# Michele Boldrin - Curriculum Vitae et Studiorum

#### Current

Joseph Gibson Hoyt Distinguished Professor of Economics in Arts & Sciences Department of Economics,

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# Education

Ph.D. (Economics), University of Rochester, 1987. M.A. (Economics), University of Rochester, 1985. Laurea (Economics), Universitá di Venezia, 1982.

# **Teaching and Research Experience**

2006-present,	Professor, Washington University in Saint Louis, St Louis, MO
2017-present	Visiting Professor, Università Ca' Foscari, Venezia, Italy
2017-present	Visiting Professor, Peking University, Beijing, PRC
1999-2006,	Professor and DGS, University of Minnesota, Minneapolis, MN.
2002-2003,	Visiting Professor, Universidad Carlos III de Madrid,
1994-1999,	Marc Rich Professor, Universidad Carlos III de Madrid.
1996-1999,	Visiting Professor, Univ. of Chicago, Univ. of Pennsylvania, UCLA.
1990-1994,	Associate Professor, Kellogg GSM, Northwestern University.
1990-1994,	Visiting Professor: UAB-Barcelona, UCIII-Madrid, Ubocconi-Milano.
1987-1994,	External Assistant, and Associate Professor, Santa Fe Institute.
1987-1994,	Assistant and Associate Professor, Department of Economics, UCLA.
1986-1987,	Post-Doctoral Fellow, Department of Economics, University of Chicago, Chicago, IL.

# **Honors and Other Ongoing Professional Activities**

2019-present	Economic Editorialist, Fanpage, Il Foglio and La Verità (newspapers)				
2019-present	Academic Advisory Council, Institute for New Structural Economics, Beijing				
2018-present	Founder, Liberi Oltre le Illusioni, www.liberioltreleillusioni.it				
2018-present	Editor in Chief, Research in Economics				
2016-present,	President, Fondazione i Cinquecento				
2014-present,	Fellow, Society for Economic Measurement				
2010-present,	Fellow, Society for the Advancement of Economic Theory				
2006-present,	Co-Founder and Co-Editor, noiseFromAmerika, www.noisefromamerika.org				
2000-present,	Fellow, Econometric Society				
1996-present,	Advisory Editor, then Book Review Editor, Macroeconomic Dynamics.				
1995-present,	Research Fellow, CEPR, London.				

# **Past Honors and Other Professional Activities**

2012 2014	
2012-2014,	Fondatore e Coordinatore Nazionale, Fare per Fermare il Declino
2012-2014,	Director Ejecutivo, FEDEA, Madrid
2007-2014,	Research Fellow, FEDEA, Madrid
2009-2012,	Member, Board of Directors, IMDEA, Madrid
2008-2012,	Chairman, Department of Economics, Washington University in St Louis
2008-2011,	Member, Executive Board, ISSNAF
2007-2012,	Member, Scientific Advisory Board, SUM-NISA.
2006-2016,	Research Fellow, Federal Reserve Bank of Saint Louis.
2003-2009,	Associate Editor, Econometrica.
2002-2005,	Director, Observatorio de América Latina, Fundación BBVA, Madrid.
2002-2005,	Member, Consejo Editorial, Expansión, Madrid.
2001-2002,	Member, Commissione per la Revisione del Sistema Previdenziale, Ministero del Welfare
	e della Sicurezza Sociale, Roma.
1999-2006,	Visitor and Consultant, Federal Reserve Bank of Minneapolis.
1997-2002,	Co-Director, "School on the Mathematics of Economics", The Abdus Salam International
	Centre for Theoretical Physics, Trieste, Italy.
1996-2010,	Associate Editor, then Editor, then Associate Editor, Review of Economic Dynamics.
1995-2002,	Editor, Cuadernos Económicos, Ministerio de Economía y Hacienda, Madrid.
1995-1997,	Associate Editor, Economic Theory.
1994-1997,	Founder and Director, Master en Análisis Financiero, Univ. Carlos III.
1994-2003,	Associate Editor, Journal of Nonlinear Economic Dynamics
1994-2000,	Associate Editor, International Economic Review
1994-1996,	Member, Consiglio Tecnico-Scientifico per la Programmazione Economica, Ministero
,	del Bilancio e della Programmazione Economica, Roma.
1991-2008,	Council Member, Society for Economic Dynamics.
1991-1995,	Member of the Advisory Board, Chaos: an Interdisciplinary Journal of Nonlinear
,	Sciences, American Institute of Physics.
1991	Chairman, Scientific Program Committee, SED Annual Meetings, Capri, Italy.
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# **Invited Lectures (selected)**

2011,

Vanderbilt University, May.

