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**EMPLOYMENT:**

Professor, Department of Economics, University of California, Davis, 7/90-present;  
Chair, Department of Economics, 7/90-8/95; Acting Chair, 7/05-6/05.

C. Bryan Cameron Distinguished Chair in International Economics, 7/06-present.

Visiting Professor, Haas School of Business, University of California, Berkeley,  
1/94-6/94 and 7/96-6/99.

Associate Professor, Department of Economics, University of California, Davis, 7/86 – 6/90.

Assistant Professor, Department of Economics, Columbia University, 9/81 – 6/86.

**EDUCATION:**

*Post-graduate:* Post-Doctoral Teaching Fellow, Department of Economics,  
University of Chicago, 1/81 – 6/81.

*Graduate:* Massachusetts Institute of Technology, Ph.D., 2/81.

*Undergraduate:* University of British Columbia, B.A. Honors in Economics, 1977.

**PRIZES:**

University Medal in Arts and Sciences, University of British Columbia, 1977.

Bernard Harms Prize, Kiel Institute for World Economics, University of Kiel, 2006.

**PROFESSIONAL ACTIVITIES:**

Fellow of the Institute of Advanced Studies, Hebrew University of Jerusalem, 1/89 – 7/89.

International Research Fellow, Kiel Institute for World Economics, 9/06 - present.

**National Bureau of Economic Research:**

Director of the International Trade and Investment Program, 1/92 - present.

Research Associate, 4/87 - present.

Faculty Research Fellow, 10/85 - 4/87.

NBER Conference Chair:

“Empirical Methods for International Trade,” April 3-4, 1986.

“Trade Policies for International Competitiveness,” April 29-30, 1988.

“Trade Adjustment Assistance,” August 2, 1991.

“Effects of U.S. Trade Protection and Promotion Policies,” October 6-7, 1995.

“The Impact of International Trade on Wages,” February 28-29, 1998.

CRIW Conference Chair:

“Scanner Data and Price Indexes,” September 15-16, 2000.

**Journals:**

Editor, *Journal of International Economics*, 1/95 – 6/01; Associate Editor, 1/91 – 12/94 and 7/01 – 12/04; Co-editor, 1/87 – 12/90.

Associate Editor, *Review of Economics and Statistics*, 1/93 – 12/02.

Associate Editor, *American Economic Review*, 7/01 – present.

**Executive Boards:**

Conference on Research on Income and Wealth, 1996-present

Clausen Center for International Business and Policy, Haas School of Business, Univ. of California, Berkeley, 1996-present.

Oversight Board for the California Census Research Data Center, 1999-present.

**University of California at Davis:**

Director, Pacific Rim Business and Development Program, Institute of Governmental Affairs, 1994-present.

Director, Center for International Data, Institute of Governmental Affairs, 1999-present.

Acting Director, Institute of Governmental Affairs, 9/05-6/06.

**PUBLICATIONS:**

**BOOKS:**

1. Editor. *Essays in International Economic Theory*, by Jagdish N. Bhagwati. MIT Press, 1983.
2. Editor. *Empirical Methods for International Trade*. MIT Press, 1988.
3. Editor. *Trade Policies for International Competitiveness*. NBER and University of Chicago Press, 1989.
4. Editor, with Gene M. Grossman and Douglas A. Irwin. *The Political Economy of Trade Policy: Papers in Honor of Jagdish Bhagwati*. MIT Press, 1995.
5. Editor. *The Effect of U.S. Trade Protection and Promotion Policies*. NBER and University of Chicago Press, 1997.

6. *International Trade Price Indexes and Seasonal Commodities*. U.S. Dept. of Labor, Bureau of Labor Statistics, Washington, D.C., 1999, with William Alterman and W. Erwin Diewert.
7. Editor. *The Impact of International Trade on Wages*. NBER and University of Chicago Press, 2000.
8. Editor, with Matthew D. Shapiro. *Scanner Data and Price Indexes*. Studies in Income and Wealth, Volume 64, NBER and University of Chicago Press, 2003.
9. *Advanced International Trade: Theory and Evidence*. Princeton University Press, 2004.
10. *Emergent Economics, Divergent Paths: Economic Organization and International Trade in South Korea and Taiwan*, Cambridge University Press, 2006, with Gary G. Hamilton.

