, Scandinavian Journal of Economics, Science of the Total Environment, Social Sciences and Humanities Research Council (Canada), Southern Economic Journal, Springer, Statistica Sinica, Sustainability, Transportation Research Part A: Policy and Practice, University of California Water Resources Center, Wadsworth Advanced Books, Water Economics and Policy, 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.