2021,	"Primitive Accumulation and Catching up", INSE, 8th International Symposium, Peking
	University, Peking, December.
2015,	"Innovation, Competition and Monopoly. Long Run Determinants of Growth and
	Inequality", The Second International Conference on New Structural Economics, Peking
	University, Peking, December.
2015,	"Innovation, Competition and Monopoly. Long Run Determinants of Growth and
	Inequality" EY International Conference on Economics II, Gazi University, Ankara,
	November.
2014,	"Two Lectures on Innovation and Intellectual Property", Winter School, Delhi School of
	Economics, New Delhi, December.
2014,	"Modeling the US Recession and its European Aftermath", Vilfredo Pareto Lecture,
	ASSET 2014, Aix-en-Provence, November.
2012,	"The Euro Crisis and the Italian Decline", Centro Studi Confindustria, Biennial Meeting,
	Milano, March.
2011,	"A Pseudo-Austrian Model of Monetary Policy", Midwest Macroeconomic Association,

"Internet, Innovation and Intellectual Property", IAB Annual Meeting, Milano, May.

2010,	"The Crisis and Economic Theory", SoS4.8, Murcia, Spain, May.			
2010,	"Monetary Policy for the XXI Century", Missouri Economic Association, Columbia, MC			
	March.			
2009,	"Monetary Policy and Assets Evaluation", LAMES-LACEA Annual Meetings, Buenos			
	Aires, Argentina, October.			
2009,	"The Case Against Intellectual Property", ESNIE, 8th Session, Cargese, France, May.			
2009,	"Democrazia e Tecnica", NISA-SUM 2 <sup>nd</sup> International Meetings, Napoli, Italy, May.			
2008,	"Innovation, Growth and Cycles", CSEF Lecture, XVII European Workshop			
	on General Equilibrium Theory, Paestum, Italy, June.			
2007,	"Market Structure, Property Rights and Innovative Activity", 10 <sup>th</sup> Barcelona Lecture,			
	Barcelona, May.			
2006,	"Innovation and Growth under Competition", LAMES-LACEA Annual Meetings,			
	Mexico-DF, November.			
2006,	"A Theory of Business Cycle", Invited Lecture, Australian Macrodynamic Workshop,			
	Canberra, August.			
2005,	"Issues in the Design of the Optimal Pension Plan", Plenary Lecture, Copenhaghen,			
	CEBR-CESifo Conference on "Pension Reform", June.			
2004,	"Globalization, Intellectual Property, and Economic Prosperity", Invited Lecture,			
	Budapest, 50 <sup>th</sup> Anniversary of the Economics Section, <i>Hungarian Academy of Sciences</i> .			
2003,	"Innovation and Competition", Spanish Economic Review", Simposio de Análisis			
	Económicos, Sevilla			
2002,	"Regional Convergence and EU Enlargement XIII Congress of the International			
	Economic Association, Lisbon.			
2001,	"Reforming Social Security", Revista de Análisis Economicos Lecture, Latin American			
	Meetings of the Econometric Society, Buenos Aires.			
1999,	"Open Issues in the Theory of Economic Growth", Latin American Meetings of the			
	Econometric Society, Cancun.			

# **Research Grants and Fellowships**

2001-2005,	NSF Grant "Determinants of Demographic Choice and Intergenerational Transfers".				
1997-2001,	EU-DG XII Grant "New Approaches to the Study of Economic Fluctuations".				
1994-2012,	Research Ministry, Spain, various research grants.				
1996-2002	Fundación BBV, Research Grant on "Reforming the Spanish Social Security System".				
1994-2004,	CICYT and DGICyT (Spain), various Research Grants.				
1993-1994,	Spencer Foundation, Research Grant.				
1992-2002,	European Science Foundation, Various Research Grants.				
1986-1987,	A.P.Sloan Doctoral Dissertation Fellowship.				