#### ARTICLES:

1. "Monopsony Distortions in an Open Economy: A Theoretical Analysis," *Journal of International Economics*, 10(2), May 1980, 213-235.
2. "Tariff-Seeking and the Efficient Tariff," in Jagdish N. Bhagwati, ed. *Import Competition Policy and Response*, 1982, NBER and University of Chicago Press, 245-258, with Jagdish N. Bhagwati.
3. "Tariffs, Technology Transfer, and Welfare," *Journal of Political Economy*, 90(6), December 1982, 1142-1165, with Kenneth L. Judd.
4. "International Trade and Capital Mobility Between Diversified Economies," *Journal of International Economics*, 13, 1983, 321-339, with Richard A. Brecher.
5. "Extending Tax Incentives to U.S. Service Exports: Re-evaluating the DISC Program," *Tax Notes* 22(4), January 23, 1984, 329-336.
6. "Voluntary Export Restraints in U.S. Autos, 1980-81: Quality, Employment and Welfare Effects" In R. E. Baldwin and A. O. Krueger, eds. *The Structure and Evolution of Recent U.S. Trade Policy*, NBER and University of Chicago Press, 1984, 35-59.
7. "Automobile Prices and Protection: The U.S.-Japan Trade Restraint," *Journal of Policy Modelling*, Spring 1985, 49-68. Reprinted with revisions in Dominick Salvatore, ed. *The New Protectionist Threat to World Welfare*. North Holland, 1987, 333-351.
8. "Anticipated Devaluations, Currency Flight and Trade Policy in a Monetary Economy," *American Economic Review*, June 1985, 386-401.
9. "Trade Policy with Several Goods and 'Market Linkages'," *Journal of International Economics* 20, 1986, 249-267.

10. "Functional Equivalence Between Liquidity Costs and the Utility of Money," *Journal of Monetary Economics* 17, 1986, 271-291.
11. "Incentive Compatible Trade Policies," *Scandinavian Journal of Economics* 89(3), 1987, 373-387.
12. "Gains from Trade in Differentiated Products: Japanese Compact Trucks," in Robert C. Feenstra, ed. *Empirical Methods for International Trade*. MIT Press, 1988, 119-136.
13. "Quality Change Under Trade Restraints in Japanese Autos," *Quarterly Journal of Economics* 103(1), February 1988, 131-146.
14. "Auctioning U.S. Import Quotas, Foreign Response and Alternative Policies," *The International Trade Journal* 3(3), Spring 1989, 239-260.
15. "Symmetric Pass-Through of Tariffs and Exchange Rates Under Imperfect Competition: An Empirical Test," *Journal of International Economics* 27(1/2), 1989, 25-45.
16. "Eliminating Price Supports: A Political Economy Perspective," *Journal of Public Economics* 40, 1989, 159-185, with Tracy R. Lewis and Roger Ware.
17. "Identifying the Competition," *Journal of International Economics* 28(3/4), 1990, 199-216, with James A. Levinsohn.
18. "Designing Policies to Open Trade," *Economics and Politics* 2(3), November 1990, 223-240, with John McMillan and Tracy R. Lewis.
19. "Quota Auctions and Adjustment Assistance: An International Perspective," in K. A. Koekkoek and C. S. M. Mennes, eds., *International Trade and Global Development*, Routledge House, 1991, 105-118.
20. "Quality Upgrading and Its Welfare Cost in U.S. Steel Imports, 1969-74," in Elhanan Helpman and Assaf Razin, eds. *International Trade and Trade Policy*, MIT Press, 1991, 167-186, with Randi Boorstein.
21. "Distributing the Gains from Trade with Incomplete Information," *Economics and Politics* 3(1), March 1991, 21-39, with Tracy R. Lewis.
22. "Negotiated Trade Restrictions with Private Political Pressure," *Quarterly Journal of Economics*, November 1991, 1287-1307, with Tracy R. Lewis.
23. "Money in the Utility Function," in P. Newman, M. Milgate, J. Eatwell, eds. *The New Palgrave Dictionary of Money and Finance*, MacMillan Press, 1992, vol. 2, 790-791.

