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Date of Birth: 16 January 1949

Degrees: BA, University of Cambridge (Jesus College), UK, 1971
Ph.D. Indiana University, 1976

Current Positions: Research Professor of Economics, Vanderbilt University (2013-)
Professor of Economics, Emeritus, Vanderbilt University (2013-)
Research Associate, National Bureau of Economic Research (1989-)

Previous Positions: Professor of Economics, Vanderbilt University (1993-2013)
Professor of History, Vanderbilt University (2000-2013)
Chair, Department of Economics, Vanderbilt University (1998-2002)
Kinkead Research Scholar, University of Illinois (1992-1993)
Professor of Economics, University of Illinois (1985-1993)
Visiting Professor of Economics, Harvard University (1987/88)
Associate Professor, University of Illinois (1980-1985)
Assistant Professor, University of Illinois (1976-1980)
Visiting Assistant Professor, Indiana University (1975/76)
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Published Articles and Notes (earliest to most recent)

1. (with Haites, Mak, and Walton), "The Profitability of Steamboating on the Western Rivers: 1850," *Business History Review*, 49 (Fall 1975), 346-354.
2. "Returns to Scale in Antebellum United States Manufacturing," *Explorations in Economic History*, 14 (October 1977), 337-359.
3. "Economies of Scale in Western River Steamboating: A Comment," *Journal of Economic History*, 38 (June 1978), 457-466.
4. "Estimation of Economies of Scale in Nineteenth Century United States Manufacturing and the Form of the Production Function," *Journal of Economic History*, 38 (March 1978), 268-270.
5. (with Bateman), "The Profitability of Northern Agriculture in 1860," *Research in Economic History*, 4 (1979), 87-125.
6. "Fact in Fiction? The Relative Costs of Steam and Water Power: A Simulation Approach," *Explorations in Economic History*, 16 (October 1979), 409-437.
7. (with Bateman), "The Measurement and Trend of Inequality: An Amendment to a Basic Revision" *Economic Letters*, 4 (1979), 389-393.
8. (with Bateman), "The Economic History of Small Business in the [East North Central] Region," in *The Environment for Entrepreneurship and Small Business*, Washington: Small Business Administration (1980). Prepared for the White House Conference on Small Business, January 1980.
9. "Comment on 'The Early Problems,'" in Fred Bateman (ed.), *Business in the New South: A Historical Perspective*, papers presented at the First Annual Sewanee Economics Symposium, Sewanee: The University of the South, 1980, 151-153.
10. (with Bateman and Weiss), "The Regional Diffusion and Adoption of the Steam Engine in American Manufacturing," *Journal of Economic History*, 40 (June 1980), 281-308.
11. "Average and Best Practice Yields in Nineteenth Century Illinois Agriculture," *Proceedings of the Tenth Annual Meeting of the Illinois Economic Association*, Chicago (1980), 21-29.
12. (with Bateman), "Egalitarianism, Inequality, and Age: The Rural North in 1860," *Journal of Economic History*, 41 (March 1981), 85-93.
13. (with Bateman), "The 'Egalitarian Ideal' and the Distribution of Wealth in the Northern Agricultural Community: A Backward Look," *The Review of Economics and Statistics*, 63 (February 1981), 124-129.
14. (with Bateman and Weiss), "Risk, the Rate of Return and the Pattern of Investment in Nineteenth Century American Industry," *Southern Economic Journal*, 49 (July 1982), 150-163.
15. (with Brueckner), "Steel Rails and American Railroads, 1867-1880," *Explorations in Economic History*, 19 (October 1982), 339-359.
16. (with Bateman), "The Development of Industrial Steam Power in the Midwest with Special Reference to Indiana," *The Old Northwest*, 8 (Winter 1982-83), 329-351.
17. "Farm and Farm-Making Costs Revisited," *Agricultural History*, 56 (October 1982), 663-676.
18. (with Brueckner), "Steel Rails and American Railroads, 1867-1880: A Reply to Harley," *Explorations in Economic History*, 20 (July 1983), 258-262.

