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CURRICULUM VITAE

Name Larry S. Karp

Title Professor (University of California at Berkeley)

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Education

University of California at Berkeley	B.A.	1978	Economics
University of California, Davis	Ph.D.	1982	Agricultural Economics

Teaching

Graduate: International Trade and Policy, Dynamic Analysis, Industrial Organization.

Undergraduate: International Trade, Econometrics, Natural Resources.

Research Interests

Environmental and Resource Economics, Trade Policy, Industrial Organization.

Faculty Positions

1995–	Professor of Agricultural and Resource Economics, University of California, Berkeley.
1990–1995	Associate Professor of Agricultural and Resource Economics, University of California, Berkeley.
1990–1992	Lecturer, then Reader in Economics, University of Southampton, while on leave from UC Berkeley.
1989	Visiting Fellow, Churchill College, University of Cambridge.
1984–1989	Assistant Professor of Agricultural and Resource Economics, University of California,

Berkeley.

- 1982–1984 Assistant Professor of Agricultural Economics, Texas A&M University, College Station, Texas.
- 1979–1981 Teaching Assistant at the University of California, Davis.

Other Positions

- 1988–1996 Associate Editor, *Journal of Economic Dynamics and Control*
- 1990–1998 Research Fellow, Centre for Economic Policy Research, London
- 1996– Editorial Board, *Review of International Economics*
- 1997–2000 Editorial Board, *American Journal of Agricultural Economics*
- 2000– Associate Editor, *Journal of Economic Dynamics and Control*
- 2001–2004 Co-Editor, *Journal of Environmental Economics and Management*

Additional Teaching

EAERE-FEEM Summer School, Venice, One week course in Dynamic Methods, July 2004.

University of Texas, Austin, Two week course on Dynamic Methods in Resource Economics, Spring 2004.

University of Concepcion, Chile. One week course on Dynamic Games (taught in Spanish), April 1999.

University of Southampton. Two week courses on International Trade, 1996, 1997, 1999 - 2010. Two week course on Dynamic Optimization, 1998.

Aarhus University. Two week workshop on Dynamic Analysis and Dynamic Games. June 1996.

Languages and Foreign Experience

Spanish (nearly fluent); Portuguese (conversational level). Lived and traveled throughout Latin America, September 1974–June 1977. Visited Poland, Spring 1991, and visited Poland and Czechoslovakia, Spring 1992, to conduct research on transformation of agricultural sector.

Awards

Winner (jointly with David Newbery) of 1992 Harry Johnson Award for Best Journal Article, by *Canadian Economics Association*.

Winner (jointly with Jinhua Zhao) of 2008 research paper competition “Harvard Project on International Climate Agreements”: “A proposal for the design of the successor to the Kyoto Protocol”

Fellow, Association of Agricultural and Applied Economics 2008

Consulting

(2008) Deposed as expert witness on value of groundwater
(2007) Deposed as expert witness on case involving patents in pharmaceutical industry.
(2004) Testified as expert witness in Superior Court of State of California on value of groundwater and cost of disposal of waste water.
Assisted testifying expert in private patent dispute involving pharmaceuticals.
(2003) Prepared expert report for class certification and estimation of damages to indirect purchasers in vitamin anti-trust case.
Consulted with State Attorneys General in estimating damages to consumers resulting from pharmaceutical anti-trust.
(2002) Consulted with State Attorneys General in estimating damages to consumers resulting from pharmaceutical anti-trust.
Consulted with State of California Attorney General's office concerning suspected anti-trust behavior by wholesale distributor.
(1998) Consulted with American Express on estimation of the incidence of credit card fraud.
(1994) Consulted with USDA regarding Central and East European agricultural transformation.
(1991) Deposed as expert witness for litigation on market share in pharmaceutical case.

Publications

Books:

Perloff, Jeffrey, Larry Karp, and Amos Golan **Estimating Market Power and Strategies**, Cambridge University Press, 2008.

Karp, Larry **Natural Resources as Capital**, MIT Press, 2017.

Karp, Larry **Lecture Notes for International Trade**, World Scientific Publishing Company, 2021.

Book Chapters

1. Karp, Larry S., and Arthur Havenner. "Towards the Resurrection of Macro-Economic Policies." In *Applied Decision Analysis and Economic Behavior*, edited by Andy Hughes Hallet. Boston and The Hague: Klauer and Nijhoff Publishing Co., 1984.
2. Karp, Larry S. "Suggestions for a Research Agenda in Modeling Trade Policy." In *International Agricultural Trade Research Consortium: Agricultural Trade Modeling, the State of Practice and Research Issues*, edited by Karen Liu and Ralph Seeley. U.S. Department of Agriculture, Economic Research Service, International Economics Division, Staff Report No. AGE861215, December 1985, pp. 117-127.
3. Karp, Larry S. "Nash Equilibrium Tariffs in a Dynamic Stochastic Game: An Application to U.S. and EC Strategic Decisions." In *Agriculture and Economic Instability*, edited by M. Bellamy and B. Greenshields. Aldershot, Hants, England: Gower Publishing, 1987,

pp. 334-337.

