

Victor Aguirregabiria Curriculum Vitae

January 15, 2012

Department of Economics
University of Toronto
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Born in Madrid, Spain, on December 30, 1965. Married. One child.

EDUCATION

- 1995: Ph.D. in Economics. U. Complutense, 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 Devon’s Prize*.
- 1990: M.Sc. in Economics. CEMFI, Madrid
- 1988: B.A. (Licenciado) in Economics. Universidad Complutense, Madrid.

ACADEMIC POSITIONS

- 2010-present: Professor, Dept. of Economics, University of Toronto.
- 2010-present: CEMFI Research Fellow.
- 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

Current:

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

Past:

- 2007-2011: Associate Editor *Econometrics Journal*.
- 2005-2011: Associate Editor *International Journal of Industrial Organization*.

SCIENTIFIC AND ADVISORY COMMITTEES

- 2010-present: Member of the Advisory Board for the John Deutsch Institute at Queen’s University.
- Member of Scientific Committee of the Annual Conference of the European Association for Research in Industrial Economics (EARIE): 2007 (Valencia); 2008 (Toulouse); 2011 (Stockholm); and 2012 (Rome).
- Member of Scientific Committee of the Annual Conference of the Canadian Econometric Study Group (CESG): 2009 (Ottawa) and 2011 (Toronto).
- Member of Scientific Committee of the 2010 World Congress of Econometric Society. Shanghai.

- Member of the Scientific Committee for 2009 Zellner Thesis Award on Business & Economic Statistics.
- Member of the Scientific Committee of the VI Fundacion SEPI Essay Prize, 2008.

INVITED COURSES AND VISITING POSITIONS

- July 2011: Barcelona Graduate School of Economics (BGSE). Summer School in Microeconometrics.
- May 2010: Wallis Institute of Political Economy. University of Rochester.
- August 2009: CEMFI Summer School of Economics and Finance.
- August 2008: CEMFI Summer School of Economics and Finance.
- June 2008: Ecole Nationale de la Statistique et de l'Administration (ENSAE), Paris.
- August 2007: CEMFI Summer School of Economics and Finance.
- July 2007: Visiting Scholar at CEMFI and *Instituto Madrileño de Estudios Avanzados*.
- June, 2007: Helsinki Center of Economic Research (HECER).
- June, 2007: Universidad de Barcelona.
- February, 2007: Center for Applied Economics and Policy Research. Indiana University.
- February, 2005: Dept. of Economics, Northwestern University. Graduate IO.
- September, 2004: Dept. of Economics, University of Texas, Austin. Graduate IO.
- December, 2000: Dept. of Economics, Universidad de Las Palmas. Panel Data Econometrics.
- December, 1998: Instituto Nacional de Investigación Económica (INIE), La Habana.

AWARDS, HONOURS AND SCHOLARSHIPS

- Invited Speaker to the *World Congress of the Econometric Society*. Shanghai, August 2010.
- Keynote Speaker: *XV Camp Resources Conference*. Wilmington, North Carolina. August 2008.
- 2007-2008 Dean's Merit Award. Faculty of Arts and Sciences. University of Toronto
- 2006-2007 Dean's Merit Award. Faculty of Arts and Sciences. University of Toronto
- Keynote Speaker: 34th Conference European Assoc. Research in Ind. Econ. (EARIE). Valencia, 2007.
- Econometric Society World Congress Travel Grant. 2005.
- 1995: Doctor *Cum Laude*. Universidad Complutense, Madrid.
- 1991-1994: CEMFI, Graduate Studies Fellowship.
- 1991: London School of Economics, Ely Devon's Prize to the best student in the M.Sc. in Econometrics and Mathematical Economics.
- 1990: Bank of Spain Graduate Scholarship.
- 1988-1990: CEMFI, Graduate Studies Fellowship.

RESEARCH GRANTS

- 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.
- 2003-2006: *National Science Foundation* (NSF) Research Grant #0241943: "Estimation of Dynamic Discrete Games with an Application to Banks' Spatial Competition," (\$210,238).
- 2002-2005: 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 and competition in supermarkets."
- 1998: *Social Sciences and Humanities Research Canada* (SSHRC). Research incentive grant: "Firing costs and firms' employment, liquidation and entry decisions."

