Harold Linh Cole

Business Address	Education	
Economics Department	1986	University of Rochester, Ph.D.
University of Pennsylvania	1986	University of Rochester, M.A.
160 McNeil Bldg., 3719 Locust Walk	1979	Bates College, B.A., Economics
Philadelphia, PA 19104-6297		

Work Experience

2006-Present	Professor of Economics, University of Pennsylvania
2006-Present	Consultant, Federal Reserve Bank of Philadelphia
2001, 2010-Present	Consultant, Federal Reserve Bank of Minneapolis
2000–2006	Professor of Economics, University of California, Los Angeles
1990–2000	Senior Economist, Federal Reserve Bank of Minneapolis
1992–2000	Adjunct Research Professor, University of Minnesota
1992–94	Director, Institute for Empirical Macroeconomics
Spring 1993	Visiting Professor, University of Pennsylvania
Fall 1992	Consultant, World Bank IBRD
1990	Visiting Scholar, International Monetary Fund
1986–92	Assistant Professor of Economics, University of Pennsylvania
1985	Research Associate, Center for Public Policy, University of Rochester
1984–85	Lecturer, University of Rochester
1981	Research Assistant, University of Rochester
1979–81	Statistician, Federal Reserve Bank of New York

Honors, Grants and Professional Responsibilities

2010 NASDAQ OMX Award for the Best Paper on Asset Pricing: "Is the Volatility of the Market Price of Risk due to Intermittent Porfolio Re-balancing?" with Yili Chien and Hanno Lustig.

2001 Koc University Price for the Best Paper of the Year in Economic Design: "Investment and Concern for Relative Position," with George Mailath and Andy Postlewaite.

Editor, International Economic Review, 2011 - present

Carnegie-Rochester Conference Series Advisory Board 2010 - present

Editorial Board, Journal of Mathematical Economics 2010 – 2012

Editorial Board, International Economic Review 2007 – 2011

Research Associate, National Bureau of Economic Research 2003 – present

National Science Foundation SES 2006-2008 (joint with Andrew Atkeson)

National Science Foundation SES 2002-2005

Journal Articles

"Recursive Contracts, Lotteries and Weakly Concave Pareto Sets, with Felix Kubler, Review of Economic Dynamics (2012), vol. 15(4), 479-500.

"Is the Volatility of the Market Price of Risk due to Intermittent Portfolio Re-balancing?,"," with Yili Chien and Hanno Lustig, American Economic Review (2012), 102(6), 2859-96.

"A Multiplier Approach to Understanding the Macro Implications of Household Finance," with Yili Chien and Hanno Lustig, *Review of Economic Studies* (2011), 199-234.

"Latin America in the Rear View Mirror," with Lee Ohanian, Alvaro Riascos and James Schmitz, *Journal of Monetary Economics*, vol. 52(1), 69-107, 2005.

"Finite Memory and Imperfect Monitoring," with Narayana Kocherlakota, *Games and Economic Behavior*, vol. 53 (1), 59-72, 2005.

"New Deal Policies and the Persistence of the Great Depression: A General Equilibrium Analysis," with Lee Ohanian, *Journal of Political Economy*. 112(4), 779-816, 2004.

"The U.S. and U.K. Great Depressions though the Lens of Neoclassical Growth Theory," with Lee Ohanain, *American Economic Review*, 92(2), 28-32, 2002.

"The Great U.K. Depression: A Puzzle and Possible Resolution," with Lee Ohanian, *Review of Economic Dynamics*, 5(1), 19-44, 2002.

"Shrinking Money: the Demand for Money and the Nonneutrality of Money," with Lee Ohanian, *Journal of Monetary Economics*, 49, 653-686, 2002.

"Investment and Concern with Relative Position," with George Mailath and Andrew Postlewaite, *Review of Economic Design*, 6, 241-261, 2002.

"Efficient Non-contractible Investments in Large Economies," with George Mailath and Andrew Postlewaite, *Journal of Economic Theory*, 101(2), 333-73, 2001.

"Dynamic Games With Hidden Actions and Hidden States," with Narayana Kocherlakota, *Journal of Economic Theory*, 98, 114-126 (2001)

"Efficient Allocations with Hidden Income and Hidden Storage," with Narayana Kocherlakota, *Review of Economic Studies*, 68(3), 523-42, 2001.

