

CURRICULUM VITAE

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NAME: Robin C. Sickles

ADDRESS: Department of Economics
Rice University
6100 South Main Street
Houston, Texas 77005-1892
(713) 348-3322 (Direct)
(713) 348-4875 (Department)
(713) 348-5278 (Fax)
rsickles@rice.edu
<http://www.ruf.rice.edu/~rsickles/>

EDUCATION: Ph.D. (Economics), University of North Carolina, Chapel Hill, 1976
B.S. (Economics), Georgia Institute of Technology, 1972.

DISSERTATION TITLE:

"The Estimation of Single and Simultaneous Equation Models
Containing Truncated Endogenous Variables."
(Dissertation Chairman: Peter Schmidt)

ACADEMIC/PROFESSIONAL EXPERIENCE:

July 2011- Director of Graduate Studies, Rice University Department of Economics
July 2010 Visiting Fellow, Hausdorff Research Institute for Mathematics, University Bonn, Germany
2008- Reginald Henry Hargrove Chair in Economics
2008- Director, Accumyn, LLC
2005 Visiting Fellow, Institut de Statistique, Universite Catholique de Louvain
2003- Editor-in-Chief, *Journal of Productivity Analysis*
2002-2007 Director, LECG, LLC
2000-2005 Director of Graduate Studies, Rice University Department of Economics
1999-2002 Director, Center for Institutions and Values, Rice University
Spring/Summer 1999 Visiting Professor of Pure and Applied Mathematics, Institut de

August 1997	Statistique, Universite Catholique de Louvain
October 1995	Visiting Fellow, Wissenschaftszentrum Berlin (WZB)
	Visiting Fellow, Institut de Statistique, Universite Catholique de Louvain
August 1995	Visiting Fellow, Wissenschaftszentrum Berlin (WZB)
July 1994-	Adjunct Professor of Medicine, Baylor College of Medicine
October 1993	Visiting Fellow, Institut de Statistique, Universite Catholique de Louvain
June 1993	Visiting Scholar, Board of Governors of the Federal Reserve System, Washington, D.C.
June 1993-	President, Analytic Resources, Inc.
1992-1993	Adjunct Visiting Professor, European Institute of Business Administration (INSEAD)
1992	Visiting Scholar, University of Michigan
January-	
February 1992	Visiting Fellow, C.O.R.E., Universite Catholique de Louvain
Fall 1989	Research Fellow of the C.V. Starr Center for Applied Economics, New York University
Summer 1987-	Professor, Department of Economics, Rice University
Summer 1985-	Associate Professor, Department of Economics, Rice University
Spring 1987	
1982-1994	Faculty Research Fellow, National Bureau of Economic Research (Productivity and R&D; Health Economics)
Summer 1980-	
Spring 1985	Assistant Professor, Department of Economics, University of Pennsylvania
Fall 1979-	
Spring 1985	Adjunct Faculty, Fels School of Public and Urban Policy, University of Pennsylvania
Fall 1979-	
Spring 1980	Visiting Lecturer, Department of Economics, University of Pennsylvania
Summer 1979	Visiting Assistant Professor, Department of Economics, University of North Carolina, Chapel Hill
Fall 1976-	
Summer 1979	Assistant Professor, Department of Economics, George Washington University
Spring 1976	Consultant, Research Triangle Park, Durham, North Carolina
Fall 1972-	
Spring 1976	Research Assistant and Teaching Assistant, Department of Economics, University of North Carolina, Chapel Hill
Fall 1971-	
Spring 1972	Grader, Teaching Assistant, Department of Economics, Georgia Institute of Technology

Fall 1967-
Spring 1970

Co-op Student-Martin Marietta Corporation, Quality
Control/Antiballistic Missile System Section

RICE UNIVERSITY/PROFESSIONAL SERVICE AND AWARDS

Search Committee for the Rice University Dean of Social Sciences, 1987; University Research Computing Planning Committee, 1990; Economics Department Graduate Placement Officer, 1985-; Baker College Faculty Associate, 1995-; Fellow of the *Handbook in Economics*, North-Holland, 1996; Winner of the Rice University Graduate Student Association Mentoring Award, 1998; Nobel Prize for Economic Sciences Nominating Committee 1999-2002; Chair of the Rice University Athletic Committee, 1999-2005; Rice University Committee on Examinations and Standings 2004-2005; Rice University Committee on Tenure and Promotions 2005-2006; Rice University Environmental Steering Committee, 1999-2002; Winner of the Rice University Outstanding Faculty Associate of Baker College, 2002; *Who's Who in Economics'*, 4th edition, by Blaug and Vane, Edward Elgar (2003). *Journal of Econometrics* All Star Papers for 1989-1999 ("Production Frontiers With Cross-Sectional And Time-Series Variation In Efficiency Levels," with C. Cornwell, and P. Schmidt); *Marquis Who's Who in America*; *Academic Keys Who's Who in Social Sciences Higher Education*; *Marquis Who's Who in the World*; Fellow of the *Journal of Econometrics*; Treasurer (elected position by the membership of the ASA) of the Business and Economics Section of the American Statistical Association, 2007-2008; top 100 econometricians in the world ranked by the number of all econometric articles, 1989-2005 in *WORLDWIDE ECONOMETRICS RANKINGS: 1989-2005* (Badi H. Baltagi, *Econometric Theory*, 2008); Winner of the Rice University Outstanding Faculty Associate of Baker College, 2008; Rice University Athletic Committee 2008-; Faculty Senator for the School of Social Sciences 2009-; Executive Committee of the Faculty Senate 2010-; Nobel Prize for Economic Sciences Nominating Committee 2010-. Director of Graduate Studies- Department of Economics 2011-.

EDITORIAL EXPERIENCE:

EDITOR-IN-CHIEF:

Journal of Productivity Analysis, 2002-

ASSOCIATE EDITOR:

Journal of Applied Econometrics, 1988-1992.

Journal of Productivity Analysis, 1988-2002.

Communications in Statistics, Theory and Methods, Marcel Dekker, 1995-2007.

Southern Economic Journal, 1996-1999.

Journal of Business and Economic Statistics, 1998-2007.

Journal of Econometrics, 2000-

Empirical Economics, 2000-

REFEREE

I serve as a referee for a large number of professional journals and publishers.

CURRENT RESEARCH:

Applied Econometrics; Productivity; Empirical Industrial Organization; Panel Data Econometrics.

