

CURRICULUM VITAE

Paul W. Wilson

ADDRESS:

- Office: The John E. Walker Department of Economics, 222 Sarrine Hall, Clemson University, Clemson, South Carolina 29634-1309
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DATE OF BIRTH: September 9, 1958

CITIZENSHIP: USA

EDUCATION:

- Ph.D., Economics, May 1986, Brown University, Providence, Rhode Island.
- A.M., Economics, June 1982, Brown University, Providence, Rhode Island.
- B.A., Economics, May 1980, Rice University, Houston, Texas.

RESEARCH AREAS:

- Econometrics
- Empirical Microeconomics (including banking, health, transportation, and urban economics).

CURRENT RESEARCH:

- Various theoretical issues in both parametric and non-parametric estimation and inference in models of production.
- Examination of structure of the US banking industry, with emphasis on failures, acquisitions, profitability, returns to scale, holding company structure, implications of regulatory reform, etc.
- Analysis of the US hospital industry, including differences across for-profit, non-profit, and government ownership, effects of regulatory policies, health-care reform, etc.
- Education policy and outcomes in developing and transitioning economies.

PROFESSIONAL EXPERIENCE:

- August 2006 — present:
Professor, The John E. Walker Department of Economics, Clemson University, Clemson, South Carolina.
- June 1995 — August 2009 (various dates):
Visiting Professor, Institut de Statistique, Université Catholique de Louvain, Louvain-la-Neuve, Belgium.
- July 1993—December 2009 (various dates):
Visiting Scholar, Federal Reserve Bank of St. Louis, St. Louis, Missouri.
- September 2002 — August 2006:
Professor, Department of Economics, University of Texas, Austin, Texas.
- September 1997 — May 1998:
Member, National Contract Advisory Committee, US Department of Veterans Affairs, Washington, DC.
- September 1994 — August 2002:
Associate Professor, Department of Economics, University of Texas, Austin, Texas.
- September 1990 — August 1994:
Assistant Professor, Department of Economics, University of Texas, Austin, Texas.
- September 1985 — July 1990:
Assistant Professor, Department of Economics, University of Georgia, Athens, Georgia.

PUBLISHED PAPERS:

- “Estimation and Inference in Stochastic Frontier Models,” *Econometric Reviews*, forthcoming (co-authored with Léopold Simar).
- “Robust Nonparametric Estimation of Efficiency and Technical Change in U.S. Commercial Banking, 1985–2004” *Journal of Business and Economic Statistics* 27, 354–368 (2009) (co-authored with David C. Wheelock).
- “Non-parametric, Unconditional Quantile Estimation for Efficiency Analysis with An Application to Federal Reserve Check Processing Operations,” *Journal of Econometrics* 145, 209–225 (2008) (co-authored with David C. Wheelock).
- “Asymptotics and Consistent Bootstraps for DEA Estimators in Non-parametric Frontier Models,” *Econometric Theory* 24, 1663–1697 (2008) (co-authored with Alois Kneip and Léopold Simar).
- “FEAR 1.0: A Software Package for Frontier Efficiency Analysis with R,” *Socio-Economic Planning Sciences* 42, 247–254 (2008).

- “Introduction for Journal of Productivity Analysis special issue on transitioning economies,” *Journal of Productivity Analysis* 29, 77 (2008) (co-authored with Sung-Ko Li, Léopold Simar, and Valentin Zelenyuk).
- “Statistical Inference in Nonparametric Frontier Models: Recent Developments and Perspectives,” in *The Measurement of Productive Efficiency*, 2nd edition, chapter 4, ed. by H. Fried, C.A.K. Lovell, and S.S. Schmidt, Oxford: Oxford University Press, Inc., pp. 421–521 (2008) (co-authored with Léopold Simar).
- “Estimation and Inference in Two-Stage, Semi-Parametric Models of Productive Efficiency,” *Journal of Econometrics* 136, 31–64 (2007) (co-authored with Léopold Simar).
- “The Contribution of On-site Examination Ratings to an Empirical Model of Bank Failures,” *Review of Accounting and Finance* 4, 110–133 (2005) (co-authored with David C. Wheelock).
- “Nonparametric Analysis of Returns to Scale and Product Mix among US Hospitals,” *Journal of Applied Econometrics* 19, 505–524 (2004) (co-authored with Kathleen Carey).
- “New Evidence on the Fed’s Productivity in Providing Payments Services,” *Journal of Banking and Finance* 28, 2175–2190 (2004) (co-authored with Alton Gilbert and David C. Wheelock).
- “Performance of the Bootstrap for DEA Estimators and Iterating the Principle,” in *Handbook on Data Envelopment Analysis*, ed. by W.W. Cooper, L.M. Seiford, and J. Zhu, New York: Kluwer Academic Publishers, Inc., chapter 10, pp. 265–298 (2004) (co-authored with Léopold Simar).
- “Consolidation in US Banking: Which Banks Engage in Merger?” *Review of Financial Economics* 13, 7–39 (2004) (co-authored with David C. Wheelock).
- “Trends in the Efficiency of Federal Reserve Check Processing Operations,” *Federal Reserve Bank of St. Louis Review* 86(5), 7–19 (2004) (co-authored with David C. Wheelock).
- “Testing Independence in Models of Productive Efficiency,” *Journal of Productivity Analysis* 20, 361–390 (2003).
- “Nonparametric Tests of Returns to Scale,” *European Journal of Operational Research* 139, 115–132 (2002) (co-authored with Léopold Simar).
- “New Evidence on Returns to Scale and Product Mix among US Commercial Banks,” *Journal of Monetary Economics* 47, 653–674 (2001) (co-authored with David C. Wheelock).
- “Modelling and Testing for Heterogeneity in Observed Strategic Behavior,” *Review of Economics and Statistics* 83, 146–157 (2001) (co-authored with Ernan Haruvy and Dale O. Stahl).

