

Robert A. Miller
Curriculum Vitae
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Education

1982 Ph.D., Economics, University of Chicago
1977 B. Ec., (First Class Honours), Australian National University

Honors

Fellow of the Econometric Society 2017
Carnegie Mellon Department of Economics Teaching Award 1991
Australian Public Service Scholarship 1977
Commonwealth Scholarship 1972-1976

Research and Teaching Interests

Applied Microeconomics
Strategy

Positions

2018 (spring quarter) Visiting Professor, Department of Economics, Northwestern University
2017 (fall semester) Visiting Professor, Department of Economics, University of Wisconsin
2016 (fall semester) Visiting Professor, Department of Economics, University of Pennsylvania
2012- Richard M. Cyert and Morris DeGroot Professor in Economics and
Statistics, Tepper School of Business, Carnegie Mellon University
1996- Professor of Economics and Strategy, TSB, Carnegie Mellon University
2004 Professor, Department of Economics, University of Essex
2000 (spring semester) Visiting Professor, Department of Economics, Yale University
1987-1996 Associate Professor of Economics, GSIA, Carnegie Mellon University
1982-1987 Assistant Professor of Economics, GSIA, Carnegie Mellon University
1977-1978 Tutor, Department of Economics, Australian National University

Publications

"How well does agency theory explain executive compensation?" with George-Levi Gayle and Chen Li, *Federal Reserve Bank of St Louis Review*, forthcoming.

"Promotion, turnover and compensation in the executive labor market," with George-Levi Gayle and Limor Golan, *Econometrica*, Vol. 83, No. 6, pp. 2293-2369, November 2015.

"Identifying and testing models of managerial compensation," with George-Levi Gayle, *The Review of Economic Studies*, Vol. 82, No. 3, pp. 1074-1119, July 2015.

"Gender differences in executive compensation and job mobility," with George-Levi Gayle and Limor Golan, *Journal of Labor Economics*, Vol. 30, No. 4, pp. 829-872, October 2012.

"Conditional choice probability estimation of dynamic models with unobserved heterogeneity," with Peter Arcidiacono, *Econometrica*, Vol. 79, No. 6, pp. 1823-1868, November 2011.

"Has moral hazard become a more important factor in managerial compensation?" with George-Levi Gayle, *American Economic Review*, Vol. 99, No. 5, pp. 1740-1769, December 2009.

"Insider information and performance pay," with George-Levi Gayle, *CEsifo Economic Studies*, Vol. 55, No. 3-4, pp. 515-541, May 2009.

"Estimating the gains from trade in limit-order markets," with Burton Hollifield, Patrik Sandas and Joshua Slive, *Journal of Finance*, Vol. 61, No. 6, pp. 2753-2804, December 2006.

"Empirical analysis of limit order markets," with Burton Hollifield and Patrik Sandas, *The Review of Economic Studies*, Vol. 71, No. 3, pp. 1027-1063, October 2004.

"Managerial compensation and the cost of moral hazard," with Mary Margiotta, *International Economic Review*, Vol. 41, No. 3, pp. 669-719, August 2000.

"The effect of work experience on female wages and labor supply," with Sumru Altug, *The Review of Economic Studies*, Vol. 65, No. 1, pp. 45-85, January 1998.

"A microeconomic comparison of household behavior between countries," with Holger Sieg, *Journal of Business and Economic Statistics*, Vol. 15, pp. 237-254, April 1997.

"Human capital development and welfare participation," with Seth Sanders, *Carnegie Rochester Conference Series on Public Policy*, Vol. 46, pp. 1-45, June 1997.

"Estimating models of dynamic optimization with microeconomic data," in *Handbook of Applied Econometrics*, M. Pesaran and P. Schmidt, editors, Basil Blackwell, Vol. 2, pp. 246-299, 1997.

"Plant objectives as revealed by shop floor activities," with Prasad Ramnath, *Journal of Operations Management*, Vol. 12, No. 4, 273-296, June 1995.

"New product pricing: the marketing of innovations," Chapter 5 in *Economic Approaches to Innovation*, edited by S. Dowrick, Edward Elgar, pp. 98-119, 1995.

"Transforming productivity in multinational manufacture using demand flow technology," with E. Kampouris, *Long Range Planning*, Vol. 27, No. 6, pp. 82-95, December 1994.

"A simulation estimator for dynamic models of discrete choice," with V. Joseph Hotz, Seth Sanders and Jeffrey Smith, *The Review of Economic Studies*, Vol. 61, No. 3, pp. 265-290, April 1994.

"What can panel data tell us about labour markets?" *Journal of Labour Economics and Productivity*, Vol. 5, No. 2, 165-180, September 1993.

"Conditional choice probabilities and the estimation of dynamic models," with V. Joseph Hotz, *The Review of Economic Studies*, Vol. 60, No. 3, pp. 497-531, July 1993.

"Labor supply with a minimum hours threshold: a comment," *Carnegie Rochester Conference Series on Public Policy*, Autumn 1990, Vol. 33, 169-180.

"Household choices in equilibrium," with Sumru Altug, *Econometrica*, Vol. 58, No. 3, pp. 543-570 May 1990.

"Innovation and reputation", *Journal of Political Economy*, Vol. 96, No. 4, pp. 741-765, August 1988.

"An empirical analysis of life cycle fertility and female labor supply," with V. Joseph Hotz, *Econometrica*, Vol. 56, No. 1, pp. 91-119, January 1988.

"Job matching and occupational choice," *Journal of Political Economy*, Vol. 92, No. 6, pp. 1086--1120, December 1984.