TEACHING EXPERIENCE:

Advanced Econometric Theory; Advanced Topics in Micro-Econometrics; Econometrics of Production; Advanced Mathematical Statistics; Undergraduate Statistics, Econometrics, Micro and Macroeconomics; Managerial Economics.

RESEARCH GRANTS AND CONTRACTS:

Investigator, National Science Foundation Grant DAR 78-09873, "The Effects of Government Regulation on Consumer Credit Markets," with J. Barth, J. Cordes, S. Neftci, and A. Yezer, 1978.

Investigator, National Science Foundation Grant SES 99-26717, "Estimating Technical and Allocative Inefficiency Relative to Stochastic Transformation and Profit Frontiers," with C.A.K. Lovell and P. Schmidt, 1980.

Principal Investigator, National Science Foundation Grant DAR 80-12982, "Estimation of Specific Factor Productivity and Efficiency for the U.S. Airlines: 1968-1979," 1980.

Research Associate, National Bureau of Economic Research Grant No. 2630, "Socioeconomic Aspects of Mortality," with P. Taubman, 1982.

Co-Principal Investigator, National Science Foundation Grant SES 84-09047, "Specification and Estimation of Multiproduct Technologies: An Application to Indian Agriculture," with J.R. Behrman, C.A.K. Lovell, and R.A. Pollak, 1984.

Investigator, National Institutes of Health Grant 1-RO1-AG-05384-01, "Medicare and Shifts in Survivor Functions for the Aged," with J. Behrman

and P. Taubman, 1986.

Investigator, Veterans Administration Health Services Research and Development Field Program, with N. Wray, C. Ashton, et al., 1990.

Consultant, Logistics Management Institute and National Aeronautics and Space Administration Contract # NAS2-14361, "System Analysis Capability (ASAC) Air Carrier Investment Model," with D. Good, 1993-1997.

Investigator, Center for International Political Economy and the James A. Baker III Institute for Public Policy, "Dynamic Modeling of Optimal Production Decisions In the Middle East," with P. Hartley, 1996.

Investigator, Center for International Political Economy and the James A. Baker III Institute for Public Policy, "Dynamic Modeling of Optimal Production Decisions and Demand Conditions in Central Asia and the Caucasus," 1997.

Investigator, Center for International Political Economy and the James A. Baker III Institute for Public Policy, "Accounting for Environmental Factors in the Development Process: Implications for Chinese Growth and Composition of Energy Needs in the 21st Century, 1998.

Investigator, Center for International Political Economy and the James A. Baker III Institute for Public Policy, "Uncertainty and the Role of Seismic Calamities in Japanese Nuclear Power Production," 1999.

Senior Research Coordinator, Development Economic Policy Reform Analysis Project, USAID/Egyptian Ministry of Economy, Contract No. 263-0233-C-00-96-00001-00.

Investigator, U. S. Department of Labor, Bureau of Labor Statistics, "On an Integrated Treatment of Airline Transportation Quality: Implications for Measurement of the Consumer Price Index," 1999.

Investigator, James A. Baker III Institute for Public Policy, "Convergence, Regulatory Distortions, Deregulatory Dynamics and The Recent Growth Experiences of Economies in Brazil and Latin America: Hope for the Future?," 2001.

Investigator, James A. Baker III Institute for Public Policy, "A Study of Productivity and Efficiency in the Mexican Energy Industry: The Case of PEMEX," 2004.

Investigator, U. S. Department of Labor, Bureau of Labor Statistics, "A Comparison of Alternative Measurements of Depreciation for Commercial Aircraft," 2004.

CONFERENCES ORGANIZED

Texas Camp Econometrics II, February 1997, Port Royal Ocean Resort

Mustang Istand, Port Aransas, TX.

Texas Camp Econometrics VI, February 2002, Port Royal Ocean Resort
Mustang Istand, Port Aransas, TX.

<http://www.ruf.rice.edu/~tec/>

April 22-23, 2006 Conference on "The Use of Econometrics in Informing Public Policy Makers," co-sponsored by the Baker Institute. The conference hosted 24 leading scholars and included 16 presentations of papers under consideration for a *Special Annals Issue of the Journal of Econometrics*, edited by Robin Sickles and Jennifer Williams.

<http://cohesion.rice.edu/conferences/econometrics/>

Texas Camp Econometrics XI, February 2007, South Shore Harbour, Texas.

North American Productivity Workshop VI, 2010, June 2-5, Rice University.

<http://economics.rice.edu/~napw2010/>

PUBLICATIONS:

"On the Efficiency of the Almon Lag Technique," with P. Schmidt, *International Economic Review* 16, 1975, 792-795.

"Some Further Evidence on the Use of the Chow Test Under Heteroskedasticity," with P. Schmidt, *Econometrica* 46, 1977, 1293-1298.

"Simultaneous Equations Models With Truncated Dependent Variables: A Simultaneous Tobit Model," with P. Schmidt, *Journal of Economics and Business* 30, 1978, 11-21.

"An Analysis of Time Sentenced After Release From Prison," with P. Schmidt and A. Witte, in *Proceedings of the Criminal Justice Statistics Association*, Minneapolis, Minn., August, 1978.

"An Application of the Simultaneous Tobit Model: A Study of the Determinants of Criminal Recidivism," with P. Schmidt and A. Witte, *Journal of Economics and Business* 31, 1979, 166-171.

"A Random Coefficient Probit Model With an Application to a Study of Migration," with J. Akin and D.K. Guilkey, *Journal of Econometrics* 11, 1979, 233-246.

"Short-and Long-Run Effects of Minimum Wages on the Distribution of Earnings, (with J. Behrman and P. Taubman), *Report of the Minimum Wage Study Commission, Volume VII: Effects of the Minimum Wage on the Distribution of Income*, Washington: Government Printing Office, 1981, 63-111.

"Assessing the Impact of Varying Economic Conditions on Federal Reserve Behavior,"

with J. Barth and P. Wiest, *Journal of Macroeconomics* 4, 1982, 47-70.

"Testing Efficiency Hypotheses in Joint Production: A Parametric Approach," with C.A.K. Lovell, *Review of Economics and Statistics* 65, 1983, 51-58.

"A Comparison of the Performance of Three Flexible Functional Forms," with D.K. Guilkey and C.A.K. Lovell, *International Economic Review* 24, 1983, 591-616.

"The Impact of Minimum Wages on the Distributions of Earnings for Major Race-Sex Groups: A Dynamic Analysis," with J. Behrman and P. Taubman, *American Economic Review* 73, 1983, 766-778.

