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CURRICULUM VITAE

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PERSONAL DATA

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BIRTH DATE:

13 June 1953

CITIZENSHIP:

United States

EDUCATION:

Ph.D. Economics, Yale University, 1979 (supervisor: Herbert E. Scarf, co-supervisor: Andreu Mas-Colell).

M.A. Economics, Yale University, 1977.

B.A. Mathematics/Economics, Providence College, 1975.

TEACHING POSITIONS:

Professor of Economics, University of Minnesota, 1987–present.

University Lecturer, Faculty of Economics and Politics, University of Cambridge, 1984–1987.

Fellow, Clare College, Cambridge, 1984–1987.

Associate Professor of Economics, Massachusetts Institute of Technology, 1983–1984.

Assistant Professor of Economics, Massachusetts Institute of Technology, 1980–1983.

Assistant Professor of Economics, Wesleyan University, 1979–1980.

Lecturer in Economics, Wesleyan University, 1978–1979.

OTHER POSITIONS:

Adviser, Federal Reserve Bank of Minneapolis, 1993–1994, 2000–present.

Director of Graduate Studies, Department of Economics, University of Minnesota, 2006–2009, 2012–present.

Research Associate, National Bureau of Economic Research, Economic Fluctuations and Growth Program, 2006–present.

Member, Patronato (Governing Board), Instituto Madrileño de Estudios Avanzados (IMDEA) en Ciencias Sociales, 2006–present.

Member, Patronato (Governing Board), Fundación Excelencia, 2012–present.

Member, Scientific Council, Barcelona Graduate School of Economics, 2007–present.
Member, Scientific Advisory Board, MOVE (Markets, Organizations, and Votes in Economics),
Universitat Autònoma de Barcelona, 2010–present.
Member, Advisory Board, Society for the Advancement of Economic Theory, 2010–present.
Research Associate, Center for the Advanced Study in Economic Efficiency (CASEE), Arizona
State University, 2010–present.
Co-Director, Economic Development Center, University of Minnesota, 1993–present.
Fellow, Center for International Food and Agricultural Policy, University of Minnesota, 1993–
present.
Member, Advisory Committee, Center for German and European Studies, University of
Minnesota, 2002–present.
Member, Steering Committee, Institute for the Study of Financial Intermediation and Growth,
Federal Reserve Bank of Dallas / University of Texas-Austin, 2003–2004.
Research Visitor, Federal Reserve Bank of Minneapolis, 1987–2000.
Consultant to the Government of Panama, 1997.
Special Economic Adviser to the Secretary, Secretaría de Comercio y Fomento Industrial,
Mexico, 1990–1994.
Co-Director, MEGA (Model d'Equilibri General Aplicat) Project, Universitat Autònoma de
Barcelona, 1985–1992.
Consultant to the World Bank, 1982–1983.
Consultant to the Banco de México, 1980–1982.

FELLOWSHIPS, HONORS, GRANTS:

Distinguished McKnight University Professor, University of Minnesota, 1996–present.
Doctor Honoris Causa, Universidade de Vigo, 2008.
Economic Theory Fellow, Society for Advancement of Economic Theory, 2011–present.
Miembro de Honor, Asociación Española de Economía, 2010–present.
Fellow, Econometric Society, 1991–present.
National Science Foundation Grants, 1982–1984; 1985–1987 and 1987–1989 (with David K.
Levine); 1990–1992, 1992–1995, 1997–2000, and 2001–2004; 2005–2009 and 2010–2013
(with Kim J. Ruhl).
Proyectos de Investigación de Excelencia, Consejería de Innovación, Ciencia, y Empresa, Junta
de Andalucía, 2008–2011 (with Juan Carlos Conesa Roca, Gonzalo Fernández de Córdoba
Martos, Manuel Hidalgo Pérez, Diego Martínez, Amalia Morales Zumaquero, Javier J. Pérez,
Jesús Rodríguez López, and José Luis Torres Chacón).
Scholar of the College, College of Liberal Arts, University of Minnesota, 2005–2008.
Research Collaborative Grant, Center for German and European Studies, University of
Minnesota, 2004–2006.
Bush Sabbatical Supplement Grant, 2003–2004.
U.S. Air Force Office of Scientific Research Grant, 1995–1997.
Faculty Interactive Research Program Grant from the Center for Urban and Regional Affairs,
University of Minnesota, 1992–1993.
Fellowship, Mathematical Sciences Research Institute, 1985.
Sloan Foundation Grant, 1983–1984.
Ph.D. dissertation awarded Distinction, 1979.
University Fellowship, Yale University, 1975–1979.
B.A. awarded Summa Cum Laude, 1975.

Presidential Scholarship, Providence College, 1971–1975.

