Professor Jerry A. Hausman

April 2020

EDUCATION:

OXFORD UNIVERSITY

D. Phil. 1973 (Ph.D), B. Phil. 1972

BROWN UNIVERSITY

A.B. (Summa Cum Laude), 1968

THESIS: "A Theoretical and Empirical Study of Vintage Investment and Production in Great Britain,"

Oxford University, 1973.

FELLOWSHIPS, HONORS AND AWARDS:

Phi Beta Kappa

Marshall Scholar at Oxford, 1970-1972

Scholarship at Nuffield College, Oxford, 1971-1972

Fellow, Econometric Society, 1979

Frisch Medal of the Econometric Society, 1980

Fisher-Schultz Lecture for the Econometric Society, 1982

John Bates Clark Award of the American Economic Association, 1985

Smith Lectures, Brigham Young University 1986

Jacob Marschak Lecture for the Econometric Society, 1988

Hooker Lectures, Macmaster University 1989

Fellow, National Academy of Social Insurance, 1990

American Academy of Arts and Sciences, 1991

Fellow, Journal of Econometrics, 1998

Shann Memorial Lecture for the Australian Economics Society, 2003

Cenmap International Fellow, University College London, 2004

Honorary Professor, Xiamen University, 2005

Biennial Medal of the Modeling and Simulation Society of Australia and New Zealand, 2005

Fellow, Modeling and Simulation Society of Australia and New Zealand, 2005

Condliffe Memorial Lecture, University of Canterbury, NZ, 2005

Keynote Lecture, Far East Meetings of Econometric Society, Beijing 2006

Keynote Speaker, ACCC Conference, Australia, 2006

Keynote Speaker, Panel Data Conference, Xiamen China, 2007

Keynote Speaker, FTC/Northwestern Antitrust Conference, 2008

Honorary Fellow, Nuffield College, Oxford University, 2008

Journal of Applied Econometrics Lectures, 2009

Leigh Lecture, Washington State University, 2009

MIT UEA Teaching Award, 2009

Journal of Financial Economics "All Star Paper", 2009

Honorary Advisory Board, Chang Mai University, Thailand, 2009-

Honorary Degree, Chang Mai University, Thailand 2010

Keynote Speaker, UC Berkeley Conference on Mobile Telecommunications, 2010

Keynote Speaker, Xiamen University (China) conference on 30 Years of Specification Tests, 2010

Tinbergen Lectures, Tinbergen Institute, Netherlands, 2011

Keynote Speaker, Econometrics Conference, Cambridge Univ., UK, 2011

HOH Lectures, Humboldt Univ. Berlin, 2011

Gorman Lectures, University College London, 2011

Conference on the Hausman Specification Test, Louisiana State Univ., 2012

Keynote Speaker, 18th Panel Data Conference, Paris, 2012

American Economic Association Distinguished Fellow 2013

Keynote Speaker, Cambridge University Conference on Panel Data, 2013

Conference in Honor of Jerry Hausman, Curtin University, Fremantle, Australia, 2013

Keynote Speaker, Africa-Asia-Australia Telecommunications Conference, Perth, Australia, 2013

Keynote Speaker, Conference on TOU Prices, Nenching China, 2013 Conference in Honor of Jerry Hausman, Xiamen University China, 2014

Keynote Speaker, Conference in Honor of Jerry Hausman, Xiamen University China, 2014

Keynote Speaker, 22nd Panel Data conference, Fremantle, Australia, 2016

Bateman Lecture, University of Western Australia, 2016

Keynote Lecture, Universidad Nacional de Colombia, Bogota, 2016

Distinguished Speaker Series, UCLA, 2017

G. Chow lecture, Xiamen University, China 2017

British Academy, Corresponding Member, 2018

Keynote Speaker, Chinese Academy of Sciences UCI Conference, 2018

Laureate Distinguished Fellowship of IETI, 2019

EMPLOYMENT:

MASSACHUSETTS INSTITUTE OF TECHNOLOGY John and Jennie S. MacDonald Professor, Post-t