4. Beghin, John C., and Larry S. Karp. "Do Nonagricultural Distortions Justify the Protection of U.S. Agriculture?" In *Government Intervention in Agriculture*, edited by M. Bellamy and B. Greenshields. Aldershot, England: Dartmouth Publishing Company, 1989, pp. 189-196.
5. Karp, Larry S. "Monopsony Power and the Period of Commitment in Nonrenewable Resource Markets." In *Commodity, Futures and Financial Markets*, edited by L. Philips. The Netherlands: Kluwer Academic Publishers, 1991.
6. Karp, Larry S. "Dynamic Hedging." In *The New Palgrave Dictionary of Money and Finance*, edited by P. Newman, M. Milgate, J. Eatwell. United Kingdom: The Macmillan Press Limited, Vol. 1, 1992, pp. 710-712.
7. Karp, Larry S., and Jeffrey M. Perloff. "The Long Run Value of Inflexibility." In *Trade Flows and Trade Policy After '1992,'* edited by L. Alan Winters. United Kingdom: Cambridge University Press, 1992, pp. 213-231.
8. Karp, Larry S., and Spiro Stefanou. "Transforming Eastern European Agriculture." In *Eastern European Agriculture: Problems, Goals and Perspectives*, 27th EAAE Seminar, edited by L. Kabat et al. European Association of Agricultural Economists, Nitra, Czechoslovakia, 1992, pp. 17-21.
9. Karp, Larry S., and Jeffrey M. Perloff. "Dynamic Models of Oligopoly in Agricultural Export Markets." In *Competitive Strategy Analysis in the Food System*, edited by Ronald W. Cotterill. Boulder, Colorado and Oxford, United Kingdom: Westview Press, Inc., 1993, pp. 113-134.
10. Karp, Larry S., and David M. Newbery. "Intertemporal Consistency Issues in Depletable Resources." In *Handbook of Natural Resources, Vol. III*, edited by Allen Kneese and James Sweeney. North Holland, New York, 1993, pp. 881-930.
11. Karp, Larry S., and Spiro Stefanou. "Agricultural Trade and Policy for Central and East Europe." In *Agricultural Trade Conflicts and GATT: New Dimensions in U.S.-European Agricultural Trade Relations*, edited by Giovanni Anania, Colin A. Carter and Alex F. McCalla. Westview Press, Chapter 14, 1994, pp. 365-385.
12. Karp, Larry S., and S. Stefanou. "Credit Subsidies to Support Agriculture." In *Privatization of Agriculture in New Market Economies: Lessons from Bulgaria*, edited by Andrew Schmitz, Kirby Moulton, Alan Buckwell and Sofia Davidova. Kluwer Academic Publishers, MA, 1994, pp. 403-418.
13. Karp, Larry S., and Jeffrey M. Perloff. "Dynamic Models of Oligopoly on International Rice and Coffee Markets." In *Agricultural Markets: Mechanisms, Failures and Regulations*, edited by D. Martimort. Elsevier Science B.V., Amsterdam, The Netherlands, 1996, pp. 171-204.

14. Karp, Larry S. "Is Strategic Trade Policy Practical?" In *Global Markets for Processed Foods: Theoretical and Practical Issues*, edited by D. Pick, D. Henderdon, J. Kinsey, and I. Sheldon. Boulder, Colorado: Westview Press, 1998, pp. 55–74.
15. Karp, Larry S., and Sandeep Sacheti. "Implications of North-South Trade for Natural Resource Depletion and Environmental Degradation." In *Handbook on the Globalization of the World Economy*, edited by A. Levy-Livemore. Aldershot, England: Edward Elgar Publishing Ltd., 1998, pp. 702-733.
16. Karp, Larry S., and Jeffrey M. Perloff. "A Synthesis of Agricultural Trade Economics." *Handbook of Agricultural Economics*, Elsevier, edited by B. Gardner and G. Rausser, Vol.2, 2002.
17. Karp, Larry, and Xuemei Liu. "Welfare Gains Under Tradable CO₂ Permits." In *Agricultural Globalization, Trade and the Environment*, edited by C. Moss, G. Rausser, A. Schmitz, T. Taylor, D. Zilberman. Norwell, Massachusetts: Kluwer Academic Publishers, 2001.
18. Karp, Larry, and Xuemei Liu. "The Clean Development Mechanism and its Controversies." In series of *Advances in the Economics of Environmental Resources*, edited by D. Hall and R. Howarth. Vol. 3, "The Long-Term Economics of Climate Change: Beyond a Doubling of Greenhouse Gas Concentrations," JAI Press, Stamford, Ct. 2002.
19. Karp, Larry and Jinhua Zhao. "The Dynamic Effects of Trade Liberalization and Environmental Policy Harmonization." In "Handbook of International Trade: Economic and Legal Analysis of Laws and Institutions," edited by James Hartigan. Blackwell Press, forthcoming, 2004.
20. Karp, Larry and Jinhua Zhao, "A Proposal for the Design of the Successor to the Kyoto Protocol" in *Post-Kyoto International Climate Policy* ed Joseph Aldy and Rob Stavins, Cambridge University Press, 2010. Winner of 2008 research paper competition "Harvard Project on International Climate Agreements".
21. Karp, Larry and Christian Traeger "Discounting" Encyclopedia of Energy, Natural Resource, and Environmental Economics, Elsevier 2013.
22. Karp, Larry "Discounting and the Evaluation of Climate Policy" in *The Economics of the Global Environment – Catastrophic Risks in Theory and Practice*, Graciela Chichilinski and Armon Rezai, Ed, Springer International, 2017.
23. Howitt, Richard, Larry Karp, and Gordon Rausser, Remote Sensing Technologies: Implications for Agricultural and Resource Economics, in *Modern Agricultural and Resource Economics and Policy: Essays in Honor of Gordon Rausser*.

