

Victor Aguirregabiria
Curriculum Vitae
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Department of Economics
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Born in Madrid, Spain, on December 30, 1965. Married. One child. Citizenship: Canadian and Spanish.

EDUCATION

- 1995: Ph.D. in Economics. Universidad Complutense de Madrid. Title: “*Estimation of Dynamic Decision Models with Limited Dependent Variables: An Application to Firms’ Price and Inventory Decisions.*” Advisor: Manuel Arellano.
- 1991: M.Sc. in Econometrics and Mathematical Economics. London School of Economics, *with Distinction and Ely Devons Prize.*
- 1990: M.Sc. in Economics. CEMFI, Madrid
- 1988: B.A. (Licenciado) in Economics. Universidad Complutense, Madrid.

ACADEMIC POSITIONS

- 2010-present: Professor, Department of Economics, University of Toronto.
- 2015-present: Bank of Canada Visiting Scholar.
- 2014-present: Honorary Fellow of the Spanish Economic Association
- 2013-present: CEPR Research Fellow in the Industrial Organization Program
- 2010-present: CEMFI Research Fellow
- 2010-2016: Member of the Advisory Board for the John Deutsch Institute at Queen’s University.
- 2006–2010: Associate Professor with Tenure, Dept. of Economics, University of Toronto.
- 2000–2006: Assistant Professor, Department of Economics, Boston University.
- 1998–2000: Assistant Professor, Department of Economics, University of Chicago.
- 1995–1998: Assistant Professor, Dept. of Economics. University of Western Ontario.

EDITORIAL POSITIONS

- 2006-present: Associate Editor. *Journal of Applied Econometrics*
- 2014-2017: Associate Editor. *Journal of Economic Literature*
- 2013-2017: Associate Editor. *Quantitative Economics*
- 2006-2015: Associate Editor. *Journal of Business and Economic Statistics*
- 2010-2014: Editor-in-Chief. *SERIES: Journal of the Spanish Economic Association*

- 2010-2013: Associate Editor. *Quantitative Marketing and Economics*
- 2007-2011: Associate Editor. *Econometrics Journal*
- 2005-2011: Associate Editor. *International Journal of Industrial Organization*

SCIENTIFIC AND ADVISORY COMMITTEES

- Member of Scientific Committee: European Association for Research in Industrial Economics (EARIE) annual conference: 2007 (Valencia); 2008 (Toulouse); 2011 (Stockholm); 2012 (Rome); 2013 (Evora); 2014 (Milan); 2015 (Munich); 2016 (Lisbon); 2017 (Maastricht); 2018 (Athens); 2019 (Barcelona).
- Member of Scientific Committee: Jornadas de Economía Industrial (JEI) annual conference: 2015 (Alicante); 2016 (Palma); 2017 (Pamplona); 2018 (Barcelona).
- Nominator for the China Economics Prize, of the National Economic Foundation. Years 2017, 2018.
- Member of Scientific Committee: Canadian Econometric Study Group (CESG) annual conference: 2009 (Ottawa); 2011 (Toronto); 2017 (Toronto-York).
- Member of Scientific Committee: Annual Conference of the Spanish Economic Association (Simposio): 2017 (Barcelona); 2018 (Madrid).
- Member of Scientific Committee: 2010 World Congress of Econometric Society. Shanghai.
- Member of Scientific Committee: 2009 Zellner Thesis Award on Business & Economic Statistics.
- Member of Scientific Committee: VI Fundación SEPI Essay Prize, 2008.

INVITED COURSES AND VISITING POSITIONS

- September 2018: CEMFI Summer School. *Empirical Analysis of Innovation in Oligopoly Industries*.
- June 2017: Universidad Carlos III, Madrid. Invited PhD Course on “Recent developments in the econometrics of dynamic discrete choice structural models”.
- June 2017: SHUFE IO Summer School. Shanghai.
- August 2013: “Econometrics of Dynamic Games of Oligopoly Competition” *Finnish Doctoral Program*.
- May 2012: Visiting Professor at Duke University. *Economic Research Initiatives at Duke (ERID)*.
- July 2011: Course at Summer School in Microeconometrics. Barcelona Graduate School of Economics
- May 2010: Course at Wallis Institute of Political Economy. University of Rochester.
- August 2009: Course at CEMFI Summer School of Economics and Finance.
- August 2008: Course at CEMFI Summer School of Economics and Finance.
- June 2008: Course at Ecole Nationale de la Statistique et de l’Administration (ENSAE), Paris.
- August 2007: Course at CEMFI Summer School of Economics and Finance.
- July 2007: Visiting Scholar at CEMFI.
- June 2007: Course at Helsinki Center of Economic Research (HECER).
- June 2007: Course at Universidad de Barcelona.
- Feb. 2007: Visiting Professor at Center for Applied Economics and Policy Research. Indiana Univ.
- Feb. 2005: Visiting Professor at Dept. of Economics, Northwestern University. Graduate IO.
- Sep. 2004: Visiting Professor at Dept. of Economics, University of Texas, Austin. Graduate IO.
- Dec. 2000: Course at Dept. of Economics, Universidad de Las Palmas. Panel Data Econometrics.
- Dec. 1998: Course at Instituto Nacional de Investigación Económica (INIE), La Habana.

