

Karl Shell: *Curriculum Vitae*

February 22, 2019

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Earned Degrees:

- Ph.D. (Economics), Stanford University, 1965.
- A.B. (Mathematics), Princeton University, 1960.

Current Positions:

- Thorne Professor of Economics, Cornell University, since 1986.
- Founding Editor, *Journal of Economic Theory*, since 1968.

Past Positions:

- Professor of Economics and Public Policy, University of Pennsylvania, 1970-1987.
- Associate Professor of Economics, University of Pennsylvania, 1968-1970.
- Associate Professor of Economics, Massachusetts Institute of Technology, 1967-1968.
- Assistant Professor of Economics, Massachusetts Institute of Technology, 1964-1967.

Selected Administrative Positions:

- Co-director (with Neil Wallace) Cornell/Penn State Semi-annual Macroeconomics Workshop, 1996-2017.
- Director, Center for Analytic Economics (CAE), Cornell University, 1987-1992.

- Co-director (with David Cass), Center for Analytic Research in Economics and the Social Sciences (CARESS), University of Pennsylvania, 1975-1986.
- Program Chairman, North American Meeting of the Econometric Society, New York, 1972.

Visiting and Temporary Positions:

- Visiting Professor of Economics, Southern Methodist University, Spring 2008.
- Tan Chin Tuan Professor of Money and Banking, National University of Singapore, August 2005.
- Visiting Professor of Economics, New York University, 1999-2000.
- Visiting Professor of Economics, Doshisha University, Kyoto, Japan, May 1996.
- Overseas Fellow, Churchill College, Cambridge, UK, May 1995.
- Visiting Professor of Economics, University of California, San Diego, Fall 1992.
- Consultant, Research Department, Federal Reserve Bank of Minneapolis, July 1991.
- Visiting Professor, Université de Paris I, May 1991.
- Visiting Professor of Economics, Università Commerciale Bocconi, Milan, May 1990.
- Fellow, Center for Advanced Study in the Behavioral Sciences (CASBS), Stanford CA, 1984-1985.
- Adjunct Professor, Université Paris I, May 1981.
- Adjunct Professor, Université Paris XII, May 1979.
- Adjunct Researcher, CEPREMAP and Centre National de la Recherche Scientifique (CNRS), Paris, 1977-1978.
- Visiting Professor of Economics, Stanford University, 1972-1973.
- Acting Instructor in Economics, Stanford University, 1962-1963.

- Staff Economist, Council of Economic Advisers, Washington DC, Summer 1962.
- Systems Analyst, Procter and Gamble Company, Cincinnati, Summer 1959.

Selected Honors:

- Fellow, Institute for Nonlinear Dynamical Inference (INDI) Moscow, since 2017.
- Economic Theory Fellow, Society for the Advancement of Economic Theory (SAET), since 2011. Member of the inaugural class of fellows.
- Fulbright Scholar, Institut d'Analisi Economica, CSIC, Universitat Autònoma Barcelona, June 1989.
- Fellow, Center for Advanced Study in the Behavioral Sciences (CASBS), Stanford CA, 1984-1985.
- John Simon Guggenheim Memorial Foundation Fellowship, 1977-1978.
- Fellow of the Econometric Society, since 1972.
- M.A. (Hon.), University of Pennsylvania, 1971.
- Ford Foundation Faculty Research Fellowship, 1967-1968.
- Woodrow Wilson Foundation Dissertation Fellowship, 1963-1964.
- Woodrow Wilson Foundation National Fellowship, 1960-1961.

Selected Professional Activities:

- Scientific Committee, The Future of General Equilibrium, NYU Abu Dhabi, December 2015.
- Vice President, Society for Economic Measurement, since 2013.
- Charter member, Executive Committee, Society for Economic Measurement, since 2013.
- Member, Scientific Committee, General Equilibrium Days, since 2009.
- Member, Committee on Publication Ethics, London, UK, 2007-2016.