Articles in Refereed Journals

24. Karp, Larry S., and Alex McCalla. "Dynamic Games and International Trade: An Application to the World Corn Market." *American Journal of Agricultural Economics*, Vol. 65, No. 4 (1983) pp. 641-650.
25. Karp, Larry S. "Demand for Energy and Insulation." *Energy Economics*, Vol. 6, No. 3 (1984) pp. 208-210.
26. Karp, Larry S., and Arden Pope III. "Range Management Under Uncertainty." *American Journal of Agricultural Economics*, Vol. 66, No. 4 (1984) pp. 438-446.
27. Karp, Larry S. "Optimality and Consistency in a Differential Game with Nonrenewable Resources." *Journal of Economic Dynamics and Control*, Vol. 8, No. 1 (1984) pp. 73-97.
28. Karp, Larry S., and Richard Shumway. "Issues and Methods in Estimating Adjustment Costs." *Northeastern Journal of Agricultural Economics*, Vol. 13, No. 2 (1984) pp. 155-162.
29. Karp, Larry S. "Higher Moments in the Linear-Quadratic-Gaussian Problem." *Journal of Economic Dynamics and Control*, Vol. 9 (1985) pp. 41-54.
30. Karp, Larry S., Ayre Sadeh, and Wade L. Griffin. "Cycles in Agricultural Production: The Case of Aquaculture." *American Journal of Agricultural Economics*, Vol. 68, No. 3 (1986) pp. 553-561.
31. Karp, Larry S. "Methods for Selecting the Optimal Dynamic Hedge When Production is Stochastic." *American Journal of Agricultural Economics*, Vol. 69, No. 3 (1987) pp. 647-657.
32. Karp, Larry S. "Consistent Tariffs with Dynamic Supply Response." *Journal of International Economics*, Vol. 23 (1987) pp. 369-376.
33. Karp, Larry S. "Dynamic Hedging with Uncertain Production." *International Economic Review*, Vol. 29, No. 4 (1988) pp. 621-637.
34. Fulton, Murray, and Larry S. Karp. "Estimating the Objectives of a Public Firm in a Natural Resource Industry." *Journal of Environmental Economics and Management*, Vol. 16 (1989) pp. 268-287.
35. Gallini, Nancy, and Larry S. Karp. "Sales and Consumer Lock-In." *Economica*, Vol. 52, No. 223 (1989) pp. 279-294.
36. Karp, Larry S., and Jeffrey M. Perloff. "Estimating Market Structure and Tax Incidence: The Japanese Television Market." *Journal of Industrial Economics*, Vol. XXXVII (1989) pp. 225-239.

37. Karp, Larry S., and Jeffrey M. Perloff. "Dynamic Oligopoly in the Rice Export Market." *Review of Economics and Statistics*, Vol. LXXI (1989) pp. 462-470.
38. Beghin, John, and Larry S. Karp. "Estimation of Price Policies in Senegal: An Empirical Test of Cooperative Game Theory." *Journal of Development Economics*, Vol. 35 (1991) pp. 49-67.
39. Gatsios, Konstantine, and Larry S. Karp. "Delegation Games: An Application to Customs Unions." *Review of Economic Studies*, Vol. 58 (1991) pp. 391-398. Republished in *Economic Integration and International Trade* in "The International Library of Critical Writings in Economics" series, edited by Carsten Kowlaczyk, Edward Elgar Press (1999).
40. Karp, Larry S., and David M. Newbery. "OPEC and the U.S. Oil Import Tariff." *Economic Journal*, Vol. 101 (1991) pp. 303-313.
41. Karp, Larry S., and David M. Newbery. "Optimal Tariffs on Exhaustible Resources." *Journal of International Economics*, Vol. 30 (1991) pp. 285-299.
42. Karp, Larry S. "The Endogenous Stability of Economic Systems: The Case of Many Agents." *Journal of Economic Dynamics and Control*, Vol. 16 (1992) pp. 117-138.
43. Gatsios, Konstantine, and Larry S. Karp. "The Welfare Effects of Imperfect Harmonization of Trade and Industrial Policy." *Economic Journal*, Vol. 102 (1992) pp. 107-116. Republished in *Industrial Policy and Competitive Advantage*, edited by David B. Audretsch (1998), pp. 375-398.
44. Gatsios, Konstantine, and Larry S. Karp. "How Anti-Merger Laws Can Reduce Investment, Help Producers, and Hurt Consumers." *Journal of Industrial Economics*, Vol. 40, (Sept. 1992) pp. 339-348.
45. Karp, Larry S. "Efficiency Inducing Tax for a Common Property Oligopoly." *Economic Journal*, Vol. 102 (1992) pp. 321-332.
46. Karp, Larry S., and John Livernois. "On Efficiency-Inducing Taxation for a Non-Renewable Resource Monopolist." *Journal of Public Economics*, Vol. 49 (1992) pp. 219-239.
47. Karp, Larry S., and David M. Newbery. "Dynamically Consistent Oil Import Tariffs." *Canadian Journal of Economics*, Vol. 25 No. 1 (1992) pp. 1-21.
48. Karp, Larry S. "Social Welfare in a Common Property Oligopoly." *International Economic Review*, Vol. 33 (1992) pp. 353-372.
49. Beghin, John, and Larry S. Karp. "Tariff Reform in the Presence of Sector Specific Distortions." *Canadian Journal of Economics*, Vol. 25, No. 2 (May, 1992) pp. 294-309.