"Production and Final Demand Price Determination Within a Singular Equation System of Relative Prices," with S. Thurman, *Journal of Policy Modeling* 5, 1983, 125-148.

"Production Frontiers and Panel Data," with P. Schmidt, *Journal of Business and Economic Statistics* 2, 1984, 367-374.

"The CES-translog: Specification and Estimation of a New Cost Function," with R. Pollak and T. Wales, *Review of Economics and Statistics* 67, 1984, 602-607.

"A Nonlinear Multivariate Error Components Analysis of Technology and Specific Factor Productivity Growth with an Application to the U.S. Airlines," *Journal of Econometrics* 27, 1985, 61-78.

"An Analysis of Youth Crime and Employment Patterns," with D. Good and M. Pirog-Good, *Journal of Quantitative Criminology* 2, 1986, 219-235.

"An Analysis of the Health and Retirement Status of the Elderly," with P. Taubman, *Econometrica* 54, 1986, 1339-1356.

"Allocative Distortions and the Regulatory Transition of the U.S. Airline Industry," with D. Good and R. Johnson, *Journal of Econometrics* 33, 1986, 143-163.

"Union Wage, Hours and Earnings Differentials in the Construction Industry," with J. Perloff, *Journal of Labor Economics* 5, 1987, 174-210.

"Allocative Inefficiency in the U.S. Airlines: A Case for Deregulation," in *Studies in Productivity Analysis*, Vol. 7, edited by Ali Dogramaci, Boston: Kluwer-Nijhoff, 1987, 149-162.

"Age Specific Death Rates," with J. Behrman and P. Taubman, in *Issues in Contemporary Retirement*, edited by E. Lazear and Ricardo-Campbell. Stanford: Hoover Institution Press, March, 1988, 162-190.

"The Effect of Unionization on Labor Productivity: Some Additional Evidence," with

C.A.K. Lovell and R. Warren, *Journal of Labor Research*, 9, 1988, 55-63.

"Testing for Aggregation Bias in Efficiency Measurement," with C. A. Knox Lovell, in *Measurement in Economics: Theory and Applications of Economic Indices*, edited by W. Eichhorn, Wurzburg and Vienna: Physica-Verlag, 1988, 187-206.

"Productivity in the Natural Gas Transmission Industry: Evidence on the Impact of the Natural Gas Policy Act," with Mary Streitwieser, in *Competition, Profitability, and Policy in the Energy Industry*, Proceedings of the Tenth American Conference of the International Association for Energy Economics, 1988.

"An Analysis of Simultaneous Limited Dependent Variable Models and Some Nonstandard Cases," in *Advances in Statistical Analysis and Statistical Computing, Theory and Applications*, Vol. 2, edited by Roberto Mariano, Greenwich: JAI Press, Inc., 1989, 85-122.

"Technology Transfer and Diffusion in Developing Agricultural Sectors," with M. Nerlove and S. Vosti, in *Methodology in Socioeconomic Evaluation of Agricultural Research*, EMPRAPA, Brazil, 1989.

"Finite Sample Properties of Stochastic Frontier Models Using Panel Data," with Byeong-Ho Gong, *Journal of Productivity Analysis* 1, 1989, 229-261.

"Survivor Functions with Covariates: Sensitivity to Sample Length, Functional Form and Unobserved Frailty," with J. Behrman and P. Taubman, *Demography*, 27, 1990, 267-284.

"Production Frontiers with Cross-Sectional and Time Series Variation in Efficiency Levels," with C. Cornwell and P. Schmidt, *Journal of Econometrics* 46, 1990, 185-200.

"XploR-ing the World of Nonparametric Analysis," with Pin Ng, *Journal of Applied Econometrics, Software Reviews*, 5, 1990.

"A Profile of Illegal Drug Users," with Paul Taubman, *American Economic Review* 81, 1991, 248-251.

"The Structure of Production and Technical Change in a Multiproduct Firm: An Application to U. S. Airlines," with D. Good and M. Ishaq Nadiri, *National Bureau of Economic Research Working Paper No. 3939*, Cambridge, 1991.

"A Comparison Between Stochastic Frontier and Data Envelopment Methods Using Panel Data," with Byeong-Ho Gong, *Journal of Econometrics* 51, 1992, 259-284.

"Black-White Differentials in Mortality: Results from the Retirement History Survey," with J. Behrman, P. Taubman, and A. Yazbeck, *Journal of Econometrics* 50, 1992, 183-204.

"The CET-CES-Generalized Leontief Profit Function: An Application to Indian Agriculture," with J. Behrman, C.A.K. Lovell and R.A. Pollak, *Oxford Economic Papers* 44, 1992. 341-354.

"Technical Inefficiency and Productive Decline in the U.S. Interstate Natural Gas Pipeline Industry Under the U.S. Interstate Natural Gas Policy Act," with M. Streitwieser, *Journal of Productivity Analysis*, special issue edited by A. Lewin and C.A.K. Lovell, 3, 1992, 115-130; reprinted in *International Applications for Productivity and Efficiency Analysis*, edited by Thomas R. Gullledge, Jr. and C.A. Knox Lovell, Boston: Kluwer Academic, 1992.

"Efficiency and Productivity Growth Comparisons of European and U.S. Air Carriers: A First Look at the Data," with D. Good, M.I. Nadiri, and Lars-Hendrik Roller, *Journal of Productivity Analysis* 4, special issue edited by J. Mairesse and Z. Griliches, 1993, 115-125.

"U.S. Airline Deregulation: Implications for European Transport," with David H. Good and Lars-Hendrik Roller, *Economic Journal* 103, 1993, 1028-1041. Reprinted in *Recent Developments in Transport Economics*, edited by Kenneth Button, Northampton, MA: Edward Elgar Publishing, 2003.

"EC Integration and the Structure of the Franco-American Airline Industries: Implications for Efficiency and Welfare," with D. Good and H. Roller, in *Models and Measurement of Welfare and Inequity*, edited by W. Eichhorn, Heidelberg: Physica-Verlag, 1994, 643-665.

"Changes in VA Hospital Use Since 1980: Unanswered Question," with C. Ashton, T. Weiss, N. Petersen, N. Wray, and T. Menke, *Medical Care* 32, 1994, 447-458.

"Product Diversification, Economies of Scope, and Risk Avoidance: An Application to Indian Agriculture," with M. Ballivian, *Journal of Productivity Analysis* 5, 1994, 271-286.

