

JONATHAN D. KAPLAN
Curriculum Vitae

Education

PhD, Agricultural and Resource Economics. 1999. University of California, Davis
MS, Agricultural and Resource Economics. 1994. University of Maine
BA, Economics. 1992. Humboldt State University

Current Position

Assistant Professor, Department of Economics, California State University, Sacramento

Areas of Research Interest

Water Resource Management, Economic-Environmental Dynamics, Environmental Regulation and Enforcement, Applied Welfare Analysis

Current Projects

Adaptive Water Quality Management of a Heterogeneous Watershed
Water Salinity Control and Household Labor Productivity in the Mekong Delta, Vietnam
Behavioral Response to Alternative Water Market Structure and Organization
Economic Valuation of Wetland Benefits in the Sacramento-San Joaquin Delta Estuary
Economic Assessment of Salinity in the California Central Valley

Pending Projects

Mapping and Managing the Economic Risk from a Pierce's Disease Infestation across the Wine Grape Growing Regions of California.

Journal Articles

"Multiple Environmental Externalities and Manure Management Policy," (with N. Key), *Journal of Agricultural and Resource Economics* forthcoming.

"Policy Design and Conservation Compliance on Highly Erodible Lands," (with K. Giannakas), *Land Economics* 81(1) (2005): 20-33.

"Nonpoint Source Pollution Control under Incomplete and Costly Information," (with Y. H. Farzin) *Environmental and Resource Economics* 28(2004):489-506.

"The Manure Hits the Land: Economic and Environmental Implications for US Agriculture when Land Application of Manure is Constrained," (with R. Johansson and M. Peters) *American Journal of Agricultural Economics* 86(2004): 688-700.

"A Carrot and Stick Approach to Environmental Improvement: Marrying Agri-Environmental Payments and Water Quality Regulations," (with R. Johansson) *Agricultural and Resource Economics Review* 33(2004): 91-104.

"An Information-Theoretical Approach to Budget Constrained Nonpoint Source Pollution Control," (with R. Howitt and Y. H. Farzin) *Journal of Environmental Economics and Management* 46 (2003) 106-130, doi:10.1016/S0095-0696(02)00035-9.

"Estimating Nonpoint Source Pollution: An Application of a Sequential Entropy Filter," (with R. Howitt), *Water Resources Research* 38(3) (2002): 10.1029/2000WR000088.

Other Publications

“Water-Air Tradeoffs at the Farm Level” (with N. Key) in *Managing Manure to Improve Air and Water Quality* Economic Research Report No. 9 (ERR9), Economic Research Service, United States Department of Agriculture, 65 pp, September 2005.

"Multilateral Environmental Agreements and Trade," (with J. Cooper) Chapter 7 in J. Cooper (ed.) *Global Agricultural Policy Reform and Trade Environmental Gains and Losses* March 2005, Edward Elgar, Cheltenham, UK and Northampton, UK. 254 pages.

“National Analysis: Industry Effects of Manure Management,” (with R. Johansson and M. Peters) in *Manure Management for Water Quality: Cost of Land Applying Nutrients from Animal Feeding Operations,* Agricultural Economic Report, Economic Research Service, United States Department of Agriculture, July 2003.

“Proposed Requirements for Manure Nutrient Management: Potential Sector Impacts,” (with R. Johansson and M. Peters), *Agricultural Outlook* 290(April 2002): 21-25.

"Maine's Household Garbage," (with G. Criner, S. Juric, and N. Houtman), Maine Agricultural and Forest Experiment Station, University of Maine, Bulletin 841, February 1994.

Working Papers

“Managing Water Temperature over a Heterogeneous Landscape,” (with R. Howitt, M. Johnson, and J. Viers), Working Paper, Department of Economics, California State University, Sacramento, August 2005.

“Policy-Induced Change in Household Labor: The Case of Water Salinity Management in the Mekong Delta, Vietnam” (with U. Tran) Working Paper, Department of Economics, California State University, Sacramento, August 2005

“An Information-Theoretical Approach to Budget Constrained Nonpoint Source Pollution Control,” (with R. Howitt and Y. H. Farzin) Fondazione Eni Enrico Mattei Working Paper Series, Nota Di Lavoro 31.2001, June 2001.

