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CAMPUS ADDRESS

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EDUCATION

Ph.D. Economics, Stanford University, 1990.

B.A. Economics, University of California, Davis, 1982.

PROFESSIONAL EXPERIENCE

Zachary Taylor Smith Distinguished Professorship, 2005-10.

Professor, University of North Carolina, 2001-present.

Research Associate, National Bureau of Economic Research, 1999-present.

Visiting Fellow, Public Policy Institute of California, 1997-98.

Associate Professor, University of North Carolina, 1996-2000.

Assistant Professor, University of North Carolina-Chapel Hill, 1990-96.

Faculty Research Fellow, National Bureau of Economic Research, 1994-99.

Faculty Fellow, Center of Urban and Regional Studies, University of North Carolina-Chapel Hill, 1994-present.

Acting Assistant Professor, University of North Carolina-Chapel Hill, 1989-90.

Research Fellow, Institute of Governmental Affairs, University of California-Davis, 1990-present.

AWARDS

Arthur H. Cole Prize for the outstanding article published in the *Journal of Economic History* 2002-03.

Wayne D. Rasmussen Award for best article published on some aspect of agricultural history in a journal other than *Agricultural History*, 2001.

Arthur H. Cole Prize for the outstanding article published in the *Journal of Economic History* 1995-96.

Vernon Carstensen Award for best article published in *Agricultural History*, 1995.

UNC College of Arts and Sciences, Faculty Partner Fund Award, 2004-07.

Railway and Locomotive History Society, Pacific Coast Chapter, Research Fellowship, 1994-95.

National Science Foundation, Graduate Fellowship, 1982-84, 1985-86.

PROFESSIONAL ASSOCIATIONS

American Economic Association
Cliometrics Society
Economic History Association

PROFESSIONAL ACTIVITIES

Journal of Economic History Editorial Board, 2004-08.

Cliometrics Society, Trustee, elected 2003-07.

Economic History Association, Allan Nevins Dissertation Prize Convener, 2002-03.

Economic History Association, Alice Hanson Jones Book Prize Committee, 2000-05.

Referee: *Agricultural History*, *Eastern Economic Journal*, *Econometrica*, *Explorations in Economic History*, *Independent Review*, *International Journal of Industrial Organization*, *Journal of Economic History*, *Journal of Economic Theory*, *Managerial and Decision Economics*, *Structural Change and Economic Dynamics*, *Quarterly Journal of Economics*, National Science Foundation, *Research in Economic History*.

BOOKS AND MONOGRAPHS

- 2001 *The Evolution of California Manufacturing*. San Francisco: Public Policy Institute of California, 109 pp.
- 2005 *The Global Economy in the 1990s: A Long-Run Perspective* (Cambridge: Cambridge University Press, in press) (co-edited with Gianni Toniolo).
- 2007 “Biological Innovation and American Agricultural Development, 1700-1960” (Book mss. in progress and under contract with Cambridge University Press) (co-authored with Alan L. Olmstead).

PAPERS

- 1985 “Rationing without Government: The West Coast Gas Famine of 1920,” *American Economic Review* (75:5) pp. 1044-1055 (with Alan L. Olmstead).*
- 1988 “The Farm Energy Crisis of 1920,” *Agricultural History* (62:1), pp. 48-60 (with Alan L. Olmstead). *
- 1988 “An Overview of California Agricultural Mechanization, 1870-1930,” *Agricultural History* (62:2) pp. 86-112 (with Alan L. Olmstead). * Reprinted in M. Rothstein and D. Field (eds.), *Quantitative Studies in Agrarian History* (Ames: Iowa State University Press, 1993), pp. 83-109.
- 1989 “U.S. Energy Crisis of 1920 and the Search for New Energy Supplies,” in R. W. Ferrier and A. Fursenko (eds.), *Oil Industry and World Economic Development* (London: Routledge) pp. 83-93 (with Alan L. Olmstead).
- 1993 “Induced Innovation in American Agriculture: A Reconsideration,” *Journal of Political Economy* 101:1 (Feb.) pp. 100-118 (with Alan L. Olmstead).*
- 1994 “The Nash Thesis Revisited: An Economic Historian's View,” *Pacific Historical Review* (63:31), pp. 363-92.* Reprinted in S. Chan and S. Olin (ed.) *Major Problems in California History* (Boston: Houghton Mifflin, 1996), pp. 316-23.
- 1994 “The Agricultural Mechanization Controversy, 1919-1945,” *Agricultural History* 68:3 (Summer) pp. 35-53 (with Alan L. Olmstead). *

* Refereed.