- “Testing Restrictions in Nonparametric Efficiency Models,” *Communications in Statistics* 30, 159–184 (2001) (co-authored with Léopold Simar).
- “Aplicación del ‘Bootstrap’ para Estimadores D.E.A.,” in *La Medición de la Eficiencia y la Productividad*, edited by A. Álvarez, Madrid: Pirámide (2001) (co-authored with Léopold Simar); translation of “Performance of the Bootstrap for DEA Estimators and Iterating the Principle,” Discussion Paper No. 0002, Institut de Statistique, Université Catholique de Louvain, Louvain-la-Neuve, Belgium.
- “A General Methodology for Bootstrapping in Nonparametric Frontier Models,” *Journal of Applied Statistics* 27, 779–802 (2000) (co-authored with Léopold Simar).
- “Why do Banks Disappear? The Determinants of US Bank Failures and Acquisitions,” *Review of Economics and Statistics* 82, 127–138 (2000) (co-authored with David C. Wheelock).
- “Statistical Inference in Nonparametric Frontier Models: The State of the Art,” *Journal of Productivity Analysis* 13, 49–78 (2000) (co-authored with Léopold Simar).
- “Evidence for Optimistic and Pessimistic Behavior in Normal-Form Games,” *Economics Letters* 61, 255–259 (1999) (co-authored with Ernan Haruvy and Dale O. Stahl).
- “Technical Progress, Inefficiency, and Productivity Change in US Banking, 1984–93,” *Journal of Money, Credit, and Banking* 31, 212–234 (1999) (co-authored with David C. Wheelock).
- “Estimating and Bootstrapping Malmquist Indices,” *European Journal of Operational Research* 115, 459–471 (1999) (co-authored with Léopold Simar).
- “Of Course We can Bootstrap DEA Scores! But does it Mean Anything? Logic Trumps Wishful Thinking,” *Journal of Productivity Analysis* 11, 93–97 (1999) (co-authored with Léopold Simar).
- “Some Problems with the Ferrier/Hirschberg Bootstrap Idea,” *Journal of Productivity Analysis* 11, 67–80 (1999) (co-authored with Léopold Simar).
- “Variation in Inefficiency among US Hospitals,” *Canadian Journal of Operational Research and Information Processing (INFOR)* 36, 84–102 (1998) (co-authored with James F. Burgess, Jr.).
- “Effects of Deregulation on the Productivity of Korean Banks,” *Journal of Economics and Business* 50, 133–155 (1998) (co-authored with Alton Gilbert). Reprinted in *The Regulation and Supervision of Banks*, ed. by Maximilian J. B. Hall, Edward Elgar Publishing Limited, Cheltenham, UK (2000).
- “Sensitivity Analysis of Efficiency Scores: How to Bootstrap in Nonparametric Frontier Models,” *Management Science* 44, 49–61 (1998) (co-authored with Léopold Simar).

- “Hospital Ownership and Technical Efficiency,” *Management Science* 42, 110–123 (1996) (co-authored with James F. Burgess, Jr.).
- “Explaining Bank Failures: Deposit Insurance, Regulation, and Efficiency,” *Review of Economics and Statistics* 77, 689–700 (1995) (co-authored with David C. Wheelock).
- “On Players’ Models of Other Players: Theory and Experimental Evidence,” *Games and Economic Behavior* 10, 218–254 (1995) (co-authored with Dale O. Stahl).
- “Comparing Mean Efficiency and Productivity Scores from Small Samples: A Bootstrap Methodology,” *Journal of Productivity Analysis* 6, 137–152 (1995) (co-authored with Scott Atkinson).
- “Detecting Influential Observations in Data Envelopment Analysis,” *Journal of Productivity Analysis* 6, 27–45 (1995).
- “On the Relative Efficiency of Alternative Modes of Producing Public Sector Output: The Case of the Developmentally Disabled,” *European Journal of Operational Research* 80, 608–618 (1995) (co-authored with Richard Dusansky).
- “Decomposing Hospital Productivity Changes 1985–88: A Nonparametric Malmquist Approach,” *Journal of Productivity Analysis* 6, 343–363 (1995) (co-authored with James F. Burgess, Jr.).
- “Evaluating the Efficiency of Commercial Banks: Does Our View of What Banks Do Matter?” *Federal Reserve Bank of St. Louis Review* 77(4), 39–52 (1995) (co-authored with David C. Wheelock).
- “Experimental Evidence on Players’ Models of Other Players,” *Journal of Economic Behavior and Organization* 25, 309–327 (1994) (co-authored with Dale O. Stahl).
- “Comment on ‘Validation and Generalization of DEA and its Uses,’” *Trabajos de Investigación Operativa* 2, 305–309 (1994).
- “Technical Efficiency in the Decentralized Care of the Developmentally Disabled,” *Review of Economics and Statistics* 76, 340–345 (1994) (co-authored with Richard Dusansky).
- “Can Deposit Insurance Increase the Risk of Bank Failure? Some Historical Evidence,” *Federal Reserve Bank of St. Louis Review* 76, 57–71 (1994) (co-authored with David C. Wheelock).
- “The Demand for Housing: Theoretical Foundations,” *Journal of Economic Theory* 61, 120–138 (1993) (co-authored with Richard Dusansky).
- “Detecting Outliers in Deterministic Nonparametric Frontier Models with Multiple Outputs,” *Journal of Business and Economic Statistics* 11, 319–323 (1993).
- “Technical Efficiency in Veterans Administration Hospitals,” in *The Measurement of Productive Efficiency: Techniques and Applications*, ed. by Hal Fried,