2016-	John and Jennie S. MacDonald Professor, Post-tenure
1992-2016	John and Jennie S. MacDonald Professor
1979-	Professor, Department of Economics
1976-79	Associate Professor, Department of Economics
1973-76	Assistant Professor, Department of Economics
1972-73	Visiting Scholar, Department of Economics

VISITING APPOINTMENTS:

2018-	Visiting Scholar, UCLA
2016-17	Distinguished Visiting Professor of Economics, UCLA
1986-87	Visiting Professor, Harvard Business School
1982-83	Visiting Professor, Harvard University Department of Ec

Visiting Professor, Harvard University Department of Economics

Visiting Positions: University of Washington, Australian National University, Ecole Normale Supérieure, Oxford University, University of Sydney, Wuhan University, Beijing University, University of Western Australia, University College London, Uppsala University, Xiamen

University, Sorbonne

U.S. ARMY, ANCHORAGE, ALASKA

1968-70 Corps of Engineers

PROFESSIONAL ACTIVITIES:

Associate Editor, Bell Journal of Economics, 1974-1983

Associate Editor, Rand Journal of Economics, 1984-1988

Associate Editor, Econometrica, 1978-1987 Reviewer, Mathematical Reviews, 1978-1980

American Editor, Review of Economic Studies, 1979-82 Associate Editor, Journal of Public Economics, 1982-1998

Associate Editor, Journal of Applied Econometrics, 1985-1993, 2009-

Advisory Editor, Economics Research Network and Social Science Research, 1998-

Advisory Editor, Journal of Sports Economics, 1999-

Advisory Editor, Journal of Competition Law & Economics, 2004-

Advisory Editor, Journal of Applied Economics, 2005-

Member of MIT Center for Energy and Environmental Policy Research, 1973-1995

Research Associate, National Bureau of Economic Research, 1979-

Member, American Statistical Association Committee on Energy Statistics, 1981-1984

Special Witness (Master) for the Honorable John R. Bartels, U.S. District Court for the Eastern

District of New York in Carter vs. Newsday, Inc., 1981-82

Member of Governor's Advisory Council (Massachusetts) for Revenue and Taxation, 1984-1992

Advisor US Social Security Commission 1982-1983

Member, Committee on National Statistics, 1985-1990

Member, National Academy of Social Insurance, 1990-

Member, Committee to Revise U.S. Trade Statistics 1990-1992

Director, MIT Telecommunications Economics Research Program, 1988-

Board of Directors, Theseus Institute, France, 1988-1995

Member, Conference on Income and Wealth, National Bureau of Economic Research, 1992-

Member, Committee on the Future of Boston, 1998

Member, GAO Expert Panel to Advise USDA on Econometric Models of Cattle Prices, 2001-2

Advisor, China Ministry of Information on Telecommunications Regulation, 2002-2006

Member, FTC Panel on Merger Evaluation, 2005

Advisor, New Zealand Commerce Commission 2010

Member, Panel Data Conference Advisory Board, 2017

PUBLICATIONS:

I. Econometrics

- "Minimum Mean Square Estimators and Robust Regression," Oxford Bulletin of Statistics, April 1974.
- "Minimum Distance and Maximum Likelihood Estimation of Structural Models in Econometrics," delivered at the *European Econometric Congress, Grenoble: August 1974*.
- "Full-Information Instrumental Variable Estimation of Simultaneous Equation Models," <u>Annals of Economic and Social Measurement</u>, vol. 3, 641-652, October 1974.
- "Estimation and Inference in Nonlinear Structural Models," <u>Annals of Economic and Social Measurement</u>, 653-665, October 1975. (with E. Berndt, R.E. Hall, and B.H. Hall)
- "An Instrumental Variable Approach to Full-Information Estimators in Linear and Certain Nonlinear Econometric Models," *Econometrica*, Vol. 43(4), 727-738, 1975.
- "Simultaneous Equations with Errors in Variables," Journal of Econometrics 5, 1977.
- "Social Experimentation, Truncated Distributions, and Efficient Estimation," *Econometrica*, Vol. 45(4), 919-938, 1977. (with D. Wise)
- "A Conditional Probit Model for Qualitative Choice," with D. Wise, *Econometrica*, Vol. 46(2), 403-426, 1978.
- "Specification Tests in Econometrics," Econometrica, vol. 46(6), 1273-1291, 1978.
- "Non-Random Missing Data," with A.M. Spence, MIT Working Paper 200, May 1977.
- "Attrition Bias in Experimental and Panel Data: The Gary Income Maintenance Experiment," with D. Wise, *Econometrica*, vol. 47(2), 455-473, 1979.
- "Missing Data and Self Selection in Large Panels," <u>Annales de l'INSEE</u>, April 1978. (with Z. Griliches and B.H. Hall)
- "Stratification on Endogenous Variables and Estimation," in *The Analysis of Discrete Economic Data*, ed. C. Manski and D. McFadden, MIT Press, 1981. (with D. Wise)
- "Les models probit de choix qualitatifs," ("Alternative Conditional Probit Specifications for qualitative Choice.") (English Version), September 1977; EPRI report on discrete choice models, <u>Cahiers du Seminar d'Econometrie</u>,

