

CURRICULUM VITA

1. PERSONAL INFORMATION

Name: Lars J. Olson

Address: Department of Agricultural and Resource Economics
3204 Symons Hall
University of Maryland
College Park, MD 20742-5535

Phone: 301-405-7180

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Email: lolson@arec.umd.edu

www: http://www.arec.umd.edu/People/Faculty/Olson_Lars/index.cfm

Current Rank: Professor, 7/1/98-present (appointed 11/1/93, University of Maryland)
Chair, 8/1/08-present

Education: Ph.D. Economics, Cornell University, Ithaca, N.Y., January, 1988.
M.A. Economics, Cornell University, Ithaca, N.Y., August, 1985.
B.A. Mathematics and Economics (Honors), Eckerd College, St. Petersburg, Florida,
May, 1981.

Employment: Chair, Department of Agricultural and Resource Economics, University of Maryland,
College Park, 2008-present.

Professor, Department of Agricultural and Resource Economics, University of Maryland,
College Park, 1998-present.

Associate Professor, Department of Agricultural and Resource Economics, University of
Maryland, College Park, 1993-1998.

Associate Professor of Resource and Environmental Economics, Department of Soil and
Environmental Sciences, University of California, Riverside, 1992-1993.

Assistant Professor of Resource and Environmental Economics, Department of Soil and
Environmental Sciences, University of California, Riverside, 1988-1992.

Acting Assistant Professor of Resource and Environmental Economics, Department of Soil
and Environmental Sciences, University of California, Riverside, 1986-1987.

2. RESEARCH, SCHOLARLY, AND CREATIVE ACTIVITIES

A. Book Chapters – Invited

Olson, L.J. and S. Roy. 2006. Theory of Stochastic Optimal Economic Growth, in Handbook of
Economic Growth - Volume 1: The Discrete Time Case (ed. by C. Le Van, R. Dana, T. Mitra and K.
Nishimura). Springer. 297-335. (invited survey)

B. Refereed Journal Articles

Pimentel, D., C. Fried, L.J. Olson, S. Schmidt, K. Wagner-Johnson, A. Westman, A. Whelan, K. Foglia, T. Klein, R. Sobin, and A. Bochner. 1984. Environmental and Social Costs of Biomass Energy, *BioScience*, 34: 89-94.

Olson, L.J. 1989. Stochastic Growth with Irreversible Investment, *Journal of Economic Theory*, 47: 101-129.

Olson, L.J. 1990. Multivariate Decision-Making Under Risk Aversion, *Journal of Economic Theory*, 50: 193-203.

Olson, L.J. 1990. Environmental Preservation With Production, *Journal of Environmental Economics and Management*, 18: 88-96.

Olson, L.J. 1990. The Search for a Safe Environment: The Economics of Screening and Regulating Environmental Hazards, *Journal of Environmental Economics and Management*, 19: 1-18.

Nyarko, Y. and L.J. Olson. 1991. Stochastic Dynamic Models with Stock-Dependent Rewards, *Journal of Economic Theory*, 55, 161-168.

Dow, Jr., J.P. and L.J. Olson. 1991. An Analytic Solution to a Stochastic Consumption/Saving Problem with Liquidity Constraints, *Southern Economic Journal*, 58: 459-464.

Conrad, J.M. and L.J. Olson. 1992. The Economics of a Stock Pollutant: Aldicarb on Long Island, *Environmental and Resource Economics*, 2, 245-258.

Dow, Jr., J.P. and L.J. Olson. 1992. Irreversibility and the Behavior of Aggregate Stochastic Growth Models, *Journal of Economic Dynamics and Control*, 16, 207-223.

Nyarko, Y. and L.J. Olson. 1994. Stochastic Growth when Utility Depends on Both Consumption and the Stock Level, *Economic Theory*, 4, 791-797.