#### **Publications**

#### **Books**

- 1. Competitive Equilibrium Dynamics, (with L.Montrucchio), in progress.
- 2. General Equilibrium, Growth and Trade II: Essays in Honor of Lionel W. McKenzie, (edited jointly with R.Becker, R.Jones and W.Thomson), New York, Academic Press, 1993.
- 3. *Sistema de Pensiones y Mercado de Trabajo en España*, (joint with Sergi Jimenez and Franco Peracchi), Fundación Banco Bilbao e Vizcaya, Bilbao, Madrid, 2000.

- 4. Human Capital, Trade and Financial Development in Rapidly Growing Economies: From Theory to Empirics, (edited with Been-Lon Chen and Ping Wang), Kluwer Publ. Co., 2004.
- 5. *Against Intellectual Monopoly*, (with David K.Levine), Cambridge University Press, 2008. Translated in Italian, Korean, Japanese, Turkish and Spanish.
- 6. Efectos Económicos de la Inmigración en España, (editor), Marcial Pons, Madrid, 2009
- 7. Tremonti, istruzioni per il disuso (with A. Bisin, S. Brusco, A. Moro and G. Zanella), Ancora del Mediterraneo, 2010.
- 8. La Crisis de la Economia Espanola, (ed. with Samuel Bentolilla et al.), Marcial Pons, Madrid, 2010.
- 9. Cio' che resta del PIL, (joint with Marco Ardemagni), in progress
- 10. Inattualità del Liberalismo, (joint with Aldo Rustichini), forthcoming, Marsilio, 2022.
- 11. Filosofia per il Popolo, (joint with Adriano Palma), forthcoming, Feltrinelli, 2022.

# Refereed Articles

- 1. "Cyclic and Chaotic Behavior in Intertemporal Optmization Models" (with L. Montrucchio), *Mathematical Modelling*, **21** (1985).
- 2. "On the Indeterminacy of Capital Accumulation Paths" (with L. Montrucchio), *Journal of Economic Theory*, **40** (1986). Reprinted in R.Becker and E.Burmeister (eds.) *Growth Theory: a Readings*, New York, Edward Elgar Publishing, 1991.
- 3. "Acyclicity and Stability for Intertemporal Optimization Models" (with L. Montrucchio), *International Economic Review*, **29** (1988).
- 4. "Learning by Doing, International Trade and Growth: A Note" (with J. Scheinkman), in P.Anderson et al. (eds.) *The Economy as an Evolving Complex System*, New York, Addison Wesley, 1988.
- 5. "Paths of Optimal Accumulation in a Two--Sector Model", in W.Barnett et al. (eds.) *Economic Complexity: Chaos, Sunspots, Bubbles and Nonlinearity*, Cambridge, Cambridge University Press, 1989.
- 6. "Sources of Complex Dynamics in Two--Sector Models" (with R.Deneckere), *Journal of Economic Dynamics and Control*, **14** (1990). Reprinted in J.Benhabib (ed.) *Cycles and Chaos in Economic Equilibrium*, Princeton, Princeton University Press, 1992.
- 7. "Equilibrium Models Displaying Endogenous Fluctuations and Chaos: A Survey" (with M. Woodford), *Journal of Monetary Economics*, **25** (1990). Reprinted in J.Benhabib (ed.) *Cycles and Chaos in Economic Equilibrium*, Princeton, Princeton University Press, 1992.
- 8. "Perfectly Competitive Models of Endogenous Business Fluctuations", *European Economic Review*, **35** (1991).
- 9. "Dynamic Externalities, Multiple Equilibria and Growth", *Journal of Economic Theory*, **58** (1992), 198-218.
- 10. "A Dynamic Equilibrium Model of Search, Production and Exchange", (with N. Kiyotaki and R. Wright), *Journal of Economic Dynamics and Control*, **17** (1993), 723-757.
- 11. "Growth and Indeterminacy in Dynamic Models with Externalities" (with A. Rustichini), *Econometrica*, **62** (1994), 323-343.
- 12. "Acyclicity and Dynamic Stability: Generalizations and Applications" (with L. Montrucchio), *Journal of Economic Theory*, **65** (1995).
- 13. "Labor Contracts and Business Cycles" (with M. Horvath), *Journal of Political Economy* **103** (1995), 972-1004.
- 14. "Educación Publica, Crecimiento y Desigualdad Social" (with Ana Montes), *Moneda y Credito*, **153** (1997).
- 15. "Habit Persistence and Asset Returns in an Exchange Economy" (with L. Christiano and J. Fisher), *Macroeconomic Dynamics*, **1**, no. 2, 1997.