50. Beghin, John, and Larry S. Karp. "Piecemeal Trade Reform in the Presence of Producer-Specific Domestic Subsidies." *Economics Letters*, Vol. 39 (May 1992) pp. 65-71, reprinted in *The Theory of Trade Policy Reform*, edited by Carsten Kowalczyk, "The International Library of Critical Writings in Economics," series editor Mark Blaug, (2000).
51. Karp, Larry S. "Monopoly Extraction of a Durable Nonrenewable Resource: Failure of the Coase Conjecture." *Economica*, Vol. 60 (February 1993) No. 237, pp. 13-26.
52. Karp, Larry S., and Jeffrey M. Perloff. "A Dynamic Model of Oligopoly in the Coffee Export Market." *American Journal of Agricultural Economics*, Vol. 75 (May 1993) pp. 448-57.
53. Karp, Larry S., and Jeffrey M. Perloff. "Legal Requirements that Artists Receive Resale Royalties." *International Journal of Law and Economics*, Vol. 13 (1993) pp. 163-177.
54. Karp, Larry S., and Jeffrey M. Perloff. "Open-Loop and Feedback Models of Dynamic Oligopoly." *International Journal of Industrial Organization*, Vol. 11 (1993) pp. 369-389.
55. Fisher, Anthony C., and Larry S. Karp. "Nonconvexity, Efficiency and Equilibrium in Exhaustible Resource Depletion." *Environmental and Resource Economics*, Vol. 3 (February 1993) pp. 97-106.
56. Karp, Larry S., and Jeffrey M. Perloff. "Industrial Policy as an Alternative to Trade Policy: Helping by Hurting." *Review of International Economics*, Vol. 1 (October 1993) 253-262.
57. Bigman, David, and Larry S. Karp. "Strategic Trade Policies under Instability." *International Review of Economics and Finance*, Vol. 2 (1993) pp. 163-180.
58. Collins, Robert A., and Larry S. Karp. "Lifetime Leverage Choice for Proprietary Farmers in a Dynamic Stochastic Environment." *Journal of Agricultural and Resource Economics*, Vol. 18, No. 2 (1993) pp. 225-238.
59. Karp, Larry S., and John Livernois. "Using Automatic Tax Changes to Control Pollution Emissions." *Journal of Environmental Economics and Management*, Vol. 27, (1994) pp. 38-48. Reprinted in *The International Library of Critical Writings in Economics*, in "Recent Developments in Environmental Economics", edited by Michael Hoel, 2004.
60. Karp, Larry S., and Spiro Stefanou. "Domestic and Trade Policy for Central and East European Agriculture." *The Economics of Transition*, Vol. 2, No. 3 (1994) pp. 345-371.
61. Karp, Larry S., and Jeffrey M. Perloff. "Dynamic Models of Oligopoly on International Rice and Coffee Markets." *Cashiers d'économie et sociologie rurales*, No. 32, (1994) pp. 100-130.
62. Karp, Larry S., and Thierry Paul. "Phasing In and Phasing Out Protectionism with Costly Adjustment of Labour." *Economic Journal*, Vol. 104, No. 427 (1994) pp. 1379-1393.

63. Karp, Larry S., and Jeffrey M. Perloff. "The Failure of Strategic Industrial Policies Due to the Manipulation by Firms." *International Review of Economics and Finance*, Vol. 4, No. 1, (1995) pp. 1-16.
64. Karp, Larry S., and Robert Collins. "Static vs. Dynamic Models of Proprietary Capital Structure: Discussion and Preliminary Empirical Evidence." *Agricultural and Finance Review*, Vol. 55, (1995) pp. 1-9.
65. Gatsios, Konstantine, and Larry S. Karp. "Delegation in a General Equilibrium Model of Customs Unions." *European Economic Review*, Vol. 39, No. 2, (February 1995) pp. 319-333.
66. Karp, Larry S., and Jeffrey M. Perloff. "Why Industrial Policies Fail: Limited Commitment." *International Economic Review*, Vol. 36, No. 4, (November 1995) pp. 887-905.
67. Golan, Amos, George Judge and Larry S. Karp. "A Maximum Entropy Approach to Estimation and Inference in Dynamic Models: Counting Fish in the Sea Using Maximum Entropy." *Journal of Economic Dynamics and Control*, Vol. 20, No. 4, (April, 1996) pp. 559-582.
68. Karp, Larry S. "Depreciation Erodes the Coase Conjecture". *European Economic Review*, Vol. 40, No. 2, (1996) pp. 473-490.
69. Larry S. Karp, and Jeffrey M. Perloff, "The Optimal Suppression of a Low-Cost Technology by a Durable-Good Monopoly," *Rand Journal of Economics*, Summer, Vol. 27, No. 2 (1996) pp. 346-364.
70. Karp, Larry S. "Monopoly Power Can Be Disadvantageous in the Extraction of a Durable Nonrenewable Resource." *International Economic Review*, Vol. 37, No. 4, (November, 1996) pp. 825-849.
71. Karp, Larry S., and Thierry Paul. "Labor Adjustment and Gradual Reform: When Is Commitment Important?" *Journal of International Economics*, Vol. 46, No. 2, (December, 1998) pp. 333-362.
72. Fernandez, Linda, and Larry S. Karp. "Restoring Wetlands through Wetlands Mitigation Banks." *Environmental and Resource Economics*, Vol. 12, No. 3 (October, 1998) pp. 323-344.
73. Karp, Larry S., and Thierry Paul. "Unemployment and the 'Labour-Management Conspiracy'." *Economic Journal*, Vol. 110, No. 460, (January 2000) pp. 113-135.
74. Karp, Larry S., Sandeep Sacheti, and Jinhua Zhao. "Common Ground Between Free-traders and Environmentalists," *International Economic Review*, Vol. 42, No. 3 (August 2001) pp. 617-647.