VISITING POSITIONS:

Visiting Professor, Universitat Autònoma de Barcelona, 1987, 1990–1996, 2007–2012.
Visiting Professor, Barcelona Graduate School of Economics, 2009–2012.
Visiting Professor, CEMFI (Centro de Estudios Monetarios y Financieros), 2011.
Visiting Fellow, MOVE (Markets, Organizations, and Votes in Economics), Universitat Autònoma de Barcelona, 2011.
Harry Lyman Hooker Distinguished Visiting Professor, McMaster University, 2009.
Martha and Jonathan Cohen Distinguished Visitor, University of Pennsylvania, 2009.
Visiting Professor, Instituto Autónomo Tecnológico de México, 2004–2009.
Visiting Professor, Univerisdad Carlos III de Madrid, 2009.
Visiting Professor, Indiana University, 2008.
Visiting Professor, Norges Handelshøyskole/Norwegian School of Economics and Business Administration, 2007.
Visiting Professor, Universitat de Barcelona, 1996–1998, 2000, 2006.
Visiting Scholar, I.M.F. Institute, International Monetary Fund, 2003, 2006.
Visiting Professor, University of Texas at Austin, 2006.
Visiting Professor, Universitat Pompeu Fabra, 1998, 1999, 2002–2005.
Visiting Professor, Handelshögskolan i Stockholm/Stockholm School of Economics, 2002, 2004.
Visiting Professor, University of Maryland, 2003.
Visiting Professor, University of California, Los Angeles, 1999.
Visiting Professor, Victoria University of Wellington/Te Whare Wānanga o te Ūpoko o te Ika a Māui, 1995.
Visiting Professor, Universitat d'Alacant/Universidad de Alicante, 1993.
Visiting Professor, El Colegio de México, 1992.
Fellow Commoner, Churchill College, Cambridge, 1983–1984.

PUBLICATIONS

BOOKS AND EDITED VOLUMES:

1. *Frontiers in Applied General Equilibrium Modeling: Essays in Honor of Herbert Scarf*, Cambridge University Press, 2005, edited with T. N. Srinivasan and John Whalley.
2. “Great Depressions of the Twentieth Century,” edited volume of *Review of Economic Dynamics*, 5 (2002), with Edward C. Prescott. [Revised and expanded version published as *Great Depressions of the Twentieth Century*, Federal Reserve Bank of Minneapolis, 2007.]
3. “Applied General Equilibrium,” edited volume of *Economic Theory*, 6 (1995), with Edward C. Prescott.
4. *Modeling North American Economic Integration*, Kluwer Academic Publishers, 1995, edited with Patrick J. Kehoe.

JOURNAL ARTICLES:

1. “How Important is the New Goods Margin in International Trade?” *Journal of Political Economy*, forthcoming, with Kim J. Ruhl.
2. “Catch-up Growth Followed by Stagnation: Mexico, 1950–2010,” *Latin American Journal of Economics*, 48 (2011), 227–68, with Felipe Meza.
3. “Why Have Economic Reforms in Mexico Not Generated Growth?” *Journal of Economic Literature*, 48 (2010), 1005–27, with Kim J. Ruhl. [Translated as “¿Por Qué las Reformas

- Económicas de México No Han Generado Crecimiento?” *El Trimestre Económico*, 79 (2011), 491–523.]
4. “Trade, Growth, and Convergence in a Dynamic Heckscher-Ohlin Model,” *Review of Economic Dynamics*, 13 (2010), 487–513, with Claustre Bajona.
 5. “Sudden Stops, Sectoral Reallocations, and the Real Exchange Rate,” *Journal of Development Economics*, 89 (2009), 235–49, with Kim J. Ruhl.
 6. “Are Shocks to the Terms of Trade Shocks to Productivity?” *Review of Economic Dynamics*, 11 (2008), 804–19, with Kim J. Ruhl.
 7. “Modeling Great Depressions: The Depression in Finland in the 1990s,” *Federal Reserve Bank of Minneapolis Quarterly Review*, 31:1 (2007), 16–44, with Juan Carlos Conesa and Kim J. Ruhl. [Revised version published in Timothy J. Kehoe and Edward C. Prescott, editors, *Great Depressions of the Twentieth Century*, Federal Reserve Bank of Minneapolis, 2007, 427–75.]
 8. “U.S. Real Exchange Rate Fluctuations and Relative Price Fluctuations,” *Journal of Monetary Economics*, 53 (2006), 1297–326, with Caroline M. Betts.
 9. “Why is Manufacturing Trade Rising Even as Manufacturing Output is Falling?” *American Economic Review*, Papers and Proceedings, 94 (2004), 134–8, with Raphael Bergoeing, Vanessa Strauss-Kahn, and Kei-Mu Yi.
 10. “Recent Great Depressions: Aggregate Growth in New Zealand and Switzerland 1973–2000,” *New Zealand Economic Papers*, 37 (2003), 5–40, with Kim J. Ruhl. [Revised version published as “Recent Great Depressions: Aggregate Growth in New Zealand and Switzerland,” in Timothy J. Kehoe and Edward C. Prescott, editors, *Great Depressions of the Twentieth Century*, Federal Reserve Bank of Minneapolis, 2007, 335–72.]
 11. “What Can We Learn from the Current Crisis in Argentina?” *Scottish Journal of Political Economy*, 50 (2003), 609–33. [Revised version published as “What Can We Learn from the 1998–2002 Depression in Argentina?” in Timothy J. Kehoe and Edward C. Prescott, editors, *Great Depressions of the Twentieth Century*, Federal Reserve Bank of Minneapolis, 2007, 373–402.]
 12. “A Decade Lost and Found: Mexico and Chile in the 1980s,” *Review of Economic Dynamics*, 5 (2002), 166–205, with Raphael Bergoeing, Patrick J. Kehoe, and Raimundo Soto. [Revised version published as “Decades Lost and Found: Chile and Mexico since 1980,” *Federal Reserve Bank of Minneapolis Quarterly Review*, 26:1 (2002), 3–30; revised version published as “A Decade Lost and Found: Mexico and Chile in the 1980s,” in Timothy J. Kehoe and Edward C. Prescott, editors, *Great Depressions of the Twentieth Century*, Federal Reserve Bank of Minneapolis, 2007, 217–56.]
 13. “Great Depressions of the Twentieth Century,” *Review of Economic Dynamics*, 5 (2002), 1–18, with Edward C. Prescott. [Revised version published in Timothy J. Kehoe and Edward C. Prescott, editors, *Great Depressions of the Twentieth Century*, Federal Reserve Bank of Minneapolis, 2007, 1–20; translated as “Las Grandes Depresiones del Siglo XX,” *Gaceta de Economía*, 24 (2008), 5–29.]
 14. “Lotteries, Sunspots, and Incentive Constraints,” *Journal of Economic Theory*, 107 (2002), 39–69, with David K. Levine and Edward C. Prescott.
 15. “Policy-Driven Productivity in Chile and Mexico in the 1980s and 1990s,” *American Economic Review*, Papers and Proceedings, 92 (2002), 16–21, with Raphael Bergoeing, Patrick J. Kehoe, and Raimundo Soto.