19. "Is High Tech the Cure for the Unemployment Blues?" in William Bryant (ed.), *Illinois Economic Outlook*, 1984 (University of Illinois, BEBR, 1984).
20. (with Bateman), "Self-Sufficiency and the Marketable Surplus in the Rural North, 1860," *Agricultural History*, 58 (June 1984), 296-313.
21. (with Bateman), "Mid-Nineteenth Century Crop Yields and Labor Productivity Growth in American Agriculture: A New Look at Parker and Klein," in Gary Saxonhouse and Gavin Wright (eds.), *Form and Technique: Essays in Honor of William N. Parker*, JAI Press (1984), 215-41.
22. (with Bateman), "Marketable Surpluses on Northeastern and Midwestern Farms in 1859-60," *Social Science History*, 8 (October 1984), 371-393.
23. "Industrial Structure and the Emergence of the Modern Industrial Corporation," *Explorations in Economic History* 22:1 (January 1985), 29-52.
24. "Industrial Structure and the Size Distribution of Firms in American Industry in the Nineteenth Century," *Journal of Economic History*, 46 (June 1986), 463-76.
25. "Economies of Scale and Efficiency Gains in the Rise of the Factory in America, 1820-1900" in Peter Kilby (ed.), *Quantity and Quiddity: Essays in Honor of Stanley L. Lebergott*, Wesleyan University Press (1987), 286-335.
26. (with Bateman), "Yankee Farming and Settlement in the Old Northwest: A Comparative Analysis," in L. Galloway and R. Vedder, *Essays on the Economy of the Old Northwest: A Bicentennial Celebration of the Northwest Ordinances* (Athens: Ohio University Press, 1987), 77-102.
27. "Tenants and Yeomen in the Nineteenth Century," *Agricultural History*, 62, 3 (Summer 1988), 6-32.
28. "The Agricultural Ladder Revisited: A New Look at an Old Question with Some Data for 1860," *Agricultural History*, 63, 1 (Winter 1988), 1-25.
29. (with Bateman), "Land and the Development of Mid-Nineteenth Century Agricultural Organization in the Northern States," in George Grantham and Carol Leonard (eds.), *Agrarian Organization in the Century of Industrialization: Europe, Russia and North America* (published as *Research in Economic History*, volume 11, supp. 5B, 1989), 279-312.
30. "The Evolution of Regional Economic Differences within Illinois, 1818-1950," in Peter Nardulli (ed.), *Diversity, Conflict, and State Politics: Regionalism in Illinois* (Urbana, IL: University of Illinois Press, 1989).
31. (with James Bruehler, Jr.), "Employment Trends in Illinois," in *1990: Illinois Economic Outlook*, ed. William Bryan and Lori Williamson (BEBR, UIUC: 1989), 12-13.
32. (with Bishop, Bryan and Newbold), "The Illinois Econometric Model," in *1991: Illinois Economic Outlook*, ed. William Bryan and Lori Williamson (BEBR, UIUC: 1990).
33. (with Bateman), "Yeoman Farming: Antebellum American's Other 'Peculiar Institution,'" in Lou Ferleger (ed.), *Agriculture and National Development: Views of the Nineteenth Century* (Iowa State University Press, 1990), 25-51.
34. (with Bateman), "How Long Was the Workday in 1880?" *Journal of Economic History*, 52, 1 (March 1992), 129-160.
35. "Comment on 'Invention, Innovation, and Manufacturing Productivity Growth in Early Nineteenth Century America,'" in *The Standard of Living in Early Nineteenth Century America*, Robert E. Gallman and John Wallis (eds.) (Chicago: University of Chicago Press for NBER, 1992).

36. "Comment on 'Productivity Growth in Massachusetts Agriculture: The Turning Point Revisited,'" in *The Standard of Living in Early Nineteenth Century America*, Robert E. Gallman and John Wallis (eds.) (Chicago: University of Chicago Press for NBER, 1992).
37. (with Bateman and Eschelbach Gregson), "'Matchmaker, Matchmaker, Make me a Match': A General Personal Computer-Based Matching Program for Historical Research," *Historical Methods*, 25, 2 (Spring 1992), 53-65.
38. (with Bateman), "Was There Ever an 'Agrarian Democracy' in America? The American Middle West in 1860," in *Outstanding in His Field: Perspectives on American Agriculture in Honor of Wayne Rasmussen*, ed. Fred V. Carstensen, Morton Rothstein and Joseph Swanson (Iowa State University Press, 1993), 69-89.
39. (with Bateman), "The Effect of Long Hours of Work on Productivity," in Carol S. Leonard and B. N. Mironov (eds.) *Hours of Work and the Means of Payment: Proceedings of the Eleventh International Economic History Congress*, (Milan: Universita Bocconi, 1994), pp. 83-91.
40. "Long Trends in Productivity" in Julian Simon (ed.), *The State of Humanity* (Oxford: Blackwell Publishers, 1995) 161-170.
41. "Introduction" [to Special Issue on Historical Research on Real Estate Issues] *Journal of Real Estate Finance and Economics*, Vol. 16, No. 2 (March 1998): 131-34.
42. (with Margo) "Location, Location, Location! The Price Gradient for Vacant Urban Land: New York, 1835-1900" *Journal of Real Estate Finance and Economics*, Vol. 16, No. 2 (March 1998): 151-72.
43. Comment on Steven W. Usselman, "Patents, Engineering Professionals and Pipelines of innovation: The Internalization of Technological Discovery by Nineteenth Century American Railroads" in Naomi Lamoreaux, Daniel M. G. Raff and Peter Temin (eds.) *Learning By Doing in Markets, Firms and Countries*, (University of Chicago Press and NBER: 1999), pp. 91-101.
44. (with Rousseau) "Business Activity and the Boston Stock Market, 1835-1869" *Explorations in Economic History* 36:2 (April 1999): 144-79.
45. (with Bateman) "Nineteenth Century American Industrial Development Through the Eyes of the Census of Manufactures: A New Resource for Historical Research," *Historical Methods*, 32, 4: (Fall 1999), 177-188.
46. "Quantitative and Qualitative Evidence in the Weaving of Business and Economic History: Western River Steamboats and the Transportation Revolution Revisited" *Business and Economic History*, 28, 1(Fall 1999)
47. (with Bateman and Parker) "The Farm, the Farmer, and the Market" in Engerman and Gallman (eds.) *Cambridge Economic History of the United States*, Vol. 2 (Cambridge UP, 2000), 245-284.
48. (with Bateman and Parker) "Northern Agriculture and the Westward Movement" in Engerman and Gallman (eds.) *Cambridge Economic History of the United States*, Vol. 2 (Cambridge UP, 2000), 285-328.
49. (with Bateman and Parker) "Bibliographic Essay" in Engerman and Gallman (eds.) *Cambridge Economic History of the United States*, Vol. 2 (Cambridge UP, 2000), 886-905.
50. (with Bateman and Margo), "Part Year Operation in Nineteenth Century Manufacturing: Evidence from the 1870 and 1880 Censuses" *Journal of Economic History*, 62:3 (September 2002), 792-809.