AWARDS AND HONOURS

- August 2019: Keynote speaker. *5th Empirical Microeconomics Workshop*. Calgary, Alberta.
- June 2019: Invited State of the Art Lecture at the *Canadian Economic Association annual conference*. Banff, Alberta.
- 2018: Keynote speaker at the *Barcelona Summer Forum – Structural Microeconometrics*.
- 2016: Invited Speaker at the *Australasia Congress of the Econometric Society*. Sydney.
- 2015: Honorary Fellow of the Spanish Economic Association
- 2006-07, 07-08, 13-14, 14-15, 16-17: Dean's Merit Award. Faculty of Arts and Sciences. U. of Toronto.
- Sep. 2014: Keynote Speaker. *Jornadas de Economia Industrial*, Barcelona GSE.
- Sep. 2014: Keynote Speaker. *Empirical Microeconomics Workshop*, Banff, Alberta.
- Sep. 2013: CEPR Research Fellow in the Industrial Organization Program
- July 2013: Keynote Speaker at the *Econometric Study Group Annual Conference*. Bristol, UK.
- August 2010: Invited Speaker to the *World Congress of the Econometric Society*. Shanghai.
- August 2008: Keynote Speaker: *XV Camp Resources Conference*. Wilmington, North Carolina.
- Sep. 2007: Keynote Speaker: 34th Conference European Assoc. Research Ind. Ec. (EARIE), Valencia.
- August 2005: Econometric Society World Congress Travel Grant.
- October 1995: Doctor *Cum Laude*. Universidad Complutense, Madrid.
- 1991-1994: CEMFI, Graduate Studies Fellowship.
- 1991: London School of Economics Ely Devons Prize to best student in the M.Sc. in Econometrics & Mathematical Economics.
- 1990: Bank of Spain Graduate Scholarship.
- 1988-1990: CEMFI, Graduate Studies Fellowship.

RESEARCH GRANTS

- 2017-2021 *Social Sciences and Humanities Research Canada* (SSHRC) Insight Grant. "The Geographic Flow of Bank Funding and Access to Credit: Branch Networks and Local-Market Competition," with Robert Clark (Queen's University), \$88,050.
- 2016: Commodities Research Fellowship Grant Award from the *J.P. Morgan Center for Commodities* for the project "A Microeconomic Structural Model of the Copper Mining Industry," co-authored with Dr. Andres Luengo, \$8,000.
- 2015-2018: *Social Sciences and Humanities Research Canada* (SSHRC) Insight Grant. "Methods and Applications of Structural Models of Demand and Supply Using High Frequency Store-Product-Level Data," with Junichi Suzuki, \$85,425.
- 2012-2015: *Social Sciences and Humanities Research Canada* (SSHRC) Insight Grant. "Bayesian Estimation of Dynamic Structural Models," with Martin Burda, \$89,217.
- 2009-2012: *Social Sciences and Humanities Research Canada* (SSHRC) Grant. "The Econometrics of Dynamic Games and its Application to the Analysis of Competition in Retail Industries," \$93,750.
- 2006: Connaught Start-Up Award, The University of Toronto, \$10,000.
- 2003-2006: *National Science Foundation* (NSF) Research Grant #0241943: "Estimation of Dynamic

- 2002-2005: Discrete Games with an Application to Banks' Spatial Competition," \$210,238. Spanish Ministry of Education. CICYT Grant. "Structural Estimation of Dynamic Games with Applications to Industrial Organization," with Pedro Mira.
- 2001: Boston University. *Industry Studies Program*. Seed grant: "Intertemporal price discrimination in supermarkets."
- 1998: SSHRC Research incentive grant: "Firing costs and firms' employment, liquidation and entry decisions."

PUBLICATIONS: BOOKS

1. "Empirical Industrial Organization: Models, Methods, and Applications." Under contract with *Cambridge University Press*.