C. A. Knox Lovell, and Shelton Schmidt, Oxford University Press, Inc., pp. 335–351 (1993) (co-authored with James F. Burgess, Jr.).

- “The Bias of Bootstrapped versus Conventional Standard Errors in the General Linear and SUR Models,” *Econometric Theory* 8, 259–275 (1992) (co-authored with Scott Atkinson).
- “Residential Location and Scheduling of Work Hours,” *Journal of Urban Economics* 31, 325–336 (1992).
- “Efficient User Charges in a Rent Seeking Model,” *Economic Inquiry* 29, 367–374 (1991) (co-authored with Dwight R. Lee).
- “The Highway Speed-Flow Relationship Revisited,” *Journal of Urban Economics* 29, 202–206 (1991).
- “Deadweight Loss in Highway Toll Collection,” *Transportation Research* 25B, 127–141 (1991) (co-authored with Andrew F. Seila).
- “Analyzing Frequencies of Several Types of Events: A Mixed Multinomial-Poisson Approach,” *Review of Economics and Statistics* 72, 108–115 (1990) (co-authored with Joseph V. Terza).
- “Rent-Seeking and Peak-Load Pricing of Public Services,” *National Tax Journal* 43, 497–503 (1990) (co-authored with Dwight R. Lee).
- “Scheduling Costs and the Value of Travel Time,” *Urban Studies* 26, 356–366 (1989).
- “Wage Variation Resulting from Staggered Work Hours,” *Journal of Urban Economics* 24, 9–26 (1988).
- “Welfare Effects of Congestion Pricing in Singapore,” *Transportation* 16, 191–210 (1988).

BOOK REVIEWS:

- *Land Use and Urban Form*, Methuen, Inc., (1987), by G. I. Thrall, in *Social Science Quarterly* 69, 1037 (1988).

OTHER PUBLICATIONS:

- “Bootstrap Method,” in *International Encyclopedia of the Social Sciences, 2nd edition*, ed. by William A. Darity, Jr., vol. 1, pp. 353–354, Detroit: Macmillan Reference USA (2008).
- “Censoring, Left and Right” in *International Encyclopedia of the Social Sciences, 2nd edition*, ed. by William A. Darity, Jr., vol. 1, pp. 473–474, Detroit: Macmillan Reference USA (2008).
- “Data Envelopment Analysis,” in *International Encyclopedia of the Social Sciences, 2nd edition*, ed. by William A. Darity, Jr., vol. 2, pp. 473–474, Detroit: Macmillan Reference USA (2008).

- “Duration Models,” in *International Encyclopedia of the Social Sciences, 2nd edition*, ed. by William A. Darity, Jr., vol. 2, pp. 463–464, Detroit: Macmillan Reference USA (2008).
- “Large Sample Properties,” in *International Encyclopedia of the Social Sciences, 2nd edition*, ed. by William A. Darity, Jr., vol. 4, pp. 348–350, Detroit: Macmillan Reference USA (2008).
- “Least Squares, Ordinary,” in *International Encyclopedia of the Social Sciences, 2nd edition*, ed. by William A. Darity, Jr., vol. 4, pp. 391–394, Detroit: Macmillan Reference USA (2008).
- “Non-parametric Regression,” in *International Encyclopedia of the Social Sciences, 2nd edition*, ed. by William A. Darity, Jr., vol. 5, pp. 348–350, Detroit: Macmillan Reference USA (2008).
- “Statistical Noise,” in *International Encyclopedia of the Social Sciences, 2nd edition*, ed. by William A. Darity, Jr., vol. 8, pp. 120–121, Detroit: Macmillan Reference USA (2008).
- “Variables, Random” in *International Encyclopedia of the Social Sciences, 2nd edition*, ed. by William A. Darity, Jr., vol. 8, pp. 588–589, Detroit: Macmillan Reference USA (2008).
- Photograph showing La Margarita Restaurant in Amsterdam, in “Městské Aglomerace,” *Velý Atlas Světa*, p. 18, Prague: Česká Media Amercom (2003).

WORKING PAPERS:

- “Asymptotic Properties of some Non-parametric Hyperbolic Efficiency Estimators.”
- “Efficiency in Education Production among PISA Countries, with Emphasis on Transitioning Economies.”
- “Efficiency in Education Production among Developing Pacific-Basin and Latin-American Countries.”
- “A Preliminary Non-parametric Analysis of Public Education and Health Expenditures in Developing Countries.”
- “Gauging the Performance of Italian Hospitals” (co-authored with Simon Gitto and Paolo Mancuso).
- “Are Credit Unions Too Small?” (co-authored with David C. Wheelock).
- “Robust, Dynamic Nonparametric Benchmarking: The Evolution of Cost Productivity and Efficiency Among U.S. Credit Unions” (co-authored with David C. Wheelock).
- “Are U.S. Banks too Large?” (co-authored with David C. Wheelock).
- “Inference by Subsampling in Nonparametric Frontier Models” (co-authored with Lèopold Simar).