51. (with Bateman and Margo) "Productivity in Manufacturing and the Length of the Working Day: Evidence from the 1880 Census of Manufactures," *Explorations in Economic History*, 40 (2003): 170-194
52. "New York" in Joel Mokyr (ed.) *The Oxford Encyclopedia of Economic History* (Oxford University Press, 2003), volume 4, pp. 84-7.
53. (with Bateman and Margo). "Skill Intensity and Rising Wage Dispersion in Nineteenth Century American Manufacturing" *Journal of Economic History*, 64(1) (March 2004), 172-92.
54. "A Nineteenth-Century Resource for Agricultural History Research in the Twenty-First Century," *Agricultural History*, 78 4 (October 2004): 389-412.
55. (with Bateman and Margo), "Capital deepening and the rise of the factory: the American experience during the nineteenth century," *Economic History Review*, 58, 3 (August 2005): 586-95.
56. "Small Firm Persistence and the Growth of Big Business in the United States during the Nineteenth Century" in J. Glassman and I. Kiode (eds.) *Different Lands/Shared Experiences: The Emergence of Modern Industrial Society in Japan and the United States*, (Shibusawa Memorial Foundation, Tokyo, 2005)
57. (with Bateman), "Manufacturing" *Historical Statistics of the United States from Colonial Times to 2000* (Cambridge University Press, 2006)
58. (with Bateman) "Profitability, Firm Size and Business Organization in Nineteenth Century U.S. Manufacturing" in J. Rosenbloom (ed.) *Quantitative Economic History: The Good of Counting*, (Routledge 2008)
59. (with Bateman and Margo) "Steam Power, Establishment Size, and Labor Productivity Growth in Nineteenth Century American Manufacturing" *Explorations in Economic History* 45, 2: 185-98 (April 2008)
60. (with Coclanis and Grantham) "'Creating Abundance: Biological Innovation and American Agricultural Development: An Appreciation and Research Agenda,'" *Explorations in Economic History* 46, 1: (January 2009): 160-7.
61. "Financial innovation and crises: The view backwards from Northern Rock," in Jeremy Atack and Larry D. Neal (eds), *The Origins and Development of Financial Markets and Institutions*, (Cambridge University Press, 2009): pp. 1-31.
62. (with Bateman, Haines and Margo) "Did Railroads Induce or Follow Economic Growth? Urbanization and Population Growth in the American Midwest, 1850-1860" *Social Science History*, 34: 2 (Summer 2010), pp. 171-97.
63. "Railroads and the Rise of the Factory: Evidence for the United States, 1850-1870," (with Haines and Margo) in Paul Rhode, Joshua Rosenbloom, and David Weiman, (eds.) *Economic Evolution and Revolutions in Historical Time*. Palo Alto, CA: Stanford University Press, (2011): 162-179.
64. (with Margo), "The Impact of Access to Rail Transportation on Agricultural Improvement: The American Midwest as a Test Case, 1850-1860," *Journal of Transportation and Land Use*, 4: 2 (2011).
65. (with Margo) "Land Ownership and the Coming of the Railroad in the American Midwest, 1850-1860," in Anne McCants, Eduardo Beira , et al., *Railroads in Historical Context: Construction, Costs and Consequences* Foz Tua/EFP/MIT Portugal (2012): 151-177.

66. "On the Use of GIS in Economic History: The American Transportation Revolution Revisited," *Journal of Economic History*, 73:2 (June 2013): 313-38.
67. "America: Capitalism's Promised Land," in Larry D. Neal and Jeffery Williamson (eds), *The Cambridge History of Capitalism. Volume 1. The Rise of Capitalism*, Cambridge University Press and BBVA Foundation, (2014), pp. 533-73.
68. (with Jaremski and Rousseau) "American Banking and the Transportation Revolution Before the Civil War," *Journal of Economic History*, 74:4 (December 2014): 943-86.
69. (with Jaremski and Rousseau) "Did Railroads Make Antebellum U.S. Banks More Sound?" in William J. Collins and Robert A. Margo (eds), *Enterprising America: Businesses, Banks and Credit Markets in Historical Perspective*, Chicago University Press for the NBER (2015), pp. 149-78.
70. "Transportation" in Louis D. Cain and Paul W. Rhode (eds), *Oxford Handbook in Economic History*, Oxford University Press, forthcoming, 2016).
71. "Creating Historical Transportation Shapefiles of Navigable Rivers, Canals and Railroads for the United States Before World War I" in Donald DeBats and Ian Gregory (eds), *The Routledge Handbook of Spatial History*, (Routledge, forthcoming, 2016)