"Nonpoint Source Pollution Control Under Incomplete and Costly Information," (with Y. H. Farzin), Fondazione Eni Enrico Mattei Working Paper Series, Nota Di Lavoro 32.99 May, 1999.

Proceedings Papers

“Excreta, Excreta, Excreta! Read All About It! Animal Producers Pass New Waste Management Costs onto Consumers and Rural Economies with Mixed Environmental Outcomes,” (with R. Johansson) Proceedings Paper, SERA-IEG 30: Natural Resource Economics Meetings, University of Kentucky, May 15-16, 2003.

“Optimal Fisheries Management in the Presence of An Endangered Predator and Harvestable Prey,” (with M. Smith), Contributing Paper, Proceedings of the International Institute of Fisheries Economics and Trade (IIFET) Conference 2000, Corvallis, Oregon, July 10-14, 2000.

"Economies of Size in Processing Recyclables," (with G. Criner and V. Tchaikovsky), R'99 Recovery, Recycling, Re-Integration Congress Proceedings, Geneva, Switzerland, February 5-8, 1999. Vol. 1, pp. 131-137.

"What Policies Will Determine the Long-Run Success or Failure of Wildlife Management in Southern Africa?" *Proceedings from the Workshop on Cooperative Regional Wildlife Management in Southern Africa*, University of California, Davis, August 13-14, 1998: 97-99.

Presentations

“Policy Design and Conservation Compliance on Highly Erodible Lands,” Workshop on Information Deficiencies in Agri-Environmental Policy, Organization for Economic Cooperation and Development, Paris, France, June 6, 2006.

“Shifting Rice and Shrimp Production Possibilities: The Case of Water Salinity Management in the Mekong Delta, Vietnam,” (with U. Tran) Western Agricultural Economics Association Meeting, San Francisco, CA July 6-8, 2005.

“Information Acquisition and Adaptive Management: The Case of Managing TMDLs under Economic and Environmental Uncertainty,” (with R. Howitt, M. Johnson, and J. Viers) Department of Agricultural and Resource Economics Research Seminar Series, University of California, Davis, Oct. 1, 2004.

“Information Acquisition and Adaptive Management under Economic and Environmental Uncertainty,” (with R. Howitt, M. Johnson, and J. Viers) Department of Economics Seminar Series, California State University, Sacramento, Sept. 29, 2004.

“Managing Land and Water Resources in Coastal Areas: A Case Study of Government Intervention in Bac Lieu Province, Mekong Delta, Vietnam,” (with U. Tran) Department of Economics Seminar Series, California State University, Sacramento, Aug. 23, 2004.

“Managing Water Temperature TMDLs under Economic and Environmental Uncertainty,” (with R. Howitt, M. Johnson, and J. Viers), Selected paper, American Agricultural Economics Association Meeting, Denver, CO, Aug. 1-4, 2004.

“Information Acquisition and Adaptive Management in the Navarro River Watershed,” (with R. Howitt, M. Johnson, and J. Viers), Workshop presentation, Measurement of Economic and Environmental Impacts Workshop held at California State University, Chico, April 23, 2004.

“Designing Water Quality Improvement Programs, the Role of Economics,” presentation at the Sacramento Economic Roundtable, Sept. 25, 2003.

“When the #@\$ Hits the Land: Implications for US Agriculture when Land Application of Manure is Constrained,” (with R. Johansson) Selected paper, American Agricultural Economics Association Meeting, Montreal, Canada July 27-30, 2003.

“Conservation Compliance on Highly Erodible Land: An Empirical Auditing Game,” (with K. Giannakas) Selected paper, American Agricultural Economics Association Meeting, Long Beach, CA, July 28-31, 2002.

“Estimating an Empirical Auditing Game,” (with K. Giannakas) Selected paper, World Congress of Environmental and Resource Economists, Monterey, CA, June 24-27, 2002.

