

September 2014

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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

Professor of Economics, University of Michigan, 2009-present.

McClelland Professor of Economics. University of Arizona, 2007-2009.

Smith Distinguished Professorship, University of North Carolina 2005-06.

Professor, University of North Carolina, 2001-2006.

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.

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

AWARDS AND GRANTS

National Science Foundation, Collaborative Research Grant, “The Dramatic Rise in Agricultural Productivity in the U.S. during the Twentieth Century: Disentangling the Roles of Technological Change, Government Policy, and Climate.” Co-PI with Price Fishback, SES- 0921732, 2009-13.

National Science Foundation, Collaborative Research Grant, “Seeds and Slaves: Technological Change, Plantation Efficiency, and Southern Economic Development” SES- 0550913, 2006-10.

Alice Hanson Jones Prize, awarded by the Economic History Association for the best book on North American Economic History published in 2008-10.

Clio “Can” for Exceptional Support to the Field of Cliometrics, 2010-11.

Agricultural and Applied Economics Association, Award for Professional Excellence for Quality of Research Discovery, 2009.

Wayne D. Rasmussen Award for best article published on some aspect of agricultural history in a journal other than *Agricultural History*, 2009.

Railway and Locomotive History Society, Agricultural History Center, Railway Research Fellowship, 2008.

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, Co-editor, 2012-present.
 Economic History Association, Board of Trustees, 2009-13.
Explorations in Economic History, Editorial Board, 2009-present.
Journal of Economic History, Book Review Co-editor, 2008-12.
 Economic History Association, Program Committee Chair, 2008.
Journal of Prediction Markets, Editorial Board, 2007-present.
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.
 Economic History Association, Local Arrangements Committee Member, 1996, 2009.
 NBER Development of the American Economy, Summer Institute Program Committee, 2009-10.
 American History Association, NASA Fellowship Committee, 2008-2010.

Referee: *Agricultural History*, *American Council of Learned Societies*, *American Economic Review*, *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

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|------|---|
| 2001 | <i>The Evolution of California Manufacturing</i> . San Francisco: Public Policy Institute of California. |
| 2006 | <i>The Global Economy in the 1990s: A Long-Run Perspective</i> (Cambridge: Cambridge University Press) (co-edited with Gianni Toniolo). |
| 2008 | <i>Creating Abundance: Biological Innovation and American Agricultural Development</i> (Cambridge: Cambridge University Press) (co-authored with Alan L. Olmstead). |
| 2011 | <i>Economic Evolution and Revolution in Historical Time</i> (Stanford, CA: Stanford University Press) (co-edited with Joshua Rosenbloom and David Weiman). |

- 2015 *Arresting Contagion: Science, Policy, and Conflicts over Animal Disease Control* (Cambridge, MA: Harvard Univ. Press, 2015) (with Alan L. Olmstead).
- 2016 *Oxford Handbook of American Economic History*, (Oxford: Oxford Univ. Press, forthcoming) (co-edited with Louis P. Cain and Price V. Fishback).

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). *
- 1995 “Beyond The Threshold: An Analysis of the Characteristics and Behavior of Early Reaper Adopters,” *Journal of Economic History* 55:1 (March),

* Refereed.

- 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).*
- 2005 “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).*
- 2006 “NIPA before 1929” chapter of “National Income and Product Accounts” section of *Millennial Edition of Historical Statistics of the United States* (Cambridge University Press) Vol. III, pp. 12-30, 57-69 (with Richard Sutch).
- 2006 “American Farms and Farm Structure,” chapter of “Agriculture” section of *Millennial Edition of Historical Statistics of the United States* (Cambridge University Press) Vol. IV, pp. 10-15, 39-88 (with Alan L. Olmstead).*
- 2006 “Crops and Livestock” chapter of “Agriculture” section of *Millennial Edition of Historical Statistics of the United States* (Cambridge University Press) Vol. IV, pp. 15-18, 89-192 (with Alan L. Olmstead).*
- 2006 “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) (with Gianni Toniolo), pp. 1-20.
- 2007 “Biological Globalization: The Other Grain Invasion,” in T. Hatton, K.