Reprinted Articles

1. (with Bateman), "Self-Sufficiency and the Marketable Surplus in the Rural North, 1860," in *The History of Rural Life in America*, ed. Barbara R. Cotton (Washington, DC: Agricultural History Society). See #20 above.
2. "Tenants and Yeomen in the Nineteenth Century" in Morton Rothstein and Daniel Field (eds.) *Quantitative Studies in Agrarian History* (Ames, IA: Iowa State University Press, 1994), 3-29. See #27 above.
3. "Industrial Structure and the Emergence of the Modern Industrial Corporation," in Robert Whaples and Dianne Betts (eds), *Historical Perspectives on the American Economy*, (Cambridge University Press, 1995), pp. 428-54. See #23 above.
4. (with Bateman and Eschelbach Gregson--now Hansen), "'Matchmaker, Matchmaker, Make me a Match': A General Personal Computer-Based Matching Program for Historical Research," *Historical Methods*, 25, 2 (Spring 1992), 53-65. In Vernon Burton, David Herr, and Terence Finnega, *Wayfarer: Charting Advances in the Social Sciences and Humanities* (2001 Urbana: University of Illinois Press--CD-ROM). Also contains code for PC Matchmaker (see <http://www.vanderbilt.edu/Econ/faculty/Atack/atackj.htm>). See #37 above.

Work in Progress

1. (with Jaremski) "Quantifying Wildcat Banking."
2. (with Margo and Perlman) "The impact of railroads on school enrollment in nineteenth century America."

Foreign Language Publications

1. 19th century: The problem of rising tenancy") in *Agrarnaia evoliutsiia Rossii i SShA v XIX-nachal XX veta (Agrarian Evolution in Russian and the United States in the 19th and Early 20th Century)*, edited by Ivan D. Kovalchenko and Valery A. Tishkov (Moscow,

USSR: NAUKA, 1991), 19-233.

2. (with Peter Passell) *A New Economic View of American History* (2nd Edition) (Arts & Licensing International Inc., 2000--Chinese language edition), pp. 731

Books/Monographs

Authored:

1. *Estimation of Economies of Scale in Nineteenth Century United States Manufacturing*, New York: Garland Publishing Inc., 1985, pp. 246.
2. (with Bateman) *To Their Own Soil: American Agriculture in the Antebellum North*, Ames, IA: Iowa State University Press (1987), pp. 322 + xii. Reprinted 2002.
3. (with Peter Passell) *A New Economic View of American History* (2nd Edition) (W. W. Norton, 1994), pp. 714 + xxi.

Edited:

1. *Business and Economic History*, Volumes 10-16, Series 2 (University of Illinois, BEBR, 1981-87).
2. (with Larry Neal), *The Origins and Development of Financial Markets and Institutions*, xxii + 472pp (Cambridge University Press, 2009)

Databases:

1. (with Bateman). NATIONAL SAMPLE FROM THE 1880 CENSUS OF MANUFACTURING. 2nd ICPSR version. Urbana, IL: University of Illinois/Bloomington, IN: Indiana University [producers], 2004. Ann Arbor, MI: Inter-university Consortium for Political and Social Research [distributor], 2004. <http://doi.org/10.3886/ICPSR09385.v2>
2. (with Bateman). STATE SAMPLES FROM THE 1880 CENSUS OF MANUFACTURING. 2nd ICPSR version. Urbana, IL: University of Illinois/Bloomington, IN: Indiana University [producers], 2004. Ann Arbor, MI: Inter-university Consortium for Political and Social Research [distributor], 2004. <http://doi.org/10.3886/ICPSR09384.v2>
3. (with Bateman and Weiss). NATIONAL SAMPLES FROM THE CENSUS OF MANUFACTURING: 1850, 1860, AND 1870. ICPSR04048-v1. Ann Arbor, MI: Inter-university Consortium for Political and Social Research [distributor], 2004. <http://doi.org/10.3886/ICPSR04048.v1>
4. (with Bateman and Weiss). STATE SAMPLES FROM THE CENSUS OF MANUFACTURING: 1850, 1860, AND 1870. ICPSR04071-v1. Lawrence, KS: University of Kansas/Urbana, IL: University of Illinois/Bloomington, IN: Indiana University [producers], 2004. Ann Arbor, MI: Inter-university Consortium for Political and Social Research [distributor], 2004. <http://doi.org/10.3886/ICPSR04071.v1>
5. "Historical Geographic Information Systems (GIS) database of U.S. Railroads for [selected years based on value of .dbf field "InOpBy" or "Exact"]" (August 2015) available from <https://my.vanderbilt.edu/jeremyatack/data-downloads/> in process of being archived at ICPSR as ICPSR36498 and ICPSR36624 (updated version).
6. "Historical Geographic Information Systems (GIS) database of Steamboat-Navigated Rivers During the Nineteenth Century in the United States." (August 2015) available from <https://my.vanderbilt.edu/jeremyatack/data-downloads/> in process of being archived at ICPSR as ICPSR36498 and ICPSR36624 (updated version).