24. "How Costly is Protectionism?," *Journal of Economic Perspectives*, Summer 1992, 159-178. Reprinted in: Philip King, ed. *International Economics and International Economic Policy*. McGraw-Hill, 1995, 3-20.
25. "Accounting for Growth with New Inputs: Theory and Evidence," *American Economic Review, Papers and Proceedings*, 82(2), May 1992, 415-421, with James R. Markusen and William Zeile.
26. "Trade With Mexico and Water Use in California Agriculture," in Peter Garber, ed., *The Mexico-U.S. Free Trade Agreement*, MIT Press, 1993, 189-218, with Andrew K. Rose.
27. "California Agriculture and an Emerging Mexico," *North American Journal of Economics and Finance*, 4(1), Spring 1993, 91-108, with Andrew K. Rose.
28. "Trade Adjustment Assistance and Pareto Gains From Trade," *Journal of International Economics*, 36, 1994, 201-222, with Tracy R. Lewis.
29. "New Product Varieties and the Measurement of International Prices," *American Economic Review*, 84(1), March 1994, 157-177.
30. "Accounting for Growth with New Intermediate Inputs," *International Economic Review*, 35(2), May 1994, 429-447, with James R. Markusen.
31. "Varieties of Hierarchies and Markets: An Introduction," *Industrial and Corporate Change*, 4(1), 1995, 51-91, with Gary G. Hamilton. Reprinted in Richard Whitley, ed. *Competing Capitalisms: Institution and Economics*, Edward Elgar, forthcoming.
32. "Estimating Markups and Market Conduct with Multidimensional Product Attributes," *Review of Economics Studies*, 62, 1995, 19-52, with James A. Levinsohn.
33. "Estimating the Effects of Trade Policies," in Gene Grossman and Kenneth Rogoff, eds. *Handbook of International Economics, vol. III*, North-Holland, 1995, 1553-1595.
34. "Exact Hedonic Price Indexes," *Review of Economics and Statistics*, 78(4), 1995, 634-653.
35. "Trade and Uneven Growth," *Journal of Development Economics*, 49, 1996, 229-256.
36. "Market Share and Exchange Rate Pass-through in World Automobile Trade," *Journal of International Economics*, 40(1/2), 1996, 187-208, with Joseph Gagnon and Michael Knetter.
37. "Foreign Investment, Outsourcing and Relative Wages," in Robert C. Feenstra, Gene M. Grossman and Douglas A. Irwin, eds., *The Political Economy of Trade Policy: Papers in Honor of Jagdish Bhagwati*, MIT Press, 1996, 89-127, with Gordon H. Hanson.

38. "Globalization, Outsourcing, and Wage Inequality," *American Economic Review*, 86(2), May 1996, 240-245, with Gordon H. Hanson.
39. "Bias in U.S. Import Prices and Demand," in Timothy Bresnahan and Robert Gordon, eds. *New Products: History, Methodology and Applications*, NBER and Univ. of Chicago Press, 1997, 249-276, with Clinton Shiells.
40. "Foreign Direct Investment and Relative Wages: Evidence from Mexico's Maquiladoras," *Journal of International Economics*, 42(3/4), May 1997, 371-393, with Gordon H. Hanson.
41. "Pass-through of Exchange Rates and Purchasing Power Parity," *Journal of International Economics*, 43(1/2), August 1997, 237-261, with Jon Kendall.
42. "Protectionist Threats and Foreign Direct Investment," in Robert C. Feenstra, ed. *The Effect of U.S. Trade Protection and Promotion Policies*. NBER and Univ. of Chicago Press, 1997, 55-80, with Bruce Blonigen.
43. "Generics and New Goods in Pharmaceutical Price Indexes: Comment," *American Economic Review*, 87(4), September 1997, 760-767.
44. "New Technology and Trade: A Threat to Low-Skilled Workers?" *Swedish Economic Policy Review*, 5, 1998, 137-160.
45. "Integration of Trade and Disintegration of Production in the Global Economy," *Journal of Economic Perspectives*, Fall 1998, 31-50.
46. "The Organization of Economies," in Victor Nee and Mary Briton, eds. *The New Institutionalism in Sociology*, Russell Sage, 1998, 153-180, with Gary G. Hamilton.
47. "Discrepancies in International Data: An Application to China-Hong Kong Entrepôt Trade," *American Economic Review*, May 1999, 338-343, with Wen Hai, Wing T. Woo, and Shunli Yao.
48. "Business Groups and Product Variety in Trade: Evidence from South Korea, Taiwan and Japan," *Journal of International Economics*, June 1999, 48(1), 71-101, with Tzu-Han Yang and Gary G. Hamilton.
49. "The Impact of Outsourcing and High-Technology Capital on Wages: Estimates for the U.S., 1979-1990," *Quarterly Journal of Economics*, August 1999, 114(3), 907-940, with Gordon H. Hanson.
50. "Testing Endogenous Growth in South Korea and Taiwan," *Journal of Development Economics*, 60, 1999, 317-341, with Dorsati Madani, Tzu-Han Yang and Chi-Yuan Liang.

