

VITA

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ACADEMIC POSITIONS

- W. Glenn Campbell and Rita Ricardo-Campbell National Fellow, Hoover Institution, Stanford University, 2006-07
- Visiting Scholar, Federal Reserve Bank of Minneapolis, October 2006
- Assistant Professor, Department of Economics, Harvard University, since July 2004
- Visiting Scholar, Hoover Institution, Stanford University, 2001-04

OTHER POSITIONS

- Research Affiliate, Centre for Economic Policy Research (CEPR), since September 2005
- Associate Editor, International Journal of Industrial Organization, since June 2003
- Summer Intern, Federal Reserve Bank of Chicago, Department of Economic Research, 1997 and 1998

EDUCATION

- Ph.D., Economics, Northwestern University, Evanston, IL, 2001
- M.A., Economics, Northwestern University, Evanston, IL, 1998
- Diplom-Volkswirt, Humboldt Universität zu Berlin, Berlin, Germany, 1996

RESEARCH INTERESTS

- Industrial Organization
- Numerical Methods
- Game Theory
- Applied Econometrics

PUBLICATIONS

- “Rent Dissipation in R&D Races,” in Roberto Cellini and Luca Lambertini (eds), *The Economics of Innovation: Incentives, Cooperation, and R&D Policy*, 2008, Elsevier, Amsterdam
- “Advertising Dynamics and Competitive Advantage,” with Sarit Markovich, *Rand Journal of Economics*, Vol. 38, No. 3, 2007, pp. 557-592
- “A Framework for Applied Dynamic Analysis in IO,” with Ariel Pakes, in Mark Armstrong and Robert Porter (eds.), *Handbook of Industrial Organization*, Vol. 3, 2007, North-Holland, Amsterdam, pp. 1887-1966
- “Market Segmentation Strategies of Multiproduct Firms,” with Michaela Draganska, *Journal of Industrial Economics*, Vol. 54, No. 1, 2006, pp. 125-149
- “The Role of Permanent Income and Demographics in Black/White Differences in Wealth,” with Joseph Altonji, *Journal of Human Resources*, Vol. 40, No. 1, 2005, pp. 1-30
- “Measuring Returns to Scale in Nineteenth-Century French Industry,” *Explorations in Economic History*, Vol. 41, No. 3, 2004, pp. 256-281

- “Capacity Dynamics and Endogenous Asymmetries in Firm Size,” with David Besanko, *Rand Journal of Economics*, Vol. 35, No. 1, 2004, pp. 23-49
- “Innovations, Improvements, and the Optimal Adoption of New Technologies,” *Journal of Economic Dynamics and Control*, Vol. 28, No. 7, 2004, pp. 1461-1480
- “Communication and Voting with Double-Sided Information,” with Dino Gerardi and Francesco Squintani, *Contributions to Theoretical Economics*, Vol. 3, No. 1, 2003, Article 6
- “An R&D Race with Knowledge Accumulation,” *Rand Journal of Economics*, Vol. 34, No. 1, 2003, pp. 19-41
- “The Net Present Value Method versus the Option Value of Waiting: A Note on Farzin, Huisman & Kort (1998),” *Journal of Economic Dynamics and Control*, Vol. 25, No. 8, 2001, pp. 1109-1115
- “Black/White Differences in Wealth,” with Joseph Altonji and Lewis Segal, *Economic Perspectives*, Vol. 24, No. 1, 2000, pp. 38-50

WORKING PAPERS

- “Lumpy Capacity Investment and Disinvestment Dynamics,” with David Besanko, Lauren Lu, and Mark Satterthwaite, Harvard University, 2008, submitted to *Operations Research*
- “Avoiding the Curse of Dimensionality in Dynamic Stochastic Games,” with Kenneth Judd, Harvard University, 2008, submitted to *Rand Journal of Economics*
- “Learning-by-Doing, Organizational Forgetting, and Industry Dynamics,” with David Besanko, Yaroslav Kryukov, and Mark Satterthwaite, Harvard University, 2007, under revision at *Econometrica*
- “Can’t Buy Me Love: An Empirical Investigation of the Effect of Advertising on Brand Awareness and Perceived Quality using Panel Data,” with Robert Clark and Michaela Draganska, Harvard University, 2007, under revision at *Quantitative Marketing and Economics*
- “Avoiding Market Dominance: Product Compatibility in Markets with Network Effects,” with Jiawei Chen and Joseph Harrington, Harvard University, 2007, submitted to *Rand Journal of Economics*
- “Computable Markov-Perfect Industry Dynamics: Existence, Purification, and Multiplicity,” with Mark Satterthwaite, Harvard University, 2007, under revision at *Rand Journal of Economics*
- “R&D and Productivity: Estimating Production Functions when Productivity is Endogenous,” with Jordi Jaumandreu, Harvard University, 2007, submitted to *Review of Economic Studies*
- “Dynamic Stochastic Games with Sequential State-to-State Transitions,” with Kenneth Judd, Harvard University, 2007
- “A User’s Guide to Solving Dynamic Stochastic Games Using the Homotopy Method,” with Ron Borkovsky and Yaroslav Kryukov, Harvard University, 2008, submitted to *Operations Research*
- “A Theory of Regular Markov Perfect Equilibria in Dynamic Stochastic Games: Genericity, Stability, and Purification,” with Juan Escobar, Harvard University 2008, submitted to *Econometrica*

FELLOWSHIPS AND AWARDS

- NSF Grant No. SES-0617896, “Economic Impacts of Technological Innovations in Product Availability,” with Julie Mortimer, 2006-2009