7. “Historical Geographic Information Systems (GIS) database of Nineteenth Century U.S. Canals.” (August 2015)) available from <https://my.vanderbilt.edu/jeremyatack/data-downloads/> in process of being archived at ICPSR as ICPSR36498.

Book Reviews

1. *Recent Development in the Study of Business and Economic History: Essays in Honor of Herman E. Krooss*, Robert Gallman (ed.), JAI Press, 1977. In *Business History Review*, 52 (Winter 1978), pp. 572-3.
2. *Wealth and Power in Antebellum Texas*, Randolph B. Campbell and Richard G. Lowe, Texas A&M University Press, 1977. In *Journal of Economic History*, 38 (December 1978), pp. 979-80.
3. *Economic Development in the Philadelphia Region, 1810-1850*, Diane Lindstrom, Columbia University Press, 1978. In *Business History Review*, 53 (Summer 1979), pp. 272-3.
4. *Waterpower, A History of Industrial Power in the United States, 1780-1930*, Louis C. Hunter, University Press of Virginia, 1979. In *Business History Review*, 54 (Autumn 1980), pp. 407-09.
5. *Oliver Evans. Inventive Genius of the American Industrial Revolution*, Eugene S. Ferguson, Hagley Museum, 1980. In *Journal of Economic History*, 41 (September 1981), p. 693.
6. *A New Economic View of American History*, Susan Lee and Peter Passell, Norton, 1979. In *Southern Economic Journal*, 47 (October 1981), pp. 541-42.
7. *An Emerging Independent American Economy, 1815-1875*. Joseph Freese and Jacob Judd (eds.), Sleepy Hollow Press, 1983. In *Technology and Culture*, 23 (January 1982), pp. 122-23.
8. *Stronger Than a Hundred Men: A History of the Vertical Water Wheel*, Terry S. Reynolds, The Johns Hopkins University Press, 1983. In *Journal of Economic History*, 44 (March 1984), pp. 232-33.
9. *From the American System to Mass Production, 1800-1932*, David A. Hounsell, Johns Hopkins University Press, 1984. In *Science*, 19 (October 1984), pp. 331-32.
10. *The Rise and Decline of the American Cut Nail Industry: A Study of the Relationships of Technology, Business Organization, and Management Techniques*, Amos J. Loveday, Greenwood Press, 1983. In *Journal of Economic History*, 44 (December 1984), pp. 111-19.
11. *The Patent System and Inventive Activity During the Industrial Revolution, 1750-1852*, H. I. Dutton, Manchester University Press, 1984. In *The Business History Review*, 59 (Autumn 1985), pp. 518-19.
12. *Steampower: A History of Industrial Power in the United States, 1800-1930*, Volume II, Louis C. Hunter, University Press of Virginia, 1985. In *Journal of Economic History*, 47, 1 (March 1987), pp. 270-73.
13. *The American Census: A Social History*, Margo J. Anderson, Yale University Press, 1988. In *Journal of Economic History*, 49, 3 (September 1989), pp. 769-71.
14. *Understanding the Gender Gap*, Claudia Goldin, Oxford University Press, 1990. In *Journal of Economic History*, 51 (March 1991), pp. 246-48.
15. *American Economic Development in Historical Perspective*, ed. Thomas Weiss and

- Donald Schaefer, Stanford University Press, 1993. In *Choice* (July 1994).
16. *Birth Weight and Economic Growth*, Peter Ward, University of Chicago Press, 1993. *American Journal of Sociology* (Jan. 1995).
 17. *A Piece of the Action*, Joseph Nocera, Simon & Schuster. In *Choice* (1995).
 18. *Bretton Woods and Dumbarton Oaks: American Economic and Political Postwar Planning*, Georg Schild (St. Martins Press, 1995). In *Choice* (1996).
 19. *Federal Taxation in America*, Elliot Brownlee, Cambridge University Press 1996. In *Choice* (November 1996).
 20. *Designs Within Disorder*, William Barber, Cambridge University Press, 1996. In *Choice* (May 1997).
 21. *Troubled Waters*, Paul Paskoff, Louisiana State University Press, 2007. In *Journal of Economic History*, 69: 1 (March 2009):319-20.

Books in Preparation

1. (with Bateman and Margo), *The Crucible of Growth: Manufacturing in the United States*.