- 1995 “Beyond The Threshold: An Analysis of the Characteristics and Behavior of Early Reaper Adopters,” *Journal of Economic History* 55:1 (March), pp. 27-57 (with Alan L. Olmstead).*
- 1995 “Learning, Capital Accumulation, and the Transformation of California Agriculture,” *Journal of Economic History* 55:4 (Dec.) pp. 773-800.*
- 1995 “La Intensificación de la Agricultura Californiana,” in J. Morilla Critz (dir.), *California y Mediterráneo: Estudios de la Historia de Dos Agriculturas Competidoras* (Madrid: Ministerio de Agricultura, Pesca, y Alimentación), pp. 72-120.
- 1995 “La Competencia Internacional en Productos Mediterraneos y el Auge de la Industria Fruticola Californiana,” in J. Morilla Critz (dir.), *California y Mediterráneo: Estudios de la Historia de Dos Agriculturas Competidoras* (Madrid: Ministerio de Agricultura, Pesca, y Alimentación) pp. 173-232 (with Alan L. Olmstead).
- 1996 “A Comment on 'Learning, Mutation, and Long-Run Equilibria in Games',” *Econometrica* 64:2 (March) pp. 443-49 (with Mark Stegeman).*
- 1997 “Overview of the History of California Agriculture,” in J. Siebert (ed.), *California Agriculture: Present and Future* (Berkeley: Giannini Foundation, University of California) pp. 1-27 (with Alan L. Olmstead).
- 1997 “The Rise of the California Fruit Industry and the Globalization of Markets for Mediterranean Horticultural Products, 1880-1930,” in J. Morilla Critz, J. Gómez-Pantoja, and P. Cressier (dir.), *Los Impactos Exteriores Sobre la Agricultura y el Mundo Real Mediterraneos a lo Largo de la Historia* (Madrid: Ministerio de Agricultura, Pesca, y Alimentación) pp. 433-52 (with Alan L. Olmstead).
- 1998 “Induced Innovation in American Agriculture: An Econometric Analysis,” *Research in Economic History* pp. 103-19 (with Alan Olmstead).*
- 1999 “‘Horn of Plenty’: The Globalization of Mediterranean Horticulture and the Economic Development of Southern Europe, 1880-1930,” *Journal of Economic History* 59:2 (June) pp. 316-52 (with José Morilla Critz and Alan L. Olmstead).*

- 2000 “The Impact of World War Two Spending on the California Economy,” in R. Lotchin (ed.), *The Way We Really Were: The Golden State in the Second Great War* (Urbana: University of Illinois Press) pp. 93-119.
- 2000 “International Competition and the Development of the Dried Fruit Industry, 1880-1930,” in S. Pamuk and J. Williamson (eds.), *The Mediterranean Response to Globalization Before 1950* (London: Routledge) pp. 199-232 (with José Morilla Critz and Alan L. Olmstead).
- 2000 “The Transformation of Northern Agriculture from 1910-90,” in S. Engerman and R. Gallman (eds.), *Cambridge Economic History of the United States, Vol. III: The Twentieth Century* (Cambridge: Cambridge Univ. Press) pp. 693-742 (with Alan L. Olmstead).*
- 2001 “Evolution Through Imitation: The Case of Duopoly,” *International Journal of Industrial Organization* 19:3-4 (March) pp. 415-54 (with Mark Stegeman).*
- 2001 “Reshaping the Landscape: The Impact and Diffusion of the Tractor in American Agriculture, 1910-60,” *Journal of Economic History* 61:3 (Sept.) pp. 663-698 (with Alan L. Olmstead).* Also appears as NBER WP No. 7947.
- 2002 “The Red Queen and the Hard Reds: Productivity Growth in American Wheat, 1800-1940,” *Journal of Economic History* 62:4 (Dec.) pp. 929-966. (with Alan L. Olmstead).* A fuller version appears as NBER WP No. 8863.
- 2003 “Hog Round Marketing, Seed Quality, and Government Policy: Institutional Change in U. S. Cotton Production, 1920-60,” *Journal of Economic History* 63:2 (June) pp. 447-88. (with Alan L. Olmstead).* A fuller version appears as NBER WP No. 9612.
- 2003 “Historical Perspectives on Exotic Pests and Diseases in California Agriculture” Ch. 5 in Daniel A. Sumner (ed.), *Exotic Pests and Diseases: Biology, Economics and Public Policy for Biosecurity* (Ames, IA: Iowa State University Press) pp. 55-67 (with Susana Iranzo and Alan L. Olmstead).
- 2003 “Biological Innovation in American Wheat Production: Science, Policy, and Environmental Adaptation,” in Susan Schrepfer and Philip Scranton (eds.), *Industrializing Organisms: Introducing Evolutionary History* (New York: Routledge) pp. 43-83 (with Alan L. Olmstead.)

