

JESÚS FERNÁNDEZ-VILLAYERDE

February 10, 2018

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University of Pennsylvania
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Current Appointments:

Professor of Economics, University of Pennsylvania.
Research Associate, National Bureau of Economic Research.
Research Affiliate, Centre for Economic Policy Research.

Past Appointments:

National Fellow, Hoover Institution at Stanford University, 2014-2015.
Kenen Fellow in International Economics, Princeton University, 2013-2014.
Director, Penn Institute for Economic Research, 2011-2012.
Associate Professor of Economics, University of Pennsylvania, 2007-2011.
Associate Professor of Economics, Duke University, 2006-2007.
Assistant Professor of Economics, University of Pennsylvania, 2001-2007.
Faculty Research Fellow, National Bureau of Economic Research, 2005-2007.
Research Associate Chair (*Director de Cátedra*), FEDEA (Spain), 2009-2013.

Visiting Appointments:

University of Melbourne, August 2017.
University of Oxford and Nuffield College, Hillary and Trinity 2017.
Visiting Scholar, Bank of Spain 2016-current.
Visiting Scholar, Federal Reserve Bank of Philadelphia, 2002-current.
Visiting Scholar, Federal Reserve Bank of Chicago, 2014-current.
Visiting Scholar, Federal Reserve Bank of St. Louis, 2010.
Visiting Scholar, Federal Reserve Bank of Atlanta, 2002-2008.
Visiting Scholar, The Cambridge-INET Institute, University of Cambridge, 2015.
Visiting Scholar, Becker-Friedman Institute, University of Chicago, 2014.
Visiting Professor, Yale University, 2012.
Visiting Associate Professor, Yale University, 2008.
Visiting Assistant Professor, New York University, 2005-2006.

Degrees:

Ph.D. in Economics, University of Minnesota, 2001.
B.Sc. in Economics and Management, ICADE, Spain, 1996.
LL.B., ICADE, Spain, 1995.

Honors:

IX Herrero Prize, Outstanding Economist or Social Scientist in Spain under 40, 2010.
Richard Stone Prize in Applied Econometrics 2004/2005, 2006.
Kravis Award for Distinction in Undergraduate Teaching. University of Pennsylvania, 2004.
Hardy Fellowship, Department of Economics, University of Minnesota, 1999-2000.
La Caixa Graduate Fellowship, Spain, 1996-1998.

Publications (English)**Books:**

1. "Macroeconomics: A Dynamic Approach." Joint with Dirk Krueger (University of Pennsylvania). Under contract with *Princeton University Press*. To be published in 2018/19.

Papers in Academic Journals:

2. (2018) "The Pruned State-Space System for Non-Linear DSGE Models: Theory and Empirical Applications." Joint with Martin Andreasen (Aarhus University) and Juan F. Rubio-Ramírez (Emory University). *Review of Economic Studies*, forthcoming.
3. (2018) "The Economic Consequences of Labor Market Regulations." *University of Chicago Legal Forum* 2017, 119-141.
4. (2017) "Solution Methods for Models with Rare Disasters," joint with Oren Levintal (Interdisciplinary Center (IDC) Herzliya). *Quantitative Economics*, forthcoming.
5. (2017) "Institutions and Political Party Systems: the Euro Coase," joint with Tano Santos (Columbia Business School). *Arizona State Law Journal*, 49, 985-1022.
6. (2016) "Magna Carta, the Rule of Law, and the Limits on Government." *International Review of Law and Economics*, 47, 22-28.
7. (2015) "Fiscal Volatility Shocks and Economic Activity." Joint with Pablo Guerrón (Boston College), Keith Kuster (Bonn University), and Juan F. Rubio-Ramírez (Emory University). *American Economic Review*, 105, 3352-3384.
8. (2015) "Estimating Dynamic Equilibrium Models with Stochastic Volatility." Joint with Pablo Guerrón (Boston College) and Juan F. Rubio-Ramírez (Emory University). *Journal of Econometrics* 185 (1), 216-229
9. (2015) "Nonlinear Adventures at the Zero Lower Bound." Joint with Pablo Guerrón (Boston College), Grey Gordon (Indiana University), and Juan F. Rubio-Ramírez (Emory University). *Journal of Economic Dynamics and Control*, 57, 182-204.