- Consulting Editor, Academic Press (including the series “Economic Theory, Mathematical Economics, and Econometrics”), 1968-1994.

Books:

- [*Economic Analysis of Production Price Indexes*](#) (with Franklin M. Fisher), New York: Cambridge University Press (Hardcover, ISBN 0521554160, and soft cover, ISBN 0521556236), 1998.
- [*Economic Complexity: Chaos, Sunspots, Bubbles, and Nonlinearity*](#) (Editor with William A. Barnett and John Geweke), New York: Cambridge University Press, 1989. ISBN: 052135563X.
- [*The Hamiltonian Approach to Dynamic Economics*](#) (Editor with David Cass), New York: Academic Press, 1976. ISBN: 012163650X.
- [*Mathematical Methods in Investment and Finance*](#) (Editor with Giorgio P. Szegö), Amsterdam: North-Holland, 1972. ISBN: 0720430674 (North- Holland), 044410395 (American Elsevier).
- [*The Economic Theory of Price Indices: Two Essays on the Effect of Taste, Quality, and Technological Change*](#) (with Franklin M. Fisher), New York: Academic Press, 1972. ISBN: 0122577505.
- [*Essays on the Theory of Optimal Economic Growth*](#) (Editor), Cambridge, Massachusetts: MIT Press, 1967, ISBN 0262190362.

Articles:

- [“On Sunspots, Bank Runs, and Glass-Steagall”](#) (with Yu Zhang) *International Journal of Economic Theory*, forthcoming, published online January 2, 2019. (doi: 10.1111/ijet.12208)
- [“Bank Runs: The Post-Deposit Game”](#) (with Yu Zhang), *Macroeconomic Dynamics*, June 2018, 1-18. (doi:10.1017/S1365100518000275) ([Online Appendices](#))
- [“Winners and Losers from Price-level Volatility”](#) (with Guido Cozzi, Aditya Goenka, and Minwook Kang), in K. Nishimura, A. Venditti & N.C. Yannelis (eds.) “Sunspots and Non-Linear Dynamics: Essays in Honor of Jean-Michel Grandmont”, (ISBN 978-3-319-44074-3 & 978-3-319-44076-7), Springer, 2017.

- "[David Cass: Economic Theorist](#)", *Journal of Economic Theory*, Vol 147 (2), March 2012, 397-399. (doi: 10.1016/j.jet.2012.02.002).
- "[Could Making Banks Hold Only Liquid Assets Induce Bank Runs?](#)" (with James Peck), *Journal of Monetary Economics*, Vol. 7:4, May 2010.
- "[Sunspot Equilibrium](#)" in *The New Palgrave: A Dictionary of Economics*, 2nd Edition (L. Blume and S. Durlauf, eds.), New York: Palgrave Macmillan, 2008. Also in *The New Palgrave Dictionary of Economics Online*. 03 June 2009.
- "[General Equilibrium with Nonconvexities and Money](#)" (with Guillaume Rocheteau, Peter Rupert and Randall Wright), *Journal of Economic Theory*, Vol. 142(1), September 2008, 294-317. (doi: 10.1016/j.jet.2006.07.011)
- "[Capital Gains](#)" (with Luís Francisco Aguiar-Conraria), *International Journal of Economic Theory*, (doi:10.1111/j.1742-7363.2006.0039.x), Vol. 2(3-4), September/December 2006, 331-349.
- "[Capital Gains: Blue Machines and Red Machines](#)" (with Luís Francisco Aguiar-Conraria), *Singapore Economic Review*, Vol. 50 (Special Issue No. 1), 2005, 437-448.
- "[Comments on Bruce Smith's Work](#)" (with David K. Levine and Arthur J. Rolnick), *Economic Theory*, Vol. 24(4), November 2004, 733-739. (doi: 10.1007/s00199-004-0513-5)
- "[Comparing Sunspot Equilibrium and Lottery Equilibrium Allocations: The Finite Case](#)" (with Rod Garratt and Todd Keister), *International Economic Review*, Vol. 45(2), May 2004, 351-386. (doi: 10.1111/j.1468-2354.2004.00129.x).
- "[The Economic Effects of Restrictions on the Government Budget Deficit: Imperfect Private Credit Markets](#)" (with Christian Ghiglino), *Economic Theory*, Vol. 21(2-3), March 2003, 399-421. Reprinted in *Assets, Beliefs, and Equilibria in Economic Dynamics: Essays in Honor of Mordecai Kurz* (C.D. Aliprantis, K.J. Arrow, P.J. Hammond, F. Kubler, H.M. Wu, and N.C. Yannelis, eds.), Berlin: Springer-Verlag, 2004, 213-235. (doi: 10.1007/s00199-002-0288-5)
- "[Equilibrium Bank Runs](#)" (with James Peck), *Journal of Political Economy*, Vol. 111(1), February 2003, 103-123.