Knapp, K.C. and L.J. Olson. 1995. The Economics of Conjunctive Groundwater Management with Stochastic Surface Supplies, *Journal of Environmental Economics and Management*, 28(3), 340-356.

reprinted in: Grafton, R.Q. 2009. The Economics of Water Resources (International Library of Critical Writings in Economics), Cheltenham, Edward Elgar.

Nyarko, Y. and L.J. Olson. 1996. Optimal Growth with Unobservable Resources and Learning, *Journal of Economic Behavior and Organization*, 29, 465-491.

Olson, L.J. and S. Roy. 1996. On Conservation of Renewable Resources with Stock-Dependent Return and Non-Concave Production, *Journal of Economic Theory*, 70(1), 133-157.

Knapp, K.C. and L.J. Olson. 1996. Dynamic Resource Management: Intertemporal Substitution and Risk Aversion, *American Journal of Agricultural Economics*, 78(November), 1004-1014.

Olson, L.J. 1996. Dynamic Economic Models with Uncertainty and Irreversibility: Methods and Applications, *Nonlinear World*, 3, 757-770.

Olson, L.J. and K.C. Knapp. 1997. Exhaustible Resource Allocation in an Overlapping Generations Economy, *Journal of Environmental Economics and Management*, 32(3), 277-292.

Olson, L.J. and S. Roy. 2000. Dynamic Efficiency of Conservation of Renewable Resources Under Uncertainty, *Journal of Economic Theory*, 95(2), 186-214.

Larson, C.E., L.J. Olson and S. Sharma. 2001. Optimal Inventory Policies when the Distribution of Demand is Not Known, *Journal of Economic Theory*, 101, 381-300.

Olson, L.J. and S. Roy. 2002. The Economics of Controlling a Stochastic Biological Invasion, *American Journal of Agricultural Economics (Proceedings)*, 84(5), 1311-1316.

Just, R.E., S. Netanyahu and L.J. Olson. 2005. Depletion of Natural Resources, Technological Uncertainty, and the Adoption of Technological Substitutes. *Resource and Energy Economics*, 27(2), 91-108.

Bramoulle, Y. and L.J. Olson. 2005. Allocation of Pollution Abatement Under Learning by Doing. *Journal of Public Economics*, 89(9-10), 1935-1960.

Olson, L.J. and S. Roy. 2005. On Prevention and Control of an Uncertain Biological Invasion, *Review of Agricultural Economics (Proceedings)*, 27(3), 491-497.

Olson, L.J. 2006. The Economics of Terrestrial Invasive Species: A Review of the Literature. *Agricultural and Resource Economics Review*, 35(1), 178-194.

Olson, L.J. and S. Roy. 2008. Controlling a Biological Invasion: A Non-Classical Dynamic Economic Model, *Economic Theory*, 36(3), 453-469. Available online at:<http://www.springerlink.com/content/g3r5380ph570111v/fulltext.pdf>.

Olson, L.J. and S. Roy. 2010. Dynamic Sanitary and Phytosanitary Policy, *Journal of Environmental Economics and Management* (60)1, 21-30. Available online at: <http://dx.doi.org/10.1016/j.jeem.2010.02.002>

C. Talks, Papers Presented, and Papers in Conference Proceedings

i. Invited Conference Presentations

"Some Economic Aspects of Risk Assessment," Symposium on Pesticides and Other Toxics: Assessing Their Risk, UC-Riverside, June 17, 1989.

"Dynamic Economic Models with Irreversibility and Uncertainty: Methods and Applications," 1st World Congress of Nonlinear Analysts, Tampa, August 19, 1992.

"Economic Considerations and the Use of Ancillary Data in Carcinogen Risk Assessment," 1992 Annual Meeting of the Society for Risk Analysis, San Diego, December 8, 1992.

"Groundwater Management and the Future of Irrigated Agriculture," World Affairs Conference at University of Nebraska, Kearney, October 9, 1994.

"Dynamic Efficiency of Conservation of Renewable Resources Under Uncertainty," Colloquium on Natural Resources and Environmental Economics, Université Laval, Laval, Quebec, November 8, 1997.

