

CURRICULUM VITAE

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Education:

Ph.D., Princeton University, 1986, Economics
M.A., Princeton University, 1983, Economics
B.A., with Honors, Swarthmore College, 1969, Social Sciences

Fields of Specialization:

Financial Institutions
Monetary Theory
Industrial Organization

Professional Employment:

Current Position: Assistant Vice President and Economist
Research Department
Federal Reserve Bank of Philadelphia
September 1988 to present

Previous Academic Positions:

Visiting Professor
Economics Department
Swarthmore College
Spring 2007
Lecturer
Economics Department
Bryn Mawr College
Fall 2003
Visiting Professor
Economics Department
Swarthmore College
Spring 2003
Lecturer

Finance Department
Wharton School
Spring 1991
Assistant Professor
Economics Department
Rutgers University
September 1985 to June 1990

Courses Taught: Introduction to Economics
Intermediate Macroeconomics
Graduate Macroeconomics
Commercial Bank Management
Economics of Creativity

Previous Professional Employment

Economist, Citibank, New York, N.Y., 1978-1981.
Consultant (Senior Economist), The Conference Board, 1974-1978.

Service

Special Issue Editor: *Journal of Real Estate Finance and Economics*
"Information and Screening in Real Estate Finance"
November 1994.

Journal of Real Estate Finance and Economics
"New Directions in Information and Screening in
Real Estate Finance" July 1996.

Editorial Board: *Journal of Real Estate Finance and Economics.*
1993-2000
Review of Income and Wealth, 2008-

Referee: *American Economic Review*
Financial Management Association
International Economic Review
Journal of Banking and Finance
Journal of Financial Intermediation
Journal of Money, Credit, and Banking
Journal of Real Estate Finance and Economics
Journal of Urban Economics
National Science Foundation
Review of Economics and Statistics
Review of Income and Wealth
Review of Financial Studies
MIT Press

Recent Distinguished Presentations:

Keynote Address, XX ADIAT Conference, Monterey, Mexico, March 5, 2008, “The Rise of Intellectual Capital.”

Potomac Lecture, 2008 World Congress on National Economic Measures, May 15, 2008, Washington DC. “Intangibles and National Income Measurement.”

Statistics Canada Expert Seminar Series, Ottawa, Canada, December 1, 2008, “Challenges in the Measurement of Rent.”

Plenary Presentation, Office of Price and Living Conditions Town Hall, U.S. Bureau of Labor Statistics, Washington DC, April 21, 2009, “Intangible Measurement.”

Research and Scholarly Activity

Books:

Saving Energy in Manufacturing: The Post-Embargo Record, with John G. Myers, Ballinger, Cambridge (Mass.), 1978.

Energy Consumption in Manufacturing, with John G. Myers and others, Ballinger, Cambridge (Mass.), 1974.

Published Articles:

“The Housing Bubble and a New Approach to Accounting for Housing in a CPI” (with W. Erwin Diewert and Alice O. Nakamura), Journal of Housing Economics, forthcoming.

“Intangible Investment and National Income Accounting: Measuring a Scientific Revolution.” Review of Income and Wealth, forthcoming.

“Rents Have Been Rising, Not Falling, in the Postwar Period,” (with Theodore M. Crone and Richard Voith), Review of Economics and Statistics, forthcoming.

“Hedonic Estimates of the Cost of Housing Services: Rental and Owner-Occupied Units,” (with Theodore M. Crone and Richard P. Voith) Conference Volume: International Conference on Index Number Theory, Vancouver, BC, 2008.

“National Income Accounts,” International Encyclopedia of the Social Sciences, 2nd edition. New York: Macmillan, 2007, 397-405.

“Transactions Accounts and Loan Monitoring,” (with Loretta Mester and Micheline Renault), Review of Financial Studies 20 May 2007, 529-556.

Review of Carl W. Biven’s Jimmy Carter’s Economy: Policy in an Age of Limits, Journal of Economic Literature 42, June 2004, 515-516.