16. "Liquidity Constrained Markets versus Debt Constrained Markets," *Econometrica*, 69 (2001), 575–98, with David K. Levine.
17. "Capital Flows and Real Exchange Rate Fluctuations Following Spain's Entry into the European Community," *Journal of International Economics*, 51 (2000), 49–78, with Gonzalo Fernandez de Cordoba.
18. "Self-Fulfilling Debt Crises," *Review of Economic Studies*, 67 (2000), 91–116, with Harold L. Cole.
19. "A Self-Fulfilling Model of Mexico's 1994–95 Debt Crisis," *Journal of International Economics*, 41 (1996), 309–30, with Harold L. Cole.
20. "The Discipline of Applied General Equilibrium," *Economic Theory*, 6 (1995), 1–11, with Edward C. Prescott.
21. "An Evaluation of the Performance of an Applied General Equilibrium Model of the Spanish Economy," *Economic Theory*, 6 (1995), 115–41, with Clemente Polo and Ferran Sancho.
22. "A Review of Mexico's Trade Policy from 1982 to 1994," *The World Economy*, 18 (1995), 135–51. [Reprinted in Sven W. Arndt and Chris Milner, editors, *The World Economy: Global Trade Policy 1995*, Basil Blackwell, 1995, 135–51.]
23. "Capturing NAFTA's Impact with Applied General Equilibrium Models," *Federal Reserve Bank of Minneapolis Quarterly Review*, 18:2 (1994), 17–34, with Patrick J. Kehoe. [Reprinted in Patrick J. Kehoe and Timothy J. Kehoe, editors, *Modeling North American Economic Integration*, Kluwer Academic Publishers, 1995, 33–57.]
24. "Distinguished Fellow: Herbert Scarf's Contributions to Economics," *Journal of Economic Perspectives*, 8 (1994), 161–81, with Kenneth J. Arrow.
25. "A Primer on Static Applied General Equilibrium Models," *Federal Reserve Bank of Minneapolis Quarterly Review*, 18:2 (1994), 2–16, with Patrick J. Kehoe. [Reprinted in Patrick J. Kehoe and Timothy J. Kehoe, editors, *Modeling North American Economic Integration*, Kluwer Academic Publishers, 1995, 1–31; translated as "Los Modelos de Equilibrio General Aplicado de Política Comercial," in Timothy J. Kehoe, editor, "Integración Económica en Europa y las Américas," *Cuadernos Económicos de I.C.E.*, 59 (1995), 7–32.]
26. "Debt Constrained Asset Markets," *Review of Economic Studies*, 60 (1993), 865–88, with David K. Levine.
27. "More on Money as a Medium of Exchange," *Economic Theory*, 3 (1993), 297–314, with Nobuhiro Kiyotaki and Randall D. Wright.
28. "North American Free Trade," *Journal of Economic Integration*, 8 (1993), 119–51.
29. "In Search of Scale Effects in Trade and Growth," *Journal of Economic Theory*, 58 (1992), 377–409, with David K. Backus and Patrick J. Kehoe.
30. "Gross Substitutability and the Weak Axiom of Revealed Preference," *Journal of Mathematical Economics*, 21 (1992), 37–50.
31. "On Characterizing Equilibria of Economies with Externalities and Taxes as Solutions to Optimization Problems," *Economic Theory*, 2 (1992), 43–68, with David K. Levine and Paul M. Romer.
32. "A General Equilibrium Appraisal of Energy Policy in Mexico," *Empirical Economics*, 16 (1991), 71–93, with Jaime Serra-Puche. [Reprinted in John Piggott and John Whalley, editors, *Applied General Equilibrium*, Physica Verlag, 1991, 71–93.]
33. "Gross Substitutability in Large-Square Economies," *Journal of Economic Theory*, 54 (1991), 1–25, with David K. Levine, Andreu Mas-Colell, and Michael Woodford.