- 2003 “Assessing the Importance of Tiebout Sorting: Local Heterogeneity from 1850 to 1990,” *American Economic Review* 93:5 (Dec.) pp. 1648-77 (with Koleman Strumpf).* An earlier version appears as NBER WP 7946.
- 2003 “The Evolution of California Agriculture,” Ch. 1, in J. Siebert (ed.), *California Agriculture: Dimensions and Issues* (Berkeley: Giannini Foundation, University of California) pp. 1-28 (with Alan L. Olmstead).
- 2004 “After the War Boom: Re-conversion on the Pacific Coast, 1943-49,” Ch. 8 in W. Sundstrom, T Guinnane, and W. Whatley (eds.), *History Matters: Essays on Economic Growth, Technology, and Demographic Change* (Stanford, CA: Stanford University Press) pp. 187-220. A fuller version appears as NBER WP No. 9854.
- 2004 “Historical Presidential Betting Markets,” *Journal of Economic Perspectives* 18:2 (Spring) pp. 127-42 (with Koleman Strumpf).
- 2004 “An Impossible Undertaking: The Eradication of Bovine Tuberculosis in the United States” *Journal of Economic History*, 64:3 (Sept.) pp. 734-72 (with Alan L. Olmstead).*
- 2004 “Stochastic Darwinian Equilibria in Small and Large Populations” *Games and Economic Behavior* 49:1 (Oct.) pp. 171-214. (with Mark Stegeman).*
- 2004 “The ‘Tuberculous Cattle Trust’: Disease Contagion in an Era of Regulatory Uncertainty,” *Journal of Economic History* 64:4 (Dec.) pp. 929-63 (with Alan L. Olmstead).*
- 2005 “American Farms and Farm Structure,” chapter of “Agriculture” section of *Millennial Edition of Historical Statistics of the United States* (Cambridge University Press, forthcoming, m.s. pages 143) (with Alan L. Olmstead).*
- 2005 “Crops and Livestock” chapter of “Agriculture” section of *Millennial Edition of Historical Statistics of the United States* (Cambridge University Press, forthcoming, m.s. pages 207) (with Alan L. Olmstead).*
- 2005 “NIPA before 1929” chapter of “National Income and Product Accounts” section of *Millennial Edition of Historical Statistics of the United States* (Cambridge University Press, forthcoming, m.s. pages 75) (with Richard Sutch).
- 2005 “Biological Innovation and American Agricultural Development,” in K. Kauffman (ed.), *Advances in Agricultural Economic History*. (Stamford,

CN: JAI Press, forthcoming, ms. pages 51) (with Alan L. Olmstead).*

- 2005 “Understanding the 1990s: A Long-Run Perspective,” in Paul Rhode and Gianni Toniolo (eds.), *The Global Economy in the 1990s: A Long-Run Perspective* (Cambridge: Cambridge University Press, forthcoming, ms. pages 42) (with Gianni Toniolo).