- "[Introduction to Sunspots and Lotteries](#)" (with Edward C. Prescott), *Journal of Economic Theory*, Vol. 107(1), November 2002, 1-10. (doi:10.1006/jeth.1999.2634).
- "[Equilibrium Prices when the Sunspot Variable is Continuous](#)" (with Rod Garratt, Todd Keister, and Cheng-Zhong Qin), *Journal of Economic Theory*, Vol. 107(1), November 2002, 11-38. (doi:10.1006/jeth.1999.2634).
- "[Growth Dynamics and Returns to Scale: A Bifurcation Analysis](#)" (with Gaetano Antinolfi and Todd Keister), *Journal of Economic Theory*, Vol. 96(1), January 2001, 70-96. (doi:10.1006/jeth.1999.2632)
- "[The Economic Effects of Restrictions on Government Budget Deficits](#)" (with Christian Ghiglino), *Journal of Economic Theory*, Vol. 94(1), September 2000, 106-137. (doi: 10.1006/jeth.1999.2628)
- "[The Production Recipe Approach to Modeling Technological Innovation: An Application to Learning by Doing](#)" (with Phil Auerswald, Stuart Kauffman, and José Lobo), *Journal of Economic Dynamics and Control*, Vol. 24(3), December 1999, 389-450.
- "[Price Level Volatility: A Simple Model of Money Taxes and Sunspots](#)" (with Joydeep Bhattacharya and Mark Guzman), *Journal of Economic Theory*, Vol. 81(2), August 1998, 401-430. (doi: 10.1006/jeth.1997.2632)
- "[Robustness of Sunspot Equilibria](#)" (with Aditya Goenka), *Economic Theory*, Vol. 10(1), July 1997, 79-98.
- "[When Sunspots Don't Matter](#)" (with Aditya Goenka), *Economic Theory*, Vol. 9(1), January 1997, 169-178.
- "[Market Participation and Sunspot Equilibria](#)" (with Yves Balasko and David Cass), *The Review of Economic Studies*, Vol. 62(3), No. 212, July 1995, 491-512. Reprinted in *Equilibrium, Critical Ideas in Economics* (D. A. Walker, ed.), Volume 3, London: Edward Elgar, 2000, 591-615.
- "[Lump-Sum Taxation: The Static Economy](#)" (with Yves Balasko) in *General Equilibrium, Growth, and Trade: The Legacy of Lionel McKenzie, II* (R. Becker, M. Boldrin, R. Jones and W. Thomson, eds.) New York: Academic Press, 1993, 168-180.