“Improving Water Quality through Nutrient Management Planning: Industry and Environmental Effects,” (with R. Johansson and M. Peters) Selected paper, World Congress of Environmental and Resource Economists, Monterey, CA, June 24-27, 2002.

“Water Quality Protection: The Case of Prevention versus Utilization of Manure Nutrients,” Department of Agricultural Economics, University of Nebraska, Lincoln, Nov. 9, 2001.

“Prevention versus Utilization of Excess Nutrients from Animal Feeding Operations: The Case of Managing Nutrient Uncertainty,” Selected paper, American Agricultural Economics Association Meeting, Chicago, IL, Aug. 5-8, 2001.

“Public Management of Nonpoint Source Pollution: An Application to Redwood Creek,” (with R. Howitt and Y. H. Farzin), Selected paper, American Agricultural Economics Association Meeting, Tampa, FL, July 30-Aug. 2, 2000.

“Perennial Crop Supply Response: An Application of the Sequential Entropy Filter to California Wine Grapes,” (with R. Howitt), Selected paper, American Agricultural Economics Association Meeting, Tampa, FL, July 30-Aug. 2, 2000.

“A Sequential Entropy Filter for Reconstructing Nonpoint Source Pollution Parameters,” (with R. Howitt), Short paper, Fourth Occasional California Workshop on Environmental and Resource Economics, University of California, Santa Barbara, Oct. 16-17, 1998.

“Entropy Filters and Bayesian Estimation: An Application to Nonpoint Source Pollution Control,” Department of Agricultural and Applied Economics, University of Wisconsin, Madison, Sept. 4, 1998.

“Optimal Management of Nonpoint Source Pollution under Incomplete and Costly Information,” (with Y. H. Farzin), Selected paper, American Agricultural Economics Association Meeting, Salt Lake City, UT, Aug. 2-5, 1998.

“Optimal Information Acquisition from Noisy Nonpoint Source Pollution Data,” (with R. Howitt), Selected paper, American Agricultural Economics Association Meeting, Salt Lake City, UT, Aug. 2-5 1998.

“Optimal Information Acquisition in an Ill-Posed World,” (with R. Howitt), Department of Agricultural and Resource Economics, University of California, Davis, May 11, 1998.

“Nonpoint Source Pollution Control under Incomplete and Costly Information,” Department of Agricultural and Resource Economics, University of California, Berkeley, March 4, 1998, and Department of Agricultural and Resource Economics, University of California, Davis, Feb. 25, 1998.

“Maximum Entropy and Efficiency Gains in Nonpoint Source Pollution,” (with R. Howitt), Selected paper, American Agricultural Economics Association Meeting, Toronto, Ontario . July 27-30, 1997

“Nonpoint Source Pollution, Incomplete Information, and Learning: An Entropy Approach,” (with R. Howitt), Selected paper, Western Agricultural Economics Association Meeting, Reno, NV, July 13-16, 1997.

“Costs of Managing Waste: Maine Case Study Results,” Selected paper, Redefining Resources: the Thirteenth Annual New England Resource Recovery Conference and Exposition, Portland, ME. June 13, 1994.

“The Cost of Recycling Maine's Municipal Solid Waste,” Invited paper, First Annual Maine Recyclathon, Bangor, ME. May 4, 1994.

Past Professional Experience

2000 – 2003. Resource Economist, Economic Research Service, United States Department of Agriculture
1999 – 2000. Post Doctorate Research Economist, John Muir Institute for the Environment, University of California, Davis.

1995-1999. Research Assistant, Department of Agricultural and Resource Economics, University of California, Davis.

1996. Summer Intern, Natural Heritage Institute, San Francisco, CA.

1994-1995, Spring 1996. Teaching Assistant, Department of Agricultural and Resource Economics, University of California, Davis.