34. "Determinacy of Equilibria in Dynamic Models with Finitely Many Consumers," *Journal of Economic Theory*, 50 (1990), 1–21, with David K. Levine and Paul M. Romer.
35. "The Economics of Indeterminacy in Overlapping Generations Models," *Journal of Public Economics*, 42 (1990), 219–43, with David K. Levine.
36. "Determinacy of Equilibria in Large-Square Economies," *Journal of Mathematical Economics*, 18 (1989), 231–62, with David K. Levine, Andreu Mas-Colell, and William R. Zame.
37. "A General Equilibrium Analysis of the 1986 Tax Reform in Spain," *European Economic Review, Papers and Proceedings*, 32 (1988), 334–42, with Antonio Manresa, Pedro Javier Noyola, Clemente Polo, and Ferran Sancho.
38. "A General Equilibrium Analysis of Price Controls and Subsidies on Food in Mexico," *Journal of Development Economics*, 21 (1986), 65–87, with Jaime Serra-Puche.
39. "Comparative Statics and Perfect Foresight in Infinite Horizon Economies," *Econometrica*, 53 (1985), 433–53, with David K. Levine. [Translated as "Estática Comparativa y Previsión Perfecta en Economías con Horizonte Infinito," in Michele Boldrin, editor, "Economías Dinámicas I," *Cuadernos Económicos de I.C.E.*, 46 (1990), 203–25.]
40. "The Comparative Statics Properties of Tax Models," *Canadian Journal of Economics*, 18 (1985), 314–34.
41. "Multiplicity of Equilibria and Comparative Statics," *Quarterly Journal of Economics*, 100 (1985), 119–47. [Reprinted in Donald A. Walker, editor, *Equilibrium*, volume II: *Equilibrium in Traditional Models*, Edward Elgar Publishing, 2000, 137–65.]
42. "Uniqueness of Equilibrium in Large Scale Numerical General Equilibrium Models," *Journal of Public Economics*, 28 (1985), 247–54, with John Whalley.
43. "Computing All of the Equilibria of Economies with Two Factors of Production," *Journal of Mathematical Economics*, 13 (1984), 207–23.
44. "A General Equilibrium Model of Domestic Commerce in Mexico," *Journal of Policy Modeling*, 6 (1984), 1–28, with Jaime Serra-Puche and Leopoldo Solís.
45. "Intertemporal Separability in Overlapping Generations Models," *Journal of Economic Theory*, 34 (1984), 216–26, with David K. Levine.
46. "Regularity in Overlapping Generations Exchange Economies," *Journal of Mathematical Economics*, 13 (1984), 69–93, with David K. Levine.
47. "A Computational General Equilibrium Model with Endogenous Unemployment: An Analysis of the 1980 Fiscal Reform in Mexico," *Journal of Public Economics*, 22 (1983), 1–26, with Jaime Serra-Puche.
48. "Regularity and Index Theory for Economies with Smooth Production Technologies," *Econometrica*, 51 (1983), 895–917.
49. "The Employment Effects of Government Taxes and Expenditures in Mexico," *Southwestern Review of Management and Economics*, 2 (1982), 85–100, with Jaime Serra-Puche.
50. "Regular Production Economies," *Journal of Mathematical Economics*, 10 (1982), 147–76.
51. "An Index Theorem for General Equilibrium Models with Production," *Econometrica*, 48 (1980), 1211–32. [Reprinted in Gerard Debreu, editor, *General Equilibrium Theory*, volume II, Edward Elgar Publishing, 1995, 316–37.]

ARTICLES IN BOOKS, NOTES, AND BOOK REVIEWS:

1. "Chronic Sovereign Debt Crises in the Eurozone, 2010–2012," *Federal Reserve Bank of Minneapolis Economic Policy Paper* 12-4, with Cristina Arellano and Juan Carlos Conesa (http://www.minneapolisfed.org/publications_papers/pub_display.cfm?id=4877).