Funded Research

1. (with Bateman), "A Sample of Firms from the 1880 Census of Manufactures," National Science Foundation, SES-605637, 6/86-1/90, \$110,620.
2. (with Bateman), "Collaborative Research to Extend the 1860 Bateman-Foust Agricultural and Demographic Sample Forwards to 1880," National Science Foundation, SES-8914861, 7/90-7/93, \$212,806.
3. (Project Director), "Doctoral Dissertation Research in Economics" (to Mary Eschelbach-Gregson), National Science Foundation, SES-9100517, 9/91-12/92, \$10,109.
4. (with Bateman), "American Agriculture in an Industrializing World," National Science Foundation, SBR-9308717, 8/93-12/97, \$260,000+.
5. "Construction of a Panel Database from Linked Population and Agricultural Census Records, 1850-1880" National Science Foundation, 0351373, \$150,000+ (03/2004-02/2007)

Other External Grants

1. (with Larry Neal) NSF funding for the 1987 Cliometric Conference.
2. Newcomen Society Summer Grant (1978).

Honors

1. Fellow, Cliometric Society
2. Research Associate, NBER
3. Winner of 1987 Theodore Saloutos prize awarded by the Agricultural History Society for *To Their Own Soil: American Agriculture in the Antebellum North* (Ames, IA: Iowa State University Press, 1987).
4. *To Their Own Soil* selected by *Choice* as one of the outstanding academic books of

1987.

5. Honorary Life Member of Newcomen Society for work on steam-power.
6. Guest of the Soviet Academy of Sciences, Institute of USA and Canada and Institute of General (Moscow) and the Institute of History, Philology and Philosophy of the Siberian Academy of Sciences (Novosibirsk), 1987.
7. President, Business History Conference (1999).
8. Vice President, Economic History Association (2001-2)
9. President, Agricultural History Society (2002-3).
10. President, Economic History Association, (2011-12)

Professional Service

1. Director of Graduate Studies, Department of Economics, Vanderbilt (2007-2008)
2. Co-editor, *Journal of Economic History* (2004-2008)
3. Board of Editors, *Explorations in Economic History* (1981-88).
4. Acting Editor, *Explorations in Economic History*, 1982.
5. Secretary-Treasurer, Business History Conference (1977-87).
6. Editor, *Business and Economic History: The Papers and Proceedings of the Business History Conference* (1981-87).
7. Referee for the following journals and organizations: American Council of Learned Societies, *American Economic Review*, *Explorations in Economic History*, *Journal of Economic History*, National Science Foundation, National Endowment for the Humanities, *Review of Economics and Statistics*, *Southern Economic Journal*.
8. Served on two NSF Review Panels.
9. Discussant at various professional meetings, including the American Economic Association meetings, Cliometrics Conferences, Economic History Association meetings, and the Social Science History Association meetings.
10. Economics Program Chair for the Social Science History Association, 1985-86.
11. Co-organizer of Conference on the Application of Quantitative Methods and Economic Theory to the Study of Problems in History (popularly known as the Cliometrics Conference), Allerton House, The University of Illinois, May 1987.
12. Board of Editors, *Journal of Economic History* (1988-1992).
13. Chair, John E. Rovensky Fellowship program (1983-1993 and 1996).
14. Chair, Economic History Association Program Committee for 1990 Meetings.
15. Co-organizer of Conference on the Application of Quantitative Methods and Economic Theory to the Study of Problems in History (popularly known as the Cliometrics Conference), Allerton House, The University of Illinois, May 1990.
16. Trustee, Cliometrics Society, 1991-94.
17. Trustee, Economic History Association, 1993-96.
18. Trustee, Agricultural History Society, 1993-97.
19. Elected to Publications Committee of Social Science History Association, 1995-98.
20. Special guest editor for issue of *Journal of Real Estate Finance and Economics*.
21. Co-moderator of H-Business, computer bulletin board dedicated to Business History and operated by the Cliometrics Society.
22. Program Chair, Business History Conference, 1998 (Archives II).
23. Local Arrangements Committee, Economic History Association 2002-3.

24. Co-editor, Journal of Economic History, 2004-8.
25. External Examiner, London School of Economics, October 2009.

1. Professional Presentations

2. Western Economic Association, "The Survivor Technique and Economies of Scale in Nineteenth Century American Manufacturing," Denver (1975).
3. Economic History Association, "Estimation of Economies of Scale in Nineteenth Century United States Manufacturing and the Form of the Production Function," New Orleans (1977).
4. University of Chicago, "Fact in Fiction? The Relative Costs of Steam and Water Power: A Simulation Approach" (1977).
5. Southern Economic Association, "The Regional Diffusion and Adoption of the Steam Engine in American Manufacturing," Washington, DC (1978).
6. Cliometrics Conference, "Risk, the Rate of Return and the Pattern of Investment in Nineteenth Century American Industry," Chicago (1979).
7. Cliometrics Conference, "A New Plea for Looking at the Economic Facts: Federal Censuses as Sources of Economic Statistics," Chicago (1979).
8. Economic History Association, "Egalitarianism, Inequality, and Age: The Rural North in 1960," Boston (1980).
9. Illinois Economic Association, "Average and Best Practice Yields in Nineteenth Century Illinois Agriculture," Chicago (1980).
10. University of Chicago, "Mid-Nineteenth Century Crop Yields and Labor Productivity Growth in American Agriculture: A New Look at Parker and Klein" (1982).
11. Indiana University, "Mid-Nineteenth Century Crop Yields and Labor Productivity Growth in American Agriculture: A New Look at Parker and Klein" (1982).
12. Cliometrics Conference, "Industrial Structure and the Emergence of the Modern Industrial Corporation," Iowa City (May 1983).
13. Agricultural History Society, "Self-Sufficiency and the Marketable Surplus in the Rural North, 1860, Symposium "The History of Rural Life in America," Florida A&M University (September 1983).
14. Social Science History Association, "Self-Sufficiency and the Marketable Surplus in the Rural North, 1860," Washington, DC (October 1983).
15. Social Science History Association, "Industrial Structure and the Emergence of the Modern Industrial Corporation" (October 1984).
16. University of Toronto, "Mid-Nineteenth Century American Agriculture in the Northern States" (October 1984).
17. International Conference on "Nineteenth Century Agrarian Structures and Performance," Montreal, "Land and the Development of Mid-Nineteenth Century American Agriculture in the Northern United States" (May 1985).
18. Canadian Historical Association, "Industrial Structure and the Size Distribution of Firms in American Industry in the Nineteenth Century" (May 1985).
19. First World Cliometrics Society Meetings, "Mid-Nineteenth Century American Agriculture in the Northern States" (May 1985).
20. Economic History Association Meetings, "Industrial Structure and the Size Distribution