75. Golan, Amos, Larry S. Karp, and Jeffrey M. Perloff. "Estimating Coke's and Pepsi's Price and Advertising Strategies", *Journal of Economic Business Statistics*, Vol. 18:4, pp. 398-409 (October 2000).
76. Hartwick, John, Larry S. Karp, and Ngo Van Long. "Depreciation Rules and Value Invariance with Extractive Firms," *Journal of Economic Dynamics and Control*, Vol. 26, pp. 99-116 (2002).
77. Karp, Larry S., and In Ho Lee. "Learning-By-Doing and the Choice of Technology: The Role of Patience." *Journal of Economic Theory*, Vol. 100, pp. 73-92 (2002).
78. Hoel, Michael, and Larry S. Karp. "Taxes and Quotas for a Stock Pollutant with Multiplicative Uncertainty." *Journal of Public Economics*, Vol. 82, pp. 91-114 (2001).
79. Hoel, Michael, and Larry S. Karp. "Taxes Versus Quotas for a Stock Pollutant." *Resource and Energy Economics*, Vol. 24, pp. 367-384 (2002). Reprinted in *The International Library of Critical Writings in Economics*, in "Recent Developments in Environmental Economics", edited by Michael Hoel, 2004.
80. Karp, Larry S., Jinhua Zhao, and Sandeep Sacheti. "The Long-Run Effects of Environmental Reform in Open Economies." *Journal of Environmental Economics and Management*, Vol. 45, No. 2, pp. 246-64 (March 2003).
81. Karp, Larry S., and In Ho Lee. "Time-Consistent Policies." *Journal of Economic Theory*, Vol. 112, Issue 2, pp. 353-364 (October 2003).
82. Favard, Pascal, and Larry S. Karp. "How Many Cake-Eaters? Chouette, on a du monde à dîner!" *Journal of Economic Dynamics and Control*, Vol. 28, pp. 801-815 (2004).
83. Costello, Christopher and Larry S. Karp, and. "Dynamic Taxes and Quotas with Learning." *Journal of Economic Dynamics and Control*, Vol. 28, No. 8, pp. 1661-1680 (2004).
84. Karp, Larry S., and Thierry Paul. "Intersectoral Adjustment and Policy Intervention: the Importance of General Equilibrium Effects". *Review of International Economics*, Vol. 13, pp 330- 355 (2005).
85. Karp, Larry S. "Global Warming and Hyperbolic Discounting." *Journal of Public Economics*, Vol. 89, pp 261 – 282 (2005).
86. Karp, Larry S. "Nonpoint Source Pollution Taxes and Excessive Tax Burden. *Environmental and Resource Economics*, Vol. 31, pp 229 – 251 (2005).
87. Karp, Larry S. "Property Rights, Mobile Capital, and Comparative Advantage." *Journal of Development Economics*, Vol. 77 pp 367 – 87, (2005).
88. Karp, Larry S., and Jeffrey M. Perloff. "When Promoters Like Scalpers." *Journal of Economic and Management Strategy*, Vol. 14, No. 2 pp 477-508 (2005).

89. Sethi, Gautam, Christopher Costello, Anthony Fisher, Michael Hanemann, and Larry S. Karp. "Fishery Management Under Multiple Uncertainty" *Journal of Environmental Economics and Management*, Volume 50, No. 2, pp 300 – 319 (2005).
90. Karp, Larry S., and Jiangfeng Zhang. "Regulation of Stock Externalities with Correlated Abatement Costs." *Environmental and Resource Economics*, Vol. 32 No. 2 pp 273 -300, (2005).
91. Karp, Larry S. "Non-constant Discounting in Continuous Time", *Journal of Economic Theory* No 132 pp 557 – 568 (2007).
92. Karp, Larry S., and Jiangfeng Zhang. "Regulation with anticipated learning about environmental damages", *Journal of Environmental Economics and Management*, Vol. 51, No. 3 pp 259-280 (2006).
93. Karp, Larry S. and Thierry Paul, "Indeterminacy with Environmental and Labor Dynamics" *Structural Change and Economic Dynamics* Vol. 18, pp 100 – 119 (2007).
94. Karp, Larry S., In Ho Lee, and Robin Mason. "A Global Game with Strategic Substitutes and Complements." *Games and Economic Behavior*, Vol. 60 pp 155 - 175, (2007).
95. Fujii, Tomoki and Larry Karp, "Numerical Analysis of Non-constant pure rate of time preference: a model of climate policy", Vol 56 pp 83 – 101, *Journal of Environmental Economics and Management* (2008) Reprinted in **The Economics of Climate Change**, ed Graciela Chichilnisky.
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103. Karp, Larry S. "The Environment and Trade" *Annual Review of Resource Economics* Vol 3, pp 397 – 417, 2011.
104. Hong, Fuhai and Larry Karp "International environmental agreements with mixed strategy and investment", *Journal of Public Economics* vol. 96 pp. 685 – 697, 2012, 2012.
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112. Karp, Larry "Railroad discounting" *Economics Letters* vol. 39 pp 65 – 71, January 2015.
113. Karp, Larry "Provision of a Public Good with Many Dynasties", *Economic Journal*, vol. 127 2641 – 2664, 2017.
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Economics vol. 65 pp 135 – 158, 2016.