"Depletion of Natural Resources, Technological Uncertainty, and the Adoption of Technological Substitutes," Conference on Technological and Environmental Major Risks, CIRANO, Montreal, QC, Canada, November 13, 1998.

"Randomly Introduced Biological Invasions: The Economics of Prevention and Control," Program for Research on the Economics of Invasive Species Management Review and Workshop, Washington, DC, August 19, 2004.

"On Prevention and Control of an Uncertain Biological Invasion," ASSA Meetings, Philadelphia, January 8, 2005.

"International Trade and the Economics of Invasive Species Prevention and Control," Program for Research on the Economics of Invasive Species Management Review and Workshop, Economic Research Service, USDA, Washington, DC, October 20, 2005,

"Economic Aspects of Prevention versus Control of Nonnative Weeds Under Uncertainty," 2006 Annual Conference of the Western Society of Weed Science, Reno, Nevada, March 15, 2006.

"Policy Instruments for Prevention of Invasive Species in Strategic International Trade Relationships," Program for Research on the Economics of Invasive Species Management Review and Workshop, Economic Research Service, USDA, Washington, DC, October 19, 2006.

"Economics, Sanitary and Phytosanitary Policy and Transparency," USDA Economic Research Service Workshop on Improving Transparency of Nontariff Measures in Food and Agricultural Trade, Washington, DC, November 19, 2010.

"Trends and Factors that Influence Pest Interception Rates in Wood Packing Materials," 22nd USDA Interagency Research Forum on Invasive Species, Annapolis, MD, January 12, 2011.

ii. Invited Seminars

"Choice Over Risky Prospects As Choice Over Induced Distributions on Utility: A Unified Approach to Stochastic Dominance," UC-Riverside, Graduate School of Management, November, 1987.

"Multivariate Decision-Making Under Risk Aversion," UCLA, Dept. Of Economics, June, 1988.

"The Economics of Screening and Regulating Potential Carcinogens," UC-Riverside, Dept. of Soil and Environmental Sciences, April 13, 1989.

"Stochastic Dynamic Resource Models with Stock-Dependent Rewards," UC-Riverside, Graduate School of Management, Feb. 23, 1990.

"Optimal Resource Management with Unobservable Resources and Learning," California Institute of Technology, Department of Economics, October 30, 1990.

"Statistical Decision Theory and Bayesian Models of Economic Decision-Making Under Uncertainty with Applications," UC-Riverside, Department of Statistics, February 5, 1991.

"Optimal Growth with Unobservable Resources and Learning," University of Illinois, Department of Economics, October 17, 1991.

"Optimal Growth with Unobservable Resources and Learning," Purdue University, Department of Agricultural Economics, October 18, 1991.

"Optimal Inventory Policies when the Distribution of Demand is Not Known," UC-Riverside, Department of Economics, October 24, 1991.

"Economic and Information Considerations Regarding the Use of Ancillary Data in Carcinogen Risk Assessment," Institute for Environmental Studies, University of Washington, March 8, 1993.

"Exhaustible Resource Allocation in an Overlapping Generations Model," Department of Economics, University of Washington, March 9, 1993.

"Exhaustible Resource Allocation in an Overlapping Generations Model," Tinbergen Institute, Rotterdam, May 20, 1994.

"The Economics of Resource Conservation and Extinction," Department of Economics, University of Guelph, August 26, 1996.

"On the Economics of Renewable Resource Management Under Uncertainty," Tinbergen Institute, Rotterdam, September 15, 1997.

"Dynamic Efficiency of Conservation of Renewable Resources Under Uncertainty," Department of Economics, University of Michigan, October 17, 1997.

"Incentive Contracts for Intertemporal Allocation with Independently Distributed Private Information," Department of Economics, University of Michigan, December 10, 1999.

"Dynamic Efficiency of Conservation of Renewable Resources Under Uncertainty," University Graduate Faculty of Economics, Oregon State University, May 12, 2000.

"The Economics of Controlling a Biological Invasion," Resources for the Future, June 16, 2003.