- “A Simple, Tractable Bootstrap for DEA Estimators in Non-parametric Frontier Models” (co-authored with Alois Kneip and Léopold Simar).
- “Statistical Simulation: A Primer with Examples.”
- “Estimating Counts of Related Events with Endogenous Switching Using Complex Survey Data.”
- “Productivity Growth in Industrialized Countries” (co-authored with Léopold Simar).

GRANTS AND CONTRACTS:

- Grant, Clemson University Research Investment Award, (April 1, 2007–October 31, 2007; \$85,000)
- Contract, Management Science Group, U. S. Department of Veterans Affairs, Bedford, Massachusetts (January 1, 2002–August 31, 2002; \$6000.00)
- Contract, Management Science Group, U. S. Department of Veterans Affairs, Bedford, Massachusetts (August 1, 2001–December 31, 2001; \$15,115.28)
- Contract, Management Science Group, U. S. Department of Veterans Affairs, Bedford, Massachusetts (August 1, 2000–August 31, 2000; \$10,426.10)
- Contract, Management Science Group, U. S. Department of Veterans Affairs, Bedford, Massachusetts (June 21, 1999–July 23, 1999; \$11,064.59)
- Contract, Management Science Group, U. S. Department of Veterans Affairs, Bedford, Massachusetts (July 15, 1998–August 31, 1998; \$15,004.00)
- Contract, Management Science Group, U. S. Department of Veterans Affairs, Bedford, Massachusetts (July 14, 1997–August 22, 1997; \$14,436.68)
- National Science Foundation Grant no. SBR–9631389, co-principal investigator (October 1, 1996–September 30, 1997; \$25,392).
- Contract, Management Science Group, U. S. Department of Veterans Affairs, Bedford, Massachusetts (July 1, 1996–July 31, 1996; \$9,011.51)
- Contract, Management Science Group, U. S. Department of Veterans Affairs, Bedford, Massachusetts (June 1, 1995–July 31, 1995; \$17,180.80)
- National Science Foundation Grant no. SBR–9410501, co-principal investigator (October 15, 1994–September 30, 1996; \$78,182).
- Contract, Management Science Group, U. S. Department of Veterans Affairs, Bedford, Massachusetts (July 1, 1994–August 31, 1994; \$14,454.00)
- US Department of Housing and Urban Development Grant no. H–5936–SG, principal investigator, (April 1, 1994–September 1, 1996; \$15,000).
- National Science Foundation Grant no. SBR–9308914, co-principal investigator (August 1, 1993–July 31, 1994; \$28,508).

- Contract, Management Science Group, U. S. Department of Veterans Affairs, Bedford, Massachusetts (June 1, 1993–July 31, 1993; \$13,161.14)
- Contract, Management Science Group, U. S. Department of Veterans Affairs, Bedford, Massachusetts (July 1, 1992–August 31, 1992; \$9,068.80)
- University Research Institute summer grant, University of Texas at Austin (awarded December 1991; \$10,500).
- Contract, Management Science Group, U. S. Department of Veterans Affairs, Bedford, Massachusetts (September 1, 1991–January 15, 1992; \$17,279.80)
- Contract, Management Science Group, U. S. Department of Veterans Affairs, Bedford, Massachusetts (June 1, 1991–August 31, 1991; \$13,380.00)
- Contract, Management Science Group, U. S. Department of Veterans Affairs, Bedford, Massachusetts (September 1, 1990–January 15, 1991; \$15,890.00)
- Advanced Computational Methods Center, University of Georgia grant (awarded September 22, 1988; \$46,500).
- IBM Corporation Research Grant #RSP-2008 (awarded June, 1988; \$4200 plus 500 hours of CPU time at IBM Cambridge Scientific Center; renewed August, 1989 with additional 500 hours CPU time; renewed May, 1990 with additional 1000 hours CPU time).
- Faculty Research Grant, University of Georgia Research Foundation (awarded April, 1987; \$3635).
- Faculty Research Grant, University of Georgia Research Foundation (awarded November, 1985; \$4119).

EDITORIAL AND REFEREE ACTIVITY:

- December 2002–present:
Editor, *Journal of Productivity Analysis*
- July 1998–December 2002:
Associate Editor, *Journal of Productivity Analysis*
- Grant agencies refereed for:
 - National Science Foundation (U.S.)
 - Fonds National Suisse de la Recherche Scientifique
 - Research Grants Council of Hong Kong
- Journals refereed for:
Agricultural Economics, American Economic Review, American Journal of Agricultural Economics, American Real Estate and Urban Economics Association Journal, Annals of Operations Research, Canadian Journal of Operational Research and Information Processing,