10. (2015) “A Comparison of Programming Languages in Macroeconomics.” Joint with S. Boragan Aruoba (University of Maryland). *Journal of Economic Dynamics and Control* 58, 265-273.
11. (2014) “Supply-Side Policies and the Zero Lower Bound.” Joint with Pablo Guerrón (Boston College) and Juan F. Rubio-Ramírez (Emory University). *IMF Economic Review* 62(2), 248-260.
12. (2014) “From Shame to Game in One Hundred Years: An Economic Model of the Rise of Pre-Marital Sex and its Destigmatization.” Joint with Jeremy Greenwood (University of Pennsylvania), and Nezih Guner (ICREA and Barcelona GSE). *Journal of the European Economic Association*, 12 (1), 25-61.
13. (2013) “Political Credit Cycles: The Case of the Euro Zone.” Joint with Luis Garicano (LSE) and Tano Santos (Columbia Business School). *Journal of Economic Perspectives*, 27(3), 145-66.
14. (2012) “Computing DSGE Models with Recursive Preferences and Stochastic Volatility.” Joint with Dario Caldara (Federal Reserve Board), Juan F. Rubio-Ramírez (Emory University), and Yao Wen (Bank of Canada). *Review of Economic Dynamics* 15, 188-206.
15. (2012) “The Term Structure of Interest Rates in a DSGE Model with Recursive Preferences.” Joint with Jules H. van Binsbergen (University of Pennsylvania), Ralph S.J. Koijen (Chicago Booth), and Juan F. Rubio-Ramírez (Emory University). *Journal of Monetary Economics* 59, 634-648.
16. (2011) “Risk Matters: The Real Effects of Volatility Shocks.” Joint with Pablo Guerrón (Boston College), Juan F. Rubio-Ramírez (Emory University), and Martín Uribe, (Columbia University). *American Economic Review* 101, 2530-61.
17. (2011) “Monetary and Fiscal Policy after the Great Recession.” *Moneda y Crédito* 232, 339-385.
18. (2011) “Tapping the Supercomputer Under Your Desk: Solving Dynamic Equilibrium Models with Graphics Processors.” Joint with Eric Aldrich (UC Santa Cruz), A. Ronald Gallant (Penn State), and Juan F. Rubio-Ramírez (Emory University). *Journal of Economic Dynamics and Control* 35, 386-393.
19. (2011) “Consumption and Saving over the Life Cycle: How Important are Consumer Durables?” Joint with Dirk Krueger (University of Pennsylvania). *Macroeconomic Dynamics* 15, 725-770.
20. (2010) “The Econometrics of DSGE Models.” *SERIES: Journal of the Spanish Economic Association* 1, 3-49 (lead article of inaugural issue).

21. (2010) “MEDEA: A DSGE Model for the Spanish Economy.” Joint with Pablo Burriel (Banco de España) and Juan F. Rubio-Ramírez (Emory University). *SE-RIES: Journal of the Spanish Economic Association* 1, 175-243.
22. (2010) “Fiscal Policy in a Model with Financial Frictions.” *American Economic Review Papers and Proceedings* 100:2, 35-40.
23. (2008) “How Structural are Structural Parameters?” Joint with Juan F. Rubio-Ramírez (Emory University). *2007 NBER Macroeconomics Annual*, 83-137.
24. (2008) “Horizons of Understanding: a Review of Ray Fairs How the Macroeconomy Works.” *Journal of Economic Literature* 66, 685-703.
25. (2007) “Consumption over the Life Cycle: Some Facts from Consumer Expenditure Survey Data.” Joint with Dirk Krueger (University of Pennsylvania). *Review of Economics and Statistics* 89, 552-565.
26. (2007) “On the Solution of the Growth Model with Investment-Specific Technological Change.” Joint with Juan F. Rubio-Ramírez (Emory University). *Applied Economic Letters* 14, 549-553.
27. (2007) “A Generalization of the Endogenous Grid Method.” Joint with Francisco Barillas (Emory University). *Journal of Economic Dynamics and Control* 31, 2698-2712.
28. (2007) “Estimating Macroeconomic Models: A Likelihood Approach.” Joint with Juan F. Rubio-Ramírez (Emory University). *Review of Economic Studies* 74, 1059-1087.
29. (2007) “A, B, C, (and D)s for Understanding VARs.” Joint with Juan F. Rubio-Ramírez (Emory University), Thomas Sargent (NYU) and Mark Watson (Princeton University). *American Economic Review* 97, 1021-1026.
30. (2006) “Convergence Properties of the Likelihood of Computed Dynamic Models.” Joint with Juan F. Rubio-Ramírez (Emory University) and Manuel Santos (University of Miami). *Econometrica* 74, 93-119.
31. (2006) “Economic and VAR Shocks: What Can Go Wrong?” Joint with Juan F. Rubio-Ramírez (Emory University). *Journal of the European Economic Association Papers and Proceedings* 4, 466-474.
32. (2006) “Comparing Solution Methods for Dynamic Equilibrium Economies.” Joint with S. Boragan Aruoba (University of Maryland) and Juan F. Rubio-Ramírez (Emory University). *Journal of Economic Dynamics and Control* 30, 2447-2508.
33. (2006) “Solving DSGE Models with Perturbation Methods and a Change of Variables.” Joint with Juan F. Rubio-Ramírez (Emory University). *Journal of Economic Dynamics and Control* 30, 2509-2531.