REFEREED PUBLICATIONS

1. "Recent Developments in Empirical IO: Dynamic Demand and Dynamic Games," with Aviv Nevo. *Advances in Economics and Econometrics: Theory and Applications. Tenth World Congress of the Econometric Society*.
2. "A Dynamic Oligopoly Game of the US Airline Industry: Estimation and Policy Experiments," with Chun-Yu Ho. *Journal of Econometrics*, in press.
3. "A Method for Implementing Counterfactual Experiments in Models with Multiple Equilibria," *Economics Letters*, 114 (February 2012), 190-194.
4. "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.
5. "Dynamic Discrete Choice Structural Models: A Survey," with Pedro Mira. *Journal of Econometrics*, 156(1) (May 2010), 38-67.
6. "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.
7. "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.
8. "Identification of a Simple Dynamic Discrete Game under Rationalizability," *Journal of Business and Economic Statistics*, 26(3) (July 2008), 283-289.
9. "An Estimable Dynamic Model of Entry, Exit and Growth in Oligopoly Retail Markets," with Pedro Mira and Hernan Roman. *American Economic Review*, 97(2) (May, 2007), 449-454.
10. "Sequential Estimation of Dynamic Discrete Games," with Pedro Mira. *Econometrica*, 75(1) (January, 2007), 1-53.
11. "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.
12. "Nonparametric Identification of Behavioral Responses to Counterfactual Policy Interventions in Dynamic Discrete Decision Processes," *Economics Letters*, 87 (June 2005) 393-398.
13. "Pseudo Maximum Likelihood Estimation of Structural Models Involving Fixed-Point Problems," *Economics Letters*, 84 (September 2004), 335-340.
14. "Swapping the Nested Fixed Point Algorithm: A Class of Estimators for Discrete Markov Decision Models," with Pedro Mira. *Econometrica*, 70 (July 2002), 1519-1543.

15. "Occupational Structure, Technological Innovation, and Reorganization of Production," with Cesar Alonso-Borrego. *Labour Economics*, 8 (May 2001), 43-73.
16. "The Dynamics of Markups and Inventories in Retailing Firms," *The Review of Economic Studies*, 66 (May 1999), 275-308.
17. "Estimation of Dynamic Programming Models with Censored Decision Variables," *Investigaciones Economicas*, 21 (May 1997), 167-208.

PUBLICATIONS: NON-REFEREED

18. "Some Notes on Sample Selection Models," *Quantile: International Econometric Journal in Russian*, 7 (September 2009), 21-36.
19. "Entrepreneurship, Growth and Innovation: The Dynamics of Firms and Industries," edited by Enrico Santarelli. *Journal of Economic Literature*, XLV (1), (March 2007), 206-209.
20. "Sen-Shorrocks-Thon Index," in *Encyclopedia of World Poverty*, Mehmet Odekon (editor), Sage Publications, Thousand Oaks, CA. July, 2006.
21. "Decomposable Poverty Measures," in *Encyclopedia of World Poverty*, Mehmet Odekon (editor), Sage Publications, Thousand Oaks, CA. July, 2006.
22. "Consumption Based Measures of Poverty," in *Encyclopedia of World Poverty*, Mehmet Odekon (editor), Sage Publications, Thousand Oaks, CA. July, 2006.
23. "Engel Coefficient," in *Encyclopedia of World Poverty*, Mehmet Odekon (editor), Sage Publications, Thousand Oaks, CA. July, 2006.
24. "El Lenguaje Gauss y sus Aplicaciones: Una Panorámica," with Cesar Alonso-Borrego. *Revista de Economía Aplicada*, 1 (1993), 201-06.
25. "A Disequilibrium Model to Study Public Expenditure," (In Spanish). Research Paper 9011 (November 1990). Centro de Estudios Monetarios y Financieros. *Banco de España*.

PAPERS UNDER REVIEW

26. "Estimation of Dynamic Discrete Games when Players' Beliefs are not in Equilibrium," with Arvind Magesan.
27. "Labor Contracts and Flexibility: Evidence from a Labor Market Reform in Spain," with Cesar Alonso-Borrego. Revise and Resubmit at the *Journal of Applied Econometrics*.
28. "Dynamic Spatial Competition between Multi-Store Firms," with Gustavo Vicentini.
29. "Econometric Issues and Methods in the Estimation of Production Functions." Revise and Resubmit at the *Journal of Economic Surveys*.

WORKING PAPERS

30. "Bank Expansion after the Riegle-Neal Act: The Role of Diversification of Geographic Risk," with Robert Clark and Hui Wang.
31. "Estimation of Dynamic Discrete Games Using the Nested Pseudo Likelihood Algorithm: Code and Application," September 2009.
32. "Structural Estimation of Games with Multiple Equilibria in the Data," with Pedro Mira. June 2009.
33. "Reducing the State Space in Dynamic Games with Heterogeneous Players," with Arvind Magesan and Junichi Suzuki. August 2009.
34. "Estimation of Dynamic Structural Models for Count Data: An Application to Firms' Factor Demand," with Rocio Sanchez-Mangas. November 2008.
35. "Entry, Survival and Growth in Oligopoly Retail Markets: Explaining Cross-Industry Heterogeneity," with Pedro Mira and Hernan Roman. August 2007.
36. "Retail Stockouts and Manufacturer Brand Competition." September 2006.
37. "Structural Estimation of Dynamic Games of Location Choice by Multi-Store Firms." August, 2009.
38. "Nonparametric Identification and Estimation of Dynamic Input Demand Models, with Chun-Yu Ho.