Cyprus Journal of Economics, Decision Support Systems, Economica, Economic Inquiry, Empirical Economics, European Economic Review, European Journal of Operational Research, International Economic Review, International Journal of Production Economics, Journal of Applied Econometrics Journal of Banking and Finance, Journal of Business and Economic Statistics, Journal of Comparative Economics, Journal of Econometrics, Journal of Economics and Business, Journal of Economics and Finance, Journal of Environmental Economics and Management, Journal of Macroeconomics, Journal of Money, Credit, and Banking, Journal of Productivity Analysis, Journal of Regional Science, Journal of the American Statistical Association, Journal of Urban Economics, Management Science, Mathematical Programming, National Science Foundation, National Tax Journal, Omega, Operations Research, Quarterly Review of Economics and Finance, Regional Science and Urban Economics, Resource and Energy Economics, Review of Accounting and Finance, Review of Economics and Statistics, Social Science Quarterly, Southern Economic Journal, Studies in Regional and Urban Planning, Trabajos de Investigación Operativa, Transportation, Water Resources Research, World Bank Economic Review

INVITED PRESENTATIONS AT PROFESSIONAL MEETINGS:

- “Some Comments on Model Selection for Efficiency Analysis,” 11th European Workshop on Efficiency and Productivity Analysis, Pisa, Italy, 23–26 June 2009.
- “Asymptotic Properties of some Non-parametric Hyperbolic Efficiency Estimators,” conference on Exploring Research Frontiers in Contemporary Statistics and Econometrics, Université Catholique de Louvain, Louvain-la-Neuve, Belgium, 14–15 May 2009.
- “A Computationally Efficient, Consistent Bootstrap for Inference with Non-parametric DEA Estimators,” International Statistical Institute (ISI) satellite meeting on semi-parametric methods in statistics and econometrics, Lisbon, Portugal, 20–22 August 2007.
- “Comments on ‘DEA—The Mathematical Programming Approach to Efficiency Analysis’,” 10th European Workshop on Efficiency and Productivity Analysis, Lille, France, 27–30 June 2007.
- “Efficiency in Education Production among PISA Countries, with Emphasis on Transitioning Economies,” The **XII** International Conference on Economic Cybernetics, Academy of Economic Studies, Bucharest, Romania, 2–4 November 2006.
- “An Empirical Analysis of the Fed’s Payments Services,” James A. Baker III Institute for Public Policy conference on The Use of Econometrics in Informing Public Policy Matters, Rice University, Houston, Texas, 22–23 April 2006.

- “Efficiency in Education Production among PISA Countries, with Emphasis on Transitioning Economies,” presented at conference on Myths and Realities of Productivity Miracles and Failures in Transitional Economies, Kyiv-Mohyla Academy (Kyiv National University), Kyiv, Ukraine, 4–5 July 2005.
- “Estimation and Inference in Two-Stage, Semi-Parametric Models of Production Processes,” presented at Workshop on Quantitative Methods for the Measurement of Organizational Efficiency, Institute for Fiscal Studies, University College, London, UK, 18 November 2002.
- Lecture on bootstrap methods in efficiency estimation, delivered at the Central and Eastern European Workshop on Efficiency and Productivity Analysis, Academia de Studii Economice, Bucharest, Romania, 28–29 June 2002.
- “Estimation and Inference in Two-Stage, Semi-Parametric Models of Production Processes,” presented at *XXXIV*èmes Journées de Statistique, Société Française de Statistique, Bruxelles, Belgium, 13–17 May 2002 (annual meeting of the French Statistical Society).
- “Testing Independence in Models of Productive Efficiency,” presented at Workshop on DEA at The University of Southern Denmark, 21–22 September 2001, Odense, Denmark.
- “Nonparametric Analysis of Returns to Scale and Product Mix among US Hospitals,” presented at Seventh Northeast Regional Health Economics Research Symposium, Newport, Rhode Island, August 2000.
- “Nonparametric Tests of Returns to Scale,” presented at Fifth European Workshop on Efficiency and Productivity Analysis, Copenhagen, Denmark, October 1997.
- “US Veterans’ Demand for Health-Care Services,” presented at Fifth Northeast Regional Health Economics Research Symposium, Newport, Rhode Island, August 1997.
- “Numerical Aspects of Bootstrapping,” presented at Fourth European Workshop on Efficiency and Productivity Measurement, CORE, Louvain-la-Neuve, Belgium, October 1995.
- “Decomposing Hospital Productivity Changes: A Nonparametric Malmquist Approach,” presented at Third European Workshop on Efficiency and Productivity Measurement, CORE, Louvain-La-Neuve, Belgium, October 1993.
- “Determinants of Technical Efficiency in the US Hospital Industry,” presented at Second Annual Northeast Regional Health Research Symposium, Newport, Rhode Island, August, 1993.
- “Technical Efficiency and Shifting Technology in Federal v. NonFederal Hospitals,” presented at First Annual Northeast Regional Health Research Symposium, Newport, Rhode Island, September 1992.
- “Technical Efficiency and Shifting Technology in Federal v. NonFederal Hospitals,” presented at Western Economic Association meetings, San Francisco, July 1992.

- “Technical Efficiency in VA and Nonfederal Hospitals: Explaining Measured Differences in Best Practice Frontiers,” presented at U. S. Department of Veterans Affairs Symposium, Bedford, Massachusetts, December 1991.
- “A Bootstrap Methodology for DEA-type Efficiency Models,” Conference on Current Issues in Productivity, Rutgers University, Newark, New Jersey, December 1991.
- “Technical Efficiency in VA Hospitals,” U. S. Department of Veterans Affairs Symposium, Lexington, Massachusetts, June 1991.
- “On the Relative Efficiency of Alternative Modes of Producing Public Sector Output: The Case of the Developmentally Disabled,” Conference on Current Issues in Productivity, Rutgers University, Newark, New Jersey, December 1989.
- “User Fees and the Problem of Externalities,” presented at Western Economic Association meetings, Los Angeles, June 1988.