"Estimation of the Duration Model by Nonparametric Maximum Likelihood, Maximum Penalized Likelihood and Probability Simulators," with K. Huh, *Review of Economics and Statistics* 75, 1994, 683-694.

"Airline Efficiency Differences Between Europe and the U.S.: Implications for the Pace of E.C. Integration and Domestic Regulation," with David H. Good and Lars-Hendrik Roller, *European Journal of Operational Research* 80, 1995, 508-518.

"Estimation of the Duration Model by Maximum Penalized Likelihood," with A. Postert and K. Huh, *Journal of the American Statistical Association, Papers and Proceedings*, 1995, 11-20.

"Index Number and Factor Demand Approaches to the Estimation of Productivity,"

Chapter 1 of the *Handbook of Applied Economics, Volume II-Microeconometrics*, with D. Good and M. I. Nadiri, edited by M. H. Pesaran and P. Schmidt, Oxford: Basil Blackwell, 1997, 14-80, reprinted as *National Bureau of Economic Research Working Paper # 5790*, 1996, Cambridge, MA.

"Competition and Efficiency in the European Airline Industry: 1976-1990," with P. Captain, *Managerial and Decision Economics*, 18, 1997, 209-225.

"Computation and Inference in Semiparametric Efficient Estimation," with R. Adams and A. Berger, *Computational Approaches to Economic Problems, Advances in Computational Economics*, edited by Hans Amman, Berc Rustem and Andrew Whinston, Boston: Kluwer Academic, 1997, 57-70.

"Mortality and Morbidity Among Adults and the Elderly," Chapter 16 of the *Handbook of Population and Family Economics*, with Paul Taubman, edited by Mark R. Rosenzweig and Oded Stark, Amsterdam: North-Holland, 1997, 559-643.

"The Relationship Between Stock Market Returns and Technical Efficiency Innovations: Evidence from the US Airline Industry," with Ila M. Semenick Alam, *Journal of Productivity Analysis*, 9, 1998, 35-51.

"Stochastic Panel Frontiers: A Semiparametric Approach," with Byeong Park and Leopold Simar, *Journal of Econometrics*, 84, 273-301, 1998.

"Maximum Penalized Likelihood Estimation of Mixed Proportional Hazard Models," with K. Huh and A. K. Postert, *Communications in Statistics: Theory and Methods*, 27, 1998, 2143-2164.

"On the Dynamics of Demand for Leisure and Production of Health: Evidence from the Retirement History Survey," with Abdo S. Yazbeck, *Journal of Business and Economic Statistics*, 1998, 16, 187-197.

"The Structure of Technology, Substitution and Productivity in the Interstate Natural Gas Transmission Industry Under the Natural Gas Policy Act of 1978," with M. Streitwieser, *Journal of Applied Econometrics*, 13, 1998, 377-395.

"Assessing the Relative Efficiency of Asian and North American Airline Firms," with D. Good, and S. Ahn, *Economic Efficiency and Productivity Growth in the Asia Pacific Region*, Chapter 4, Tsu-tan Fu, Cliff J. Huang, C. A. K. Lovell (eds.), UK: Edward Elgar Publishing Limited, 1998, 65-89.

"Air Liberalization: the Record in Europe," with A. Postert, *Taking Stock of Air Liberalization*, Chapter 3, M. Gaudry and R. Mayes (ed.), Boston: Kluwer Academic, 1998, 39-59.

"A Model of World Aircraft Demand," with D. Good, A. K. Postert, and L. Getachew,

Proceedings of the 25th International Air Transport Conference, Austin, Texas, 1998.

“Causes and Consequences of Expert Disagreement: Methodological Lessons From the U.S. V. AT&T Debate,” with C. A. K. Lovell, in *The Role of the Academic Economist in Litigation Support*, Amsterdam: North-Holland, 1999, 189-206.

“Semiparametric Approaches to Stochastic Panel Frontiers with Applications to the Banking Industry,” with Robert M. Adams and Alan Berger, *Journal of Business and Economic Statistics*, 17, 1999, 349-358.

“Technology Adoption and Efficiency,” with P. Hultberg, and M. Ishaq Nadiri, *Annales d’Economie et de Statistique, Special Issue on the Econometrics of Panel Data*, 55-56, 1999, 449-474.

“A Time Series Analysis of Deregulatory Dynamics and Technical Efficiency: The Case of the U. S. Airline Industry,” with Ila M. Semenick Alam, *International Economic Review*, 41, 2000, 203-218.

“Capacity and Product Market Competition: Measuring Market Power in a ‘Puppy-Dog’ Industry,” with Lars-Hendrik Röller, *International Journal of Industrial Organization*, 18, 2000, 845-865.

“Estimation of Long-Run Inefficiency Levels: a Dynamic Frontier Approach, with S. Ahn and D. Good, *Econometric Reviews*, 19, 2000, 461-492.

“On ‘Productivity of the U. S. Agricultural Sector: the Case of Undesirable Outputs by Ball, Fare, Grosskopf, and Nehring’,” *New Directions in Productivity Analysis*, Chicago: University of Chicago Press for the NBER, C. Hulten, E. Dean, and M. Harper, (eds.), 2001, 577-585.

“Time Series Analysis of Strategic Pricing Behavior in the US Airline Industry,” with I. Semenick Alam and L. Ross, *Journal of Productivity Analysis*, 16, 2001, 49-62.

“Municipal Water Demand Estimation: Evaluation of the Stone-Geary Form Using Panel Data,” with S. Gaudin Hultberg and R. Griffin, *Land Economics*, 77, 2001, 399-422.

“A Model of Optimal Dynamic Extraction from a Large Middle Eastern Field,” with P. Hartley, *Journal of Productivity Analysis*, 2001, 15, 59-71.

“Convergent Economies: Implications For World Energy Use,” with P. Hultberg, in *Unlocking the Assets: Energy and the Future of Central Asia and the Caucasus: A Political, Economic, and Cultural Analysis*, Y. Kalyuzhnova, A. Jaffe, D. Lynch, R. Sickles (ed.), Hampshire: Palgrave (2001), 169-192.

“An Analysis of the Crime as Work Model: Evidence from the 1958 Philadelphia Birth Cohort Study,” with J. Williams, *Journal of Human Resources*, 37 (2002): 479-509.

“Specification of Distance Functions Using Semi-and Nonparametric Methods With An Application to the Dynamic Performance of Eastern and Western European Air Carriers,” with L. Getachew and D. Good, *Journal of Productivity Analysis, Special Issue in Honor of W. W. Cooper*, (2002): 133-155.