34. (2005) “Estimating Dynamic Equilibrium Economies: Linear versus Nonlinear Likelihood.” Joint with Juan F. Rubio-Ramírez (Emory University). *Journal of Applied Econometrics* 20, 891-910. Awarded the Richard Stone Prize in Applied Econometrics for the years 2004/2005.
35. (2004) “Comparing Dynamic Equilibrium Economies to Data.” Joint with Juan F. Rubio-Ramírez (Emory University). *Journal of Econometrics* 123, 153-187.

Other Publications:

36. (2017) “Cryptocurrencies: Some Lessons from Monetary Economics.” Joint with Daniel Sanches (Federal Reserve Bank of Philadelphia). In Michael Bordo (ed.), *The Structural Foundations Of Monetary Policy*, 136-143.
37. (2015) “Solution and Estimation Methods for DSGE Models.” Joint with Juan F. Rubio-Ramírez (Emory University) and Frank Schorfheide (University of Pennsylvania). *Handbook of Macroeconomics, Volume 2*, 527-724.
38. (2015) “Healthcare.” In James R. Stoner, Jr. and Harold James (eds.), *The Thriving Society*, 189-204.
39. (2014) “Discussion of “Can Structural Reforms Help Europe?” by Gauti Eggertsson, Andrea Ferrero, and Andrea Raffo.” *Journal of Monetary Economics* 61, 23-31.
40. (2014) “Anxieties of Fairness.” *First Things*, August/September 2014, 54-56.
41. (2013) “Macroeconomics and Volatility: Data, Models, and Methods.” Joint with Juan F. Rubio-Ramírez (Emory University). In *Advances in Economics and Econometrics: Theory and Applications, Tenth World Congress of the Econometric Society*, Cambridge University Press.
42. (2010) “Reading the Recent Monetary History of the U.S., 1959-2007.” Joint with Pablo Guerrón (Boston College) and Juan F. Rubio-Ramírez (Emory University). *Federal Reserve Bank of St. Louis Review* 92, 311-338.
43. (2010) “The New Macroeconometrics: a Bayesian Approach.” Joint with Pablo Guerrón (Boston College) and Juan F. Rubio-Ramírez (Emory University). In Anthony O’Hagan and Mike West (eds.), *Handbook of Applied Bayesian Analysis*, Oxford University Press.
44. (2010) “The Spanish Crisis from a Global Perspective.” Joint with Lee Ohanian (UCLA). *The Crisis of the Spanish Economy, FEDEA*.
45. (2009) “Two Books on the New Macroeconometrics.” Joint with Juan F. Rubio-Ramírez (Emory University). *Econometric Reviews* 28, 376-387.