CONTRIBUTED PAPERS PRESENTED AT PROFESSIONAL MEETINGS:

- “A Simple, Tractable Bootstrap for DEA Estimators in Non-parametric Frontier Models,” 11th European Workshop on Efficiency and Productivity Analysis, Pisa, Italy, 23–26 June 2009.
- “Efficiency and Productivity Change among U.S. Credit Unions, 1989–2006,” North American Productivity Workshop, Stern School of Business, New York University, June 2008.
- “Robust Non-parametric Quantile Estimation of Efficiency and Productivity Change in U.S. Commercial Banking, 1985–2004,” 10th European Workshop on Efficiency and Productivity Analysis, Lille, France, 27–30 June 2007.
- “Estimation and Inference in Cross-Sectional, Stochastic Frontier Models,” European Meetings of the Econometric Society, Universität Wien, Vienna, Austria, August 2006.
- “Efficiency in Education Production among PISA Countries, with Emphasis on Transitioning Economies,” North American Productivity Workshop, Stern School of Business, New York University, June 2006.
- “Estimation and Inference in Cross-Sectional, Stochastic Frontier Models,” presented at Ninth European Workshop on Efficiency and Productivity Analysis, Brussels, Belgium, June–July 2005.
- “FEAR 1.0: A Software Package for Frontier Efficiency Analysis with R,” presented at Ninth European Workshop on Efficiency and Productivity Analysis, Brussels, Belgium, June–July 2005.
- “Estimation and Inference in Two-Stage, Semi-Parametric Models of Productive Efficiency,” European Meetings of the Econometric Society, Universidad CARlos III de Madrid, Madrid, Spain, August 2004.

- “Robust Nonparametric Estimation of Efficiency and Technical Change in U.S. Commercial Banking,” North American Productivity Workshop, University of Toronto, June 2004.
- “Robust Nonparametric Estimation of Efficiency and Technical Change in U.S. Commercial Banking,” North American summer meetings of the Econometric Society, Brown University, Providence, Rhode Island, June 2004.
- “Robust Nonparametric Estimation of Efficiency and Technical Change in U.S. Commercial Banking,” Panel Data Conference, Texas A&M University, College Station, Texas, June 2004.
- “A Simple, Tractable Bootstrap for DEA Estimators in Non-parametric Frontier Models,” presented at Eighth European Workshop on Efficiency and Productivity Analysis, University of Oviedo, Oviedo, Spain, October 2003.
- “Estimation and Inference in Two-Stage, Semi-Parametric Models of Productive Efficiency,” presented at North American Productivity Workshop, Union College, Schenectady, NY, June 2002.
- “Testing for Differences in Hospital Costs,” presented at Seventh European Workshop on Efficiency and Productivity Analysis, University of Oviedo, Oviedo, Spain, September 2001.
- “Nonparametric Analysis of Returns to Scale and Product Mix among US Hospitals,” presented at North American summer meetings of the Econometric Society, Washington, DC, June 2001.
- “Nonparametric Analysis of Returns to Scale and Product Mix among US Hospitals,” presented at North American Productivity Workshop, Albany, New York, June 2000.
- “Testing Restrictions in Nonparametric Efficiency Models,” presented at Sixth European Workshop on Efficiency and Productivity Analysis, Copenhagen, Denmark, October 1999.
- “A Tale of Two Health-Care Systems: US Veterans’ Demand for Health-Care Services,” presented at European meetings of the Econometric Society, Berlin, August 1998.
- “New Evidence on Returns to Scale and Product Mix among US Commercial Banks,” presented at North American summer meetings of the Econometric Society, Montreal, June 1998.
- “Why do Banks Disappear? The Determinants of US Bank Failures and Acquisitions,” presented at Fourth European Workshop on Efficiency and Productivity Measurement, CORE, Louvain-la-Neuve, Belgium, October 1995.
- “Bootstrap Methodologies for Nonparametric Efficiency Models,” presented at Econometric Society Seventh World Congress, Tokyo, August 1995.
- “Bootstrap Methodologies for Nonparametric Efficiency Models,” presented at Georgia Productivity Workshop, Athens, Georgia, October 1994.

- “Explaining Variation in Measured Technical Efficiency among US Hospitals,” presented at American Statistical Association Meetings, Toronto, August 1994.
- “Explaining Variation in Measured Technical Efficiency among US Hospitals,” presented at The Institute of Management Sciences Meetings, Anchorage, June 1994.
- “Explaining Differences in Technical Efficiency Between Federal and Nonfederal Hospitals: The Relevance of Aggregate Quality Indicators,” presented at American Economic Association Meetings, Boston, January 1994.
- “Count-Data Models without Mean-Variance Restrictions,” presented at European meeting of the Econometric Society, Brussels, August 1992.
- “A Bootstrap Methodology for Estimating Production Efficiency with Multiple Inputs and Multiple Outputs,” presented at European meeting of the Econometric Society, Brussels, August 1992.
- “Technical Efficiency and Shifting Technology in Federal v. NonFederal Hospitals,” presented at American Statistical Association meetings, Boston, August 1992.
- “Count-Data Models without Mean-Variance Restrictions,” presented at North American summer meeting of the Econometric Society, Seattle, June 1992.
- “Technical Efficiency in VA Hospitals,” American Statistical Association meetings, Atlanta, Georgia, August 1991.
- “Measuring Efficiency in the Care of the Developmentally Disabled,” 11th European Congress on Operational Research, Rheinisch-Westfälische Technische Hochschule, Aachen, Germany, July 1991.
- “The Bias of Bootstrapped versus Conventional Standard Errors in the General Linear and SUR Models,” winter meeting of the Econometric Society, Washington, DC, December 1990.
- “Anti-Strike Laws, Bargaining Legislation, and Work Stoppages by Public School Teachers,” Western Economic Association meetings, San Diego, CA, July 1990.
- “Highway Traffic Relationships and Implementation of Congestion Tolls,” winter meeting of the Econometric Society, New York, December 1988.
- “Deadweight Loss in Congestion Pricing Schemes,” Western Economic Association meetings, Vancouver, BC, July 1987.
- “Residential Location and Scheduling of Work Hours,” Southern Regional Science Association meetings, Atlanta, March 1987.
- “Predicting Urban Trip Frequencies by Type,” 1986 summer meetings of the Econometric Society, Durham, NC, July 1986.