PUBLICATIONS: ARTICLES

2. "Estimation of Dynamic Discrete Games when Players' Beliefs are not in Equilibrium," with Arvind Magesan. *The Review of Economic Studies*. Forthcoming.
3. "Identification of Games of Incomplete Information with Multiple Equilibria and Unobserved Heterogeneity," with Pedro Mira. *Quantitative Economics – Journal of the Econometric Society*. Forthcoming.
4. "Firms' Beliefs and Learning: Models, Identification, and Empirical Evidence," with Jihye Jeon. *Review of Industrial Organization*. Forthcoming.
5. "Empirical Models of Firms and Industries," with Margaret Slade. *Canadian Journal of Economics*, 50(5), 1445-1466 (December 2017).
6. "Dynamic Spatial Competition between Multi-Store Firms," with Gustavo Vicentini. *Journal of Industrial Economics*, 64(4), 710-754 (December 2016).
7. "Diversification of Geographic Risk in Retail Bank Networks: Evidence from Bank Expansion after the Riegle-Neal Act," with Robert Clark and Hui Wang. *RAND Journal of Economics*, 47(3), 529-572 (September 2016).
8. "Empirical Games of Market Entry and Spatial Competition in Retail Industries," with Junichi Suzuki. *Handbook on the Economics of Retail and Distribution*, Chapter 9, pp 201-233. Emek Basker (editor). (January 2016), Edward Elgar Publishing.
9. "Identification and Counterfactuals in Dynamic Models of Market Entry and Exit," with Junichi Suzuki. *Quantitative Marketing and Economics*, 12 (September 2014), 267-304.
10. "Multiplicity of Equilibria and Information Structures in Empirical Games: Challenges and Prospects," with Ron Borkovsky, Paul Ellickson, Brett Gordon, Pedro Gardete, Paul Grieco, Todd Gureckis, Teck-Hua Ho, Laurent Mathevet and Andrew Sweeting. *Marketing Letters*, Volume 26, Issue 2 (June 2015), 115-125.

11. "Labor Contracts and Flexibility: Evidence from a Labor Market Reform in Spain," with Cesar Alonso-Borrego. *Economic Inquiry*, 52 (April 2014), 930-957.
12. "Euler Equations for Estimation of Dynamic Discrete Choice Structural Models," with Arvind Magesan. *Advances in Econometrics*, Volume 31, *Structural Microeconometrics*, E. Choo and M. Shum, eds. (December 2013), 3-44.
13. "Recent Developments in Empirical IO: Dynamic Demand and Dynamic Games," with Aviv Nevo. *Advances in Economics and Econometrics*. *Tenth World Congress*. Volume 3, Econometrics. (May 2013). D. Acemoglu, M. Arellano, and E. Deckel, eds.
14. "A Dynamic Oligopoly Game of the US Airline Industry: Estimation and Policy Experiments," with Chun-Yu Ho. *Journal of Econometrics*, 168 (May 2012), 156-173.
15. "A Method for Implementing Counterfactual Experiments in Models with Multiple Equilibria," *Economics Letters*, 114 (February 2012), 190-194.
16. "Another Look at the Identification of Dynamic Discrete Decision Processes: An Application to Retirement Behavior," *Journal of Business and Economic Statistics*, 28(2) (April 2010), 201-218.
17. "Dynamic Discrete Choice Structural Models: A Survey," with Pedro Mira. *Journal of Econometrics*, 156(1) (May 2010), 38-67.
18. "A Dynamic Game of Airline Network Competition: Hub-and-Spoke Networks and Entry Deterrence," with Chun-Yu Ho. *International Journal of Industrial Organization*, 28(4) (July 2010), 377-382.
19. "Discrete Choice Models of Firms' Strategic Decisions," with Michaela Draganska, Sanjog Misra, Pat Bajari, Liran Einav, Paul Ellickson, Dan Horsky, Sridhar Narayanan, Yesim Orhun, Peter Reiss, Katja Seim, Vishal Singh, Raphael Thomadsen and Ting Zhu. *Marketing Letters*, 19(3) (December 2008), 399-416.
20. "Identification of a Simple Dynamic Discrete Game under Rationalizability," *Journal of Business and Economic Statistics*, 26(3) (July 2008), 283-289.
21. "An Estimable Dynamic Model of Entry, Exit and Growth in Oligopoly Retail Markets," with Pedro Mira and Hernan Roman. *American Economic Review – Papers & Proceedings*, 97(2) (May, 2007), 449-454.
22. "Sequential Estimation of Dynamic Discrete Games," with Pedro Mira. *Econometrica*, 75(1) (January, 2007), 1-53.
23. "A Hybrid Genetic Algorithm for the Maximum Likelihood Estimation of Models with Multiple Equilibria: A First Report," with Pedro Mira. *New Mathematics and Natural Computation*, 1(2) (July 2005), 295-303.
24. "Nonparametric Identification of Behavioral Responses to Counterfactual Policy Interventions in Dynamic Discrete Decision Processes," *Economics Letters*, 87 (June 2005) 393-398.