“An Analysis of Market Power in the U. S. Airline Industry, with J. Perloff and J. Weiher,” in *Measuring Market Power*, edited by D. Slottje, Amsterdam: North-Holland, 2003, 309-323.

“Semiparametric Efficient Estimation of Panel Models with AR(1) Errors,” with B. Park, and L. Simar, *Journal of Econometrics*, 117, 2003, 279-309.

“Semi-and Nonparametric Measurement of Productivity in Federal Reserve Payment Processing,” with R. Adams and P. Bauer, *Journal of Money, Credit, and Banking*, 36, 943-958, 2004.

“Heterogeneous Rates of Catch-Up in Manufacturing Industries,” with M. I. Nadiri and P. Hultberg, *Empirical Economics*, 29, 753-768, 2004.

“The Role of Environmental Factors in Growth Accounting,” with B. Jeon, *Journal of Applied Econometrics*, 19, 567-591, 2004.

“Functional Data Analysis and Mixed Effect Models,” with Alois Kneip and Wonho Song, *COMPSTAT 2004-Proceedings in Computational Statistics*, J. Anoch (ed.), Springer Verlag, New York, 315-326, 2004.

“Panel Estimators and the Identification of Firm-Specific Efficiency Levels in Semi-Parametric and Non-Parametric Settings,” *Journal of Econometrics*, 126, 305-324, 2005.

"An Intertemporal Model of Rational Criminal Choice," with J. Williams, *Panel Data Econometrics: Theoretical Contributions and Empirical Applications*, Badi H. Baltagi, editor, Elsevier Science, Amsterdam, 135-166, 2006.

“Evaluation of Damages Claims in a Trade Secrets Case,” with Ashok Ayyar, Chapter 17 in *Economic Damages in Intellectual Property: A Hands-on Guide to Litigation*, edited by Daniel Slottje, John Wiley & Sons, Inc., New Jersey, 2006.

“Semiparametric Efficient Estimation of Dynamic Panel Data Models,” with B. Park and L. Simar, *Journal of Econometrics*, 136, 281-301, 2007.

“Allocative Distortions and Technical Efficiency Change in Egypt’s Private Sector Manufacturing Industries: 1987-1996,” with Lullit Getachew, *Journal of Applied Econometrics*, 22, 703-728, 2007.

“Productivity ? of U . S. Airlines After Deregulation,” with S. Grosskopf and R. Fare, the

Journal of Transport Economics and Policy, 41, 93-112, 2007.

“What if the European Airline Industry had Deregulated in 1979?: A Counterfactual Dynamic Simulation,” with Purvez Captain, David H. Good, and Ashok Ayyar, Chapter 5 in *Volume 2: The Economics of Airline Institutions, Operations and Marketing*, Edited by Darin Lee, Amsterdam: Elsevier, North Holland, 2007.

“Semi-parametric Efficient Distribution Free Estimation of Panel Models,” with Robert Adams, *Communication in Statistics: Theory and Methods*, 36, 2425–2442, 2007.

“Comments on Panel Data Analysis-Advantages and Challenges by Cheng Hsiao,” *Test*, 16, 31-32, 2007.

“A Dynamic Model of Airline Competition,” with Ying Fang, *Journal of Network Economics*, 6, 355-371, 2007.

“The Role of Social Capital in Youth Crime: A Dynamic Structural Approach,” with J. Williams, *Journal of Econometrics*, 145,158-173, 2008.

“The Aviation Industry, in the *International Encyclopedia of the Social Sciences 2nd Edition* (William Darity, Editor), New York: Macmillan , forthcoming, 2008.

“Energy Economics,” with Ying Fang, *The New Palgrave Dictionary of Economics, 2nd Edition*, Edited by Larry Blume and Steven Durlauf, Palgrave MacMillian, Ltd, October, 2008 <http://www.dictionaryofeconomics.com/article?id=pde2008_E000082>
doi:10.1057/9780230226203.0474.

“A Hedonic Price Index for Airline Travel,” with D. Good and J. Weiher, *Review of Income and Wealth*, 54, 438-465, 2008.

“Introduction to the Special Issue of the Journal of Econometrics on The Use of Econometrics to Inform Public Policy Makers,” with Jenny Williams, *Journal of Econometrics*, 145, 1-3, 2008.

“Optimal Dynamic Production Policy: The Case of a Large Oil Field in Saudi Arabia,” with W. Gao and P. Hartley, *Empirical Economics*, 37, 153–184, 2009.

“An Analysis of Strategic Behavior and Consumer Surplus in eBay Auctions,” with K. Hasker and R. Gonzalez, Special Issue on the Econometric Analysis of Panel Data (edited by Jan Kiviet), *Singapore Economic Review*, 54, 441-472, 2009.

“Krugman and Young Revisited: A Survey of Sources of Productivity Growth in a World with Less Constraints,” with Burcu Cigerli, *Seoul Journal of Economics*, 22, 29-54, 2009.

“The Skewness Problem in Stochastic Frontier Models: Fact or Fiction?”, with Pavlos Almanidis, forthcoming in *Exploring Research Frontiers in Contemporary*

Statistics and Econometrics: A Festschrift in Honor of Leopold Simar, Ingrid Van Keilegom and Paul Wilson (eds.), Springer Publishing: New York, 2011.

“Panel Data, Factor Models, and the Solow Residual,” with Alois Kneip, forthcoming in *Exploring Research Frontiers in Contemporary Statistics and Econometrics: A Festschrift in Honor of Leopold Simar*, Ingrid Van Keilegom and Paul Wilson (eds.), Springer Publishing: New York, 2011.

“Knowledge and Geographical Spillovers in Wartime Shipbuilding,” with David Blazek, *Economic Modeling*, in honor of P.A.V.B. Swamy, L. R. Klein, G. S. Tavlás, and A. Zellner (eds.), Vol. 27, November, 1484-1497, 2010.

“eBay in the Economic Literature: Analysis of an Auction Marketplace,” with Kevin Hasker, *Review of Industrial Organization*, 37, August, 3-42, 2010.

“Health, Mental Health and Labor Productivity: The Role of Self-Reporting Bias,” with Justin Leroux and John Rizzo, forthcoming in *Empirical Economics*, 2011.

“A New Panel Data Treatment for Heterogeneity in Time Trends,” with A. Kneip and W.H. Song, forthcoming in *Econometric Theory*, 2011.