"Controlling a Biological Invasion: A Non-classical Dynamic Economic Model" Université Laval, Laval, Quebec, April 15, 2005.

iii. Contributed Conference Presentations

"The Search for Environmental Quality: The Economics of Screening and Regulating Environmental Hazards," 1989 Western Economics Association International Annual Conference, Lake Tahoe, California, June 20, 1989.

"Stochastic Dynamic Resource Models with Stock-Dependent Rewards," 6th World Congress of the Econometric Society, Barcelona, Spain, August 27, 1990.

"Optimal Resource Management with Unobservable Resources and Learning," 3rd Interdisciplinary Conference on Natural Resource Modeling, Ithaca, NY, October 13, 1990.

"Exhaustible Resource Allocation in an Overlapping Generations Model," Annual Meeting of the Allied Social Science Associations, New Orleans, January 3, 1992.

"The Economics of Conjunctive Groundwater Management with Stochastic Surface Supplies," 11th Pacific Coast Resource Modeling Conference, Berkeley, June 4, 1992.

"Optimal Growth with Unobservable Resources and Learning," Summer Meeting of the Econometric Society, Seattle, June 25, 1992.

"Dynamic Economic Models with Uncertainty and Irreversibility: Methods and Applications," 1st World Congress of Nonlinear Analysts, Tampa, August 19, 1992.

"Exhaustible Resource Allocation in an Overlapping Generations Model," 2nd Annual Meeting of the Canadian Resource and Environmental Economics Study Group, September 27, 1992.

"Exhaustible Resource Allocation in an Overlapping Generations Model," California Workshop on Environmental and Resource Economics, Santa Barbara, May 8, 1993.

"The Economics of Conjunctive Groundwater Use Under Uncertainty," 1994 Annual Meetings of the Western Economic Association, Vancouver, July 2, 1994.

"Water Quality and Irreversibility," 1997 Meeting of the International Water and Resource Economics Consortium, Annapolis, Maryland, April 14, 1997.

"Dynamic Efficiency of Conservation of Renewable Resources Under Uncertainty," 1998 Winter Meetings of the Econometric Society, Chicago, January 4, 1998.

"The Economics of Controlling a Stochastic Biological Invasion," 2002 Annual Meetings of the American Agricultural Economics Association, Long Beach, July 30, 2002.

"The Economics of Controlling a Biological Invasion," 2002 Meetings of the Canadian Resource and Environmental Economics Study Group, Montreal, Canada, October 19, 2002.

"The Economics of Controlling a Biological Invasion," Scientific Conference on International and Development Economics in Honor of Henry Y. Wan, Jr., Cornell University, September 7, 2003.

"Dynamic Sanitary and Phytosanitary Trade Policy," 4th World Congress of Environmental and Resource Economists, Montreal, Canada, July 2, 2010.

iv. Papers in Unrefereed Conference Proceedings

Olson, L.J. 1985. A Dynamic Model of the Atlantic Salmon Fisheries Under Distant and Home Water Harvesting, Proceedings of the 1985 International Conference of the System Dynamics Society, Volume II, July, 1985, 641-650.

Olson, L.J. 1990. Some Economic Aspects of Risk Assessment, in Proceedings of a Symposium on Pesticides and Other Toxics: Assessing Their Risk, (Janet L. White, ed.), College of Natural and Agricultural Sciences, University of California, Riverside, 109-119.

Just, R.E., L.J. Olson, and S. Netanyahu. 1996. Resource Depletion, Technological Uncertainty and Adoption of Improved Technology: The Case of Desalination, in Security and Sustainability in a Mature Water Economy: A Global Perspective, Water and Resource Economics Consortium, Proceedings of an International Workshop, University of Melbourne, (J.J. Pigram, ed.), University of New England, Centre for Water Policy Research, Armidale, Australia.