25. “Pseudo Maximum Likelihood Estimation of Structural Models Involving Fixed-Point Problems,” *Economics Letters*, 84 (September 2004), 335-340.
26. “Swapping the Nested Fixed Point Algorithm: A Class of Estimators for Discrete Markov Decision Models,” with Pedro Mira. *Econometrica*, 70 (July 2002), 1519-1543.
27. “Occupational Structure, Technological Innovation, and Reorganization of Production,” with Cesar Alonso-Borrego. *Labour Economics*, 8 (May 2001), 43-73.
28. “The Dynamics of Markups and Inventories in Retailing Firms,” *The Review of Economic Studies*, 66 (May 1999), 275-308.
29. “Estimation of Dynamic Programming Models with Censored Decision Variables,” *Investigaciones Economicas*, 21 (May 1997), 167-208.
30. “El Lenguaje Gauss y sus Aplicaciones: Una Panorámica,” with Cesar Alonso-Borrego. *Revista de Economía Aplicada*, 1 (1993), 201-06.

PAPERS UNDER REVIEW

31. “Sufficient Statistics for Unobserved Heterogeneity in Structural Dynamic Logit Models,” with Jiaying Gu, and Yao Luo. [Revise and Resubmit at the *Journal of Econometrics*].
32. “Identification of Biased Beliefs in Games of Incomplete Information Using Experimental Data.” with Erhao Xie. [Revise and Resubmit at *Journal of Econometric Methods*].
33. “Solution and Estimation of Dynamic Discrete Structural Models Using an Euler-Equations Mapping,” with Arvind Magesan. [Revise & Resubmit at *Econometrica*].

ACTIVE WORKING PAPERS

34. “Identification of Structural Parameters in Dynamic Discrete Choice Games with Fixed Effects Unobserved Heterogeneity,” with Jiaying Gu and Pedro Mira. February, 2019.
35. “The Geographic Flow of Bank Funding: Branch Networks and Local-Market Competition,” with Robert Clark and Hui Wang, January 2018.
36. “A Nonparametric Dynamic Structural Model for the Estimation of Option Values in Natural Resource Investments,” with Eduardo Souza-Rodrigues. April 2017.
37. “Estimating the Effects of Deregulation in the Ontario Alcohol Retail Market,” with Daniel Ershov and Junichi Suzuki. Manuscript, April 2016.
38. “A Microeconomic Dynamic Structural Model of Copper Mining Decisions,” with Andres Luengo and Eduardo Souza-Rodrigues. Manuscript, July 2017.

39. "Inventories and Stockouts in Multi-Product Retailers with Market Power," with Junichi Suzuki. Manuscript, January 2016.
40. "Moment Inequalities Estimation of Discrete Choice Models: Using a Bound on the Expected Value of the Unobservables," with Yao Luo and Zhe Yuan. Manuscript, June 2015.
41. "Consumer Substitution Patterns and the Welfare Effects of Retail Stockouts," with Junichi Suzuki. Manuscript, December 2016.
42. "Bayesian Estimation of Games under Flexible Specifications of Unobservables and Players' Uncertainty," with Martin Burda. Manuscript, December 2013.

OTHER WORKING PAPERS

43. "Estimation of Dynamic Discrete Games Using the Nested Pseudo Likelihood Algorithm: Code and Application," Manuscript, September 2009.
44. "Entry, Survival and Growth in Oligopoly Retail Markets: Explaining Cross-Industry Heterogeneity," with Pedro Mira and Hernan Roman. Manuscript, August 2007.
45. "Retail Stockouts and Manufacturer Brand Competition." Manuscript, September 2006.
46. "Econometric Issues and Methods in the Estimation of Production Functions." Manuscript, August, 2010.

OTHER PUBLICATIONS: BOOK REVIEWS, ENTRIES IN ENCYCLOPEDIAS

47. "Some Notes on Sample Selection Models," *Quantile: International Econometric Journal in Russian*, 7 (September 2009), 21-36.
48. "Entrepreneurship, Growth and Innovation: The Dynamics of Firms and Industries," edited by Enrico Santarelli. *Journal of Economic Literature*, XLV (1), (March 2007), 206-209.
49. "Sen-Shorrocks-Thon Index," in *Encyclopedia of World Poverty*, Mehmet Odekon (editor), Sage Publications, Thousand Oaks, CA. July, 2006.
50. "Decomposable Poverty Measures," in *Encyclopedia of World Poverty*, Mehmet Odekon (editor), Sage Publications, Thousand Oaks, CA. July, 2006.
51. "Consumption Based Measures of Poverty," in *Encyclopedia of World Poverty*, Mehmet Odekon (editor), Sage Publications, Thousand Oaks, CA. July, 2006.
52. "Engel Coefficient," in *Encyclopedia of World Poverty*, Mehmet Odekon (editor), Sage Publications, Thousand Oaks, CA. July, 2006.