"Banking and Finance in Argentina in the Period 1900-35," with Carlos E. J. M. Zarazaga, in Gerardo della Paolera and Alan M. Taylor, eds. A New Economic History of Argentina. Cambridge: Cambridge University Press, 2003, 295-323.

“A Trillion Dollars a Year in Intangible Investment and the New Economy,” in John R.M. Hand and Baruch Lev, eds., Intangible Assets, Oxford: Oxford University Press, 2003, 19-47.

“Education and Training in an Era of Creative Destruction,” in Stull, William J., and Nicholas Sanders, eds., The School-To-Work Movement: Origins and Destinations, NY: Praeger, 2003, 49065.

“Measuring Housing Services Inflation,” (with Theodore M. Crone and Richard Voith), Journal of Economic and Social Measurement, 26 (3,4) 2000, 153-172.

“The Measurement of Retail Output and the Retail Revolution,” Canadian Journal of Economics, 32 (2) April 1999, 408-425.

“Economic Growth in Argentina in the Period 1900-1930: Some Evidence from Stock Market Returns,” (with Carlos E.J.M. Zarazaga) in John H. Coatsworth and Alan M. Taylor, Latin America and the World Economy Since 1800, Harvard University Press, 1998, 247-270.

“Branch Banking and the Geography of Bank Pricing,” (with Paul Calem) Review of Economics and Statistics 80, November 1998, 600-610.

"New Directions in Information and Screening in Real Estate Finance," (with William W. Lang) Journal of Real Estate Finance and Economics, July 1996, 5-10.

" 'Flight to Quality' in Bank Lending and Economic Activity," (with William W. Lang), Journal of Monetary Economics, August 1995, 145-164.

"Information and Screening in Real Estate Finance: An Introduction," (with William W. Lang) Journal of Real Estate Finance and Economics 9, November 1994, 171-176.

"Recent Research in Commercial Banking: Information and Lending," Financial Markets, Institutions & Instruments 2, December 1993, 73-88.

"A Model of Redlining," (with William W. Lang) Journal of Urban Economics 33, March 1993, 223-234.

"Commercial Bank Information: Implications for the Structure of Banking," in Structural Change in Banking, Michael Klausner and Lawrence J. White, eds., Irwin, New York, 1993, 131-160. Also, reprinted as "Exploring the Checking Account Hypothesis," in Journal of Retail Banking (Winter 1992-3).

"Entry-Detering Debt," with James J. McAndrews, Journal of Money, Credit and Banking 24, February 1992, 98-110.

"The Dynamics of Credit Markets in a Model with Learning," with William W. Lang, Journal of Monetary Economics 26, October 1990, 305-318.

"Information Losses in a Dynamic Model of Credit," with William W. Lang, Journal of Finance 44, July 1989, 731-746.

"Energy and Pollution Effects on Productivity: A Putty-Clay Approach," (with John G. Myers) in John Kendrick and Beatrice Vaccara, eds., New Developments in Productivity Measurement and Analysis, NBER Studies in Income and Wealth Vol. 44, U. of Chicago, Chicago, 1980.

"Data Adequacy for Productivity Analysis: A Case Study of the Primary Paper Industry," (with John G. Myers) in Panel to Review Productivity Statistics, National Research Council, Measurement and Interpretation of Productivity, National Academy of Sciences, Washington, DC, 1979.

Federal Reserve Bank of Philadelphia Publications:

"Intangible Investment and National Income Accounting: Measuring a Scientific Revolution," Working Paper 09-11, May 2009

"The CPI for Rents: A Case of Understated Inflation," (with Theodore M. Crone and Richard Voith) Working Paper No. 08-28, October 2008.

"Gimme Shelter! Rents Have Risen, Not Fallen, Since World War II" Federal Reserve

Bank of Philadelphia *Business Review*, Second Quarter 2007

"Mismeasured Personal Saving and the Permanent Income Hypothesis," [Working Paper 07-8](#), March 2007.