SEMINAR PRESENTATIONS (1999-2011)

- 2011-2012: Princeton, Applied Micro Seminar (September, 2011); Warwick, Departmental Seminar (October, 2011); Bank of Spain (December, 2011).
- 2010-2011: Minnesota (Nov. 2010); Texas-Austin (Nov. 2010).
- 2009-2010: IESE Business School, Barcelona (June 2010); New York University. Dept. of Economics (March 2010); Maryland (March 2010); Illinois Urbana-Champaign (December 2009); Carlos III, Madrid (December 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); 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 Econometrics Lunch Seminar (Nov. 2005). Toronto (Oct. 2005); Wash. University (Sep. 2005).
- 2004-2005: Harvard-MIT Econometrics Seminar (April 2005); Boston University (April 2005); Chicago - Economics (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 Morganstern 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 University (October, 2000); Maryland (November, 2001); Brown (March, 2001); John Hopkins (March, 2001); CEMFI, Madrid (June, 2001).
- 1999-2000: Chicago (Oct. 1999); NYU (Oct. 1999); Carnegie Mellon (Nov. 1999); Boston University (April, 2000).

CONFERENCE PRESENTATIONS (2001-2011)

- 2010-2011: Bank of Canada workshop on Financial Institutions and Markets, Ottawa (June 2011); CEPR Conference on Applied IO, Tel-Aviv, May 2011; Econometric Society North American Winter Meeting, Denver (Jan. 2011).
 - 2009-2010: Invited Speaker to the *World Congress of the Econometric Society*. Shanghai, August 2010; 8th Tri-annual Choice Symposium. Miami, Florida; Econometric Society North American Winter Meeting, Atlanta. Jan. 2010; Conference of the *European Association for Research in Industrial Economics* (EARIE), Ljubljana, Slovenia. Sept. 2009; Conference of the *Canadian Econometrics Study Group*, Ottawa, 2009.
 - 2008-2009: Summer Meeting of the Econometric Society. Boston (June 2009); Canadian Economic Association. Toronto (May 2009); Conference on “*Structural Approaches to Productivity and Industrial Dynamics*,” Einaudi Institute (EIEF). Rome (April 2009); International Conference on IO. Boston (April 2009); CAPCP Conference on IO. Penn State (March 2009); Keynote Speaker: *XV Camp Resources Conference*. Wilmington, North Carolina. August 2008.
 - 2007-2008: American Economic Association Winter Meeting: New Orleans. Jan. 2008; Journal of Econometrics Conference on *Auctions and Games*. Virginia Tech. October 12-14, 2007; Keynote Speaker. Conference of the *European Association for Research in Industrial Economics* (EARIE). Valencia, Spain.
 - 2006-2007: Invitational *Choice Symposium*. The Wharton School. Philadelphia, June 2007; Econometric Society. North American Winter Meeting. Chicago. Jan., 2007; American Economic Association Winter Meeting. Chicago. January, 2007; ELSE-IFS Conference on Supermarkets (London, UK. December, 2006); Annual Conference of the Southern Economic Association (Charleston, SC, November 2006).
 - 2005-2006: Society of Economic Dynamics annual conference (Vancouver, July 2006); Econometric Society. North American Summer Meeting; Conference on Numerically Intensive Economic Policy Analysis. Queen's University. Kingston; International Conference on IO (Boston, April 2006); Econometric Society. North American Winter Meeting (Jan. 2005); Canadian Econometric Study Group. Vancouver (Oct. 2005).
 - 2004-2005: Econometric Society World Congress. London, England. (August, 2005); International Society of Inventory Research (ISIR) at the ASSA Meetings, Philadelphia, PA. (Jan. 2005).
 - 2003-2004: Stanford Summer Institute. Conference on "Structural Econometrics" Stanford (July, 2004);
 - 2002-2003: Society for Economic Dynamics, Annual Conference. Paris, France (June, 2003); Conference on “Lumpy Investment, Durable Purchases, and Technical Change.” Organized by Russell Cooper and Omar Licandro. FEDEA. Madrid. (June, 2003).
 - 2001-2002: Stanford Summer Institute. Conference on "Structural Econometric Modeling in Labor, Public Finance and Industrial Organization." Stanford (July, 2002); 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).
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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.