53. “A Disequilibrium Model to Study Public Expenditure,” (In Spanish). Research Paper 9011 (November 1990). Centro de Estudios Monetarios y Financieros. *Banco de España*.

SEMINAR PRESENTATIONS (1999-2019)

- 2018-2019: Georgetown (Sep, 2018); Pittsburg (Nov. 2018); Yale IO Seminar (April. 2019); PUC-Rio (May 2018); FGV-Rio (May 2018).
- 2017-2018: Notre Dame (Sep, 2017); Ryerson (Oct, 2017); Washington University (Nov, 2017); Michigan State (April, 2018); Stony-Brook (April, 2018).
- 2016-2017: Johns Hopkins (Oct, 2016); U. North Carolina (Nov, 2016); Texas A&M (April, 2017).
- 2015-2016: Yale IO Seminar (Oct, 2015); Guelph (Dec, 2015); Bank of Canada (Dec, 2015); Columbia IO Seminar (Apr, 2016); Syracuse (Apr, 2016).
- 2014-2015: Harvard-MIT IO Workshop (Dec. 2014); Princeton (Ap. 2015); Boston College (Ap. 2015).
- 2013-2014: Penn State (Oct. 2013); Ohio State (April 2014); Michigan (Apr, 2014); Indiana (Ap 2014).
- 2012-2013: Iowa State (May 2013); Johns Hopkins (Ap. 2013); Wisconsin-Madison (Dec. 2012); Virginia (Nov. 2012).
- 2011-2012: Duke (May 2012); Princeton, Applied Micro Seminar (Sep. 2011); Warwick (Oct. 2011); Bank of Spain (Dec. 2011).
- 2010-2011: Minnesota (Nov. 2010); Texas-Austin (Nov. 2010).
- 2009-2010: IESE Business School (June 2010); NYU (March 2010); Maryland (March 2010); Illinois Urbana-Champaign (Dec. 2009); Carlos III, Madrid (Dec. 2009).
- 2008-2009: Vanderbilt (Dec. 2008); Univ. College London (Nov. 2008); Concordia (Nov. 2008); Yale SOM (Oct 2008).
- 2007-2008: CREST-INSEE (Paris) Edmond Malinvaud Seminar (June 2008); Stony Brook (April 2008); Columbia (Feb. 2008); Princeton (Dec. 2007); Northwestern (Nov. 2007); Guelph (Nov. 2007); HEC Montreal (Nov. 2007).
- 2006-2007: Purdue (April 2007); Indiana - CAEPR. (Feb. 2007); US Federal Trade Commission (Feb.2007); UK Competition Commission (Dec. 2006); NYU-Stern (Oct. 2006); Georgia State Univ. (Oct. 2006); Western Ontario (Sep. 2006).
- 2005-2006: Michigan. Ross Business School (March 2006); Minnesota (February 2006); Pittsburgh (Jan. 2006); Duke (Jan. 2006); Arizona State University (Dec. 2005); British Columbia (Nov. 2005). MIT IO Workshop (Nov. 2005); MIT (Nov. 2005). Toronto (Oct. 2005); Wash. University (Sep. 2005).
- 2004-2005: Harvard-MIT Econometrics Seminar (April 2005); Boston University (April 2005); Chicago (Nov. 2004); John Hopkins (Oct. 2004); Texas-Austin (Sep. 2004).
- 2003–2004: Boston College (April 2004); Duke (April 2004); Texas-Austin (Jan. 2004); Cornell (Oct. 2003); Penn State (Oct. 2003); Boston University (Oct. 2003); Minnesota (Sep. 2003).
- 2002–2003: Princeton. Oskar Morgenstern Memorial Seminar (April 2003); NYU (April 2003); Yale (March 2003); Toronto (Dec. 2002); Duke (Nov. 2002); Carnegie-Mellon (Nov. 2002); Wisconsin-Madison (Oct. 2002).
- 2001–2002: Virginia (May 2002); Stanford GSB (Nov. 2001); U. Pennsylvania (Nov. 2001).
- 2000–2001: Harvard (Oct. 2000); Maryland (Nov. 2001); Brown (March, 2001); John Hopkins (March

- 1999-2000: 2001); CEMFI (June 2001).
Chicago (Oct. 1999); NYU (Oct. 1999); Carnegie Mellon (Nov. 1999); Boston University (April, 2000).