2. “Does Openness Generate Growth? Reconciling the Experiences of Mexico and China,” *VoxEU*, 19 November 2011, with Kim J. Ruhl (<http://voxeu.org/index.php?q=node/7301>).
3. “The Current Financial Crisis: What Should We Learn from the Great Depressions of the Twentieth Century?” (Federal Reserve Bank of Minneapolis Annual Report Essay), *The Region*, 23 (2009), 7–39, with Gonzalo Fernández de Córdoba. [Revised version published in *Economic Insights*, 3 (2010), 1–3.]
4. “Bankruptcy and Collateral in Debt Constrained Markets” in Roger E. A. Farmer, editor, *Macroeconomics in the Small and the Large: Essays on Microfoundations, Macroeconomic Applications, and Economic History in Honor of Axel Leijonhufvud*, Edward Elgar Publishing, 2008, 99–114, with David K. Levine.
5. “An Evaluation of the Performance of Applied General Equilibrium Models of the Impact of NAFTA,” in Timothy J. Kehoe, T. N. Srinivasan, and John Whalley, editors, *Frontiers in Applied General Equilibrium Modeling: Essays in Honor of Herbert Scarf*, Cambridge University Press, 2005, 341–77.
6. “Introduction,” in Timothy J. Kehoe, T. N. Srinivasan, and John Whalley, editors, *Frontiers in Applied General Equilibrium Modeling: Essays in Honor of Herbert Scarf*, Cambridge University Press, 2005, 1–12, with T. N. Srinivasan, and John Whalley.
7. “Is Switzerland in a Great Depression?” *Review of Economic Dynamics*, 8 (2005), 759–75, with Kim J. Ruhl.
8. “The North American Free Trade Agreement after Ten Years: Its Impact on Minnesota and a Comparison with Wisconsin,” *CURA Reporter*, 34:4 (2004), 1–10, with Kim J. Ruhl.
9. Review of *Financial Crises, Liquidity, and the International Monetary System* by Jean Tirole, *Journal of Economics/Zeitschrift für Nationalökonomie*, 81 (2004), 297–302, with Anna Ivanova.
10. Comment on “Liberalization, Growth and Financial Crises: Lessons from Mexico and the Developing World” by Aaron Tornell, Frank Westermann, and Lorenza Martínez in William C. Brainard and George L. Perry, editors, *Brookings Papers on Economic Activity*, 2003, number 2, 89–99.
11. Comment on “Dollarization and the Integration of International Capital Markets: A Contribution to the Theory of Optimal Currency Areas” by Valerie Bencivenga, Elisabeth Huybens, and Bruce D. Smith, *Journal of Money, Credit, and Banking*, 33 (2001), 590–96.
12. Review of *Numerical Methods in Economics* by Kenneth L. Judd, *Journal of Economic Literature*, 39 (2001), 907–08.
13. Comment on “The International Financial Crisis: Macroeconomic Linkages to Agriculture” by Matthew D. Shane and William M. Liefert, *American Journal of Agricultural Economics*, 82 (2000), 703–06.
14. Comment on “Multinational Production, Skilled Labor, and Real Wages” by James R. Markusen and Anthony J. Venables, in Richard E. Baldwin and Joseph Francois, editors, *Dynamic Issues in Applied Commercial Policy Analysis*, Cambridge University Press, 1999, 173–76.
15. “Uniqueness and Stability,” in Alan P. Kirman, editor, *Elements of General Equilibrium Analysis*, Basil Blackwell, 1998, 38–87.
16. “Can Debt Crises Be Prevented?” in Richard Levich, editor, *Emerging Market Capital Flows*, Kluwer Academic Publishers, 1998, 3–22.

17. "Social Accounting Matrices and Applied General Equilibrium Models," in Iain Begg and S.G.B. Henry, editors, *Applied Economics and Public Policy*, Cambridge University Press, 1998, 59–87.
18. Comment on "Are Currency Crises Self-Fulfilling?" by Paul Krugman, in Ben S. Bernanke and Julio J. Rotemberg, editors, *NBER Macroeconomics Annual 1996*, MIT Press, 1996, 378–92.
19. "What Happened in Mexico in 1994–95?" in Patrick J. Kehoe and Timothy J. Kehoe, editors, *Modeling North American Economic Integration*, Kluwer Academic Publishers, 1995, 131–47.
20. "Assessing the Economic Impact of North American Free Trade," in M. Delal Baer and Sidney Weintraub, editors, *The NAFTA Debate: Grappling with Unconventional Trade Issues*, Lynne Rienner Publishers, 1994, 3–33.
21. "Towards a Dynamic General Equilibrium Model of North American Trade," in Joseph Francois and Clinton R. Shiells, editors, *Modeling Trade Policy: Applied General Equilibrium Assessments of North American Free Trade*, Cambridge University Press, 1994, 328–47. [Revised version translated as "Las Ganancias Dinámicas del Comercio en América del Norte," in Timothy J. Kehoe, editor, "Integración Económica en Europa y las Américas," *Cuadernos Económicos de I.C.E.*, 59 (1995), 105–24.]
22. Comment on "The Impact of a North American Free Trade Area: Applied General Equilibrium Models" by Drusilla K. Brown, in Barry Bosworth, Robert Z. Lawrence, and Nora Lustig, editors, *North American Free Trade: Assessing the Impact*, Brookings Institution, 1992, 58–63. [Translated as "Comentario a Drusilla K. Brown," *Economía Mexicana (Nueva Epoca)*, 2 (1993), 90–97.]
23. Comment on "Steady-State Growth and Transition in a Dynamic Dual Model of the North American Free Trade Agreement" by Leslie Young and José Romero, in *Economy-Wide Modeling of the Economic Implications of an FTA with Mexico and a NAFTA with Canada and the United States*, United States International Trade Commission Publication 2508, 1992, 701–11.
24. "Modeling the Dynamic Impact of a NAFTA," in William G. Watson, editor, *A North American Free Trade Area*, John Deutsch Institute, 1992, 24–34.
25. "Modeling the Dynamic Impact of North American Free Trade," in *Economy-Wide Modeling of the Economic Implications of an FTA with Mexico and a NAFTA with Canada and the United States*, United States International Trade Commission Publication 2508, 1992, 249–76.
26. "The Optimum Quantity of Money Revisited," in Partha Dasgupta, Douglas Gale, Oliver Hart, and Eric Maskin, editors, *The Economic Analysis of Markets and Games: Essays in Honor of Frank Hahn*, MIT Press, 1992, 501–26, with David K. Levine and Michael Woodford.
27. Review of *Economic Complexity: Chaos, Sunspots, Bubbles, and Nonlinearity* edited by William Barnett, John Geweke, and Karl Shell, *Southern Economic Journal*, 58 (1992), 1136–37.
28. "Computation and Multiplicity of Equilibria," in Werner Hildenbrand and Hugo Sonnenschein, editors, *Handbook of Mathematical Economics*, volume IV, North-Holland, 1991, 2049–143.