- "[Sunspot Equilibrium](#)", Jacob Marschak Colloquium at UCLA, November 13, 1992, abstract in *Mathematical Social Sciences*, Vol. 26, July 1993, 101.
- "[Indivisibilities, Lotteries, and Sunspot Equilibria](#)" (with Randall D. Wright), *Economic Theory*, Vol. 3(1), January 1993, 1-17.
- "[The Market Game: Existence and Structure of Equilibrium](#)" (with James Peck and Stephen E. Spear), *Journal of Mathematical Economics*, Vol. 21(3), May 1992, 271-299.
- "[Sunspot Equilibrium](#)" (with Bruce D. Smith), in the *New Palgrave Dictionary of Money and Finance* (J. Eatwell, M. Milgate, and P. Newman, eds.), Vol. 3, London: Macmillan, 1992, 601-605.
- "[Overlapping-Generations Model and Monetary Economics](#)" (with Bruce D. Smith), in the *New Palgrave Dictionary of Money and Finance* (J. Eatwell, M. Milgate, and P. Newman, eds.), Vol. 3, London: Macmillan, 1992, 104-109.
- "[Market Uncertainty: Correlated and Sunspot Equilibria in Imperfectly Competitive Economies](#)" (with James Peck), *The Review of Economic Studies*, Vol. 58(5), October 1991, 1011-1029.
- "[Liquid Markets and Competition](#)" (with James Peck), *Games and Economic Behavior*, Vol. 2(4), December 1990, 362-377.
- "[On the Nonequivalence of the Arrow-Securities Game and the Contingent-Commodities Game](#)" (with James Peck), Part 1, Chapter 4 in *Economic Complexity: Chaos, Sunspots, Bubbles, and Nonlinearity* (W. Barnett, J. Geweke, and K. Shell, eds.), New York: Cambridge University Press, 1989, 61-85.
- "[Sunspot Equilibrium in an Overlapping-Generations Economy with an Idealized Contingent-Commodities Market](#)" (with David Cass), Part 1, Chapter 1 in *Economic Complexity: Chaos, Sunspots, Bubbles, and Nonlinearity* (W. Barnett, J. Geweke, and K. Shell, eds.), New York: Cambridge University Press, 1989, 3-20.
- "[Hamiltonians](#)" in *The New Palgrave: A Dictionary of Economics* (J. Eatwell, M. Milgate and P. Newman, eds.), Vol. 2, New York: Macmillan, 1987, 588-590.

- "[Sunspot Equilibrium](#)" in *The New Palgrave: A Dictionary of Economics* (J. Eatwell, M. Milgate, and P. Newman, eds.), Vol. 4, New York: Macmillan, 1987, 549-551. Reprinted in *The New Palgrave: General Equilibrium* (J. Eatwell, M. Milgate, and P. Newman, eds.), New York: Macmillan, 1989, 274-280.
- "[Lump-Sum Taxes and Transfers: Public Debt in the Overlapping-Generations Model](#)" (with Yves Balasko) in *Essays in Honor of Kenneth J. Arrow, Vol. II: Equilibrium Analysis* (W. Heller, R. Starr, and D. Starrett, eds.), New York: Cambridge University Press, 1986, Chapter 5, 121-153.
- "[On Taxation and Competitive Equilibria](#)" (with Yves Balasko) in *Optimalité et Structures: Mélanges en Hommage B Edouard Rossier* (G. Ritschard and D. Royer, eds.), Paris: Economica, 1985, 69- 83.
- "[Do Sunspots Matter?](#)" (with David Cass), *Journal of Political Economy*, Vol. 91(2), April 1983, 193-227. Reprinted in *General Equilibrium Theory* (G. Debreu, ed.), *The International Library of Critical Writings in Economics* 67, London: Edgar Elgar Publishing, 1996, Vol. I, Chapter 17, 295-329.
- "[Les tâches solaires ont-elles de l'importance?](#)" (with David Cass), *Cahiers du séminaire d'économétrie*, 24, 1982, 93-127. (This version is slightly more general than the *JPE* version.)
- "[The Overlapping-Generations Model, III: The Case of Log-Linear Utility Functions](#)" (with Yves Balasko), *Journal of Economic Theory*, Vol. 24(1), February 1981, 143-152.
- "[The Overlapping-Generations Model, II: The Case of Pure Exchange with Money](#)" (with Yves Balasko), *Journal of Economic Theory*, Vol. 24(1), February 1981, 112-142. See "Erratum," *Journal of Economic Theory*, Vol. 25(3), December 1981, 471.
- "[Existence of Competitive Equilibrium in a General Overlapping-Generations Model](#)" (with Yves Balasko and David Cass), *Journal of Economic Theory*, Vol. 23(3), December 1980, 307-322.
- "[The Overlapping-Generations Model, I: The Case of Pure Exchange without Money](#)" (with Yves Balasko), *Journal of Economic Theory*, Vol. 23(3), December 1980, 281-306. Appears in Spanish as "El modelo de generaciones sucesivas,