Lichtenberg, E. and L.J. Olson. 1998. Noncooperative and Cooperative Management of an Accumulative Water Pollutant, in Conflict and Cooperation on Trans-Boundary Water Resources, (R.E. Just and S. Netanyahu, eds.), Kluwer Academic Publishers, Norwell.

v. Other Presentations

"Policy Instruments for Prevention of Invasive Species in Strategic International Trade Relationships," 2005 Program for Research on the Economics of Invasive Species Management Organizational Meeting, Economic Research Service, USDA, Washington, DC, October 19, 2005.

"The Value of Systematics and Identification Services in Facilitating International Trade," Federal Interagency Committee on Invasive Terrestrial Animals and Pathogens, Washington, DC, October 13, 2010.

C. Grants

3 grants totaling \$1,938. University of California-Riverside Academic Senate. Field Research Travel.

1 grant, \$980. University of California-Riverside Academic Senate. Intramural Research.

1987-1989. \$230,000. University of California Toxic Substances Program. "UC Riverside Carcinogen Risk Assessment." (co-P.I., with C. Cranor, C. Byus, A. Chang, and D.V. Gokhale)

1988-1989. \$1,400. University of California-Riverside Regents' Faculty Fellowship. "Fishery Regulation Under Incomplete Stock Information." (P.I.)

1990-1991. \$12,633. Giannini Foundation. "Economics and the Control of Agricultural Groundwater Contaminants." (P.I.)

1990-1993. \$71,660. National Science Foundation. "Evidentiary Procedures for Carcinogen Risk Assessment," (co-P.I., with C. Cranor, C. Byus, A. Chang, and D.V. Gokhale).

1991-1993. \$31,010. UC Water Resources Center. "Economics of Groundwater Management with Uncertainty and Learning," (P.I., with K.C. Knapp).

1996. University of Maryland, Graduate Research Board Summer Research Award. "The Economics of Resource Conservation and Extinction." (\$7250, declined, superseded by NSF grant)

1996-1998. \$71,344. National Science Foundation. "The Economics of Conservation, Extinction, and Sustainability." (P.I.)

2001. \$8,500. University of Maryland, Graduate Research Board Summer Research Award. "The Economics of Controlling a Biological Invasion."

2001. \$24,313. Maryland Agricultural Experiment Station Competitive Grant. "The Economics of Controlling Invasive Species in Maryland."

2001. \$26,505. U.S. Department of Commerce. NOAA. National Marine Fisheries Service. "Analysis of Marine Anglers' Expenditure Data."

2003-2006. \$119,000. USDA, Economic Research Service, PREISM. "Randomly Introduced Biological Invasions: The Economics of Prevention and Control" (with Santanu Roy).

2005-2008. \$347,240. USDA, Beltsville Agricultural Research Center. "The Economic Value of the Beltsville Agricultural Research Center's Systematics Program" (with Erik Lichtenberg).

2005-2009. \$157,000. USDA, Economic Research Service, PREISM. "Policy Instruments for Prevention of Invasive Species in Strategic International Trade Relationships" (with Santanu Roy).

2008-2010. \$64,164. U.S. Department of Commerce. NOAA. National Marine Fisheries Service - Sea Grant Marine Resource Economics Graduate Fellowship. "Economics and Fisheries Policy for Multi-species Fisheries with Biological and Technological Interdependence" (with Steve Kasperski).

2008-2010. \$172,000. USDA, Economic Research Service, PREISM. "Risk Factors for Invasive Pest Introductions in Commodity Imports" (with Erik Lichtenberg).

2010-2011. \$29, 529. Robust Analytics. "Economic Resilience Modeling."

D. Fellowships, Prizes, or Awards

National Science Foundation Graduate Fellow, 1981-1983, 1984-1985.

A.D. White Graduate Fellowship, Cornell University, 1981-1983, 1984-1985.

Philip Lee Honor Award for Outstanding Scholarly Achievement, Eckerd College, 1981.

Stanley Zyzniewski Undergraduate Prize, Southern Conference on Slavic Studies, 1979.

E. Editorships, Editorial Boards, and Refereeing Activities

i. Editorships and Editorial Boards

Associate Editor, *Journal of Environmental Economics and Management*, 1996-1999.