CONFERENCE PRESENTATIONS (2001-2019)

- 2018-2019: - Keynote speaker. *5th Empirical Microeconomics Workshop*. Calgary, Alberta.
- Invited speaker *Canadian Economic Association annual conference*. Banff, Alberta.
- 2017-2018: - Econometric Study Group, Bristol (July 2018).
- 2017-2018: - Conference on New Directions on Commodities Research. Denver (August 2017).
- Conference on Implementation of Structural Dynamic Models. London (August 2017).
- Drexel-PFED Conference: Credit Markets & the Macroeconomy. Philadelphia (Sep 2018)
- NBER Conference on Financial Markets Regulation, Philadelphia (October, 2017).
- North American Winter Meeting of the Econometric Society. Philadelphia (Jan, 2018).
- Barcelona Summer Forum. Applied IO and Structural Microeconometrics (Invited Speaker). Barcelona (June 2018).
- 2016-2017: - Econometric Society Australasian meeting. Invited speaker. Sydney (July 2016).
- *European Association for Research in Industrial Economics* (EARIE). Lisboa (Aug 2016)
- Jornadas de Economia Industrial. Palma (September 2016).
- CEPR-JIE Applied IO Conference. Jerusalem (May 2017).
- 2015-2016:
- 2014-2015: - CIRPÉE Conference of Industrial Organization, HEC Montreal (July 2014).
- Jornadas de Economia Industrial. Keynote speaker. Barcelona (September 2014).
- Empirical Microeconomics Workshop. Keynote speaker. Banff, Alberta (Sept. 2014).
- American Economic Association, Winter Meetings. Boston (January 2015).
- Canadian Economic Association. Toronto (May 2015).
- Cowles Foundation Conference on Structural Microeconomics (June 2015).
- Barcelona Summer Forum. Applied IO; Structural Microeconometrics (June 2015).
- 2013-2014: - Econometric Study Group, Bristol. Keynote speaker (July 2013).
- CRES Empirical Microeconomics Conference, Washington U. St Louis (April 2014).
- 5th Microeconometric Network Meeting, Copenhagen (June 2014).
- Society of Economic Dynamics Annual Conference, Toronto (June 2014).
- 2012-2013: - European Meeting of the Econometric Society, Malaga (August 2012).
- Midwest Econometric Study Group, Lexington (Sept. 2012)
- North American Winter Meeting of the Econometric Society, San Diego (Jan, 2013).
- CEMMAP: *Recent Contributions to Inference in Game Theoretic Models* (June 2013).
- 9th Tri-annual Choice Symposium, Amsterdam (June 2013).
- 2011-2012: - 2nd Workshop on “*Structural Approaches to Productivity and Industrial Dynamics*,”
Einaudi Institute, Rome (April 2012).
- 2010-2011: - *World Congress of the Econometric Society*. Invited Speaker. Shanghai. (August 2010).
- Econometric Society North American Winter Meeting, Denver (January 2011).
- CEPR Conference on Applied IO, Tel-Aviv (May 2011).
- Bank of Canada workshop on Financial Institutions and Markets, Ottawa (June 2011).