- 16 "The Future of Pension Systems in Europe. A Reappraisal", (with J.J. Dolado, J. F. Jimeno and F. Peracchi), *Economic Policy*, **29**, October 1999.
- 17. "Political Equilibria with Social Security", (with A. Rustichini), *Review of Economic Dynamics*, **3** (2000), 41-78.
- 18. "Growth Cycles and Market Crashes", (with D K. Levine), *Journal of Economic Theory*, **96** (2001), 13-39.
- 19. "Chaotic Equilibrium Dynamics in Endogenous Growth Models", (with K. Nishimura, T. Shigoka and M. Yano), *Journal of Economic Theory*, **96** (2001), 97-132.
- 20. "Inequality and Convergence: Reconsidering European Regional Policies", (with Fabio Canova), *Economic Policy*, **32** (2001), 207-253.
- 21. "Habit Persistence, Asset Returns and the Business Cycle", (with L.Christiano and J.Fisher), *American Economic Review*, **91** (2001), 149-166.
- 22. "Factor Saving Innovation", (with D.K. Levine), Journal of Economic Theory, 105 (2002), 18-41.
- 23. "The Case Against Intellectual Property", (with D.K. Levine), *American Economic Review*, *Papers and Proceedings*, **92** (2002), 209-212.
- 24. "Mortality, Fertility, and Saving in a Malthusian Economy", (with L.E. Jones) *Review of Economic Dynamics*, **5** (2002), 775-814.
- 25. "Rent-Seeking and Innovation," (with David K. Levine) *Journal of Monetary Economics*, **51** (2004), 127-160.
- 26. "2003 Lawrence Klein Lecture: The Case Against Intellectual Monopoly", (with David K. Levine) *International Economic Review*, **45** (2004), 327-350.
- 27. "The Intergenerational State: Public Education and Pensions", (with A. Montes) *Review of Economic Studies*, **72** (2005), 651-664.
- 28. "The Economics of Ideas and Intellectual Property", (with David K. Levine) *Proceedings of the National Academy of Sciences*, **102** (2005), 1252-1256.
- 29. "Intellectual Property, and Economic Progress", (with David K. Levine) *Spanish Economic Review* 7 (2005).
- 30. "Public Education and Capital Accumulation," Research in Economics, 59 (2005), 85-109.
- 31. "Intellectual Property and the Efficient Allocation of Surplus from Creation" (with David K. Levine), *Review of Economic Research in Copyright Issues*, **2** (2005), 45-67.
- 32. "Innováció -- a verseny szemszögébol," (with David K. Levine), *Közgazdasági Szemle*, **LII** (2005), 537-555.
- 33. "Perfectly Competitive Innovation", (with David K. Levine), *Journal of Monetary Economics*, **55** (2008), 435-453.
- 34. "Assessing the Efficiency of Public Education and Pensions", (with Ana Montes Alonso), *Journal of Population Economics*, **22** (2009), 285–309
- 35. "Market Size and Intellectual Property Protection", (with David K. Levine), *International Economic Review*, **50** (2009).
- 36. "The Slippery Slope of Concession", (with Jack Hirshleifer and David K. Levine), *Economic Inquiry*, **46** (2009).
- 37. "A Model of Discovery", (with David K. Levine), *The American Economic Review, Papers and Proceedings*, **99** (2009).
- 38. "Market Structure and Property Rights in Open Source Industries", (with David K. Levine), *Journal of Law and Politics*, **30** (2009).
- 39. "What Happened to the US Stock Market? Accounting for the Past 50 Years", (with Adrian Peralta Alva), Federal Reserve Bank of St Louis Review 91 (2009).
- 40. "Growth and Cycles, in the Mode of Marx and Schumpeter", *Scottish Journal of Political Economy*, **57** (2010).
- 41. "Does Intellectual Monopoly Help Innovation?" (with David K. Levine), *Review of Law & Economics*, **5** (2010).