BOOK REVIEWS AND MISCELLANEOUS

- 1991 “An Interview with William Parker,” *The Newsletter of the Cliometrics Society* (6:2) pp. 3-8, 19-25. To be reprinted in Samuel Williamson et al., *Eminent Economic Historians: Conversations with the Founders of the New Economic History, Cliometrics and Beyond* (Routledge, forthcoming)
- 1992 Review of Gerald Nash, *World War II and the West: Reshaping the Economy in Southwestern Historical Quarterly* (XCV: 4) p. 556.
- 1992 Review of William H. Mullins, *The Depression and the Urban West Coast, 1929-1933* in *Journal of Economic History* (June) pp. 516-517.
- 1997 Review of Jules Tygiel, *The Great Los Angeles Swindle: Oil, Stocks, and Scandal During the Roaring Twenties* in *Journal of Economic History* (Dec.) pp. 972-73.
- 1998 Revised Entries on “Aerospace” and “Western Airlines” in H. Lamar (ed.), *Reader's Encyclopedia of the American West* (New Haven: Yale Univ. Press, 1998).
- 2000 Review of Victoria S. Woeste, *The Farmer's Benevolent Trust: Law and Agricultural Cooperation in Industrial America, 1865-1945* on eh.net 15 Feb 2000.
- 2000 Reviews of Peter Schrag, *Paradise Lost, California's Experience, America's Future* and Carey McWilliams, *California: The Great Exception* in *Journal of Economic History* (Sept.) pp. 889-91.
- 2001 Review of David Vaught, *Cultivating California: Growers, Specialty Crops, and Labor, 1875-1920* in *Agricultural History Review* 49:II, pp. 233-34.
- 2003 Entry on “Horticulture” in J. Mokyr (ed.), *Oxford Encyclopedia of Economic History* (New York: Oxford).

- 2003 Review of Arnulf Grübler, Nebojsa Nakicenovic, and William Nordhaus
Technological Change and the Environment in *Journal of Economic
History* 63:3 (Sept.) pp. 921-22.
- 2003 “An Interview with Peter Lindert” *The Newsletter of the Cliometrics
Society* (with Michael Hauptert).
- 2004 “Dissertations of Law, Johnson, and Priest” in *Journal of Economic
History* 64:2 (June) pp. 579-86.
- 2005 Review of Angus Madison, *The World Economy: Historical Statistics*, in
Journal of Economic History 65:1 (March) pp. 283-84.
- 2005 Entry on “Los Angeles-Long Beach” in J. McCusker, L. Cain, S.
Engerman, D. Hancock, K. Pomeranz, eds. *History of World Trade*
(New York: McMillan).

PAPERS FOR LIMITED DISTRIBUTION

- 1983 “A Survey of the Development of California Agricultural Machinery,”
Agricultural History Center Working Paper, No. 11 (with Alan Olmstead)
(m.s. pages 111).
- 1990 “Growth in a High-Wage Economy: California's Industrial Development,
1900-1960,” Ph.D. Dissertation, Economics Department, Stanford
University (m.s. pages 238).
- 1994 “California's Emergence as the Second Industrial Belt: The Pacific Coast
Tire and Automobile Industries” (m.s. pages 38).
- 1995 “The Dynamics of American Agricultural Growth” (m.s. pages 110).
- 1995 “Oil versus Industry?: The Case of Early 20th Century California” (m.s.
pages 35).
- 1996 “Technology, Markets, and the Dynamics of Business Location: The
Pacific Coast Aircraft Industry, 1909-39” (m.s. pages 48).
- 1996 “California's Emergence as the Second Industrial Belt: Patterns and
Processes of Manufacturing Growth, 1859-1967” (m.s. pages 31).

- 1998 “Searching for Home Market Effects: California Manufacturing, 1859-1963” (m.s pages 32).
- 2001 “Thresholds and Tractors: A Market-Based Critique” (with Alan L. Olmstead) (m.s. pages 34).
- 2001 “‘The Great Arsenal of Democracy’: The Political Economy of the County-Level Allocation of World War Two Military Spending” (with James Snyder and Koleman Strumpf) (m. s. pages 47).
- 2002 “Gallman’s Annual Output Series for the United States, 1834-1909” (m.s pages 37). Available as NBER WP 8860.
- 2004 “Harvests and Business Cycles in Nineteenth-Century America (with Joseph H. Davis and Christopher Hanes) (m.s. pages 60).
- 2004 “Opposition to New Technology: Farmer Resistance to the Tuberculin-Testing Program to Eradicate Bovine Tuberculosis in the United States, 1893-1941.” (with Alan L. Olmstead) (m.s. pages 37).
- 2005 "Wait a Cotton Pickin' Minute!: A New View of Slave Productivity" (with Alan L. Olmstead) (m.s. pages 47).