- 2009-2010:
 - *European Association for Research in Industrial Economics* (EARIE), Ljubljana, Slovenia (September 2009).
 - Conference of the *Canadian Econometrics Study Group*, Ottawa, (October 2009).
 - Econometric Society North American Winter Meeting, Atlanta (January 2010).
 - 8th Tri-annual Choice Symposium. Miami, Florida (June 2010).
- 2008-2009:
 - *Camp Resources Conference*. Keynote Speaker. Wilmington, North Carolina (Aug 2008).
 - CAPCP Conference in IO. Penn State (March 2009).
 - Conference on “*Structural Approaches to Productivity and Industrial Dynamics*,” Einaudi Institute, Rome (April 2009).
 - International IO Conference (IIOC). Boston (April 2009).
 - Canadian Economic Association. Toronto (May 2009).
 - Summer Meeting of the Econometric Society. Boston (June 2009).
- 2007-2008:
 - Conference of the *European Association for Research in Industrial Economics* (EARIE). Keynote Speaker. Valencia, Spain.
 - Journal of Econometrics Conference on *Auctions and Games*. Virginia Tech. (Oct 2007).
 - American Economic Association Winter Meeting. New Orleans (January 2008).
- 2006-2007:
 - Society of Economic Dynamics annual conference. Vancouver (July 2006).
 - Conference of the Southern Economic Association. Charleston, SC (November 2006).
 - ELSE-IFS Conference on Supermarkets. London, UK. (December, 2006).
 - Econometric Society. North American Winter Meeting. Chicago (January 2007)
 - American Economic Association Winter Meeting. Chicago (January 2007).
 - 7th Tri-annual *Choice Symposium*, Wharton School. Philadelphia (June 2007);
- 2005-2006:
 - Econometric Society World Congress. London, England. (August, 2005).
 - Canadian Econometric Study Group. Vancouver (Oct. 2005).
 - International IO Conference (IIOC). Boston. (April 2006).
 - Numerically Intensive Economic Policy Analysis (NIEPA). Queen's U. (May 2006).
- 2004-2005:
 - Stanford Summer Institute. "Structural Econometrics". Stanford (July, 2004).
 - International Society of Inventory Research (ISIR) at the ASSA Meetings, Philadelphia, PA. (Jan. 2005).
- 2003-2004:
- 2002-2003:
 - Society for Economic Dynamics, Annual Conference, Paris (June 2003);
 - Conference on “Lumpy Investment, Durable Purchases, and Technical Change.” Organized by Russell Cooper and Omar Licandro. FEDEA. Madrid. (June, 2003).
 - Stanford Summer Institute on "Structural Econometric Modeling in Labor, Public Finance and Industrial Organization." (July, 2002).
- 2001-2002:
 - Numerically Intensive Economic Policy Analysis (NIEPA). Queen's University. Kingston
 - Society for Economic Dynamics, Annual Conference. New York (June 2002);
 - Conference on IO and the Food Processing Industry, Institut d'Economie Industrielle (IDEI). Toulouse, France. (June, 2002).

TEACHING: LIST OF COURSES

Undergraduate courses

- Econometrics at Western Ontario. 1995-96 to 1997-98.

- Econometrics at University of Chicago. 1998-99 to 1999-2000.
- Intermediate Micro at Boston University. 2000-01 to 2005-06.
- Industrial Organization at Boston University. 2000-01 to 2005-06.
- Industrial Organization at University of Toronto. 2010-11.
- Empirical Industrial Organization at University of Toronto. 2018-19.

Graduate courses

- Applied Econometrics at Western Ontario. 1995-96 to 1997-98.
- Applied Econometrics at University of Chicago. 1998-99 to 1999-2000.
- Micro Econometrics at Boston University. 2000-01, 2001-02 to 2005-06.
- Empirical Industrial Organization at Boston University. 2000-01 to 2005-06.
- Econometrics for Master Students (ECO 2408) at University of Toronto. 2006-07, 2008-09.
- Econometrics II (ECO 2401) at University of Toronto. 2006-07 to 2018-19.
- Industrial Organization II (ECO 2901) at University of Toronto. 2006-07 to 2018-19.
- Topics in Econometrics (ECO 2403) at University of Toronto. 2015-16 to 2018-19.

PHD THESIS SUPERVISION

<u>Student Name</u>	<u>My Role</u>	<u>Univ</u>	<u>Grad. Year</u>	<u>Current Position</u>
Paul Lim	Main Advisor	Toronto	Expected 2020	
Jan Victor Dee	Main Advisor	Toronto	Expected 2019	Assistant Prof. at Concordia University.
Xinlong Li	Secondary Adv.	Toronto	Expected 2019	Assistant Prof. at Nanyang Tech. University
Scott Orr	Secondary Adv.	Toronto	2018	Assistant Prof. at UBC–Sauder School of Bus.
Limin Fang	Main Advisor	Toronto	2018	Assistant Prof. at UBC–Sauder School of Bus.
Erhao Xie	Main Advisor	Toronto	2018	Bank of Canada Researcher
Daniel Ershov	Main Advisor	Toronto	2017	Assistant Prof. at Toulouse School Ec.
Mathieu Marcoux	Main Advisor	Toronto	2017	Assistant Prof. at U. of Montreal
Zhe Yuan	Main Advisor	Toronto	2016	Assistant Prof. at SUFE, Shanghai.
Hidenori Takahashi	Main Advisor	Toronto	2014	Assistant Prof. at U. of Mannheim
Avery Michael Haviv	Secondary Adv.	Toronto	2014	Assistant Prof. U of Rochester Simon
Yutec Sun	Secondary Adv.	Toronto	2013	Postdoc. Telecom ParisTech
Nathan Yang	Main Advisor	Toronto	2012	Assistant Prof. at McGill – Desautels
Arvind Magesan	Main Advisor	Toronto	2010	Associate Prof. University of Calgary
Hui Wang	Secondary Adv.	Toronto	2010	Assistant Prof. at Beijing University
Florian Hoffmann	Secondary Adv.	Toronto	2010	Assistant Prof. at U. of British Columbia
Fei Deng	Main Advisor	Boston	2006	Partner in Edgeworth Economics LLC
Gustavo Vicentini	Main Advisor	Boston	2006	Lecturer at Northeastern University
Maria Laura Alzua	Main Advisor	Boston	2006	Associate Prof. at Universidad de la Plata
Justin Lenzo	Secondary Adv.	Boston	2006	Assistant Prof. Northwestern University
Catherine Rodriguez	Secondary Adv.	Boston	2006	Associate Prof. at Universidad de los Andes
Kasey Buckles	Secondary Adv.	Boston	2005	Associate Prof. at University of Notre Dame
Zhongjun Qu	Secondary Adv.	Boston	2005	Associate Prof. at Boston University
Martino De Stefano	Secondary Adv.	Boston	2004	Assoc. Principal. Charles River Assoc.
Minsoo Park	Secondary Adv.	Boston	2004	Associate Prof. Sungkyunkwan University.
Firat Inceoglu	Secondary Adv.	Boston	2004	Assistant Prof. at University of Wurzburg.
Alfredo Cuecuecha	Secondary Adv.	Boston	2004	Professor. El Colegio de Tlaxcala, Mexico.