OTHER PROFESSIONAL ACTIVITIES:

- Session Chair, Semi- and Non-parametric Methods, European Meetings of the Econometric Society, Universität Wein, Vienna, Austria, August 2006.
- Session Chair, Getting the Zs into Efficiency Analysis, North American Productivity Workshop, Stern School of Business, New York University, June 2006.
- Session Chair, Advanced Parametric Approaches for Efficiency Estimation, Ninth European Workshop on Efficiency and Productivity Analysis, Brussels, Belgium, June–July 2005.
- Session Chair, Cost and Production Analysis, European Meetings of the Econometric Society, Universidad CARLOS III de Madrid, Madrid, Spain, August 2004.
- Session Chair, Banking, North American Productivity Workshop, University of Toronto, June 2004.
- Discussant, North American Productivity Workshop, University of Toronto, June 2004.
- Session Chair, Dynamic and Non-Linear Models, North American summer meetings of the Econometric Society, Brown University, June 2004.
- Organized Eighth Annual Texas Econometrics Camp, Fredericksburg, Texas, February 2003.
- Session Chair, Boosting Methods in Classification, Workshop on Statistical Modelling and Inference for Complex Data Structures, Louvain-la-Neuve, Belgium, May 2002.
- Session Chair, Robust Estimation of Frontiers, XXXIV^{èmes} Journées de Statistique, Société Française de Statistique, Bruxelles, Belgique, May 2002 (annual meeting of the French Statistical Society).
- Session Chair, Outliers in DEA, Seventh European Workshop on Efficiency and Productivity Analysis, University of Oviedo, Oviedo, Spain, September 2001.
- Discussant, Workshop on DEA at The University of Southern Denmark, 21–22 September 2001, Odense, Denmark.
- Organized Y2K Murray S. Johnson Memorial Conference on Less than Fully-Parametric Estimation in Empirical Microeconomics, University of Texas, Austin, 15–16 April, 2000.
- Session Chair, Hospital Efficiency, Sixth European Workshop on Efficiency and Productivity Analysis, Copenhagen, October 1999.
- Discussant, Sixth Northeast Regional Health Economics Research Symposium, Newport, Rhode Island, August, 1998.
- Organized Third Annual Texas Econometrics Camp, Lago Vista, Texas, February 1998.

- Session chair, Bootstrapping in Efficiency Models, Fifth European Workshop on Efficiency and Productivity Analysis, Copenhagen, October 1997.
- Session chair, Production Functions, Econometric Society Seventh World Congress, Tokyo, August 1995.
- Discussant, Marginal Costs in General Acute Care Hospitals, Third Annual Northeast Regional Health Research Symposium, Newport, Rhode Island, August, 1994.
- Session organizer and chair, DEA Applications in the Health Care Industry, The Institute of Management Science Meetings, Anchorage, June 1994.
- Discussant, Bayesian Cost-Benefit Analysis for Medical Treatment Decisions, First Annual Northeast Regional Health Research Symposium, Newport, Rhode Island, September 1992.
- Discussant, Measuring the Quality of Health Care, Western Economic Association meetings, San Francisco, July 1992.
- Session chair, Statistical Analysis of Household Behaviour and Demand, American Statistical Association meetings, Atlanta, August 1991.
- Discussant, Housing Economics, Western Economic Association meetings, San Diego, July 1990.
- Discussant, Transportation Economics, Western Economic Association meetings, Los Angeles, June 1988.
- Discussant, Urban and Housing Economics, Western Economic Association meetings, Vancouver, BC, July 1987.
- Session chair, Quantitative Economic Methods, Western Economic Association meetings, Vancouver, BC, July 1987.
- Discussant, Rural Labor Markets, Southern Regional Science Association meetings, Atlanta, March 1987.