- 42. "Competition and Innovation", (with David K. Levine and Carmine Ornaghi) *Cato Papers on Public Policy*, **1** (2011).
- 43. "What is Intellectual Property Good for?" (with David K. Levine), *Revue Economique*, **64** (2013)
- 44. "The Case Against Patents" (with David K. Levine), Journal of Economic Perspectives, 27 (2013).
- 45. "Fertility and Social Security" (with C. De Nardi and L.E. Jones), *Journal of Demographic Economics*, **81** (2015).
- 46. "Modeling an Immigration Shock" (with A. Montes), European Economic Review, 74 (2015).
- 47. "Comment on 'A Wedge in the Dual Mandate: Monetary Policy and Long-Term Unemployment'," *Journal of Macroeconomics*, **47A** (2016).
- 48. "Reconstructing the Great Recession" (with C. Garriga, A. Peralta-Alva and J. Sanchez), *Fed St Louis Review*, **102** (2020), No. 3.
- 49. "Reforming Patent Law: The Case of Covid-19" (with David Levine), Cato Journal, 41 (2021), No. 3.

# Publications in Italian and Spanish

- 1. "La Teoria Matematica del Ciclo Economico", Tesi di Laurea, Università di Venezia, Luglio 1982.
- 2. Il Settore dei Trasporti nel Sistema Intersettoriale dell'Economia Veneta, Milano, Franco Angeli, 1984.
- 3. "Note per la Costruzione di un Modello Aggregato di Lungo Periodo dell'Economia Veneta", Rapporto Interno IRSEV No. 23, Giugno 1984.
- 4. "Su Alcuni Recenti Progressi nell'Analisi Dinamica in Economia", Ricerche Economiche, 38 (1984).
- 5. "La crisi italiana. Ipotesi sul federalismo possibile" (with Aldo Rustichini), in Giavazzi, F., Penati, A. and Tabellini, G. (eds.) *Frontiere della Politica Economica*, Milano, Sole-24 Ore, 1995.
- 6. El Potencial de Crecimiento y los Riesgos en la Evolución de la Económia Española, (with C. Escribano, T. Espasa y J. Urrutia), Instituto Flores de Lemus, Mayo 1995.
- 7. "Federalismo Competitivo e Federalismo Cooperativo: Esempi Stranieri e Lezioni per *l'Italia*", *Volti del federalismo* I.S.P.I., Milano, 1996.
- 8. "Interaciones entre la financiación de la educación y el proceso de acumulación de capital", *Ekonomiaz*, **35** (1996), 69-91.
- 9. "Sistema de pensiones y pensiones mínimas: Incentivos a la permanencia en activo y evaluación de reformas" (with S. Jiménez-Martin and A. Sánchez), *Hacienda Pública Española*, 2001.
- 10. "El Impacto de la inmigracion sobre el sistema de seguridad social espanol", (with I. Conde Ruiz and Clara Gonzalez), in *El Impacto Socio-Economico de la Inmigracion en Espana*, Monografía FEDEA-I, Marcial Pons, Madrid, 2009.
- 11. "Modelizando el Choque Demografico", (with Ana Montes) in *El Impacto Socio-Economico de la Inmigracion en Espana*, Monografia FEDEA-I, Marcial Pons, Madrid, 2009.
- 12. "Cresciendo sin un modelo", (with Nacho Conde-Ruiz and Javier Diaz Gimenez), in *La Crisis y Espana*, Monografia FEDEA-II, Marcial Pons, Madrid 2010.