Editorial Council, *Journal of Environmental Economics and Management*, 1994-1995, 2001-2004.

ii. Journal Refereeing

Agricultural and Resource Economics Review
American Economic Review
American Journal of Agricultural Economics
Annals of Regional Science
Australian Journal of Agricultural and Resource Economics
California Agriculture
Canadian Journal of Economics
Choices
Contemporary Policy Issues
Ecological Economics
Econometrica
Economic Theory
Environmental and Resource Economics
European Economic Review
European Review of Agricultural Economics
Finnish Economic Papers
International Economic Journal
International Economic Review
Journal of Agricultural and Resource Economics
Journal of Agricultural, Biological and Environmental Statistics
Journal of Applied Ecology
Journal of Applied Econometrics
Journal of Economic Dynamics and Control
Journal of Economic Theory
Journal of Environmental Economics and Management
Journal of Futures Markets
Journal of Political Economy
Journal of Population Ecology
Journal of Public Economics
Journal of the American Statistical Association
Natural Resource Modeling
Resource and Energy Economics
Scandinavian Journal of Economics
Southern Economic Journal
Water Resources Research

Refereeing 2010:

Economic Theory (1)

iii. Book Referee

McGraw Hill Publishers, 1995.

McGraw Hill Publishers, 1992.

iv. Discussant

AERE session of ASSA meetings, 1989.

F. Visiting Positions

Visiting Fellow, Department of Agricultural Economics, Cornell University, Summer, 1991.

Visiting Fellow, Tinbergen Institute, Rotterdam, May, 1994.

Visiting Fellow, Tinbergen Institute, Rotterdam, September, 1997.

Visiting Lecturer, Natural Resource and Environmental Economics, Finnish Postgraduate Programme in Economics, Helsinki, August, 1998.

Visiting Research Scholar, IMF Institute, February 2002, March, April 2003.

3. TEACHING

A. Courses Taught

1993-1994

AREC753, 6 students

AREC432, 21 students

1994-1995

ECON785, 9 students

AREC332, 42 students (taught jointly with Professor Erik Lichtenberg)

1995-1996

ECON785, 12 students

1996-1997

ECON785, 9 students

AREC240, 56 students

1997-1998

ECON785, 9 students

AREC240, 52 students

1998-1999

ECON785, 7 students

AREC240, 58 students

1999-2000

ECON785, 7 students

AREC240, 52 students

2000-2001

ECON785, 8 students

AREC240, 58 students

2001-2002

ECON785, 6 students

AREC240, 54 students

2002-2003
ECON785, 9 students

2003-2004
AREC250, 54 students
AREC620, 13 students

2004-2005
AREC250, 56 students
AREC620, 12 students

2005-2006
AREC250, 56 students
AREC620, 12 students

2006-2007
AREC250, 58 students
AREC620, 15 students

2007-2008
AREC250, 63 students
AREC620, 14 students

2008-2009
AREC620, 15 students

2009-2010
AREC620, 10 students

2010-2011
AREC620, 9 students

B. Supervision of Graduate Research

i. Principal Advisor

<u>Name</u>	<u>Degree</u>	<u>Completion Date</u>	<u>Placement/Current Position (if different)</u>
Ellen Post	Ph.D.	1995	Abt Associates
Oh Sang Kwon	Ph.D.	1996	Seoul National University
Tulika Narayan	Ph.D.	2002	Abt Associates
Hojeong Park	Ph.D.	2003	Korea Energy Economics Institute / Chonnam National University, Korea
Oscar Cristi	Ph.D.	2006	Universidad del Desarrollo, Chile
Nancy Bergeron	Ph.D.	2007	Conference Board of Canada / Transport Canada
Chad Lawley (co-advisor with Erik Lichtenberg)	Ph.D.	2009	University of Manitoba