"A stochastic analysis of the tree paradigm," with Karl Voltaire, *Journal of Economic Dynamics and Control*, Vol. 6, No. 4, pp. 371-386, December 1983.

"Price control in a perfect foresight model of an extractive industry," *Resources and Energy*, Vol. 3, No. 3, pp. 259-283, November 1981.

"A sequential stochastic tree problem," with Karl Voltaire, *Economic Letters*, Vol. 5, No. 2, pp. 135-40, 1980.

"Resource extraction and anticipated demand shifts," with Michael Knoll and John Martin, *Economic Letters*, Vol. 6, No. 3, pp. 271-74, 1980.

"Optimal voting turnouts," (with H. Geoffrey Brennan), *Atlantic Economic Journal*, Vol. 8, No. 3, pp. 62-69, September 1979.

Working Papers

"[Bidding frictions in ascending auctions](#)," with Aaron Barkley and Joachim R. Groeger, February 2018.

"[Identifying dynamic discrete choice models off short panels](#)," with Peter Arcidiacono, September 2017.

"[Innovation and diffusion of medical treatment](#)" with Barton H. Hamilton, Andres Hincapie and Nicholas W. Papageorge, September 2017. Supplementary appendix: [The HAART movie](#)

"[Winning by default: why is there so little competition in government procurement?](#)" with Karam Kang, July 2017.

"[American dream delayed: shifting determinants of home ownership](#)," with Natalia Khorunzhina, May 2017.

"[Internal migration in dual labor markets](#)," with Joan Llull, December 2016.

"[Nonstationary dynamic models with finite dependence](#)," with Peter Arcidiacono, June 2016.

"[Was Sarbanes-Oxley costly: evidence from optimal contracting on CEO compensation](#)," with George-Levi Gayle and Chen Li, April 2016. [Supplementary appendix](#)

"[Interlocked executives and insider board members: an empirical analysis](#)" with George-Levi Gayle and Limor Golan, November 2015.

["Life cycle fertility and human capital accumulation,"](#) with George-Levi Gayle, August 2006.

Former Graduate Students

Kim Balls, Mary Margiotta, Prasad Ramnath, Rafael Mendible, Holger Seig, Fatih Guvenen, Mico MrKaic, Patrik Sandas, George Levi Gayle, Ari Kang, Natalia Khorunzhina, Chen Li, Aaron Barkley, Andres Hincapie.

Editorial Responsibilities

Associate Editor, European Economic Review 2003 – 2008.

Recent Grant Support

National Science Foundation Award SES0721098-NSF-MILLER: Applications of CCP Estimation to Dynamic Discrete Choice Models with Unobserved Heterogeneity, May 2007-July 2010.

Recent Invited Addresses and Lectures

Keynote Lecture, Empirical Microeconomics Workshop III at the The Banff Centre, hosted by University of Calgary Economics Department, August 20 - 22, 2016.

Invited Speaker at the Structural Microeconometrics Workshop in the Barcelona Graduate School of Economics Summer Forum, June 12, 2017.

Semi-Plenary Session on the Economics of Contracts, North American Econometric Society Summer Meeting, hosted by Washington University, June 15 -18, 2017.

Keynote Paper at Annual Health Econometrics Workshop, hosted by Washington University, September 29 - 30, 2017.

Recent Seminar and Conference Presentations

Simon School of Business, University of Rochester, March, 2012; Pennsylvania State University Economics Department, April 2012; Princeton University Economics Department, April 2012; Cowles Foundation, Yale University, June 2012; University of Pennsylvania Economics Department, September 2012; University of Western Ontario Economics Department, September 2012; Johns Hopkins Economics Department, March 2013, Vanderbilt Economics Department, April 2013; CEMFI Madrid, May 2013; Economics Department of Carlos III Madrid, May 2013; Autonomia Economics Department, Barcelona, May 2013; University of Toronto Economics Department, October 2013; Winter Conference for Business Economics, University of Utah, February, 2014; Georgetown University Economics Department, March 2014; University of Wisconsin Economics Department, May 2015; Barcelona Graduate School of Economics Summer Forum, June 2015; Federal Reserve Bank Minneapolis, August 2015, Federal Reserve Bank St. Louis, September 2015, Toulouse School of Economics, September 2015; City University Economics Department, September 2015; University College of London Economics Department, October 2015; London School of Economics, October 2015; University of Nottingham Economics Department, October 2015; Yale University Economics Department, October 2015; University of Pennsylvania Wharton School, April 2016; Barcelona Graduate School of Economics Summer Forum, June 2016; Federal Reserve Board, Washington D.C. September 2016; Arizona State Economics Department, October 2016; Stanford Graduate School of Business (empirical microeconomics workshop), October 2016; Stanford Graduate School of Business (accounting workshop), October 2016; Harvard Business School,

November 2016; University of Pennsylvania Economics Department, November 2016; Federal Reserve Bank New York, November 2016; K.U. Leuven Economics Department, Brussels, December 2016; Sydney University Economics Department, March 2017; University of New South Wales Economics Department, March 2017; University of Queensland Economics Department, March 2017; University of Melbourne Economics Department, March 2017; University of Melbourne Finance Department, March 2017; Australian National University Economics Department, March 2017; UCLA Economics Department, May 2017; California Institute of Technology Social Sciences Division May 2017, Cowles Summer Conference Yale University, June 2017; Conference on Implementation of Structural Dynamic Models, University College London, August, 2017; Texas A & M Economics Department, September 2017; Rice University Economics Department, September 2017; University of Houston Economics Department September 2017; Duke University Economics Department, November 2017; University of North Carolina, November 2017; University of Wisconsin Economics Department, November 2017; Theory and Inference in Capital Market Research Conference, Stanford University, December 2017.