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118. Karp, Larry and Hiroaki Sakamoto, “Sober optimism and the formation of International Environmental Agreements”, *Journal of Economic Theory*, vol 197, 1- 35 2021.
119. Karp, Larry and Armon Rezai “Trade and Resource Sustainability with Asset Markets”, *Dynamic Games and Applications*. <https://doi.org/10.1007/s13235-021-00400-4>, vol 12, pp 929- 953, 2021.
120. Iverson, Terry, Larry Karp, and Alessandro Perio “Optimal social distancing and the economics of uncertain vaccine arrival”, *Journal of Public Economic Theory*, vol 24, pp 1071-1100, 2022.
121. Karp, Larry and Alessandro Peri and Armon Rezai “Selfish incentives for climate policy: empower the young!” *Journal of the Association of Environmental and Resource Economics* vol. 11, no. 5, 2024.
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Non-technical publications

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126. Karp, Larry “Why we should be willing to devote more resources to avoid climate change” ARE Update, Vol. 10 No.2 Nov/Dec 2006.
127. Karp, Larry “Income distribution and the allocation of public agricultural investment in developing countries” Background paper for World Development Report 2007.
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developing countries” Background paper for World Development Report 2007.

129. Karp, Larry “Managing Migration from the traditional to modern sector in developing countries” Background paper for World Development Report 2007.
130. Karp, Larry “Correct (and mis-leading) arguments for market-based pollution control policies” ARE Update, vol 11, No. 6, July/August 2008.
131. Karp, Larry and Jinhua Zhao, “A proposal for the design of the successor to the Kyoto Protocol”, September 2008. Research paper competition winner for “Harvard Project on International Climate Agreements”.
132. Karp, Larry and Jinhua Zhao, “Suggestions for the Road to Copenhagen”, Swedish Ministry of Finance, 2009
133. Karp, Larry “Four proposals for the next climate agreement” ARE Update, vol 13, No 1, September/October 2009
134. Karp, Larry “ Marktwirtschaftliche Ideen für einen Klimaschutz-Vertrag”, editorial Neue Zürcher Zeitung" November 21, 2009.
135. Karp, Larry, and Megan Stevenson “Green industrial policy: trade and theory” Background paper for World Bank.
136. Iverson, Terry, and Larry Karp and Alessandro Peri “Optimal Social Distancing and the Economics of Uncertain Vaccine Arrival” Update, Volume 24(3) 9 –11.

Book Reviews

137. Karp, Larry S., book review. “Open-Economy Politics: the Political Economy of the World Coffee Trade” by Robert Bates. *The International History Review*, Vol. XX, No. 2, (June, 1998) pp. 500-501.

Working Papers

138. Karp, Larry S. “Fundamentals Versus Beliefs Under Almost Common Knowledge.” Working Paper No. 871, Giannini Foundation of Agricultural Economics, University of California, Berkeley, Revised October 1999.
139. Karp, Larry S. and Thierry Paul. “Friction and the Multiplicity of Equilibria.” Working Paper No. 960, October 7, 2003.
140. Karp, Larry S. and Thierry Paul. “Intersectoral Migration Costs and Multiple Equilibria” October 2005
141. Fujii, Tomoki and Larry Karp, “Numerical Analysis of Non-constant discounting with and

- Application to Renewable Resources”, Working Paper, June 2006.
142. Karp, Larry S. “Multiplicity of investment equilibria when pollution permits are not tradable”, Working Paper, June 2006.
 143. Karp, Larry S. “Correct (and misleading) arguments for using market-based pollution control mechanisms” Working Paper, August 2008.
 144. Karp, Larry S. “Sacrifice, discounting and climate policy: five questions” July 2009.
 145. Income distribution and the allocation of public agricultural investment in developing countries (Background paper prepared for World Development Report 2007) Larry Karp, May 2007
 146. Managing migration from the traditional to the modern sector in developing countries (Background paper prepared for World Development Report 2007) Larry Karp, May 2007
 147. Correct (and misleading) arguments for cap and trade Larry Karp, August 2012 (This draft replaces "Correct (and misleading) arguments for using market-based pollution control policies")
 148. Suggestions for the road to Copenhagen Larry Karp and Jinhua Zhao, June 2009.
 149. Sacrifice, discounting, and climate policy: five questions, Larry Karp, July 2009.
 150. Incentives to join international environmental agreements with permit trading and safety valves Larry Karp, April 2010.
 151. Green Industrial Policy: Trade and Theory Larry Karp and Megan Stevenson, January 2012.
 152. The income and production effects of leakage August 2013 (This paper replaces the 2010 "Reflexions on Carbon Leakage").
 153. Overlapping generations and environmental policy: an Introduction March 2013
 154. Prices versus Quantities Reassessed, with Christian Traeger (under submission)
 155. Smart Cap, with Christian Traeger (under submission)
 156. Optimal Social Distancing and the Economics of Uncertain Arrival”, with with Terry Iverson and Alessandro Peri (under submission).
 157. Trade and Resource Sustainability with Asset Markets, with Armon Rezai, Revise and Resubmit at *Dynamic Games and Applications*.