# Conference Proceedings, Collected Volumes and Other Pubs

- 1. "Persistent Oscillations and Chaos in Dynamic Economic Models: Notes for a Survey", in P.Anderson et al. (eds.) *The Economy as an Evolving Complex System*, New York, Addison Wesley, 1988.
- 2. "Dynamic Competitive Equilibria and Chaos", in *The Ubiquity of Chaos. Proceedings of the 1989 Meetings of the A.A.A.S.*, New York, AAAS, 1990.
- 3. "The Impact of Chaos on Economics and Finance" in C.Grebogi and J.Yorke (eds.) *The Impact of Chaos on Sciences and Society*, Tokyo, New York, United Nations University Press, 1996.

- 4. "Chaotic Dynamic and Economic Equilibrium Theory", in D.Lam (ed.) *Proceedings of the Third Woodward Conference on Nonlinear Dynamics*, Berlin, New York, Springer-Verlag, 1992.
- 5. "Competitive Markets and Endogenous Cycles: an Evaluation", in W.Semmler (ed.) *Business Cycles: Theory and Empirical Methods*, Norwell, MA: Kluwer Academic Publishers, 1994.
- 6. "Income Distribution and Economic Development", in *Perspectivas teóricas y comparadas de la igualdad*, Fundación Argentaria, Madrid, 1996.
- 7. "Trade Liberalization and Private Saving, the Spanish Experience: 1960-1995" (with Juan Manuel Martin Prieto) in Gavin, M. et. al. (eds.) *Determinants of Domestic Savings in Latin America*, coordinated by the Office of the Chief Economist, InterAmerican Development Bank under the Second Regional Research Network Project, 1997.
- 8. "Social Security and Retirement in Spain" (with F. Peracchi and S. Jimenez), in Jonathan Gruber and David Wise (eds.) *Social Security and Retirement Around the World*, The University of Chicago Press for the N.B.E.R., 1999.
- 9. "Regional Economic Convergence: Is European Regional Policy Worth Keeping?", in J. von Hagen (ed), *Regionalism In Europe*, Kluwer, 2000.
- 10. "Micro Modeling of Retirement Behavior in Spain" (with F. Peracchi and S. Jimenez), in Jonathan Gruber and David Wise (eds.) *Social Security Programs and Retirement Around the World: Micro-Estimation*, The University of Chicago Press for the N.B.E.R., 2003.
- 11. "Evaluating Spanish Pension Expenditure Under Alternative Reform Scenarios," (with S. Jimenez), in Jonathan Gruber and David Wise (eds.) *The Fiscal Implications of Social Security Reform Around the World.*, The University of Chicago Press for the N.B.E.R., 2006.
- 12. "Regional Policies and E.U. Enlargement", (with F. Canova) in B. Funck and L. Pizzati (eds.) *European Integration, Regional Policy, and Growth*, The World Bank, Washington, D.C., 2003.
- 13. "Regional Policies and Economic Growth in the European Union", in A. Deardoff (ed.) *The Past, Present, and Future of the European Union*, Blackwell Publ. Co., for the International Economic Association, 2004.
- 14. "Regional Policies after the EU Enlargement", in M. Artis, A. Banerjee and M. Marcellino (eds.) *The Central and Eastern European Countries and the EU*, Cambridge University Press, 2005.
- 15. "Intellectual Property", (with David K. Levine), entry in *The New Palgrave. A Dictionary of Economics*, edited by L. Bloom and S. Durlauf.
- 16. "Uniqueness of Equilibria in Dynamic Models", entry in *The New Palgrave. A Dictionary of Economics*, edited by L. Bloom and S. Durlauf.
- 17. "The Implications of Social Security for the Well-Being of the Elderly," (with S. Jimenez), in Jonathan Gruber and David Wise (eds.) *Social Security Programs and Well-being of the Elderly Around the World*. The University of Chicago Press for the N.B.E.R., 2007.
- 18. "Intellectual Property and the Efficient Allocation of Social Surplus from Innovation" (with David K.Levine), in Porrini, Donatella and Ramello, Giovanni *Property Rights Dynamics in the Third Millenium*, Routledge, 2007.
- 19. "All the Interesting Questions, Almost All the Wrong Reasons" (with David K. Levine), in Pecchi, L. e Piga, G. (eds.) *Keynes Grandchildren Seventy Years Later*, MIT Press, 2008.
- 20. "Social Security Incentives, Exit from the Workforce and Entry of the Young," (with Pilar Garcia and S. Jimenez), in Jonathan Gruber and David Wise (eds.) *Social Security Programs and Retirement around the World: The Relationship to Youth Employment*, The University of Chicago Press for the N.B.E.R., 2009.
- 21. "Intellectual Property" (with David K. Levine), in *Emerging Trends in the Social and Behavioral Sciences*, ed. Bob Scott, Stephen Kosslyn, and Nancy Pinkerton, Wiley: New Jersey, 2015.
- 22. "The Role of the State in the Globalization Process. An Economic Perspective." in Perulli, A. and Treu, T. (eds) *The Role of the State and Industrial Relations*, Kluwer Law International, 2018
- 23. "The Division of Labor in the Digital Era" in A. Perulli and T. Treu, (eds) *The Future of Work. Labour Law and Labour Market Regulations in the Digital Era*, Kluwer Law International, 2020