51. "Facts and Fallacies about Foreign Direct Investment," in Martin Feldstein, ed. *International Capital Flows*, University of Chicago Press and NBER, 1999, 331-350.
52. "The *Journal of International Economics* at Fifty: A Retrospective," *Journal of International Economics*, 50(1), February 2000, 3-17, with Andrew K. Rose.
53. "An Exact Price Index for the Almost Ideal Demand System," *Economics Letters*, 66(2) February 2000, 159-162, with Marshall Reinsdorf.
54. "Aggregation Bias in the Factor Content of Trade" Evidence from U.S. Manufacturing," *American Economic Review, Papers and Proceedings*, 90(2), May 2000, 155-160, with Gordon H. Hanson.
55. "Staggered Price Setting and Endogenous Persistence," *Journal of Monetary Economics*, 45, June 2000, 657-680, with Paul R. Bergin.
56. "Neither State nor Markets: The Role of Economic Organization in Asian Development," *International Sociology*, 15(2), June 2000, 291-308, with Gary G. Hamilton.
57. "Putting Things in Order: Patterns of Trade Dynamics and Growth," *Review of Economics and Statistics*, 82(3), August 2000, 369-382, with Andrew K. Rose.
58. "Offshore Assembly from the United States: Production Characteristics of the 9802 Program," in R.C. Feenstra, editor. *The Impact of International Trade on Wages*. NBER and University of Chicago Press, 2000, 85-122, with Gordon H. Hanson and Deborah Swenson.
59. "Using the Gravity Equation to Differentiate Among Alternative Theories of Trade," *Canadian Journal of Economics*, 34(2), May 2001, 430-447, with James R. Markusen and Andrew K. Rose.
60. "Special Issue on Trade and Wages: Introduction," *Journal of International Economics*, 54(1), June 2001, 1-3.
61. "Pricing to Market, Staggered Contracts, and Real Exchange Rate Persistence," *Journal of International Economics*, 54(2), August 2001, 333-359, with Paul R. Bergin.
62. "The Organization of the Taiwanese and South Korean Economies: A Comparative Equilibrium Analysis", in James Rauch and Alessandra Casella, eds., *Networks and Markets*, Russell Sage, 2001, 86-142, with Gary G. Hamilton and Deng-Shing Huang.
63. "Trade and Foreign Direct Investment in China: A Political Economy Approach," *Journal of International Economics*, 58, 2002, 335-358, with Lee Branstetter.

64. "Chaebol and Catastrophe: A New View of Business Groups and Their Role in the Korean Financial Crisis," *Asian Economic Papers*, 1(2), 2002, 1-45, with Gary G. Hamilton and Eun Mie Lim.
65. "Border Effects and the Gravity Equation: Consistent Methods for Estimation," *Scottish Journal of Political Economy*, 49(5), December 2002, 491-506.
66. "A Homothetic Utility Function for Monopolistic Competition Models, Without Constant Price Elasticity," *Economic Letters*, 78, 2003, 79-86.
67. "High Frequency Substitution and the Measurement of Price Indexes," in Robert C. Feenstra and Matthew D. Shapiro, eds., *Scanner Data and Price Indexes*, Univ. of Chicago and NBER, 2003, 123-146, with Matthew D. Shapiro.
68. "A Market-Power Based Model of Business Groups," *Journal of Economic Behavior and Organization*, 51, 2003, 459-485, with Deng-Shing Huang and Gary G. Hamilton.
69. "Technology in the Great Divergence," in Michael D. Bordo, Alan M. Taylor, and Jeffrey G. Williamson, eds, *Globalization in Historical Perspective*, Univ. of Chicago and NBER, 2003, 277-314, with Gregory Clark.
70. "Global Production Sharing and Rising Inequality: A Survey of Trade and Wages," in Kwan Choi and James Harrigan, eds., *Handbook of International Trade*, Basil Blackwell, 2003, 146-187, with Gordon H. Hanson.
71. "Intermediaries in Entrepôt Trade: Hong Kong Re-Exports of Chinese Goods," *Journal of Economics & Management Strategy*, 13(1), Spring 2004, 3-35, with Gordon H. Hanson.
72. "On the Measurement of Product Variety in Trade," *American Economic Review, Papers and Proceedings*, 94(2), May 2004, 145-149, with Hiau Looi Kee.
73. "The Value of Information in International Trade: Gains to Outsourcing through Hong Kong," *Advances in Economic Analysis and Policy*, 4(1), 2004, Article 1, *The B.E. Journals in Economic Analysis and Policy*, with Gordon H. Hanson and Songhua Lin.  
<http://www.bepress.com/bejeap/advances/vol4/iss1/>
74. "Ownership and Control in Outsourcing to China: Estimating the Property-Rights Theory of the Firm," *Quarterly Journal of Economics*, 120(2), May 2005, 729-762, with Gordon H. Hanson.
75. "New Evidence on the Gains from Trade," *Review of World Economics/Weltwirtschaftliches Archiv*, December 2006.
76. "Trade Liberalization and Export Variety: A Comparison of Mexico and China," *World Economy*, forthcoming, with Hiau Looi Kee.