- NSF Grant No. SES-0615615, “Collaborative Research on Dynamic Antitrust Policy: Predatory and Limit Pricing in a Model of Learning-by-Doing and Organizational Forgetting,” with David Besanko, 2006-2008
- Clark Fund, Harvard University, 2004
- EARIE Young Economists' Essay Award, 2002
- Dissertation Research Fellowship, Center for the Study of Industrial Organization, Northwestern University, Winter 2000-01
- University Fellowship, Northwestern University, 1996-97
- Best Graduate Award, Humboldt-Universität zu Berlin, 1996

COURSES TAUGHT

- Industrial Organization: Theory and Applications (EC1640/1641), undergraduate program, Harvard University, Fall 2005-06, Fall 2007-08
- Computational Economics (EC2149), Ph.D. program, Harvard University, Fall 2004-05, Fall 2005-06, Fall 2007-08

INVITED TALKS

- 2008: University of Virginia
- 2007: Duke, USC, UNC, UW Madison, Federal Reserve Bank of San Francisco, NBER
- 2006: UC Berkeley, UC Santa Cruz, UC Irvine, Hoover Institution, Federal Reserve Bank of Minneapolis, Harvard University, LSE, Universität Bonn
- 2005: Duke, HEC, BLS
- 2004: UC Santa Cruz, Harvard University, UT Austin, University of British Columbia, University of Pennsylvania, Yale University, Northwestern University (Kellogg), UC Berkeley (Haas), UW Madison, UC Davis, Stanford University (Management Science and Engineering)
- 2003: Stanford University (GSB), University of Pennsylvania, Universität Bonn, University of British Columbia, Texas A&M, Oregon State University, Johann Wolfgang Goethe-Universität Frankfurt, Universität Mannheim
- 2002: Stanford University, Stanford University (GSB), Ludwig-Maximilians-Universität München, Humboldt Universität zu Berlin, Freie Universität Berlin
- 2001: Carnegie Mellon University (GSIA), Humboldt Universität zu Berlin
- 2000: Northwestern University, University of Toronto (Rotman), University of Florida, Washington University (Olin)
- 1999: Federal Reserve Bank of Chicago

CONFERENCE PRESENTATIONS

- Innovation and Globalization, Madrid, Spain, May 2007
- Conference on Dynamic Models of Industry Evolution, Toronto, Canada, May 2007
- 3. Weihnachtstreffen deutscher Wirtschaftswissenschaftler im Ausland, Munich, Germany, December 2006
- NBER Summer Institute, Cambridge, July 2006
- North American Winter Meetings of the Econometric Society, Boston, January 2006
- Informs Annual Meeting, San Francisco, November 2005
- 4th Annual Duke/Northwestern/Texas Industrial Organization Theory Conference, UT Austin, November 2005
- EARIE, Porto, Portugal, September 2005
- Econometric Society World Congress, London, UK, August 2005

- 11th International Conference of the Society for Computational Economics, George Washington University, June 2005
- CRES Industrial Organization Conference, Washington University, June 2005
- 6th CEPR Conference on Applied Industrial Organization, Munich, Germany, May 2005
- North American Winter Meetings of the Econometric Society, Philadelphia, January 2005
- Quantitative Marketing and Economics Conference, Harvard University, November 2004
- EARIE, Berlin, Germany, September 2004
- SITE, Stanford University, July 2004
- 10th International Conference of the Society for Computational Economics, Amsterdam, Netherlands, July 2004
- Society for Economic Dynamics 2004 Annual Meeting, Florence, Italy, July 2004
- 6th INRA-IDEI Conference on Industrial Organization and the Food-processing Industry, Toulouse, France, May 2004
- International Industrial Organization Conference, Northwestern University, April 2004
- Workshop on the Economics of Information and Network Industries, Kiel, Germany, August 2003
- EARIE, Helsinki, Finland, August 2003
- 5th EURO/INFORMS Joint International Meeting, Istanbul, Turkey, July 2003
- North American Summer Meetings of the Econometric Society, Northwestern University, June 2003
- Midwest Economic Theory Conference, University of Pittsburgh, May 2003
- International Industrial Organization Conference, Northeastern University, April 2003
- North American Winter Meetings of the Econometric Society, Washington, D.C., January 2003
- Clarence W. Tow Conference on Computational Economics, University of Iowa, June 2002
- North American Summer Meetings of the Econometric Society, UCLA, June 2002
- 8th International Conference of the Society for Computational Economics, Aix-en-Provence, France, June 2002
- EARIE, Madrid, Spain, September 2002
- Stanford-Berkeley IO Fest, Stanford University, October 2002
- 11th WZB Conference on Industrial Organization “Innovation Policy in International Markets,” Berlin, Germany, October 2002
- North American Summer Meetings of the Econometric Society, University of Maryland, June 2001
- 7th International Conference of the Society for Computational Economics, Yale University, June 2001

PROFESSIONAL ACTIVITIES

- Referee: American Economic Review, Applied Stochastic Models in Business and Industry, Austrian Science Fund, Econometrica, Economic Theory, European Journal of Operational Research, International Economic Review, International Game Theory Review, International Journal of Industrial Organization, Israel Science Foundation, Journal of Economic Dynamics and Control, Journal of Economic Theory, Journal of Economics and Management Strategy, Journal of Environmental Economics and Management, Journal of Industrial Economics, Journal of the European Economic Association, Management Science, Manchester School, National Science Foundation, Netherlands Organization for Scientific Research, Operations Research, Quarterly

Journal of Economics, Rand Journal of Economics, Review of Economic Dynamics, Review of Economic Studies, Review of Industrial Organization, Southern Economic Journal

- Member: American Economic Association, Econometric Society, European Association for Research in Industrial Economics, Industrial Organization Society, Society for Computational Economics, International Society of Dynamic Games