of Firms in American Industry in the Nineteenth Century” (September 1985).

21. Northwestern University, “Mid-Nineteenth Century American Agriculture in the Northern States” (October 1985).

22. Symposium commemorating the Bicentennial of the Land Ordinance of 1785, Danville Area Community College, “Mid-Nineteenth Century American Agriculture in the Northern States” (October 1985).

23. University of Chicago, “Mid-Nineteenth Century American Agriculture in the Northern States” (February 1986).

24. Yale University, “Economies of Scale and Efficiency Gains in the Rise of the Factory in America, 1820-1900” (April 1986).

25. Columbia University, “Mid-Nineteenth Century American Agriculture in the Northern States” (April 1986).

26. American University/University of Maryland, “Mid-Nineteenth Century American Agriculture in the Northern States” (April 1986).

27. University of Kansas/University of Missouri, “Economies of Scale and Efficiency Gains in the Rise of the Factory in America, 1820-1900” (April 1986).

28. Bilateral Soviet-American Conference on Quantification in Agrarian History, New Orleans, “Tenants and Yeomen in the Nineteenth Century: The Problem of Rising Tenancy” (December 1986).

29. Indiana University, “Tenants and Yeomen in the Nineteenth Century: The Problem on Rising Tenancy” (December 1986).

30. University of Illinois Northwest Ordinance/US Constitution Bicentennial, “The Closing of the Old Northwest: Realization of an Agrarian Ideal?” (March 1987).

31. Bilateral Soviet-American Conference on Quantification in Agrarian History, Tallinn, Estonia, USSR (encore presentation), “Tenants and Yeomen in the Nineteenth Century: The Problem of Rising Tenancy” (June 1987).

32. Institute of History, Philology, and Philosophy of the Siberian Academy of Sciences of the USSR (Novosibirsk, USSR), “American and Russian Agricultural Development Under Conditions of Abundant Land: A Comparative Analysis” (June 1987).

33. Institute of History and Philology, and the Siberian Academy of Sciences of the USSR (Novosibirsk, USSR), “Quantitative Sources for the Study of Agricultural History in America” (June 1987).

34. Moscow State University (Moscow, USSR), “Quantitative Sources for the Study of Agricultural History in America” (June 1987).

35. Conference in Honor of Wayne Rasmussen, Washington, DC, “Was There Ever An ‘Agrarian Democracy’ in America? The American Middle West in 1860” (October 1987).

36. Yale University, “Whom Did Protective Legislation Protect in 1880?” (March 1988).

37. Harvard University, “Whom Did Protective Legislation Protect in 1880?” (March 1988).

38. Wesleyan University Economic History Symposium, “Economies of Scale and Efficiency Gains in the Rise of the Factor in America, 1820-1900” (March 1988).