Ana Balsa	Secondary Adv.	Boston	2003	Professor. Universidad de Montevideo
Angela Dills	Secondary Adv.	Boston	2002	Associate Professor at Providence College
Hsien-Ming Lien	Secondary Adv.	Boston	2002	Professor at National Cheng-Chi University
Xiaokang Zhu	Secondary Adv.	Boston	2001	Senior Researcher at Cornerstone Research
Edward J. Vytlačil	Secondary Adv.	Chicago	2000	Professor at Yale University
Jun Yu	Secondary Adv.	Western	1998	Professor at Singapore Management Univ.
George Jiang	Secondary Adv.	Western	1998	Professor at University of Arizona

EXTERNAL EXAMINER OF PHD DISSERTATIONS

- Ismael Mourifié (Montreal). Thesis Title: “Essays in Partial Identification”. September 2013.
- Mahdiyeh Entezarkheir (Waterloo). Thesis Title: “Essays on Innovation, Patents, and Econometrics”. July 2010.
- Bertel Schjernings (University of Copenhagen). Thesis title: “Dynamic Aspects of Entrepreneurial Behavior”. April 2008.
- Graciela Sanroman (CEMFI). Thesis title: "Microeconometric Analysis of Household Portfolios". Nov. 2008.

DEPARTMENT AND UNIVERSITY SERVICES

- Chair of the Recruiting Committee. Academic years 2014-15, 2015-16, 2016-17. 2017-18.
- Chair of the Industrial Organization Comprehensive Exam. Academic years 2007-08 to 2017-18.
- Member of the Tri-campus Decanal Promotions Committee 2017-18 to 2018-19.
- Member of the Graduate Committee: 2016-2017 to 2018-19.
- Member of the Econometrics Comprehensive Exam. Academic years 2015-16 to 2018-19.
- Member of the Recruiting Committee. Academic years 2006-07 to 2010-11, and 2012-13.
- Member of the Graduate Committee: 2008-09 to 2010-11.
- Member of the MA and PhD Admissions Committee: 2009-10, 2013-14, 2018-19.
- Member of Ad-hoc Committee on Review of Graduate Program: 2007-08.
- Member of Reading Committee for 3rd year tenure review: 2007-08, 2008-09, 2010-11, 2016-17.
- Member of tenure review committees: 2013-14.

REFeree ACTIVITIES

- Referee for: *American Economic Review; Econometrica; Journal of Political Economy; Review of Economic Studies; Quarterly Journal of Economics; Rand Journal of Economics; Journal of Econometrics; Quantitative Economics; Marketing Science; International Economic Review; Journal of Economic Theory; Journal of Industrial Economics; Economic Journal; Quantitative Marketing and Economics; European Economic Review; Journal of Applied Econometrics; Journal of Business and Economic Statistics; Econometrics Journal; Journal of Labor Economics; Review of Economics and Statistics; Econometric Theory; International Journal of Industrial Organization; Economics Letters; IMF Staff Papers; Investigaciones Economicas; SERIES- Journal of the Spanish Economic Association; Journal of Economic Dynamics and Control; National Science Foundation; Social Sciences and Humanities Research Council of Canada.*

ORGANIZATION OF CONFERENCES

- May 2007: “*Empirical Models of Industry Dynamics in IO*”. Toronto. Co-organizer, with Kenneth Corts & Carlos Serrano.
- September 1998: “*Canadian Econometric Study Group Conference*”. London, Ontario. Co-organizer with Jeffrey Smith.