46. (2008) “Kalman and Particle Filtering.” *The New Palgrave Dictionary of Economics*.
47. (2008) “Structural Vector Autoregressions.” Joint with Juan F. Rubio-Ramírez (Emory University). *The New Palgrave Dictionary of Economics*.
48. (2007) “Modern Macroeconomics in Action: Estimating a DSGE Model for the Europe.” Joint with Juan F. Rubio-Ramírez (Emory University) and David Taguas (SEOPAN). *European Watch*, 19-24.
49. (2006) “Discussion of “Optimal Fiscal and Monetary Policy in a Medium-Scale Macroeconomic Model” by Stephanie Schmitt-Grohé and Martín Uribe.” *2005 NBER Macroeconomics Annual*, 427-444.
50. (2006) “The Research Agenda: Jesús Fernández-Villaverde and Juan F. Rubio-Ramírez on Estimation of DSGE Models.” *Economic Dynamics Newsletter* 8, Issue 1, November 2006. Joint with Juan F. Rubio-Ramírez (Emory University).

Publications (Spanish)

Books:

51. (2011) “Testigos: 25 Años de Economía Española.” Editor and author of two chapters (“Introducción,” and “Cristobal Montoro.”). *FEDEA*.
52. (2011) “Nada Es Gratis: Cómo Evitar una Generación Perdida.” Joint with Samuel Bentolila (CEMFI), Antonio Cabrales (Universidad Carlos III de Madrid), Luis Garicano (LSE), Juan F. Rubio-Ramírez (Emory University), and Tano Santos (Columbia Business School). *Editorial Destino*.
53. (2010) “La Ley de Economía Sostenible y las Reformas Estructurales: 25 Propuestas.” Edited jointly with Manuel Bagúes (Universidad Carlos III de Madrid) and Luis Garicano (LSE). FEDEA. In addition, author of three chapters (“Las Reformas Estructurales: Empezar a Caminar,” “Marco Fiscal y Tributario,” and “El Futuro”). *FEDEA*.

Other Publications:

54. (2015) “Imperio de la Ley y Crecimiento Económico.” *El Notario: Revista de Colegio Notarial de Madrid* 60, 162-165.
55. (2015) “Imperio de la Ley y Crecimiento Económico: Teoría, Historia y Evidencia.” *Anales de la Academia Matritense del Notariado* 55, 215-240.
56. (2013) “Entrevista a Jesús Fernández-Villaverde: Cinco Libros para Pensar la Historia.” *Politikon* 1.

57. (2012). “La Ley de Estabilidad Presupuestaria.” *Los Primeros Cien días: Reformas Estructurales, Estabilidad Presupuestaria y lo que Queda por Hacer*, Luis Garicano (ed.).
58. (2012) “La Salida de la Crisis: Cómo y Cuándo.” *Anales de Mecánica y Electricidad*, Noviembre-Diciembre 2012, 12-21.
59. (2011) “El Sistema de Pensiones ante los Retos Demográficos.” *Geoconomía*, Primavera 2011, 105-116.
60. (2010) “¿Qué Papel Deben Tener los Programas de Trabajo Reducido en la Lucha contra el Paro?” Joint with Luis Garicano (LSE) in *Propuesta para la Reactivación Laboral en España*, FEDEA.
61. (2010) “El Índice Fedea de Actividad Económica.” Joint with Juan F. Rubio-Ramírez (Emory University). *Observador Económico Financiero* 501, 14-16.
62. (2010) “El Crecimiento de las Naciones y la Política Económica.” In *Libros de Economía y Empresa V*, 8-10.
63. (2009) “Una Propuesta de Política Fiscal ante la Crisis.” Joint with Juan F. Rubio-Ramírez (Emory University) in *La Crisis de la Economía Española: Lecciones y Propuestas*, FEDEA.
64. (2009) “G20: El Futuro Dura Mucho Tiempo.” Joint with Juan F. Rubio-Ramírez (Emory University) in *La Crisis de la Economía Española: Lecciones y Propuestas*, FEDEA.

Completed Research Papers

65. (2017) “Political Distribution Risk and Aggregate Fluctuations,” joint with Thorsten Drautzburg and Pablo Guerrón-Quintana.
66. (2017) “Safe Assets,” joint with Robert Barro (Harvard University), Oren Levintal (Interdisciplinary Center (IDC) Herzliya), and Andrew Mollerus (Columbia University).
67. (2017) “Cryptocurrencies: Some Lessons from Monetary Economics,” joint with David Sanches (Federal Reserve Bank of Philadelphia).
68. (2016) “Can Currency Competition Work?,” joint with David Sanches (Federal Reserve Bank of Philadelphia).
69. (2013) “Optimal Capital Versus Labor Taxation with Innovation-Led Growth,” joint with Philippe Aghion (Harvard University) and Ufuk Akcigit (UPenn).