- I: el caso de intercambio puro sin dinero" (translated by M. Santos), *Cuadernos Economicos de I.C.E.*, Vol. 35(1), 1987, 67-92.
- "[In Defense of a Basic Approach](#)" (with David Cass) in *Models of Monetary Economies*, (J. Kareken and N. Wallace, eds.), Minneapolis: Federal Reserve Bank of Minneapolis, 1980, 251-260.
 - "[The Structure and Stability of Competitive Dynamical Systems](#)" (with David Cass), *Journal of Economic Theory*, Vol. 12(1), February 1976, 31-70. Reprinted as Essay III in *The Hamiltonian Approach to Dynamic Economics* (D. Cass and K. Shell, eds.), New York: Academic Press, 1976, 31-70.
 - "[Introduction to Hamiltonian Dynamics in Economics](#)" (with David Cass), *Journal of Economic Theory*, Vol. 12(1), February 1976, 1-10. Reprinted as Essay I in *The Hamiltonian Approach to Dynamic Economics* (D. Cass and K. Shell, eds.), New York: Academic Press, 1976, 1-10.
 - "[Neoclassical Growth Models](#)" in *Modern Economic Thought* (S. Weintraub, ed.), Philadelphia: University of Pennsylvania Press, 1976, 347-367.
 - "[Comment on Altruism and Egoism](#)" in *Altruism, Morality and Economic Theory* (E.S. Phelps, ed.), New York: Russell Sage Foundation (Basic Books), 1975, 141-146.
 - "[Demand for Money in a General Portfolio Model in the Presence of an Asset that Dominates Money](#)" (with Albert K. Ando), Appendix to Chapter 12 in *The Brookings Model: Perspective and Recent Developments*, (G. Fromm and L.R. Klein, eds.), Amsterdam: North-Holland, 1975, 560-563.
 - "[The Theory of Hamiltonian Dynamical Systems, and an Application to Economics](#)" in *The Theory and Application of Differential Games* (J.D. Grote, ed.), Dordrecht-Holland: D. Reidel Publishing Company, 1975, 189-200.
 - "[On Optimal Taxation with Costly Administration](#)" (with Walter P. Heller), *American Economic Review*, Vol. 64(2), May 1974, 338-345.
 - "[Inventive Activity, Industrial Organization and Economic Growth](#)" in *Models of Economic Growth* (J.A. Mirrlees and N.

Stern, eds.), London: Macmillan, and New York: Halsted (John Wiley & Sons), 1973, 77-100.