Jorge Holzer	Ph.D.	2010	
(co-advisor with Ted McConnell)			
Michele Baggio	Ph.D.	in progress	ETH Zurich
(co-advisor with Erik Lichtenberg)			
Steve Kasperski	Ph.D.	in progress	
(co-advisor with Richard Just)			

ii. Ph.D. Dissertation Committee Member

<u>Name</u>	<u>Department</u>	<u>Examination Date</u>
Hooshang Talebi-Habibabadi	Department of Statistics, UC Riverside (Dean's representative)	
Fritz Laux	Economics (Dean's representative)	July 2, 1997
Rob Hicks	AREC	1997
Brian Roe	AREC	1997
Andrew Sunil Rajkumar	Economics (Dean's representative)	October 26, 2000
Rania Al Mashat	Economics (Dean's representative)	February 7, 2001
Claudia Ocana	AREC	November 16, 2001
Craig Landry	AREC	January 23, 2004
Conrad Choiniere	AREC	May 17, 2004
Cristian Pardo	Economics (Dean's representative)	July 7, 2005
Gregmar Galinato	AREC	August 10, 2006
Casey Delhotal	Public Policy (Dean's representative)	November 13, 2007
Oscar Melo	AREC	December 7, 2007
Paramita Sinha	AREC	July 11, 2008
Lucija Muehlenbachs	AREC	October 29, 2009
Anmol Ratan	AREC	January 20, 2010
Niti Bhutani	AREC	April 14, 2010

iii. Ph.D. Dissertation Prospectus Committee

<u>Name</u>	<u>Date of Prospectus Exam</u>
Ellen Post	February 18, 1994
Oh Sang Kwon	December 12, 1994
Sinaia Netanyahu	June 19, 1996
Pam Dunn	December 12, 1996
Siddhartha Mitra	December 12, 1996
Elena Irwin	April 24, 1997
Claudia Ocana	May 2, 1997
John Curtis	May 8, 1997
Tim Thomas	July 14, 1997
Ana Maria Ibanez	August 14, 1997
Jin Kyo Suh	December 22, 1997
Javier Cuervo	March 6, 1998
Lars Anwandter	September 18, 1998
Camilo Sarmiento	February 5, 1999
Oscar Cristi	March 2, 1999

Nancy Bergeron	March 31, 1999
Fabrizio Bresciani	October 29, 1999
Tulika Narayan	March 31, 2000
Gustavo Anriquez	May 24, 2000
Oscar Melo	August 30, 2001
Craig Landry	April 18, 2002
Hojeong Park	February 19, 2002
Gregmar Galinato	December 6, 2004
Andres Ulloa	December 21, 2004
Chad Lawley	October 30, 2007
Michele Baggio	April 30, 2008
Stephen Kasperski	December 8, 2008
Jorge Holzer	May 21, 2009

iv. M.S. Thesis Committee Member

<u>Name</u>	<u>Degree</u>	<u>Examination Date</u>
Tony Penn	M.S.	February 20, 1997
Dongquon Shen	M.S.	October 19, 2009

v. External Ph.D. Examiner

Margaret Forsyth, Department of Economics, University of Guelph, Canada, 1996.
Hassan Bencheekroun, Department of Economics, University of Laval, Canada, April 24, 1998.
Paul de Hek, Tinbergen Institute, Erasmus University, Rotterdam, Netherlands, December 11, 1998.

4. SERVICE

A. Professional

i. Grant Review Panels

UC Toxic Substances Program, 1992, review panel chair.
Maryland Department of Natural Resources, 1994.

ii. Other Grant Reviewing

UC Water Resources Center, 1990.
National Sea Grant College Program, 1992.
Binational Agricultural Research and Development Fund (BARD), 1995.
Social Sciences and Humanities Research Council of Canada (SSHRC), 1997, 2005.
National Institutes for Water Resources/USGS National Competitive Grant Program, 2002.
USDA, ERS, Program of Research on the Economics of Invasive Species Management, 2008.

iii. Service to Local, State and Federal Agencies

Member, Maryland Nutria Panel, 2002-2003 (Interagency advisory panel on Nutria control: US Fish and Wildlife Service, Maryland Dept. of Natural Resources, APHIS)

Invited Participant, Environmental Protection Agency Workshop on Economic Impacts of Aquatic Invasive Species, Washington, D.C., July 20-21, 2005.