“A Multi-product Cost Function for Physician Private Practices,” with Tim Gunning, forthcoming, *Journal of Productivity Analysis*, Volume 35, No. 2, 2011.

“Estimation of Market Power in the Presence of Firm Level Inefficiencies,” with Levent Kutlu, forthcoming in the *Journal of Econometrics*, 2011.

“Introduction to the Special Annals Issue of the Journal of Econometrics: The Econometrics of Auctions and Games,” with Subal Kumbhakar, forthcoming in the *Journal of Econometrics*, 2011.

MONOGRAPHS/EDITED VOLUMES

The Causes, Correlates and Consequences of Death Among Older Adults: Some Methodological Approaches and Substantive Analysis, with J. Behrman and P. Taubman, Boston: Kluwer Academic, 1998, 1-186.

Unlocking the Assets: Energy and the Future of Central Asia and the Caucasus: A Political, Economic, and Cultural Analysis, with Y. Kalyuzhnova, A. Jaffe, D. Lynch (eds.), Hampshire: Palgrave (2001).

Special Issue of the Journal of Productivity Analysis on Entrepreneurship, Innovation, and Market Dynamics, with David Audretsch and Christos J. Panzios (eds.), Springer, Volume 25, Numbers 1-2 / April, 1-195, 2006.

Special Issue of the Journal of Econometrics on The Use of Econometrics to Inform Public

Policy Makers, with Jenny Williams (ed.), Volume 145, Issues 1-2, Elsevier/North-Holland: Amsterdam, July 2008, 1-257.

Special Annals Issue of the Journal of Econometrics on The Econometrics of Auctions and Games, with Subal Kumbhakar (ed.), Elsevier/North-Holland: Amsterdam, forthcoming, 2011.

PAPERS SUBMITTED OR UNDER REVISION:

“Estimating Consumer Surplus in e-Bay Computer Monitor Auctions,” with T. Giray, K. Hasker, and Bibo Jiang, mimeo, Rice University, 2009.

“Bootstrapping Unit Root Tests with Covariates,” with Y. Chang and W. Song, 2009.

“Competition and Market Power in Physician Private Practices,” with Timothy Gunning, mimeo, Rice University, 2009.

“Stochastic Frontiers with Bounded Inefficiency,” with Pavlos Alminidis and Junhui Qian, mimeo, Rice University, 2009.

“How Efficiently Do U.S. Cities Manage Roadway Congestion?”, with Anthony J. Glass and Karligash Kenjegalievayand, Rice University, 2010.

WORKING PAPERS/BOOK PROJECTS/EDITED VOLUMES/WORK IN PROGRESS:

Convergence, Regulatory Distortions, Deregulatory Dynamics and The Recent Growth Experiences of Economies in Brazil and Latin America: Hope for the Future?, monograph, with Fernando Orozco Ruiz, Patrik Hultberg, Joya Mukerjee, 2002.

Semiparametric Treatments to Panel Data Models with Applications to Productive Efficiency, Basil-Blackwell, 2008.

Chinese Growth, Energy, and Geopolitics, with Amy Jaffe and Stephen Lewis, Baker Institute for Public Policy, 2008.

The Econometrics of Production Analysis, with Valentin Zelenyuk, 2008.

Special Symposium in the Journal of Productivity Analysis on “Agricultural Productivity in Developing Countries,” with David Schimmelpfennig, Springer, 2007.

Special Symposium in the Journal of Productivity Analysis on “Productivity in Sports,” with H. Fried and R. Simmons, Springer, 2010.

“Panel models with temporal heterogeneity in effects and correlated errors,” with Oualid Bada and Alois Kneip, Rice University, 2010.

“Series Estimation of Production Functions with Constraints,” with Ximing Wu, Rice University, 2010.

“Measuring World Productivity,” with Meryem Duygun Fethi, Jiaqi Hao, Anders Isaksson, Rice University, 2010.

“Efficiency and Productivity Analysis in the Airlines Industry,” with Meryem Duygun Fethi, Mohamed Shaban, Thomas Weyman-Jones, Rice University, 2011.

“Measuring Efficiency: A Kalman Filter Approach,” with M. Fethi and L. Kutlu, Rice University, 2011.

“On Measuring Treatment Effects without Randomization,” with P.A.V.B. Swamy, and Ronghua Gao, Rice University, 2011.

“A Spline Function Specification of the CSS (1990) Time-varying Technical Inefficiency Model,” with P. Almanidis and G. Karagiannis, Rice University, 2011.

“Analyzing Bank Efficiency: Are “too-big-to-fail” Banks Efficient?,” with H. Inanoglu and M. Jacobs, Jr., Rice University, 2011.

“Propensity scoring approaches to address problems with two-stage dea and stochastic frontier analyses,” with P. Demchuk, Rice University, 2011.

SELECTED PRESENTATIONS AT CONFERENCES AND MEETINGS (2000-present):

“Turning from Crime: A Dynamic Perspective,” North American Meetings of the Econometric Society, Boston, January, 2000.

“Are Airfares Fair?: On a New Hedonic Price Index for Airline Travel,” Bureau of Labor Statistics Conference on “Issues in Measuring Price Changes and Consumption,” Washington, D. C., June, 2000.

“On a New Hedonic Price Index for Airline,” The North American Productivity Workshop, June, 2000, Union College, New York.

“Semiparametric Efficient Estimation of Panel Models with AR(1) Errors,” The Ninth International Conference on Panel Data, June, 2000, University of Geneva; The Eighth World Congress of the Econometric Society, Seattle, August, 2000.

“The Role of Environmental Factors in Growth Accounting: a Nonparametric Analysis,” North American Meetings of the Econometric Society, New Orleans, January 2001.

“On a New Hedonic Price Index for Airline” Brookings Institute Workshop on Transportation Output and Productivity,” May, 2001.

“Productivity ? of U . S. Airlines After Deregulation, On a New Hedonic Price Index for Airline Travel,” International Conference on Productivity and Efficiency, Oviedo, Spain, October, 2001.

“Semiparametric Efficient Estimation of Dynamic Panel Data Models,” The Tenth International Conference on Panel Data, June 2002, Berlin.

“On a New Hedonic Price Index for Airline,” The North American Productivity Workshop, June 2002, Union College, New York.

“Panel Estimators and the Identification of Firm-Specific Efficiency Levels in Semi-Parametric and Non-Parametric Settings,” Conference on Current Developments in Productivity and Efficiency Measurement, October 2002, Athens, Georgia.