158. "Selfish Incentives for Climate Policy: Empower the Young!" with Alessandro Peri and Armon Rezai, (under submission).
159. "Emissions Taxes, Cap & Trade, and Banking & Borrowing under Asymmetric Information" (in preparation).
160. "Ranking of Suboptimal Climate Policies: the Role of Carbon Markets" (in preparation)

Presentations

- "Imperfect Competition in International Trade: A Dynamic Game." Paper presented to the American Agricultural Economics Association, Logan, Utah, 1982.
- "Issues and Methods in Estimating Adjustment Costs." Paper presented to the American Agricultural Economics Association, Ithaca, New York, 1984.
- "Strategy, Rationality, and Dynamic Tariffs." Paper presented to the American Agricultural Economics Association, Des Moines, Iowa, 1985.
- "Suggestions for a Research Agenda in Modeling Trade Policy." Paper presented to International Trade Consortium, Vancouver, Canada, 1985.
- "Production and Dynamic Hedging in a Stochastic Environment." Paper presented to the American Agricultural Economics Association, Reno, Nevada, 1986.
- "Game Theory and Trade Policy." Paper presented to the American Agricultural Economics Association Workshop on Trade Modeling, Reno, Nevada, 1986.
- "Consistent Monopolists and the Benefits of Market Power." Paper presented to the Society of Economic Dynamics and Control, Tempe, Arizona, 1988.
- "Dynamic Models of Capital Structure." Paper presented to the International Association of Agricultural Economists, Buenos Aires, Summer 1988.
- "The Optimality of U.S. Agricultural Distortions." Paper presented to the International Association of Applied Econometrics, Washington, D.C., 1988.
- "Estimating Dynamic Oligopoly Models." Paper presented to the Society of Economic Dynamics and Control, Edinburgh, U.K., June 1989.
- "Monopoly Extraction of a Durable Nonrenewable Resource." Paper presented to the American Agricultural Economics Association, Baton Rouge, Louisiana, Summer 1989.

- “Why Industrial Policies Fail: Limited Commitment.” Paper presented to the Royal Economic Society, Nottingham, April 1990, and to ERWIT, Aix en Provence, June 1990.
- “Social Welfare in a Common Property Oligopoly.” Paper presented to the Royal Economic Society, Warwick, U.K., April 1991.
- “Helping by Hurting: Industrial Policy as an Alternative to Trade Policy.” Paper presented to Conference on EEC 92, Kiel, Germany, May 1991.
- “Durable Nonrenewable Resource and Monopoly Power.” Paper presented at Society for Economic Dynamics and Control, Nafplio, Greece, June 1993.
- “Trade Liberalization and Inter-Sectoral Labor Migration: How Important is Government Commitment?” Seminar Presentation, Department of Agricultural and Resource Economics, University of California, Berkeley, October 1994.
- “Intersectoral Labor Migration and Trade Policies.” Paper presented at International Agricultural Research Trade Consortium, San Diego, California, December 1994.
- “Estimating Games Using Maximum Entropy.” Seminar Presentation, Dept. of Economics, University of Southampton, Southampton, England, February 1995.
- “Environmental Externalities, International Trade, and Agriculture.” Keynote speaker at United Nations Conference on Trade and Development (UNCTAD) Conference on Internalizing Environmental Externalities, Geneva, February 1995.
- “Government Commitment and Trade Policy.” Seminar Presentation, Department of Economics, University of California, Santa Barbara, April 1995.
- “Estimating Games Using Maximum Entropy.” Seminar Presentation, Department of Economics, Cambridge University, Cambridge, England, February 1995.
- “International Trade in Exhaustible Resources: A Cartel-Competitive Fringe Model.” Paper presented at European Research Workshop in International Trade, Salonika, Greece, September 1995.
- “North-South Trade and Environmental Problems.” Seminar Presentation, Dept. of Economics, University of Southampton, Southampton, England, February 1996.
- “Is Strategic Trade Policy Practical?” Invited paper, International Agriculture Trade Research Consortium, Minneapolis, June 1996.
- “Implications of North-South Trade for Natural Resource Depletion and Environmental Degradation.” Invited paper, Workshop on the Globalisation of the World Economy, University of Wollongong, Wollongong, Australia, December 1996.
- “North-South Trade and the Environment.” Seminar Presentation, Department of Economics, Iowa State University, Ames, Iowa, April 1997.

- “Environmental Externalities and Trade.” Seminar Presentation, Department of Agricultural Economics, University of California, Davis, November 1997.
- “Unemployment and the Labor-Management Conspiracy.” Seminar Presentation, Institute of Industrial Relations, University of California, Berkeley, November 1997.
- “Common Ground Between Freetraders and Environmentalists.” Paper presented at the Santa Cruz International Economics Conference, University of California, Santa Cruz, California, October 1998.
- “Taxes versus Quotas for a Stock Pollutant.” Paper presented at the Santa Barbara Environmental Economics Conference, University of California, Santa Barbara, California, October 1998.
- “Welfare Gains Under Tradable CO₂ Permits.” Paper presented at Agricultural Globalization, Trade and the Environment Conference, Alumni House, Berkeley, California, March 7-9, 1999.
- Discussant at Workshop on Market-Based Instruments for Environmental Protection, Harvard University, Cambridge. July 18-20, 1999.
- “Fundamentals Versus Beliefs Under Almost Common Knowledge.” Seminar Presentation, University of California, Santa Barbara, California, April 2000.
- “After Seattle: The Economics and Politics of Trade.” Paper presented at XXV OIV Conference, Paris, France, June 2000.
- “How Many Cake Eaters?” Paper presented at International Environmental Economics Association, Rethymno, Crete, June 2000.
- “Environmental Indices for the Chinese Grain Sector.” European Environmental and Resource Economics Conference, Southampton, England, June 2001.
- “Dynamic Pollution with Asymmetric Information” Keynote speaker, Heartland Conference on Resource Economics, Ames Iowa, October 2001.
- “Regulation of Stock Externalities.” Universidad Autonoma, Barcelona, March 2002.
- “Global Warming with Hyperbolic Discounting.” Arizona State University, March 2003.
- “Imperfect Property Rights with Mobile Capital”, Korean National Univeristy, Seoul Korea, April 2003.
- “Global Warming with Hyperbolic Discounting”. European Association of Environmental and Resource Economics Summer Conference, Bilbao, Spain, June 2003.
- “Hyperbolic Discounting with Environmental Stocks”, Vanderbilt University, March 2004.
- “Control of Environmental Stocks with Anticipated Learning”, Emory University, March 2004.