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 IO at Boston University. 2000-01 to 2005-06.
- Econometrics II (ECO 2401) at University of Toronto. 2006-07 to 2010-11.
- Econometrics for Master Students (ECO 2408) at University of Toronto. 2006-07, 2008-09.
- Industrial Organization II (ECO 2901) at University of Toronto. 2006-07 to 2010-11.

PHD THESIS SUPERVISION

<u>Student Name</u>	<u>My Role</u>	<u>University</u>	<u>Year</u>	<u>Current Position</u>
Hidenori Takahashi	Main Advisor	U. of Toronto	2014	(Expected)
Dimitrios Dimitropoulos	Main Advisor	U. of Toronto	2013	(Expected)
Nathan Yang	Main Advisor	U. of Toronto	2012	(Expected)
Arvind Magesan	Main Advisor	U. of Toronto	2010	Assistant Prof. U. of Calgary
Hui Wang	Main Advisor	U. of Toronto	2010	Assistant Prof. Beijing U.
Florian Hoffmann	Secondary Adv.	U. of Toronto	2010	Assistant Prof. U. of British Columbia
Fei Deng	Main Advisor	Boston U.	2006	Senior Assoc. NERA.
Gustavo Vicentini	Main Advisor	Boston U.	2006	Analysis Group.
Maria Laura Alzua	Main Advisor	Boston U.	2006	Associate Prof. U. de la Plata.
Justin Lenzo	Secondary Adv.	Boston U.	2006	Assistant Prof. Northwestern U.
Catherine Rodriguez	Secondary Adv.	Boston U.	2006	Assistant Prof. U. de los Andes
Kasey Buckles	Secondary Adv.	Boston U.	2005	Assistant Prof. Notre Dame
Zhongjun Qu	Secondary Adv.	Boston U.	2005	Assistant Prof. Boston U.
Martino De Stefano	Secondary Adv.	Boston U.	2004	Assoc. Principal. Charles River Assoc.
Minsoo Park	Secondary Adv.	Boston U.	2004	Assistant Prof. Korean Inst. of Ind.
Firat Inceoglu	Secondary Adv.	Boston U.	2004	Assistant Prof. Koc University
Alfredo Cuecuecha	Secondary Adv.	Boston U.	2004	Assistant Prof. ITAM
Ana Balsa	Secondary Adv.	Boston U.	2003	Assistant Prof. U. of Miami
Angela Dills	Secondary Adv.	Boston U.	2002	Assistant Prof. Clemson U.
Hsien-Ming Lien	Secondary Adv.	Boston U.	2002	Associate Prof. Nat. Cheng-Chi U.
Xiaokang Zhu	Secondary Adv.	Boston U.	2001	Sr. Researcher. Cornerstone Research
Jun Yu	Secondary Adv.	Western Ont.	1998	Professor. Singapore Management U.
George Jiang	Secondary Adv.	Western Ont.	1998	Professor. U. of Arizona

EXTERNAL EXAMINER OF PHD DISSERTATIONS

- Mahdiyeh Entezarkheir (Waterloo). Thesis Title: "Essays on Innovation, Patents, and Econometrics". July 2010.
- Cristina Lopez-Mayan (CEMFI). Thesis title: "Essays in Applied Microeconometrics Education Decisions and Demand for Utilities". September 2010.
- Bertel Schjernings (University of Copenhagen). Thesis title: "Dynamic Aspects of Entrepreneurial Behavior". April 2008.
- Graciela Sanroman (CEMFI). Thesis title: "Microeconomic Analysis of Household Portfolios". November 2008.

DEPARTMENT AND UNIVERSITY SERVICES

- Member of the Junior Recruiting Committee. Academic years 2006-07 to 2010-11.
- Member of the Graduate Committee: 2008-09 to 2010-11.
- Member of the MA and PhD Admissions Committee: 2009-10.
- 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.

REFeree ACTIVITIES

- Referee for: *American Economic Review; Econometrica; Econometrics Journal; Economic Journal; European Economic Review; International Economic Review; International Journal of Industrial Organization; IMF Staff Papers; Investigaciones Economicas; Journal of Applied Econometrics; Journal of Business and Economic Statistics; Journal of Econometrics; Journal of Economic Dynamics and Control; Journal of Economic Theory; Journal of Industrial Economics; Journal of Labor Economics; Journal of Political Economy; Rand Journal of Economics; Review of Economics and Statistics; Review of Economic Studies; 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.