29. "Indeterminacy in Applied Intertemporal Equilibrium Models," in Lars Bergman, Dale W. Jorgenson, and Erno Zalai, editors, *General Equilibrium Modeling and Economic Policy Analysis*. Basil Blackwell, 1990, 111–48, with David K. Levine.
30. "Intertemporal General Equilibrium Models," in Frank H. Hahn, editor, *The Economics of Missing Markets, Information, and Games*, Oxford University Press, 1989, 363–93. [Translated as "Modelos Dinámicos de Equilibrio General," *Cuadernos Económicos de I.C.E.*, 37 (1987), 95–126.]
31. Review of *Microeconomic Theory* by Yoshihiko Otani and Mohamed El-Hodiri, *SIAM Review*, 31 (1989), 701–03.
32. "Comparative Statics," in John Eatwell, Murray Milgate, and Peter Newman, editors, *The New Palgrave: A Dictionary of Economic Theory and Doctrine*. Macmillan Press, 1988, volume 1, 517–21. [Reprinted in John Eatwell, Murray Milgate, and Peter Newman, editors, *The New Palgrave General Equilibrium*. Macmillan Press, 1989, 76–83.]
33. "Computation and Multiplicity of Economic Equilibria," in Philip W. Anderson, Kenneth J. Arrow, and David Pines, editors, *The Economy as an Evolving Complex System*. Addison-Wesley, 1988, 147–67.
34. "Steady States and Determinacy of Equilibria in Economies with Infinitely Lived Agents," in George R. Feiwel, editor, *Joan Robinson and Modern Economic Theory*. Macmillan Press, 1988, 521–44, with David K. Levine and Paul M. Romer.
35. Review of *Fixed Point Theorems with Applications to Economics and Game Theory* by Kim C. Border, *Journal of Economic Literature*, 25 (1987), 1870–72.
36. Review of *Introduction to the Use of General Equilibrium Analysis* by Richard R. Cornwall, *Economica*, 54 (1987), 266–67.
37. Review of *New Developments in Applied General Equilibrium Analysis* edited by John Piggott and John Whalley, *Economic Journal*, 97 (1987), 506–08.
38. "A Numerical Investigation of Multiplicity of Equilibrium," in Alan S. Manne, editor, "Economic Equilibrium: Model Formulation and Solution," *Mathematical Programming Study*, 23 (1985), 240–58.
39. "An Observation on Gross Substitutability and the Weak Axiom of Revealed Preference," *Economics Letters*, 15 (1984), 241–43, with Andreu Mas-Colell.

PUBLICATIONS IN SPANISH AND CATALAN:

1. "La Crisis Financiera Actual: ¿Qué Debemos Aprender de las Grandes Depresiones del Siglo XX?" in Antonio Cabrales Juan José Dolado, Florentino Felgueroso, and Pablo Vázquez, coordinators, *La Crisis de la Economía Española: Lecciones y Propuestas*, Sociedad Abierta and Fundación de Estudios de Economía Aplicada, 2009, with Gonzalo Fernández de Córdoba (<http://www.crisis09.es/ebook/>).
2. "Integración Económica en Europa y las Américas," edited volume of *Cuadernos Económicos de I.C.E.*, 59 (1995).
3. "Efectos del Tratado de Libre Comercio sobre la Economía Mexicana," in Jaime Serra-Puche, editor, *Hacia un Tratado de Libre Comercio en América del Norte*. Miguel Ángel Porrúa, 1991, 199–240, with Adalberto García Rocha.
4. "L'Estat Actual de la Ciència Econòmica i les seves Perspectives per aquesta Dècada," *Revista Econòmica de Catalunya*, 17 (1991), 64–69.
5. "Un Modelo de Equilibrio General para el Análisis de la Emigración Urbana en México," in Álvaro Escribano Sáez, editor, "Simulación en Economía: Distintos Enfoques," *Cuadernos Económicos de I.C.E.*, 48 (1991), 213–37, with Pedro Javier Noyola.