TEACHING EXPERIENCE:

- Econometrics (graduate and undergraduate)
- Urban Economic Theory (graduate and undergraduate)
- Macro Principles
- Intermediate Macro

THESES AND DISSERTATIONS SUPERVISED:

- Ph.D., Inna Cintina, in progress (committee chair).
- Ph.D., Liliana Danila, in progress (committee chair).
- Ph.D., Arpita Biswas, in progress (committee co-chair).
- Dottorato di Ricerca, Simone Gitto, Dipartimento di Ingegneria Economico-Gestionale, Università degli Studi di Roma “Tor Vergata” (co-advisor).
- Ph.D., Octavian Vasilescu, Department of Economics, Clemson University, 2007 (committee chair).
- Ph.D., Sebastian Negrusa, Department of Economics, Clemson University, 2007 (committee member).
- Ph.D., Xiaokun Wang, Department of Civil Engineering, University of Texas at Austin, 2007 (committee member).
- Ph.D., Seok Hoon Lee, Department of Economics, University of Texas at Austin, 2006 (committee co-chair).
- Ph.D., Christy Spivey, Department of Economics, University of Texas at Austin, 2006 (committee member).
- Ph.D., Caitlin Knowles Myers, Department of Economics, University of Texas at Austin, 2005 (committee co-chair).
- Ph.D., Shih-Chang Lin, Department of Economics, University of Texas at Austin, 2004 (committee member).
- Ph.D., Teresa Harrison, Department of Economics, University of Texas at Austin, 2002 (committee chair).
- D.Sc., Claire Beguin, Institut de Statistique, Université Catholique de Louvain, Louvain-la-Neuve, Belgium, 2002 (committee member).
- Ph.D., Taekyu Lee, Department of Economics, University of Texas at Austin, 2002 (committee co-chair).
- Ph.D., Sandra Vela, Department of Chemical Engineering and Applied Chemistry, University of Toronto, 2002 (committee member).
- Ph.D., Çağatay Koç, Department of Economics, University of Texas at Austin, 2000 (committee member).
- D.Sc., Huey-Wen Shaw, Department d’Administration et de Gestion, Université Catholique de Louvain, Louvain-la-Neuve, Belgium, 1999 (committee member).
- Ph.D., David Trybula, Department of Economics, University of Texas at Austin, 1999 (committee member).
- Ph.D., Sarah West, Department of Economics, University of Texas at Austin, 1999 (committee member).

- Ph.D., Ernan E. Haruvy, Department of Economics, University of Texas at Austin, 1999 (committee member).
- D.Sc., Christian Weiner, Institut de Statistique, Université Catholique de Louvain, Louvain-la-Neuve, Belgium, 1998 (committee member).
- Ph.D., Christopher Z. Galbraith, Department of Economics, University of Texas at Austin, 1996 (committee chair).
- Ph.D., Ahsan H. Chowdhury, Department of Electrical and Computer Engineering, University of Texas at Austin, 1996 (committee member).
- Ph.D., Andres Chambouleyron, Department of Economics, University of Texas at Austin, 1995 (committee member).
- Ph.D., Carol Moore, Department of Economics, University of Texas at Austin, 1994 (committee chair).
- Ph.D., Arshad Mansoor, Department of Electrical and Computer Engineering, University of Texas at Austin, 1994 (committee member).
- M.A., Christopher Z. Galbraith, Department of Economics, University of Texas at Austin, 1992 (committee chair).
- Ph.D., James E. McIntyre, Jr., Department of Finance, University of Georgia, 1990 (committee member).
- Ph.D., Ulrich Welland, Department of Economics, University of Georgia, 1988 (committee member).
- M.A., Vachira Arromdee, Department of Economics, University of Georgia, 1987 (committee member).
- Ph.D., Amos A. M. Koh, Department of Real Estate, University of Georgia, 1987 (committee member).
- Ph.D., Young Vae Kim, Department of Economics, University of Georgia, 1986 (committee member).

DEPARTMENTAL SERVICE:

- Member, Department Advisory Committee, September 2007—current.
- Member, Macaulay Chair Search Committee, September 2007—current.
- Member, Department Computer Committee, September 2005—August 2006.
- Chair, Department Computer Committee, August 2002—December 2003.
- Associate Department Chairman, September 1999—August 2001.
- Undergraduate Program Director, September 1999—August 2001.
- Chair, Graduate Admissions and Awards Committee, September 1995—August 1999.
- Assistant Graduate Advisor, September 1995—August 1999.
- Organized Murray S. Johnson Conference, 15–16 April, 2000; theme: “Applications of Semi- and Non-Parametric Estimation Methods in Empirical Microeconomics.”

- Organized Texas Econometrics Camp III, February, 1998. Camp was attended by roughly 45 faculty and students from UT, Texas A& M, Rice, SMU, and University of Houston.
- Organized Texas Econometrics Camp VIII, February, 2003. Camp was attended by roughly 70 faculty and students from UT, Texas A& M, Rice, SMU, and University of Houston.
- Served as liaison for UT Economics Department in organization of Texas Econometrics Camps for 1996, 1997, 1999, 2000, 2001, 2002, 2005, and 2006.
- Department Computer Committee, September 1990—April 1993; installed department's first unix workstations, set up TCP/IP network, etc.

SPECIAL SKILLS:

- Extensive experience with:
 - FORTRAN, C, PL/1, APL, programming languages;
 - Application programming in MPI and OpenMP environments;
 - *R* package development;
 - HTML programming;
 - UNIX and LINUX operating system, system administration, TCP/IP networking;
 - OS/370 (IBM) and PAL (Digital Equipment Corp.) Assembly languages;
 - OS/VS1, OS/VS2-MVS TSO, VM370, DOS (IBM) operating systems;
 - MCP (Burroughs) and NOS (Control Data Corp.) operating systems.

PROFESSIONAL ORGANIZATION MEMBERSHIPS:

- American Economic Association
- American Statistical Association
- Econometric Society
- Institute of Mathematical Statistics