24. "Should patents on Covid-19 vaccines be waived?" (with D. Levine and F. Toxvaerd), *Economic Observatory*, March 2021 - https://www.economicsobservatory.com/should-patents-on-covid-19-vaccines-be-waived

#### Book Reviews

- 1. "Chaotic Economic Dynamics", by Richard Goodwin, in *Economica*, 1993.
- 2. "Financial Dynamics and the Business Cycles", edited by W.Semmler, in *Journal of Economic Literature*, 29 (1991).
- 3. "Differential Equations, Stability and Chaos in Dynamic Economies", by William Brock and A.Malliaris, in *Journal of Political Economy* 99 (1991).
- 4. "The Dynamics of Market Economies" edited by Richard Day and Gunnar Eliasson, in *Journal of Economic Literature*, 26 (1988).

### Submitted papers

- 1. "A Theory of the Dynamics of Factor Shares", (D. K. Levine, Yong Wang, Lijun Zhu), submitted to the *American Economic Review*
- 2. "Technical Progress and Labor Share Decline in the Manufacturing and Distribution Industry" (with Lijun Zhu) submitted to the *European Economic Review*
- 3. "A Theory of Primitive Accumulation", (with Lijun Zhu and Yong Wang), submitted to *Review of Economic Studies*

#### Unpublished Working Papers and Work in Progress

- 1. "Applying Bifurcation Theory: Some Simple Results on Keynesian Business Cycles", W.P. 8403, Università di Venezia, September 1982.
- 2. "On the Emergence of Dynamical Complexities in Models of Optimal Growth: the Role of Impatience" (with L.Montrucchio), mimeo, University of Rochester, October 1984.
- 3. "On the Differentiability of the Policy Function" (with L. Montrucchio), mimeo, UCLA Econ. Dept., April 1988.
- 4. "Threshold Externalities and Economic Development: a Note", D.P. 953, CMSEMS, Northwestern University, April 1991.
- 5. "Growth Under Perfect Competition. Heterogeneous Agents", (with David Levine), mimeo Universidad Carlos III and UCLA, 1997.
- 6. "Fertility and Social Security" (with Maria Cristina De Nardi and Larry E. Jones), mimeo, University of Minnesota, May 2003.
- 7. "Three Equations Generating an Industrial Revolution? (with Aubhik Khan, Larry E. Jones)
- 8. "Monetary Policy and Assets' Price Evaluation", mimeo, October 2009, WUStL
- 9. "Quality Ladder, Competition and Endogenosu Growth", (with David K. Levine) mimeo, October 2006, revised January 2010
- 10. "Appropriation and Intellectual Property", (with David K. Levine), February 2007, revised December 2009.
- 12. "A (Pseudo) Austrian Theory of Money and Credit", 2012, under revision.
- 13. "The Theory of Money and Credit, Historical Considerations", 2014, in progress.
- 14. "Tolerance and Stubbornness: A Model of Fractional Populism", (with Manuel Garcia), 2021, in progress.