- O'Rourke, and A. Taylor, (eds.), *The New Comparative Economic History: A Volume Honoring Jeffrey G. Williamson* (Cambridge: MIT Press, 2007) (with Alan L. Olmstead), pp. 115-40.
- 2007 "Not on My Farm!: Farmer Resistance to the Tuberculin-Testing Program to Eradicate Bovine Tuberculosis in the United States, 1893-1941." *Journal of Economic History*, 67:3 (Sept.), pp. 768-809 (with Alan L. Olmstead).*
- 2008 "Biological Innovation and Productivity Growth in the Antebellum Cotton Economy" *Journal of Economic History*, 68:4 (December) pp. 1123-71 (with Alan L. Olmstead)* Also appears as NBER WP No. 14142.
- 2008 "Quantitative Indices of the Early Growth of the California Wine Industry" in José Morilla Critz, Juan Hernández Andréu, José Luis García Ruiz and José María Ortiz Villajos (eds), *Homenaje al Profesor Tortella* (Alcalá, Spain: Servicio de Publicaciones de la Universidad de Alcalá, 2008) (with Alan L. Olmstead).
- 2009 "Conceptual Issues for the Comparative Study of Agricultural Development," Pedro Lains and Vicente Pinilla (eds.), *Agriculture and Economic Development* (London: Routledge Press), pp. 27-51, (with Alan L. Olmstead).
- 2009 "The Impact of the Boll Weevil, 1892-1932" *Journal of Economic History*, 69:3 (Sept.) pp. 685-718 (with Fabian Lange and Alan L. Olmstead).*
- 2009 "Harvests and Business Cycles in Nineteenth-Century America" *Quarterly Journal of Economics*, 124: 4 (Nov.), pp. 1675-1727 (with Joseph H. Davis and Christopher Hanes).*
- 2010 "Adapting North American wheat production to climatic challenges, 1839-2009," *Proceedings of National Academy of Sciences*, Early (Online) Edition: December 27, 2010, doi:10.1073/pnas.1008279108; Print: January 11, 2011, 108 (2) 480-485, with Alan L. Olmstead.*
- 2011 "Introduction" in Paul W. Rhode, Joshua Rosenbloom and David Weiman, eds., *Economic Evolution and Revolution in Historical Time* (Stanford, CA: Stanford University Press) (with Joshua Rosenbloom and David Weiman), pp. xv-xx, 23-26, 137-140, 273-276.
- 2011 "Productivity Growth and the Regional Dynamics of Antebellum

- Southern Development,” in Paul W. Rhode, Joshua Rosenbloom and David Weiman, eds., *Economic Evolution and Revolution in Historical Time* (Stanford, CA: Stanford University Press), pp. 180-213 (with Alan L. Olmstead).
- 2011 "The Effects of Weather Shocks on Crop Prices in Unfettered Markets: The United States Prior to the Farm Programs, 1895-1932," in Gary D. Libecap and Richard H. Steckel, eds. *Climate Change Past and Present: Uncertainty and Adaptation*, (Chicago, Univ. of Chicago Press) pp. 99-130 (with Jonathan Fox and Price V. Fishback).
- 2011 "The Trials of Job: The Impact of Climate and Weather on Infant and Non-Infant Death Rates During the Great Depression," in Gary D. Libecap and Richard H. Steckel, eds. *Climate Change Past and Present: Uncertainty and Adaptation*, (Chicago, Univ. of Chicago Press) pp.131-168 (with Price V. Fishback, Werner Troesken, Trevor Kollman, Michael Haines, and Melissa Thomasson).
- 2011 "Responding to Climatic Challenges: Lessons from U.S. Agricultural Development," in Gary D. Libecap and Richard H. Steckel, eds. *Climate Change Past and Present: Uncertainty and Adaptation*, (Chicago, Univ. of Chicago Press) pp. 169-94 (with Alan L. Olmstead).
- 2012 “The Eradication of Bovine Tuberculosis in the United States in a Comparative Perspective” in David Zilberman, ed., *Human and Environmental Health and the Future of Animal Agriculture in Developing Countries* (New York: Springer) pp. 7-30 (with Alan L. Olmstead).
- 2012 “Did Plant Patents Create the American Rose?” in Joshua Lerner and Scott Stern, eds., *The Rate and Direction of Inventive Activity Revised* (Chicago: Univ. of Chicago Press) pp. 413-442 with Petra Moser. (NBER WP# 16983).
- 2012 “Moving to Higher Ground: Migration Response to Natural Disasters in the Early Twentieth Century” *American Economic Review, Papers and Proceedings*, (May) pp. 238-44 (with Leah Platt Boustan and Matthew E. Kahn).
- 2013 “Harvests and Financial Crisis in Gold-Standard America,” *Journal of Economic History* 73:1 (March), pp. 201-46 (with Christopher Hanes).*
- 2013 “The Long History of Political Betting Markets: An International