"Efficient Non-contractible Investments with Finite Economies," with George Mailath and Andrew Postlewaite,

Advances in Theoretical Economics: Vol. 1: No. 1, Article 2.

"Self-Fulfilling Debt Crises," with Timothy Kehoe, Review of Economic Studies, vol 67(1), no. 230, 91-116, 2000.

"Can the Mortensen-Pissairdes Matching Model Match the Business Cycle Facts?" with Richard Rogerson, *International Economic Review*, vol 40, no. 4, 933-960, 1999.

"Class Systems and the Enforcement of Social Norms," with George Mailath and Andrew Postlewaite, *Journal of Public Economics*, vol. 70, 5-35, 1998.

"Models of Sovereign Debt: Partial vs. General Reputations," with Patrick Kehoe, *International Economic Review*, vol. 39(1), February 1998.

"Valuation Equilibria With Clubs," with Edward Prescott, Journal of Economic Theory, 74 (1), 19–39, May 1997.

"A Self-Fulfilling Model of Mexico's 1994–95 Debt Crisis," *Journal of International Economics*, 41 (3–4), November 1996.

"The Role of Institutions in Reputation Models of Sovereign Debt," with Patrick Kehoe, *Journal of Monetary Economics* 35, 1995.

"Default, Settlement, and Signalling, Lending Resumption in a Reputational Model of Sovereign Debt," with James Dow and William English, *International Economic Review* 36 (2), May 1995.

"Social Norms, Savings Behavior and Growth," with George Mailath and Andrew Postlewaite, *Journal of Political Economy* 100 (6), December 1992. "Response to 'Aristocratic Equilibria'," *Journal of Political Economy* 103 (2), April 1995.

"Two-Sided Expropriation and International Equity Contracts," with William English, *Journal of International Economics* 33, 1992.

"Specialization in Production and the Rate of Growth of Money," with Alan Stockman, *International Economic Review* 33 (2), May 1992.

"Commodity Trade and International Risk Sharing: How Much Do Financial Markets Matter," with Maurice Obstfeld, *Journal of Monetary Economics* 28, 3–24, 1991.

"Expropriation and Direct Investment," with William English, *Journal of International Economics* 30, 201–27, 1991.

"Comment: General Competitive Analysis in an Economy With Private Information," *International Economic Review* 30 (1), 249–52, February 1989.

"Financial Structure and International Trade," International Economic Review 29 (2), 237-59, May 1988.

Other Publications

"Stimulus and the Depression: The Untold Story," joint with Lee Ohanian, Wall Street Journal opinion piece, September 26, 2011.

"Discussion of Gertler and Karadi: A model of unconventional monetary policy," Journal of Monetary Economics (2011) 58, 35-38.

"Comment on Bordo and Haubrich," Journal of Monetary Economics (2010) 57, 19-23.

"How Government Prolonged the Depression," with Lee Ohanian, Wall Street Journal opinion piece, February 2,

2009.

"A Second Look at the U.S. Great Depression from a Neoclassical Perspective," with L. Ohanian, in Great Depressions of the Twentieth Century eds. T. Kehoe and E. Prescott, Federal Reserve Bank of Minneapolis, 2007, p. 21-58..

"Re-Examining the Contributions of Money and Banking Shocks to the U.S. Great Depression," with Lee Ohanian, eds. B. Bernanke and K. Rogoff, NBER Macro Annual 2000 vol. 15, The M.I.T. Press, 2000.

"Aggregate Returns to Scale: Why Measurement is Imprecise," with Lee Ohanian, Federal Reserve Bank of Minneapolis Quarterly Review, Summer 1999.

"The Great Depression in the United States from a Neoclassical Perspective," with Lee Ohanian, *Federal Reserve Bank of Minneapolis Quarterly Review*, Winter 1999.

"Zero Nominal Interest Rates: Why They're Good and How to Get Them," with Narayana Kocherlakota, *Federal Reserve Bank of Minneapolis Quarterly Review*, Spring 1998.

"A Few Speculations on the Role of Financial Intermediaries in Transitional Economies," *Carnegie-Rochester Conference Series on Public Policy*, June 1995, vol 42, 303-307.