1980.

- "The Econometrics of Labor Supply on Convex Budget Sets," *Economics Letters*, vol. 3(2), 171-174, 1979.
- "Panel Data and Unobservable Individual Effects," Econometrica, vol. 49(6), 1377-1398, 1981. (with W. Taylor)
- "Comparing Specification Tests and Classical Tests", (with W. Taylor) Economics Letters, 1981.
- "The Effect of Time on Economic Experiments," invited paper at Fifth World Econometrics Conference, August 1980; in Advances in Econometrics, ed. W. Hildebrand, Cambridge University Press, 1982.
- "Sample Design Considerations for the Vermont TOD Use Survey," with John Trimble, <u>Journal of Public Use Data</u>, 9, 1981.
- "Specification and Estimation of Simultaneous Equation Models," in <u>Handbook of Econometrics</u>, ed. Z. Griliches and M. Intriligator, vol. 1, 1983.
- "Identification in Simultaneous Equations Systems with Covariance Restrictions: An Instrumental Variables Interpretation," with W. Taylor, *Econometrica*, Vol. 51(5), 15-27-1549, 1983.
- "Stochastic Problems in the Simulation of Labor Supply," in <u>Tax Simulation Models</u>, ed. M. Feldstein, University of Chicago Press, 1983.
- "The Design and Analysis of Social and Economic Experiments," invited paper for 43rd International Statistical Institute Meeting, 1981; *Review of the ISI*.
- "Full-Information Estimators," in Kotz-Johnson, Encyclopedia of Statistical Science, vol. 3, 1983
- "Instrumental Variable Estimation," in Kotz-Johnson, Encyclopedia of Statistical Science, vol. 4, 1984
- "Specification Tests for the Multinomial Logit Model," with D. McFadden, *Econometrica*, vol. 52(5), 1219-1240. 1984.
- "Econometric Models for Count Data with an Application to the Patents R&D Relationship," *Econometrica*, vol. 52(4), 909-938. 1984.(with Z. Griliches and B. Hall)
- "The Econometrics of Nonlinear Budget Sets," Fisher-Shultz lecture for the Econometric Society, Dublin: 1982; <u>Econometrica</u>, vol. 53(6) 1255-1282, 1985.
- "The J-Test as a Hausman Specification Test," with H. Pesaran, Economic Letters, 1983.
- "Seasonal Adjustment with Measurement Error Present," with M. Watson, <u>Journal of the American Statistical Association</u>, 1985.
- "Efficient Estimation and Identification of Simultaneous Equation Models with Covariance Restrictions," with W. Newey and W. Taylor, *Econometrica*, 55, 1987.
- "Technical Problems in Social Experimentation: Cost Versus Ease of Analysis," with D. Wise, in <u>Social Experimentation</u>, ed. J. Hausman and D. Wise, 1985.
- "Errors in Variables in Panel Data," with Z. Griliches, Journal of Econometrics, 31, 1986, 93-118.
- "Specifying and Testing Econometric Models for Rank-Ordered Data," with P. Ruud; *Journal of Econometrics*, vol. 34(1-2), 83-104. 1987.
- "Semiparametric Identification and Estimation of Polynomial Errors in Variables Models," with W. Newey, J. Powell and H. Ichimura, <u>Journal of Econometrics</u>, 1991.