“Panel Estimators and the Identification of Firm-Specific Efficiency Levels in Semi-Parametric and Non-Parametric Settings,” University of Korea, November 2002.

“Panel Estimators and the Identification of Firm-Specific Efficiency Levels in Semi-Parametric and Non-Parametric Settings,” 2nd Hellenic Workshop on Productivity and Efficiency Measurement, May-June, 2003, Patras, Greece; 8th International Conference on Productivity and Efficiency, October 2003, Oviedo, Spain.

“On Estimating the Mixed Effect Model,” North American Productivity Workshop, Toronto, June 2004.

“Looking Forward to Your Research,” Keynote Address of the Asia-Pacific Productivity Conference,” Brisbane, July 2004.

“On Estimating the Mixed Effect Model,” European Workshop of Efficiency and Productivity IX, Brussels, July 2005.

“A New Panel Data Treatment for Heterogeneity in Time Trends,” 2005 Econometric Society World Congress, University College, London, August.

“Measuring Depreciation for Commercial Aircraft,” Conference on the Empirical Foundations for Capital Measurement, Bureau of Labor Statistics, Washington, D.C., September 2005.

“Estimating Consumer Surplus in e-Bay Computer Monitor Auctions,” FTC Roundtable: Economics of Internet Auctions, Washington, D.C., October 2005.

“A New Panel Data Treatment for Heterogeneity in Time Trends,” 3rd Hellenic Workshop on Productivity and Efficiency Measurement, University of Patras, Greece, June 2006.

“Estimating Consumer Surplus in e-Bay Computer Monitor Auctions,” North American Productivity Workshop IV, June 2006, New York University.

“Estimating Consumer Surplus in e-Bay Computer Monitor Auctions,” 13th International Conference on Panel Data, July 2006, University of Cambridge, UK.

"Competition and Market Power in Physician Private Practices," Texas Camp Econometrics XI, February 2007, South Shore Harbour, Texas.

"Competition and Market Power in Physician Private Practices," New York Camp Econometrics, March 24-25, 2007 Saratoga Springs, NY.

“Stochastic Frontiers with Bounded Inefficiency,” Tenth European Workshop on Efficiency and Productivity Analysis, June 2007, Lille, France.

“Estimating Consumer Surplus in e-Bay Computer Monitor Auctions,” Auctions and Games: A Conference for the Journal of Econometrics Annals Issue, VPI, Blacksburg, Va., October 12-13, 2007.

“A New Panel Data Treatment for Heterogeneity in Time Trends,” Joint Econometrics Seminar, University of Quebec at Montreal, University of Montreal, September 14, 2007.

“Stochastic Frontiers with Bounded Inefficiency,” Texas Camp Econometrics XIII, Inn of the Hills Resort and Conference Center, Kerrville, Texas, February 16/17, 2008

“The Use of Econometrics in Informing Public Policy Makers,” keynote address of the Missouri Economic Conference, March 29-30, 2008, Columbia, Missouri, sponsored by the St. Louis Federal Reserve Bank of St. Louis and the University of Missouri.

“A Panel Data Model with Nonparametric Time Effects,” North American Productivity Workshop V, Stern School of Business, New York University, New York, NY, June 24 - June 27, 2008.

“Recent Methodological Developments in Stochastic Frontier and Data Envelopment Analysis: Where Will They Take Us?,” Preconference Workshop of the 2008 Asia-Pacific Productivity Conference, July 17-19, Department of Economics, National Taiwan University, Taipei, Taiwan, 2008.

“Krugman and Young Revisited: Sources of Productivity Growth in a World with Less Constraints,” Plenary Session of the 2008 Asia-Pacific Productivity Conference, July 17-19, Institute of Economics, Academia Sinica, Taipei, Taiwan, 2008.

“Krugman and Young Revisited: A Survey of Sources of Productivity Growth in a World with Less Constraints,” Invited speaker, Plenary Session of the 16th SJE-KERI-KIF International Symposium Productivity, Growth and Trade in East Asia, November 27, 2008, Seoul National University.

“Stochastic Frontiers with Bounded Inefficiency,” Texas Camp Econometrics XIV, January 31-February 1, New Braunfels, Texas, 2009.

“The Skewness Problem in Stochastic Frontier Models: Fact or Fiction?,” Invited Speaker, Workshop on Exploring Research Frontiers in Contemporary Statistics and Econometrics, Institute of Statistics of the Université Catholique de Louvain, Louvain-la-Neuve, Belgium, May 14-15, 2009.

“Panel Data, Factor Models, and the Solow Residual”, Keynote Lecture, Anadolu University International Conference in Economics: Developments in Economic Theory, Modeling and Policy, Eskişehir, Turkey, June 17-19, 2009.

“On the Productivity of Nations,” The XI European Workshop on Efficiency and Productivity Analysis, Pisa, Italy, June 23-26, 2009.

“Panel Data, Factor Models, and the Solow Residual”, Keynote Lecture, 15th Conference on Panel Data, Bonn, July 3-5, 2009.

“Measuring World Productivity,” Texas Camp Econometrics 15, La Torretta Lake Resort and Spa, Lake Conroe, Texas, February 20-21, 2010.

“Stochastic frontiers with bounded inefficiency,” Invited paper, 20th Meeting of the New Zealand Econometric Study Group, Hosted by the Department of Finance, AUT University, Friday-Saturday 26-27 February 2010.

“Bounded Stochastic Frontiers with an Application to the US Banking Industry: 1984-2009,” Invited paper, International Econometrics Workshop, East Hall, Guanghua Campus, SWUFE, Chengdu, China, August 12, 2010.

“Bounded Stochastic Frontiers with an Application to the US Banking Industry: 1984-2009,” Econometric Society 10th World Congress, Shanghai, China, 17 - 21 August, 2010.

“Analyzing Bank Efficiency: Are “too-big-to-fail” Banks Efficient?,” International Workshop on Efficiency and Productivity in Honor of Prof. Knox Lovell, Universidad Miguel Hernández, Elche (Alicante), Spain, September 30-October 5, 2010.

“Measuring World Productivity,” International Conference on Productivity in East Asia, The Korea Chamber of Commerce & Industry, Seoul, October 20, 2010.

“Estimating Consumer Surplus in eBay Computer Monitor Auctions,” Texas Camp Econometrics XVI, Northwest Forest Conference Center, Cypress, TX, February 12-13, 2011.

“Analyzing Bank Efficiency: Are “too-big-to-fail” Banks Efficient?,” Invited speaker, Anadolu International Conference in Economics, Eskisehir, Turkey, June 15-17, 2011.