- "[On Competitive Dynamical Systems](#)" in *Differential Games and Related Topics* (H.W. Kuhn and G.P. Szegö, eds.), Amsterdam: North-Holland, 1972, 449-476.
- "[Financial Instruments in the Dynamic Theory of Aggregate Investment Allocation](#)", in *Mathematical Methods in Investment and Finance* (G.P. Szegö and K. Shell, eds.), Amsterdam: North-Holland, 1972, 234-243.
- "[Selected Elementary Topics in the Theory of Economic Decision Making Under Uncertainty](#)" in *Mathematical Methods in Investment and Finance* (G.P. Szegö and K. Shell, eds.), Amsterdam: North-Holland, 1972, 65-75.
- "[The Pure Theory of the National Output Deflator](#)" (with Franklin M. Fisher), MIT Working Paper, August 1970. Appears as Essay II in *The Economic Theory of Price Indexes: Two Essays on the Effects of Taste, Quality, and Technological Change* (by Franklin M. Fisher and Karl Shell), New York: Academic Press, 1972, 49-113.
- "[Notes on the Economics of Infinity](#)" *Journal of Political Economy*, Vol. 79(5), September/October 1971, 1002-1011. Reprinted in *Growth Theory* (R. Becker and E. Burmeister, eds.), The International Library of Critical Writings in Economics 10, London: Edgar Elgar Publishing, 1991, Vol. III (Equilibrium Growth Theories), Chapter 1, 3-12. Appears in Spanish as "Notas sobre las economías del infinito" (translated by M. Santos), *Cuadernos Economicos de I.C.E.*, Vol. 35(1), 1987, 31-39.
- "[An Exercise in the Theory of Heterogeneous Capital Accumulation](#)" (with Christopher Caton), *The Review of Economic Studies*, Vol. 37(1), No. 113, January 1971, 13-22.
- "[Notes on the Educational Opportunity Bank](#)", *National Tax Journal*, Vol. XXIII (2), June 1970, 214-220.
- "[A New Approach to the Financing of Medical Education](#)", *Harvard Medical Alumni Bulletin*, Vol. 43(3), Winter 1969, 2-4.
- "[Optimal Fiscal and Monetary Policy, and Economic Growth](#)" (with Duncan K. Foley and Miguel Sidrauski), *Journal of Political Economy*, Vol. 77(4), Part II, July/August 1969, 698-

719. Appears in Italian as "La Politica Monetaria e Fiscale per lo Sviluppo Economico Ottimale" (translated by D. Martellato), in *Lo sviluppo economico ottimale: teoria della pianificazione* (I. Musu, ed.), Milano: Franco Angeli Editore, 1974, 238-264.
- "[Public Debt, Taxation, and Capital Intensiveness](#)" (with Edmund S. Phelps), *Journal of Economic Theory*, Vol. 1(3), October 1969, 330-346. See also "Erratum," *Journal of Economic Theory*, Vol. 2(2), June 1970, 209. Reprinted in *Studies in Macroeconomic Theory*, Vol. 2, Redistribution and Growth (E.S. Phelps, ed.), New York: Academic Press, 1980, 24-45.
 - "[Capital Gains, Income, and Saving](#)" (with Miguel Sidrauski and Joseph E. Stiglitz), *The Review of Economic Studies*, Vol. 36(1) No. 105, January 1969, 15-26.
 - "[Applications of Pontryagin's Maximum Principle to Economics](#)" in *Mathematical Systems Theory and Economics, I* (H.W. Kuhn and G.P. Szegö, eds.), Berlin: Springer Verlag, 1969, 241-292. (The "Varenna Lectures.")
 - "[Technological Knowledge and Economic Growth](#)" in Planning for Advanced Skills and Technologies, Industrial Planning and Programming Series No. 3, United Nations, New York: United Nations Industrial Development Organization, 1969, 79-90.
 - "[The Educational Opportunity Bank: An Economic Analysis of a Contingent Repayment Loan Program for Higher Education](#)" (with Franklin M. Fisher, Duncan K. Foley, Ann F. Friedlaender and in association with James J. Behr, Stanley Fischer, and Ran D. Mosenson), *National Tax Journal*, Vol. 21, No. 1, March 1968, 2-45.
 - "[Taste and Quality Change in the Pure Theory of the True Cost-of-Living Index](#)" (with Franklin M. Fisher) in *Value, Capital and Growth* (J.N. Wolfe, ed.), Edinburgh: Edinburgh University Press, 1968, 97-139. Reprinted in *Price Indexes and Quality Change* (Z. Griliches, ed.), Cambridge, Massachusetts: Harvard University Press, 1971, 16-54, and in *Value, Capital and Growth* (J.N. Wolfe, ed.), Chicago: Aldine Transaction, 2006, 97-140. Also appears as Essay I in the *Economic Theory of Price Indices: Two Essays on the Effects of Taste, Quality and Technological Change* (by Franklin M. Fisher and Karl Shell), New York: Academic Press, 1972, 1-48.