1995. Summer Intern, University of California Cooperative Extension, Hoopa Valley Indian Reservation, CA.
 1992-1994. Research Assistant, Project for the Study of Utility Regulation and the Environment, Margaret Chase Smith Center for Public Policy, University of Maine.
 1993-1994. Editorial Staff, Maine Policy Review, Margaret Chase Smith Center for Public Policy, University of Maine.
 1993. Teaching Assistant, College of Engineering, University of Maine.
 1992-1993. Research Assistant, Department of Resource Economics and Policy, University of Maine.
 1990-1992. Lab Instructor, Intensive Learning Experience, Mathematics Department, Humboldt State University.

Competitive Grant Awards

Giannini Foundation of Agricultural Economics, Project Title: Pricing Options in California Water Markets: A Laboratory Approach, 2005-2006.

College of Social Sciences and Interdisciplinary Studies, Summer Faculty Research Fellowship, California State University Sacramento, 2005.

College of Social Sciences and Interdisciplinary Studies, Summer Faculty Research Fellowship, California State University Sacramento, 2004.

United States Environmental Protection Agency STAR Dissertation Fellowship, 1997-1999.

Service Agreements

Center for California Studies, California State University, Sacramento. Project Title: Review and Evaluation of “*Underestimation of Supercenter Traffic: Theory & Empirical Evidence*”, Summer 2006.

Delta Mercury Collaborative, Project Title: Economic Analysis of Proposed Methyl and Total Mercury TMDL for the Sacramento San Joaquin Delta Estuary, 2006 - present.

University of California, Davis /State of California SWRCB Water Salinity Project, 2006 - present

Other Awards and Honors

Helios Award, Honorable Mention Research and Policy Contribution, USDA-ERS, 2005
 Gordon A. King Outstanding Dissertation Award, Department of Agricultural and Resource Economics, University of California, Davis, 1999
 Jastro Shields Research Scholarship, University of California, Davis, 1997-98
 Giannini Foundation Fellowship, University of California, Davis 1995
 Jesse M. Carr Fellowship, University of California, Davis 1994-95
 Gail E. Oliver and Ruth M. Oliver Scholarship, University of California, Davis, 1994

Undergraduate Courses Taught

Introduction to Microeconomic Analysis
 Resource Economics
 Economic Research Methods

Graduate Courses Taught

Applied Econometric Analysis
 Cost-Benefit Analysis

Graduate Student Advising

Elizabeth Bessman, 2005 - present
Tajinder Grewel, 2004 - present
Iris Ponsano, 2005 - present
Alan Tran, Completed Spring 2006

Department Service

ASA I Hiring Committee, 2006
Adam Smith Award Committee, 2006
Appointment Committee, 2003 - 2004, 2005 – 2006.
Executive Committee 2005 - present
Graduate Committee, 2003 - present
Human Subjects Committee, 2004 - present (chair 2005-2006)
Undergraduate Advising Committee, 2004 - 2006
Library Liaison, 2004 - present
Undergraduate Economics Student Mentor

College and University Service

Faculty Senate Elections Committee 2006 - present
Faculty Senate Judicial Review Board 2006 - present
Institutional Scholarship Committee, 2005 - 2006
Research and Creative Activity Award Panel Reviewer, 2004, 2006

Community Service

Participating Faculty, Center for Regional Environmental Science and Technology, California State University, Sacramento 2004 - present
Affiliated Fellow, Office of Water Programs, California State University, Sacramento 2006 - present
Affiliated Fellow, Center for California Studies, California State University, Sacramento Summer 2006
Research Fellow, UCDAVIS/SWRCB California Water Salinity Project 2006 - present
Member, Sacramento Economic Roundtable 2003 - present

Professional Affiliations

American Agricultural Economics Association
Association of Environmental and Resource Economists
Western Agricultural Economics Association

Reviewer

Agricultural and Resource Economics Review, Canadian Journal of Agricultural Economics, Environmental and Resource Economics, Environmental Management, Journal of Agricultural and Applied Economics, Journal of Agricultural and Food Industrial Organization, Journal of Environmental Economics and Management, Optimal Control: Applications and Methods, Review of Agricultural Economics, Review of Development Economics, Water Resources Research