70. (2011) “Evaluating Labor Market Reforms: a General Equilibrium Approach.” Joint with César Alonso-Borrego (Universidad Carlos III de Madrid) and José E. Galdón-Sánchez (Universidad Pública de Navarra).
71. (2011) “Fortune or Virtue: Time-variant Volatilities versus Parameter Drifting in U.S. Data.” Joint with Pablo Guerrón (Boston College) and Juan F. Rubio-Ramírez (Emory University).
72. (2011) “Was Malthus Right? Economic Growth and Population Dynamics.”
73. (2011) “Some Further Notes on Was Malthus Right? Economic Growth and Population Dynamics.”
74. (2011) “Entrepreneurship, Financial Intermediation and Aggregate Activity.” Joint with Luis Carranza (BBVA Banco Continental) and José E. Galdón-Sánchez (Universidad Pública de Navarra).
75. (2011) “Can We Really Observe Hyperbolic Discounting?” Joint with the late Arijit Mukherji. Also in NAJ Economics, Volume 3 - December 12, 2001.
76. (2011) “Optimal Fiscal Policy in a Business Cycle Model without Commitment.” Joint with Aleh Tsyvinski (Yale University).
77. (2011) “Una Propuesta para el Seguimiento Puntual de la Coyuntura de la Economía de Madrid.” Joint with Mario Alloza (UCL).
78. (2010) “La Política Fiscal y la Crisis de la Economía Española.”

Teaching Material

79. Lecture Notes on Methods on Macroeconomic Dynamics (944 pages). Notes for a second-year graduate class on computation and estimation of macroeconomic models.
80. Lecture Notes on Macroeconomic (573 pages). Notes for a first year graduate class on macroeconomics.
81. Lecture Notes on Equilibrium Macroeconomics (627 pages). Notes for a two-semester sequence of undergraduate macroeconomics.
82. Lecture Notes on Global Economic History (550 pages). Notes for a two-semester sequence of global economic history.

Grants:

Penn China Research and Engagement Fund, grant on “China in Global Economic History,” 2015-2018.

National Science Foundation Grant, “Health Risks, Health Technology, and Public Policy,” 2013-2015.

National Science Foundation Grant, “Perturbation Methods for Markov-Switching Models,” 2012-2014.

National Science Foundation Grant, “New Bayesian Methods for the Estimation of DSGE Models,” 2007-2012.

National Science Foundation Grant, “Optimal Fiscal Policy in a Business Cycle Model without Commitment,” 2003-2006.

National Science Foundation Grant, “Durable Goods and the Business Cycle, 2002-2003.
Spanish Ministry of Education and Science Grant, “Institutional Design and New Technology,” 2002-2005.

University of Pennsylvania Research Foundation Grant, 2002-2003.

University of Minnesota Supercomputer Institute, Principal User, project Computation and Estimation of Dynamic General Equilibrium Models with Microeconomic Heterogeneity, 2000-2003.

Editorial Activities:

Editorial Board, *International Economic Review*.

Editor, *Nada es Gratis*. Also, author of 618 entries.

Editor, *Review of Economic Dynamics (2012-2016)*.

Editor, *The B.E. Journals of Macroeconomics (2007-2009)*.

Associate Editor (current), *Econometrica*.

Associate Editor (past), *American Economic Review*, *Journal of the European Economic Association*, *International Economic Review*, *Journal of Economic Dynamics and Control*, *Review of Economic Dynamics*, *SERIES (Journal of the Spanish Economic Association)*.

AER Excellence in Refereeing Award, 2016.

Professional Activities and Conferences:

Advisor to the Hoover Institutions Regulation and Rule of Law Initiative.

Vicepresident, CREDO (<http://www.credo-economists.org/>).

Vicepresident, Asociación Nada es Gratis (<http://nadaesgratis.es/>).

Board of Directors, Fundación Hay Derecho.

Advisory Council, Círculo de Empresarios.

Scientific Committee, UP Comillas International Graduate School.

Faculty Fellow, Collegium Institute.

Associated Researcher at ADEMU- A Dynamic Economic and Monetary Union.

Co-coordinator of the Estimation of MEDEA, Modelo de Equilibrio Dinámico de la Economía Española, a large-scale Dynamic Stochastic General Equilibrium Model of the Spanish Economy for the Economic Bureau of the President of the Spanish Government.