- "[The Allocation of Investment in a Dynamic Economy](#)" (with Joseph E. Stiglitz) *Quarterly Journal of Economics*, Vol. 81(325), November 1967, 592-609.
- "[A Model of Inventive Activity and Capital Accumulation](#)" in *Essays on the Theory of Optimal Economic Growth* (K. Shell, ed.), Cambridge, Massachusetts: MIT Press, 1967, Chapter IV, 67-85.
- "[Optimal Programs of Capital Accumulation for an Economy in which there is Exogenous Technical Change](#)" in *Essays on the Theory of Optimal Economic Growth*, (K. Shell, ed.), Cambridge, Massachusetts: MIT Press, 1967, Chapter I, 1-30.
- "[Comparative Statics for the Two-Sector Model](#)", *Metroeconomica*, Vol. 18(2), May/August 1966, 117-124.
- "[Toward a Theory of Inventive Activity and Capital Accumulation](#)" *American Economic Review*, Vol. 56(2), May 1966, 62-68.

Reviews:

- [Review of "Public Investment, The Rate of Return, and Optimal Fiscal Policy"](#) by K. Arrow and M. Kurz, Baltimore and London: The John-Hopkins Press, 1970; in *The Journal of Finance*, Vol. 26(4), September 1971, 1005-1006.
- [Review of "Optimal Economic Growth: Shifting Finite versus Infinite Horizons"](#) by M. Inagaki, Amsterdam and London: North-Holland, 1970; in *Journal of Economic Literature*, Vol. 9(3), September 1971, 821-822.
- [Review of "The Costs of Economic Growth"](#) by Ezra J. Mishan, New York: Frederick A. Praeger, 1967; in *Journal of Finance*, Vol. 24(3), June 1969, 56.
- [Review of "Cours d'automatique théorique"](#) by R. Pallu de la Barrière, Paris: Dunod, 1966; in *Econometrica*, Vol. 36(2), April 1968, 430-431.
- [Review of "Colloquium on Applications of Mathematics to Economics \(Budapest, 1963\),"](#) ed. by András Prékopa, Budapest: Akadémiai Kiadó, 1965; in *Journal of the American Statistical Association*, Vol. 62(318), June 1967, 708-710.

- [Review of "Recent Developments in Information and Decision Processes,"](#) ed. by Robert E. Machol and Paul Gray, New York: Macmillan, 1962; in *Econometrica*, Vol. 32(4), October 1964, 710.
- [Review of "Elementary Mathematics of Price Theory"](#) by Clark Lee Allen, Belmont, California: Wadsworth, 1962; in *American Economic Review*, Vol. 53(1), March 1963, 176-177.

Interviews:

- ["What should you do during a bank run? Professor Peck gives advice"](#).
- ["Hirofumi Uzawa — interviewed by Masahiro Okuno-Fujiwara and Karl Shell"](#), *Macroeconomic Dynamics*, Vol.13 (3), June 2009, 390-420.
- ["Karl Shell — interviewed by Stephen E. Spear and Randall Wright"](#), *Macroeconomic Dynamics*, Vol.5 (5), November 2001, 701-741.