“How Efficiently Do U.S. Cities Manage Roadway Congestion?,” XII European Workshop on Efficiency and Productivity Analysis, Verona, Italy, June 21-24, 2011.

“Propensity Scoring Approaches to Address Problems with Two-Stage DEA and Stochastic Frontier Analyses,” Invited Speaker, Conference on Efficiency Measurement: New Methods and Application to the Food Sector, University of Toulouse, June 27-28, 2011.

“Analyzing Bank Efficiency: Are “too-big-to-fail” Banks Efficient?,” Conference in Honor of Peter Schmidt, South Shore Harbour Resort & Conference Center, League City, TX, June 30-July 2, 2011.

“Bounded Stochastic Frontiers with an Application to the US Banking Industry: 1984-2009,” 17th International Panel Data Conference, Montreal (McGill University- Business School), July 8-10, 2011.

DISSERTATION COMMITTEES:

Stephen Thurman, Congressional Budget Office (George Washington University, 1978, Chair).

Richard Johnson, Department of Justice (George Washington University, 1979, Reader).

Janice Shack-Marquez, Board of Governors of the Federal Reserve System (University of Pennsylvania, 1981, Reader).

Maureen Pirog-Good, Indiana University, Bloomington (University of Pennsylvania, 1983, Chair).

Brian Pinto, World Bank (University of Pennsylvania, 1983, Reader).

Hannah Hiles (University of Pennsylvania, 1984, Reader).

Paul Beaumont, Purdue University (University of Pennsylvania, 1984, Reader).

David Good, Indiana University, Bloomington (University of Pennsylvania, 1985, Chair).

Lars Hendrik-Roeller, Wissenschaftszentrum Berlin (WZB), INSEAD, Humboldt

University (University of Pennsylvania, 1987, Reader).

Rodney Hissong, University of Texas at Arlington (Rice University, 1988, Chair).

Maria Amparo Ballivian, World Bank (Rice University, 1988, Chair).

Byeong-Ho Gong, Korean Research Institute (Rice University, 1988, Chair).

Andreas Zamudio, Centro de Investigación y Docencia Económica (CIDE)-Center for Economic Research and Teaching, Mexico City (Rice University, 1988, Chair).

Keun Huh, Samsung Research Institute (Rice University, 1989, Chair).

Mary Streitwieser, Center for Economic Studies, Department of the Census (Rice University, 1989, Chair).

Antonio Ligaralde, Miami University of Ohio (Rice University, 1990, Reader).

Maria-Louisa Escobar, Inter-American Development Bank (Rice University, 1990, Chair).

Abdo Yazbeck, World Bank (Rice University, 1991, Chair).

John Brooks, Agency for Health Care Policy and Research (University of Michigan, 1992, Reader).

Purvez Captain, Ernst & Young, LLP (Rice University, 1993, Chair).

Ila Semenick Alam, Tulane University (Rice University, 1994, Chair).

Fernando Orozco Ruiz, Pulsar (Mexico) (Rice University, 1994, Chair).

Jenny Williams, University of Melbourne (Rice University, 1996, Chair).

Neil Arwine, Bilkent University (Rice University, 1996, Reader).

Joya Mukherjee, American Express (Rice University, 1997, Chair).

Ellen Read, Econ One (California) (Rice University, 1997, Chair).

Robert Adams, Federal Reserve Board of Governors (Rice University, 1997, Chair).

Elaine Fortowsky, Donaldson, Lufkin, Jenrett (Rice University, 1998, Reader).

Patrik Hultberg, University of Wyoming (Rice University, 1998, Chair).

Anthony Postert, Authur Anderson (Rice University, 1999, Chair).

Sylvester Gaudin, Oberlin College (Rice University, 1999, Reader).

Weiyu Gao, Institute for Advanced Study and Scientific Research, Carinthia, Austria (Rice University, 1999, Co-Chair).

Ross VanWassenhove (Rice University, 1999, Reader).

Ruwan Jayasuriya, The World Bank (Rice University, 2000, Chair).

Byeong Jeon, Korea Institute for Public Finance (Rice University, 2001, Reader).

Jesse Weiher, Federal Deposit Insurance Corporation (Rice University, 2002, Chair).

Lullit Getachew, Pacific Economics Group (Rice University, 2002, Chair).

Raul Gonzalez, Tecnologico de Monterrey, Mexico (Rice University, 2002, Chair).

Wonho Song, Institute for International Trade and Finance, Seoul (Rice University, 2003, Reader)

Hulushi Inanoglu, Department of the Treasury (Rice University, 2003, Reader)

Wojtek Dorabialski Institute for Advanced Studies, Warsaw (Rice University, 2003, Reader)

Ick Jin, Central Bank of Korea (Rice University, 2003, Chair)

Alexander Ruiz, Central Bank of Venezuela (Rice University, 2004, Chair)

Timothy Gunning, James A. Baker Institute for Public Policy Post-Doctoral Fellow (Rice University, 2007, Chair).

Junhui Qian, School of Economics and Finance, Shanghai Jiao Tong University (Rice University, 2007, Co-chair).

Rahul Vasudev, Ernst and Yong, LLP (Rice University, 2007, Co-chair).

Chad Dacus, Center for Naval Analysis (Rice University, 2008, Chair)

Cahit Guven, Deakin University, Melbourne Australia (University of Houston, 2008, Reader).

Bibo Jiang, Bates White, LLC (Rice University, 2008, Co-chair).

Nguyen Nguyen, Barclays, LLC, New York (Rice University, 2008, Chair).

David Blazek, Epcoc, Inc. (Rice University, 2008, Chair).

Levent Kutlu, Georgia Institute of Technology (Rice University, 2010, Chair).

Pavlos Amanidis, Ernst & Young LLP, Toronto (Rice University, 2011, Chair).

Jiaqi Hao (Rice University, 2011, Chair).

CONSULTING EXPERIENCE

Consultant for, among others, the Department of Health and Human Services, Air Transport Association, AT&T, Department of Justice, International Food Policy Research Institute, ABT Associates, Ernest and Young, National Aeronautics and Space Administration, Department of Defense, United States Postal Service, Wharton Econometric Forecasting Associates, Nathan Associates, United States Agency for International Development, and LECG, LLC, CRA, Accumyn, LLC. As a testifying expert and consultant for a number of law firms Sickles has had responsibilities engagements in antitrust, trade secret, patent infringement, discrimination, corporate liability, and personal injury cases.