"National Income Accounts," Working Paper No. 06-11, June 2006

"Underestimating Advertising: Innovation and Unpriced Entertainment." Federal Reserve Bank of Philadelphia *Business Review*, Fourth Quarter 2005.

"Transactions Accounts and Loan Monitoring," (with Loretta Mester and Micheline Renault) Working Paper No. 05-14, June 2005.

"Advertising, Intangible Assets, and Unpriced Entertainment," Working Paper No. 05-11, May 2005.

"Benchmark Revisions and the U.S. Personal Saving Rate," (with Tom Stark) Working Paper No. 05-6, April 2005.

"Hedonic Estimates of the Cost of Housing Services: Rental- and Owner-Occupied Units," (with Theodore M. Crone and Richard Voith) Working Paper No. 04-22, October 2004.

"CEOs, Clerks, and Computers and the Rise of Competition in the Late 20th Century," Federal Reserve Bank of Philadelphia *Business Review*, Third Quarter 2004.

"Let a Hundred Flowers Bloom! Decentralization and Innovation," Federal Reserve Bank of Philadelphia *Business Review*, First Quarter 2003.

"Investing in Intangibles: Is a Trillion Dollars Missing from GDP?" Federal Reserve Bank of Philadelphia *Business Review*, Fourth Quarter 2001.

"Economics and the New Economy: The Invisible Hand Meets Creative Destruction," Federal Reserve Bank of Philadelphia *Business Review*, July/August 2000, pp. 15-30.

"Intangibles: What Put The New in the New Economy?" Federal Reserve Bank of Philadelphia *Business Review* (July/August 1999)

"The Retail Revolution and Food-Price Mismeasurement," *Business Review* (May/June 1998)

"Is the U.S. Economy Really Growing Too Slowly? Maybe We're Measuring Growth Wrong," [Business Review](#) (March/April 1997)

"Measuring Inflation in a High-Tech Age," [Business Review](#) (November/December

1995.)

"Is U.S. Economic Performance Really That Bad?" Working Paper No. 95-21, October 1995.

"Small Borrowers and the Survival of the Small Bank: Is the Mouse Bank Mighty or Mickey?" Business Review, (November/December 1994).

"Loan Screening Within and Outside of Customer Relationships," Working Paper No. 93-15, June 1993.

"Information Externalities: Why Lending May Sometimes Need a Jump Start," Business Review, (January/February 1993).

"Bank Branching," (with Bruno M. Parigi), Working Paper No. 92-18, August 1992.

"Optimal Acceptance Policies for Journals," (with Sherrill Shaffer), Working Paper No. 91-15, August 1991.

"Lessons on Lending and Borrowing in Hard Times," Business Review, (July/August 1991)

Reprinted in The Commercial Bank Management Reader, Robert W. Kolb, ed., Kolb, FL, 1992. Also in Ohio Savings and Loan League Record.

"Delegated Monitoring with Diseconomies of Scale," Working paper No. 91-9. March 1991.

"Housing Appraisals and Redlining," (with William W. Lang), Working paper No. 91-3. January 1991.

"Worker Debt with Bankruptcy," (with James J. McAndrews), Working paper No. 91-2. January 1991.

"Reforming Deposit Insurance When Banks Conduct Loan Workouts and Runs are Possible," Working paper No. 90-30, December 1990.

"Closing Troubled Financial Institutions: What Are the Issues?," Business Review, (May/June 1990).

Reprinted in Financial Institutions and Markets: A Reader, R. W. Kolb, ed., Kolb, FL, 1991. Also in The Commercial Bank Management Reader, R. W. Kolb, ed., Kolb, FL, 1992. Also in The Examiner 15 #2, Fall 1990. Ohio Record, 47 #1, Jan/Feb 1991.

"Optimal Bank Closure for Deposit Insurers," (with William W. Lang), Working paper No. 90-12, January 1990.

"Learning in the Marketplace: Free Entry is Free Riding," (with William W. Lang),

Working Paper No. 89-13. February 1989.

"Loan Workouts and Commercial Bank Information: Why Banks Are Special," Working paper No. 89-11. February 1989.