6. “Externalidades Dinámicas y Equilibrio Competitivo,” in Michele Boldrin, editor, “Economías Dinámicas I,” *Cuadernos Económicos de I.C.E.*, 46 (1990), 261–77, with David K. Levine and Paul M. Romer.
7. “Un Análisis de Equilibrio General de la Reforma Fiscal de 1986 en España,” *Investigaciones Económicas*, 13 (1989), 337–85, with Antonio Manresa, Clemente Polo, and Ferran Sancho.
8. “Una Matriz de Contabilidad Social de la Economía Española,” *Estadística Española*, 30 (1988), 5–33, with Antonio Manresa, Clemente Polo, and Ferran Sancho.
9. “El Modelo de Generaciones Sucesivas,” in Manuel Santos Santos, editor, “Las Economías de Generaciones Sucesivas,” *Cuadernos Económicos de I.C.E.*, 35 (1987), 9–30.
10. “Política Econòmica i Equilibri General. Quins són els Efectes de l’IVA?” *Revista Econòmica de Catalunya*, 2 (1986), 76–81, with Antonio Manresa, Pedro Javier Noyola, Clemente Polo, Ferran Sancho, and Jaime Serra-Puche.

PROFESSIONAL SERVICE

EDITOR:

Review of Economic Dynamics (1999–2007).

CO-EDITOR:

Economic Theory (2007–present), *Journal of International Economics* (2008–present).

EDITORIAL ADVISORY BOARDS:

Ensayos Revista de Economía (2009–present), *International Journal of Economics* (2005–present), *Journal of Economic Integration* (2002–present), *Journal of Economic Studies* (2007–present), *Macroeconomic Dynamics* (1996–present), *New Zealand Economic Papers* (2009–present), *Pacific Economic Review* (2012–present).

ASSOCIATE EDITOR:

Cuadernos Económicos de I.C.E. (1991–present), *Estudios Económicos* (1991–present), *Journal of Mathematical Economics* (1985–present), *Review of Economic Dynamics* (2007–present), *Revista de Análisis Económico* (2000–2008), *Economic Theory* (1991–1997), *Spanish Economic Review* (1999–2002).

COMMITTEE MEMBER:

National Science Foundation Integrative Graduate Education and Research Traineeship (IGERT) Program Review Committee (2000), Boston University Economics Graduate Program Review Committee (2001), American Economics Association Nominations Committee (2002), Comité de Evaluación del Centro de Estudios Económicos del Colegio de México (2002), University of Minnesota College of Liberal Arts Promotion and Tenure Committee (2004–2007), External Review Committee, Graduate Program in Economics, Finance, and Management, Universitat Pompeu Fabra (2005), North American Standing Committee, Econometric Society (2006–present), External Reviewer of Undergraduate and Graduate Degree Programs in Economics, University of Wisconsin-Milwaukee (2007), Evaluation Panel in Economics and Management, Fundação para a Ciência e a Tecnologia, Portugal (2008–2009), Evaluation Panel in Economics, Agència de Gestió d’Ajuts Universitaris i de Recerca de la Generalitat de Catalunya (2007–2010), Econometric Society Representative to the Allied Social Science Associations Allocation Committee (2008–present), Committee on Graduate Education, University of Minnesota (2009), Evaluation Panel in Economics, Programas Ramón y Cajal y Juan de la Cierva, Spain (2010).

REFEREE:

Agricultural Economics, American Economic Review, Annals of Operations Research, Applied Mathematics: A Journal of Chinese Universities, Applied Mathematics and Computation, Applied Mathematics Letters, Australian Economic Papers, Blackwell Publishers, Brookings Institution, Cambridge University Press, Contemporary Economic Policy, Cuadernos de Economía, Econometrica, Economía Aplicada, Economic Journal, Economic Modelling, Economic and Social Research Council, Economic and Social Review, Economics Letters, European Economic Review, European Science Foundation, Federal Reserve Bank of Minneapolis Quarterly Review, Instituto Valenciano de Investigaciones Económicas, International Economic Journal, International Economic Review, International Regional Science Review, Journal of Applied Econometrics, Journal of Asian Economics, Journal of Comparative Economics, Journal of Development Economics, Journal of Economic Dynamics and Control, Journal of Economic Education, Journal of Economic Geography, Journal of Economic Integration, Journal of Economic Theory, Journal of International Economics, Journal of Labor Economics, Journal of Monetary Economics, Journal of Money, Credit, and Banking, Journal of Political Economy, Journal of Public Economics, Journal of Supercomputer Applications, Marsden Fund of the Royal Society of New Zealand, Mathematical Programming, Mathematics of Operations Research, MIT Press, National Science Foundation, New Zealand Foundation for Research, Science and Technology, North American Journal of Economics and Finance, Oxford Economic Papers, Oxford University Press, Quarterly Journal of Economics, Regional Studies, Resource and Energy Economics, Review of Economic Studies, Review of International Economics, Revista Española de Economía, Scandinavian Journal of Economics, SIAM Journal on Optimization, Social Sciences and Humanities Research Council of Canada, Southern Economic Journal, Structural Change and Economic Dynamics, World Bank Economic Review, The World Economy.