77. "Export Variety and Country Productivity: Estimating the Monopolistic Competition Model with Endogenous Productivity," *Journal of International Economics*, forthcoming, with Hiau Looi Kee.
78. "Should Exact Index Numbers have Standard Errors? Theory and Application to Asian Growth," in *Hard-to-Measure Goods and Services: Essays in Honor of Zvi Griliches*, edited by Ernst R. Berndt and Charles R. Hulten, NBER and Univ. of Chicago Press, forthcoming, with Marshall B. Reinsdorf.

#### REVIEWS AND COMMENTS:

1. "End Voluntary Trade Quotas," *The New York Times*, December 26, 1984.
2. Book review of David P. Baron, *The Export-Import Bank: An Economic Analysis*, in *Journal of International Economics*, 17 (3/4), November 1984, 390-392.
3. "Comment" on "The Effects of Protection on Domestic Output," in Robert E. Baldwin, ed., *The Effects of Protection on Domestic Output*, NBER and University of Chicago Press, 1988, 226-228.
4. "Comment" on "Trade and Technical Progress," by John Helliwell, in Robert M. Solow and Luigi L. Pasinetti, eds. *Economic Growth and the Structure of Long-Run Development*, Macmillan, 1994, 300-303.
5. "Comment" on "Rules of Origin," by Kala Krishna and Anne O. Krueger, in Alan Deardorff, James Levinsohn and Robert Stern, eds. *New Directions in Trade Theory*, University of Michigan Press, 1995, 188-192.
6. "Comment" on "International Trade and Wage Inequality in the United States: Some New Results," by Jeffrey Sachs and Howard Shatz, in Susan Collins, ed. *Imports, Export, and the American Worker*, Brookings Institution, 1998, 241-244.
7. Book Review of Catherine Mann, *Is the U.S. Trade Deficit Sustainable?*, in *Journal of Economic Literature*, June 2001, 137-138.
8. Book Review of Patrick A. Messerlin, *Measuring the Costs of Protection in Europe*, in *World Trade Review*, 1(2), July 2002, 228-230.
9. Book Review of James R. Markusen, *Multinational Firms and the Theory of International Trade*, in *Journal of Economic Literature*, 42, March 2004, 11-12.
10. "Comment" on "Tradable Services: Understanding the Scope and Impact of Services Offshoring," by J. Bradford Jensen and Lori G. Kletzer, in Lael Brainard and Susan Collins, editors, *Brookings Trade Forum*, forthcoming, 2006.

**DATABASES:**

1. "U.S. Imports, 1972-1994: Data and Concordances," NBER Working Paper no. 5515, March 1996, with CD-ROM.
2. "World Trade Flows, 1970-1992, With Production and Tariff Data," NBER Working Paper no. 5910, January 1997, with CD-ROM, with Robert E. Lipsey and Harry P. Bowen.
3. "U.S. Exports, 1972-1994, with State Exports and Other U.S. Data," NBER Working Paper no. 5990, April 1997, with CD-ROM.
4. "Business Groups in South Korea and Taiwan: A Comparison and Database," Program on Pacific Rim Business and Development, UC Davis, Working Paper no. 24, October 1997.
5. "World Trade Flows, 1980-1997," Center for International Data, UC Davis, March 2000.
6. "U.S. Imports, Exports and Tariff Data, 1989-2001," NBER Working Paper no. 9387, 2002, with John Romalis and Peter Schott.
7. "World Trade Flows: 1962-2000," NBER Working Paper no. 11040, 2005, with Robert E. Lipsey, Haiyan Deng, Alyson C. Ma, and Hengyong Mo.

**WORKING PAPERS:**

1. "Estimating Real Production and Expenditures Across Countries: A Proposal for Improving the Penn World Tables," NBER Working Paper no. 10866, 2004, with Alan Heston, Marcel P. Timmer, and Haiyan Deng.
2. "Re-Assessing the U.S. Quality Adjustment to Computer Prices: The Role of Durability and Changing Software," NBER Working Paper no. 10857, 2004, being revised for conference volume of the National Bureau of Economic Research, with Christopher R. Knittel.
3. "Buyer Investment, Product Variety, and Intrafirm Trade," NBER Working Paper no. 11752, 2005, with Yongmin Chen.
4. "Contractual Versus Generic Outsourcing: The Role of Proximity," NBER Working Paper no. 11885, 2005, with Barbara Spencer.