“Friction and the Multiplicity of Equilibria”, University of Texas, Austin, April 2004.

“Non-constant discounting in environmental problems”, Conference on Time Preferences, Copenhagen, May 2004.

“Non-constant discounting in Continuous Time”, European Association of Environmental and Resource Economics Summer Conference, Budapest, Hungary, June 2004.

“Indeterminacy with environmental externalities” University of Calgary, October 2004.

“Indeterminacy with a second state variable” University of California, Davis., November 2004.

“Friction and Multiple Equilibria” University of Toulouse, March 2005.

“A suggestion for the reform of the Kyoto Protocol”, University of Montreal, April 2006

“A suggestion for the reform of the Kyoto Protocol”, Association of Public Economic Theory Conference, Hanoi July 2006.

“Catastrophic change with hyperbolic discounting”, Sta Barbara Occasional Workshop, October 2006.

“Climate policy when the distant future matters: Catastrophic events with hyperbolic discounting”, Southampton University, March 2007.

“Hyperbolic discounting and climate policy”, Rehovot University, Israel, March 2007.

“Instruments for the control of stock pollutants” Environmental conference, Rehovot University, Israel, March 2007.

“Climate policy when the distant future matters: Catastrophic events with hyperbolic discounting”, Conference, Atlantic Economics Society, Madrid, March 2007.

“Discounting, climate change, and the Stern Report” Iowa State University, April 2007.

“A California—EU Environmental Initiative” UC Berkeley--EU Workshop, February 2008.

“Correct and misleading arguments for using market based emissions control policies” AAEA summer meeting, Orlando Florida August 2008

“Nonconstant discounting with and climate control policies” AAEA Summer meeting, Orlando Florida August 2008

“Global food crisis” (conference convener) Berkeley October 2008

“Biofuels and Global Climate Change” discussant IATRC conference, Scottsboro Az, November 2008.

“Environmental Agreements” UC Berkeley—EU workshop, Berkeley November 2008.

“Emissions control policies with endogenous investment” seminar York University, York, Canada, May 2009.

“Suggestions for the Road to Copenhagen” report presented to Swedish Ministry of Finance, Stockholm, May 2009

“Sacrifice, discounting, and climate policy: five questions” Keynote speaker, CESifo workshop on the economics and politics of climate policy, Venice July 2009.

“Time perspective and climate change policy” Conference on Ambiguity, UC Berkeley October 2009.

“Emissions caps with and without trade in permits” Occasional Workshop on Environmental Economics, University of California, Sta Barbara, October 2009.

“International environmental agreements, emissions trade, safety valves and escape clauses” seminar University of British Columbia, October 2009.

“Hyperbolic discounting and the risk of catastrophe” seminar University of Maryland, December 2009

“International environmental agreements, emissions trade, safety valves and escape clauses” seminar Resources for the Future, December 2009; related seminar at World Bank.

Member of panel discussion on Copenhagen, Allied Social Sciences meeting, Atlanta, January 2010

“Hyperbolic discounting in continuous time” paper presented at American Mathematical Society conference, San Francisco, January 2010

“Permit trading and incentives to join International Environmental Agreements”, Seminar, Dept of Economics, University of Oslo, Norway May 2010.

“Reflections on Carbon Leakage” Keynote lecture, CESifo Conference on Energy and the Environment, Munich, October 2010

“Carbon Leakage and Trade Policy” IATRC conference, Berkeley, December 2010

“Political Economy of Environmental Agreements” Workshop on political economy, Yale University, May 2011.

“Overlapping generations and renewable resources” Workshop on environmental economics, Exeter, May 2011.

“Measures to reduce leakage” IEA conference Beijing, July 2011

“The theory of leakage” AERE conference Seattle, June 2011

- “Many tribes of overlapping generations” Occasional Workshop, Sta Barbara, February 2012
- “Provision of a public good with altruistic overlapping generations and many tribes” Keynote speaker, SURED, Ascona, Switzerland, June 2012
- “Public goods and overlapping generations” Paris seminar, March 2012.
- “Public goods and overlapping generations” seminar, Vienna, March 2012.
- “Overlapping generations and environmental policy” Invited speaker at “Global Environmental Challenges: the role of China, at Shanghai University of Finance and Economics, December 2012.
- “Overlapping generations and climate policy”, Workshop, Toulouse, June 2013.
- “International trade and overlapping generations” seminar Oxford, March 2013.
- “Climate policy and overlapping generations” seminar, Ames Iowa, October 2014.
- “Asset Markets and Incentives to Reduce Emissions” Invited paper Climate Change Workshop, Singapore, March 2016.
- “Asset Prices and Climate Policy” invited paper Climate Change Conference, University of Tilburg, April 2016.