Co-coordinator of the FEDEA Business Cycle Index of the Spanish Economy: Índice F (2011-2013).

Co-coordinator of the FEDEA Business Cycle Index of the Madrid Economy (2011-2013).

Co-organizer with Frank Schorfheide of NBER group on “Methods and Applications for Dynamic Equilibrium Models.”

Yearly meetings at the NBER Summer Institute.

Program Chair, with Martin Schneider, Society for Economic Dynamics meetings, July 2008.

Co-organizer with Giorgio Primiceri and Frank Schorfheide of conference: “Empirical Methods and Application for Dynamic Stochastic General Equilibrium Models.”

So far 11 meetings: Federal Reserve Bank of Philadelphia (October 2011, October, 2010, October 2009, October 2013, October 2015), Federal Reserve Bank of Cleveland (October 2008, October 2007, October 2006, October 2005, and September 2004), Federal Reserve Bank of Atlanta (October 2012), and Federal Reserve Bank of Atlanta (October 2014).

Co-organizer and co-instructor: “Markets and Morals,” Elm Institute, June, 2017.

Co-organizer: “The Macroeconomics of Uncertainty and Volatility,” SITE, August, 2016 and 2017, July 2015 and June 2013.

Co-organizer “Foundation of Liberty Conference,” July 2015, Hoover Institutions.

Co-organizer “25 Years of Recursive Methods in Macroeconomic Dynamics,” May 2014, Federal Reserve Bank of Minneapolis.

Co-organizer: “The Human Person, Economics, and Catholic Social Thought,” April 2014.

Co-organizer: Toward a Moral Economy: Globalization and the Developing World,” May 2013.

Program Committee of Econometric Society meetings, Society for Economic Dynamics meetings, European Economic Association, and Simposio de Análisis Económico (meetings of the Spanish Economic Association): several years.

Plenaries and Public Lectures:

Astor Lecture, University of Oxford, May 2016.

“The Macroeconomics of Uncertainty.” SCE, Vancouver, July 2013 (invited).

“The Macroeconomics of Uncertainty.” Midwest Macro Conference, Boulder, November 2012.

“The New Macroeconometrics: Foundations and Applications.” Dynare Conference, Paris, October 2007.

“The New Macroeconometrics: Foundations and Applications.” Simposio de Análisis Económico, Granada, December 2007.

Doctoral Advising:

Director of the Graduate Group in Economics at University of Pennsylvania, 2015-

Thesis Advisor of:

Zach Stangebye (2015). First Job: Notre Dame University.

Molin Zhong (2015). First Job: Federal Reserve Board.

Sina Ates (2015). First Job: Federal Reserve Board.

Nils Gorneman (2014). First Job: Federal Reserve Board.

Hikaru Saijo (2013). First Job: UC Santa Cruz.

Mitsuru Katagiri (2011). First Job: Bank of Japan.

Dario Caldara (2011). First Job: Federal Reserve Board.

Yao Wen (2011). First Job: Bank of Canada.

Sanjay Chugh (2004). First Job: Federal Reserve Board.

Thesis Committee Member of:

Luigi Bocola (2014). First Job: Northwestern U.

Mark Bognani (2013). First Job: Cleveland Fed.

Grey Gordon (2012). First Job: Indiana University.

Alvaro Aguirre (2011). First Job: Banco Central de Chile

Ed Herbst (2011). First Job: Federal Reserve Board.

Serdar Ozkan (2011). First Job: Federal Reserve Board.

Leonardo Melosi (2010). First Job: LBS.

Cristina Fuentes Albero (2010). First Job: Rutgers University.

Max Kryshko (2010). First Job: IMF.

Sergey Stetsenko (2010). First Job: Moodys.

Sungbae An (2006). First Job: Singapore Management University.

Irina Telyukova (2006) First Job: University of California, San Diego.

Chiara Scotti (2005) First Job: Federal Reserve Board.

Fernando Martin (2005). First Job: Simon Fraser University.

Boragan Aruoba (2004). First Job: University of Maryland, College Park.

Makoto Nakajima (2004). First Job: University of Illinois, Urbana-Champaign.

Marina Pavan (2003). First Job: Boston College.