Selected Unpublished Research:

- ["Irrelevance of Government Debt Restrictions with Heterogeneous Credit Restrictions,"](#) (with Christian Ghiglino), November 2, 2005.
- ["Further Evidence of the Necessity of Sunspots"](#) (with Rod J. Garratt), Working Paper in Economics 6-93, Department of Economics, University of California, Santa Barbara, April 1993.
- ["Asymmetric Information and Sunspot Equilibria: A Family of Simple Examples"](#) (with Robert J. Aumann and James Peck), Working Paper 88-34, Center for Analytic Economics, Cornell University, Ithaca, October 1988.
- ["Market Uncertainty: Sunspot Equilibria in Imperfectly Competitive Economies"](#) (with James Peck), Working Paper 85-21, Center for Analytic Research in Economics and the Social Sciences, University of Pennsylvania, Philadelphia, July 1985. (This version is more complete than the version in the *RES*.)
- "Output Price Indices" (with Franklin M. Fisher), Working Paper #81-05, Center for Analytic Research in Economics and the

Social Sciences, University of Pennsylvania, Philadelphia,
February 28, 1981.

- "The Theory of Price Indices and Subindices for Output and Input Deflation: Progress Report" (with Franklin M. Fisher), Working Paper 79-02, Center for Analytic Research in Economics and the Social Sciences, University of Pennsylvania, Philadelphia, February 1979.
- "[Monnaie et allocation intertemporelle](#)" [title and abstract in French, text in English] mimeo, Séminaire Roy-Malinvaut, Centre National de la Recherche Scientifique, Paris, November 21, 1977. Forthcoming as a Vintage Unpublished Paper in *Macroeconomic Dynamics* under the title "Money and Intertemporal Allocation: Sunspots".
- "Some Reflections on the Theoretical Underpinnings of Price Indexes of the WPI-Type," mimeo., University of Pennsylvania, Philadelphia, prepared for the Bureau of Labor Statistics round-table discussion of the industrial price program (held in Washington, D.C. on October 17, 1975), October 3, 1975.
- "[A New Variant of the Educational Opportunity Bank Designed for Stability and Ease of Administration in 'Small-Scale' Application](#)" (with Richard Berner and Michael B. Johnson), a report supported by Contract OS-70-155, U.S. Department of Health, Education and Welfare, Washington, D.C., mimeo., October 1972.
- "[Patterns of Technical Change and Capital Accumulation](#)," Ph.D. Dissertation, Stanford University: Stanford, April 1965. (Supervised by Kenneth J. Arrow and Hirofumi Uzawa.)
- "Untied Aid and the Balance of Payments" (with Richard N. Cooper), memorandum of the Council of Economic Advisers, mimeo., Washington, D.C., June 1962. This memo is cited and described in the Appendix to Chapter VI of the volume *The United States Balance of Payments in 1962* by Emile Despres, Lawrence B. Krause, Alice M. Rivlin, Walter A. Salant, and Lorie Tarshis, The Brookings Institution: Washington D.C., 1963, 275-277.
- "Some Topics in Modern Decision Theory," Senior Thesis, Department of Mathematics, Fine Hall Library, Princeton

University, Princeton, New Jersey, May 1960. (Supervised by Harold W. Kuhn.)

- “Integral Solutions to Linear Programs,” Junior Paper, Department of Mathematics, Fine Hall Library, Princeton University, Princeton, New Jersey, May 1959. (Supervised by Ralph E. Gomory.)

Selected Works in Progress:

- [“The Diamond-Dybvig Revolution: Extensions Based on the Original DD Environment”](#) (with Yu Zhang). [Presentation slides](#)
- “Overlapping-Generations Economics: Finger Exercises” (with Noah Kwicklis and Khai Zhi Sim).
- “The Future of General Equilibrium Theory in Economics”.
- “Optimal Taxation and Price-level Volatility” (with Guido Cozzi, Aditya Goenka, and Minwook Kang). Being redrafted for two separate submissions, one on optimal taxation, the other on majority voting.
- “Sunspot Equilibrium: Individually Rational Excess Economic Volatility,” a monograph to unify, extend, and popularize the subject.