Discussant, Environmental Protection Agency Workshop on Valuation for Environmental Policy: Session III, Invasive Species, Arlington, VA, April 23, 2007.

B. University

i. Departmental

University of California, Riverside

Member, Social committee, 1986-1987.

Member, Graduate Economics Group, core curriculum committee, 1987-1988.

Chair, Social committee, 1987-1988.

Member, Resource economics faculty search committee, 1988-1989.

Member, Graduate School of Management faculty search committee, 1988-1989.

Library liaison, 1988-1993.

Member, Resource economics faculty search committee, 1989-1990.

Member, Equipment committee, 1989-1990.

Member, Graduate School of Management faculty search committee, 1989-1990.

Member, Department of Economics faculty search committee, 1989-1990.

Member, Staff personnel committee, 1990-1992.

Member, Environmental science graduate program development committee, 1990-1992.

Chair, Staff personnel committee, 1992-1993.

Member, T.A. planning committee, 1992-1993.

University of Maryland

i. Department

Library liaison to UMCP libraries, 1994-2000.

Chair, Library Committee, 1994-1995.

Member, Recruitment Committee, 1994-1995.

Member, Undergraduate Committee and Undergraduate Advisor, July 1998-July 1999.

Chair, Department Chair Search Committee, 2000.

Chair, Faculty Advisory Committee, July 1999-June 2000.

Member, Faculty Advisory Committee, July 1997-June 2000.

Chair, Graduate Qualifying Examination Committee, 2000.

Member, Food Safety Faculty Search Committee, 1998-2000.

Member, Graduate Qualifying Examination Committee, 1997-2000.

Director of Graduate Studies, July 1997-June 1998, July 2001-June 2002.

Member, Assistantship Committee, July 1997-June 1998, July 2001-June 2002.

Member, Teaching Coordination Committee, July 1997-June 1998, July 2001-June 2002.

Member, Department of Economics Field Examination Committee (Environmental and Natural Resource Economics), 1995-2003.

Chair, Computer Oversight Committee, July 2000-June 2002.

Member, Computer Oversight Committee, July 1998-June 2002.

Member, Graduate Committee, July 1995-June 1998, July 2000-June 2002.

Member, Undergraduate Committee, July 2003-June 2005..

Member, Graduate Qualifying Examination Committee, 2004, 2005,2006.

Member, Faculty Search Committee, 2005-2006, 2006-2007, 2007-2008.

Member, Graduate Committee, 2006-2008.

Department Chair, 2008-present.

ii. College

Member, Faculty and Staff Awards Committee, 1999.

Chair, Programs, Curricula and Courses (PCC) Committee, July 1999-June 2000.

Member, Programs, Curricula and Courses (PCC) Committee, 1997-2000.

Member, Associate Dean Review Committee, 2000.

Chair, College. Appointment, Promotion and Tenure (APT) Committee, 2005-2006.

Member, College. Appointment, Promotion and Tenure (APT) Committee, 2004-2006.

iii. Campus or University

University of California, Riverside

Chair, Ad hoc tenure review committee, 1993.

University of Maryland

Climate Action Plan Workgroup, 2007 – 2009

Global Studies Minor Committee, 2010

I-Series Course Committee, 2010

Other

Representative, UC Toxic Substances Program Executive Committee Meeting, May 4, 1990.

C. Professional Memberships

American Agricultural Economics Association, 2002-present.

American Economic Association, 1985-present.

Association of Environmental and Resource Economists, 1987-present.

Econometric Society, 1990-2003, 2008.

Society for the Promotion of Economic Theory, 1992-2003.

Society for the Advancement of Economic Theory, 1995-2000.

Resource Modeling Association, 1986-1994.

Resource Policy Consortium, 1992-1996.

Western Economic Association, 1989-1994.