- Perspective” in Leighon V. Williams and Donald Siegel, eds. *Oxford Handbook on the Economics of Gambling* (Oxford, Eng.: Oxford University Press) Ch. 29, pp. 560-87 (with Koleman Strumpf).
- 2013 “New deal or no deal in the Cotton South: The effect of the AAA on the agricultural labor structure,” *Explorations in Economic History* 50: 4, (Oct.) pp. 466-86 (with Briggs Depew and Price V. Fishback). *
- 2014 “Crops and Culture Roundtable: Do Crops Shape Culture: Contrasting Cotton and Wheat in Nineteenth-Century America” *Agricultural History* 88: 3, (Summer), pp. 416-21
- 2014 “Agricultural Mechanization,” in Neal K. Van Alfen, ed., *Encyclopedia of Agriculture and Food Systems* (Elsevier) (with Alan L. Olmstead).
- 2014 “Can We Adapt to Climate Change? Lessons from Past Agricultural Challenges.” *ARE Update* 18, no. 6 (Sept./Oct.) Special Issue: Climate Change: Challenges to California’s Agriculture and Natural Resources, (with Alan L. Olmstead), 9-12.
- 2015 “Were Antebellum Cotton Plantations Factories in the Field?” William J. Collins and Robert A. Margo, eds., *Enterprising America: Businesses, Banks, and Credit Markets in Historical Perspective*, (Chicago: Univ. of Chicago Press for NBER, forthcoming). (with Alan L. Olmstead).
- 2016 “Agriculture and American Economic History” in Louis P. Cain, Price V. Fishback, and Paul W. Rhode, *Oxford Handbook of American Economic History* (Oxford: Oxford Univ. Press, forthcoming) (with Alan L. Olmstead).
- 2016 “Growth and Structural Change in American Manufacturing” in Louis P. Cain, Price V. Fishback, and Paul W. Rhode, *Oxford Handbook of American Economic History* (Oxford: Oxford Univ. Press, forthcoming) (with Changkeun Lee).
- 2016 “Agricultural Technology and Science in America” in Hugh Slotten and Steve Usselman, eds. *Oxford Encyclopedia of the History of Science, Medicine, and Technology* (Oxford University Press, forthcoming) (with Alan L. Olmstead).

BOOK REVIEWS AND MISCELLANEOUS

- 1991 “An Interview with William Parker,” *The Newsletter of the Cliometrics Society* (6:2) pp. 3-8, 19-25. Reprinted in Samuel Williamson et al., *Eminent Economic Historians: Conversations with the Founders of the New Economic History, Cliometrics and Beyond* (Routledge, 2008), pp. 117-193.
- 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).
- 2006 Review of Douglas Cazaux Sackman, *Orange Empire: California and the Fruits of Eden* and Nahum Karlinsky, *California Dreaming: Ideology, Society, and Technology in the Citrus Industry of Palestine, 1890-1939* on eh.net 14 Nov. 2006
- 2008 Review of Thomas K. McCraw, *Prophet of Innovation: Joseph Schumpeter and Creative Destruction* in *Journal of Economic History*.
- 2009 Review of Ann N. Greene, *Horses at Work: Harnessing Power in Industrial America* in *Journal of Economic History*.
- 2011 Review of Alexander J. Field, *A Great Leap Forward: 1930s Depression and US Economic Growth* on eh.net Dec. 2011.
- 2013 Review of James Simpson, *Creating Wine: The Emergence of a World Industry, 1880-1914* in *Historia Agraria* (Abril), pp. 208-10.