SUPERVISOR ON COMPLETED PH.D. THESES

(initial placement in parentheses)

PRIMARY SUPERVISOR:

1. Wyatt Brooks, “Essays on International Trade,” University of Minnesota, 2012, co-supervisor: Fabrizio Perri (University of Notre Dame).
2. Sewon Hur, “Essays on Financial Frictions and Macroeconomics,” University of Minnesota, 2012, co-supervisor: Fabrizio Perri (University of Pittsburgh).
3. Gina Pieters, “Essays in International Economics,” University of Minnesota, 2012, co-supervisor: Fabrizio Perri (Trinity University).
4. Pu Chen, “Essays on International Trade,” University of Minnesota, 2011, co-supervisor: Fabrizio Perri (Renmin University).
5. Yenan Hou, “Essays on International Economics,” University of Minnesota, 2011, co-supervisor: Fabrizio Perri (US Bank, Minneapolis).
6. Nan Xu, “Essays on Globalization and Economic Development,” University of Minnesota, 2011, co-supervisor: Fabrizio Perri (University of International Business and Economics, Beijing, China).
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10. Lin Lu, "Essays on International Economics," University of Minnesota, 2010, co-supervisor: Fabrizio Perri (Tsinghua University).
11. Kevin Wiseman, "Essays with Heterogeneous Agents: Families and Firms," University of Minnesota, 2010, co-supervisor: Fabrizio Perri (International Monetary Fund).
12. Ayse Mujde Erdogan, "Essays on Environmental Regulations and International Economics," University of Minnesota, 2009 (Rochester Institute of Technology).
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14. Michael M. Rolleigh, "Movement of Heterogeneous Goods and People," University of Minnesota, 2009 (Williams College).
15. Miguel Fernando Ricaurte-Bermúdez, "Essays on Structural Change, Trade, and Development," University of Minnesota, 2009, co-supervisor: Cristina Arellano (Banco Central de Chile).
16. Katherine Nicole Lande Schmeiser, "Essays on Firm Choice and International Trade," University of Minnesota, 2009 (Mount Holyoke College).
17. Ina Simonovska, "Essays on International Economics," University of Minnesota, 2009, co-supervisor: Fabrizio Perri (University of California, Davis).
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20. Mark J. Gibson, "Essays on Protectionism and Productivity," University of Minnesota, 2008, co-supervisor: Cristina Arellano (Washington State University).
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36. Tianshu Chu, "Import Substitution and Export Promotion: In Search of a Theory of Economic Development," University of Minnesota, 2000 (East-West Center, University of Hawaii).
37. Erwan G. Quintin, "Limited Enforcement and Economic Development," University of Minnesota, 2000 (Federal Reserve Bank of Dallas).
38. Juan Carlos Conesa, "Macroeconomic Effects of Idiosyncratic Uncertainty," University of Minnesota, 1999 (Universitat de Barcelona).
39. Rodolfo Guerrero-Mora, "Country Responses to Volatile Capital Flows," University of Minnesota, 1999 (Banco de México).
40. Arturo Pérez-Mendoza, "Job Creation, Job Destruction, and Trade Liberalization: Effects of NAFTA on the Mexican Economy," University of Minnesota, 1998 (Instituto Tecnológico de Estudios Superiores de Monterrey).
41. Ronald Gecan, "A General Equilibrium Analysis of Medicaid and Medicare," University of Minnesota, 1997 (Catholic University of America).
42. Raphael Bergoeing, "Studies in Trade," University of Minnesota, 1996 (Instituto Latinoamericano de Doctrina y Estudios Sociales (ILADES)-Georgetown University).
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45. Karine Moe, "Human Capital, Fertility, and Time Use: A Model of Development," University of Minnesota, 1995 (Macalaster College).
46. François Ortalo-Magné, "Asset Pricing with Firm Dynamics and Credit Constraint: Theory and Application to U.S. Farmland," University of Minnesota, 1995 (London School of Economics).
47. Debasis Bandyopadhyay, "Distribution of Human Capital, Income Inequality, and the Rate of Growth," University of Minnesota, 1993 (University of Auckland/Te Whare Wānanga o Tāmaki Makaurau).
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51. Julio Escolano, "Essays on Fiscal Policy, Intergenerational Transfers, and Distribution of Wealth," University of Minnesota, 1992 (International Monetary Fund).
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55. Stephen Burnell, "Sunspots and Rationality," University of Cambridge, 1989 (Victoria University of Wellington/Te Whare Wānanga o te Ūpoko o te Ika a Māui).
56. Jonathan L. Burke, "Essays on Equilibria in Dynamic Economies," Massachusetts Institute of Technology, 1985, co-supervisor: Eric S. Maskin (Texas A&M University).
57. Ernesto May-Kanosky, "A Computational Approach to Optimal Taxation and Public Pricing Policies: The Case of Mexico," Massachusetts Institute of Technology, 1984, co-supervisor: Ann F. Friedlander (World Bank).
58. Walter J. Muller, III, "Stationary Overlapping Generations Economies with Production and Infinite-Lived Consumers," Sloan School of Management, Massachusetts Institute of Technology, 1983, co-supervisor: Julio J. Rotemberg (University of Georgia).
59. Michael Woodford, "Essays in Intertemporal Economics," Massachusetts Institute of Technology, 1983, co-supervisor: Robert M. Solow (Columbia University).

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11. Fernando Saldanha, "Essays on Non-Tâtonnement Stability," Massachusetts Institute of Technology, 1982, supervisor: Franklin M. Fisher (Pontifícia Universidade Católica do Rio de Janeiro).
12. David K. Levine, "The Enforcement of Collusion in Oligopoly," Massachusetts Institute of Technology, 1981, supervisor: Peter A. Diamond (University of California, Los Angeles).