"Reviving Reputation Models of International Debt," with Patrick Kehoe, Federal Reserve Bank of Minneapolis Quarterly Review, Winter 1997.

"Incorporating Concerns for Relative Wealth Into Economic Models," with George Mailath and Andrew Postlewaite, *Federal Reserve Bank of Minneapolis Quarterly Review* 19 (3), 12–21, Summer 1995.

"The Macroeconomic Effects of World Trade in Financial Assets," *Federal Reserve Bank of Minneapolis Quarterly Review* 17 (3), 12–21, Summer 1993. (Based upon "Financial Structure and International Trade," *International Economic Review*, 1988.)

"Direct Investment: A Doubtful Alternative to International Debt," with William English, *Federal Reserve Bank of Minneapolis Quarterly Review* 16 (1), 12–21, Winter 1992. (Based upon "Expropriation and Direct Investment," *Journal of International Economics*, 1991.)

"Sovereign Default," in P. Newman, M. Milgate and J. Eatwell, eds., *The New Palgrave Dictionary of Money and Finance*, Macmillian Press, London, 495–96, 1992.

"Comment: Internationalization of Financial Markets and Balance of Payments Imbalances: A Japanese Perspective," *Carnegie-Rochester Conference Series on Public Policy* 30, 221–27, Spring 1989.

"Market Makers Reaction to Insiders: Casinos vs. Card Counters," with Peter Garber, *The Gambling Studies: Proceedings of the Sixth National Conference on Gambling and Risk Taking* 4, 158–69, 1985.

"Oil Decontrol and Beyond," with Paul Bennet and Steven Dym, Federal Reserve Bank of New York Quarterly Review 5 (4), 36–42, 1981.

Unpublished Research Papers

"Implications of Heterogeneity in Preferences, Beliefs and Asset Trading Technologies for the Macroeconomy," joint with Yili Chien and Hanno Lustig, preliminary memo.

"Analyzing the Effects of Insuring Health Risks: On the Trade-Off between Short Run Insurance Benefits and Long Run Incentive Costs," joint with Soojin Kim and Dirk Krueger, NBER working paper no. 18572, 2013.

"Why Doesn't Technology Flow to Poor Countries," joint with Jeremy Greenwood and Juan Sanchez, SSRN working paper, http://ssrn.com/abstract=1945981.

"Self-Enforcing Stochastic Monitoring, Misreporting and the Existence of Debt and Equity Claims," NBER working paper no. 14480, 2008.

"A Dynamic Theory of Optimal Capital Structure and Executive Compensation," with A. Atkeson, N.B.E.R. working paper no. 11083, 2005.

"Deflation, Real Wages, and the International Great Depression: A Productivity Puzzle," with L. Ohanian and R. Leung, N.B.E.R. working paper No. 11237, 2005.

Special Presentations and Forums

Plenary Speaker Society for Economic Dynamics, Seoul Korea June 2013

LACEA invited speaker 10/21/2008

Penn University Forum on the Current Economic Crisis February 2009.

March 30, 2009 Council on Foreign Relations/NYU Conference on the Great Depression

Department Service at U. of Penn.

Served on the department graduate and undergraduate committees 2008 - present

Served on the department personnel committee 2006-2008 and 2011-2012.

Teaching at U. of Penn.

2007-2009 taught undergraduate intermediate macroeconomics and graduate macro topics, co-taught first-year graduate

2006-2007 taught undergraduate intermediate macroeconomics

Collaborators (past and present)

Andrew Atkeson UCLA, Paul Bennet FRB NY, V.V. Chari U. of MN, Yili Chien Purdue U, William English Fed. Res. Board, Steven Dym Steven I Dym & Assoc., Patrick Kehoe U. of MN and FRB Mpls., Tim Kehoe U. of MN, Charles Leung (unknown), Hanno Lustig UCLA, George Mailath U. of PA, Narayana Kocherlakota U of MN, Lee Ohanian UCLA, Andrew Postlewaite U. of PA., Edward Prescott ASU, Alvaro Riascos Universidad de Los Andes, James Schmitz F.R.B. Mpls., Alan Stockman U. of Rochester,