39. Cliometrics Society, “Whom Did Protective Legislation Protect in 1880?” (May 1988).

40. University of Chicago, “Whom Did Protective Legislation Protect in 1880?” (March 1989).

41. NBER/DAE Summer Institute, “How Long Did People Work in 1880?” (July 1989).

42. Economic History Association, "How Long Did People Work in 1880?" (September 1989).
43. University of Pennsylvania, "How Long Did People Work in 1880?" (October 1989).
44. Colgate University, "How Long Did People Work in 1880?" (January 1990).
45. University of California-Los Angeles, "Whom Did Protective Legislation Protect in 1880?" (February 1991).
46. University of Kansas/NBER Historical Labor Statistics Conference, "Louis Brandeis, Work and Fatigue at the Start of the Twentieth Century: The Prelude to Oregon's Hours Limitations Law" (June 1991).
47. NBER/DAE Summer Institute, "Whom Did Protective Legislation Protect in 1880?" (July 1991).
48. Social Science History Association, "The Effects of Long Hours of Work on Productivity and Health" (September 1991).
49. Social Science History Association, "Estimating Industrial Unemployment and Under-Employment in 1880" (November 1992).
50. Indiana University Economic History Workshop, "Whom Did Protective Legislation Protect in 1880?" (March 1993).
51. Business History Conference, "Manufacturing Profitability and Industrial Change in the United States, 1850-1880," Williamsburg (March 1994).
52. NBER, "Why Did Larger Firms Earn Lower Rates of Return than Smaller Firms in the 19th Century?" Boston (July 1994).
53. Eleventh International Economic History Congress, "The Effect of Long Hours of Work on Productivity," (Milan, 1994).
54. NBER, "The Spread of Organizational Forms Among American Manufacturing in the Nineteenth Century," Boston (July 1995).
55. Research Triangle Economic History Workshop, "Too Sick To Work: Health And Occupation In American Manufacturing At The Turn Of The Century" (February 1996)
56. Ohio State University, "Location, Location, Location! The Price Gradient for Vacant Urban Land: New York 1835-1900" (February 1997).
57. Columbia University, "Location, Location, Location! The Price Gradient for Vacant Urban Land: New York 1835-1900" (March 1997).
58. Business History Conference (Glasgow, Scotland) "Crop Specialization and Diversification Among Northern Farmers, 1850-1880: Resolving a Conundrum?" (July 1997).
59. NBER Summer Institute "Business Activity and the Boston Stock Market, 1835-1869" (July 1997).
60. University of Toronto, "Location, Location, Location! The Price Gradient for Vacant Urban Land: New York 1835-1900" (November 1997)
61. Queen's University, "Work, Fatigue Labor Legislation in Late Nineteenth Century Manufacturing" (November 1997)
62. McGill University, "Location, Location, Location! The Price Gradient for Vacant Urban Land: New York 1835-1900" (November 1997)
63. Business History Conference (Chapel Hill), "Quantitative and Qualitative Evidence in the Weaving of Business and Economic History: Western River Steamboats and the Transportation Revolution Revisited"

64. Wharton School, University of Pennsylvania, "Profitability and Firm Size: The Small Firm Effect" (March 2000)
65. Washington DC Area Economic History Workshop, "Profitability and Firm Size: Explaining the 'Small Firm Effect' in U.S. Manufacturing" (December 2001)
66. University of Missouri at St. Louis and Shibusawa Memorial Foundation, "Small Firm Persistence And The Growth Of Big Business In The United States During The Nineteenth Century" (September 2004)
67. University of Kansas, "*A Deplorable Scarcity* Continues" (April 2006)
68. NBER Summer Institute, "Mapping the Past: Mapping the Diffusion of American Railroads in the 19th Century," July 2007.
69. Social Science History Association, "Revisiting the Transportation Revolution: Transportation and the Nineteenth Century Economy—Preliminary Results," Chicago, November 2007.
70. Yale University, "The Transportation Revolution Revisited: Towards a New Mapping of America's Transportation Network in the 19th Century," December 2007
71. University of Paris, "Revisiting the Transportation Revolution in America" April 2008.
72. NBER Summer Institute, "Railroads and the Rise of the Factory: Preliminary Evidence for 1850" July 2008
73. Historical GIS Conference, University of Essex, "Did Railroads Induce or Follow Economic Growth? Evidence from the American Midwest" August 2008.
74. Social Science History Association, "Did Railroads Induce or Follow Economic Growth? Evidence from the American Midwest," October 2008.
75. Social Science History Association, "Creating Abundance: An Authors' Roundtable Discussion," October 2008
76. NBER DAE Program Meeting, "Did Railroads Induce or Follow Economic Growth? Urbanization and Population Growth in the American Midwest, 1850-1860" March 2009.
77. Vanderbilt University, "Did Railroads Induce or Follow Economic Growth? Urbanization and Population Growth in the American Midwest, 1850-1860," September 2009.
78. Rutgers University, "Did Railroads Induce or Follow Economic Growth? Urbanization and Population Growth in the American Midwest, 1850-1860," September 2009.
79. Oberlin College, "Did Railroads Induce or Follow Economic Growth? Urbanization and Population Growth in the American Midwest, 1850-1860," October 2009.
80. University of California at Merced, "Did Railroads Induce or Follow Economic Growth? Urbanization, Agricultural Development and Population Growth in the American Midwest, 1850-1860," April 2010.
81. University of Guelph (Ontario, Canada) "Railroads and Nineteenth Century American Development: New Evidence" June 2010.
82. Organization of American Historians, "GIS and the economic impact of early transportation improvements," Houston, (March 2011)
83. Conference on Historical Perspectives on Railroads, "Land Ownership and the Coming of the Railroad in the American Midwest, 1850-1860," Foz Tua, Portugal, (October 2011)
84. Economic History Association (Vancouver Canada) "On the Use of GIS in Economic History: The American Transportation Revolution Revisited," Presidential Address (September, 2012)

85. Chartered Financial Analyst Society of Atlanta, "Can the Past Be Instructive? The Sub-Prime Crisis in Historical Perspective," Atlanta, GA (October 2012)
86. BBVA Foundation/Cambridge University Press, "American Capitalism Before the Visible Hand," Madrid, Spain (November 2012)