- "Flexible Parametric Estimation of Duration and Competing Risk Models," with A. Han, <u>Journal of Applied Econometrics</u>, 1990.
- "Consistent Estimation of Nonlinear Errors in Variables Models with Few Measurements," with W. Newey and J. Powell, 1987.
- "Optimal Revision and Seasonal Adjustment of Updated Data: Application to Housing Starts," with M. Watson, Journal of the American Statistical Association Proceedings, 1991.
- "Seasonal Adjustment of Trade Data," with R. Judson and M. Watson, ed. R. Baldwin, <u>Behind the Numbers: U.S. Trade in the World Economy</u>, 1992.
- "Nonlinear Errors in Variables: Estimation of Some Engel Curves," Jacob Marschak Lecture of the Econometric Society, Canberra 1988, with J Powell and W. Newey, *Journal of Econometrics*, vol. 65(1), 205-233. 1995.
- "Nonparametric Estimation of Exact Consumers Surplus and Deadweight Loss," with W. Newey, *Econometrica, vol.* 63(6), 1445-1476, 1995.
- "Misclassification of a Dependent Variable in Qualitative Response Models," with F. Scott-Morton and J. Abrevaya, *Journal of Econometrics*, 87, 239-269, 1998.
- "Semiparametric Estimation in the Presence of Mismeasured Dependent Variables," with J. Abrevaya, <u>Annales D'Economie et de Statistique</u>, 55-56, 1999.
- "A New Specification Test for the Validity of Instrumental Variables,", <u>Econometrica</u>, vol. 70(1), 163-189. 2002. (with J. Hahn)
- "Microeconometrics," Journal of Econometrics, vol. 100(1), 33-35. 2000.
- "Long Difference Instrumental Variables Estimation for Dynamic Panel Models with Fixed Effects", with J. Hahn and G. Kuersteiner, mimeo May 2001, *Journal of Econometrics*, 140, 574-617, 2007.
- "Mismeasured Variables in Econometric Analysis: Problems from the Right and Problems from the Left", <u>Journal of Economic Perspectives Vol. 15(4)</u>, 57-67. 2001.
- "Estimation with Weak Instruments: Accuracy of Higher Order Bias and MSE Approximations," with J. Hahn and G. Kuersteiner, <u>Econometrics Journal vol. 7(1)</u>, 272-306. 2004. (Chosen as one of best papers in journal over the previous 10 years, 2008)
- "Notes on Bias in Estimators for Simultaneous Equation Models", with J. Hahn, Economic Letters, 2002
- "Triangular Structural Model Specification and Estimation with Application to Causality", <u>Journal of Econometrics</u>, Vol. 112(1), 107-113, 2003
- "Weak Instruments: Diagnosis and Cures in Empirical Econometrics", with J. Hahn, <u>American Economic Review</u>, Vol. 93(2), 118-125, 2003.
- "Instrumental Variable Estimation with Valid and Invalid Instruments", with J. Hahn, August 2003, <u>Annales d'Economie et Statistique</u>, No. 79-80, 2005.
- "Difference in Difference Meets Generalized Least Squares: Higher Order Properties of Hypotheses Tests", with G. Kuersteiner, *Journal of Econometrics*, 144, 371-391, 2008.
- "Response Error in a Transformation Model: Estimation of Wage Equations," with Jason Abrevaya, <u>Econometrics</u> <u>Journal</u>, Vol. 7(2), 366-388. 2004

- "Asymptotic Properties of the Hahn-Hausman Test for Weak Instruments", with J. Stock and M. Yogo, <u>Economic Letters</u>, vol. 89(3), 333-342. 2005.
- "Many Weak Instruments and Microeconometric Practice," with C. Hansen and W. Newey, *Journal of Business and Economic Statistics*, 26, 398-422, 2008.
- "A Semi-Parametric Duration Model with Heterogeneity that Does Not Need to be Estimated," with T. Woutersen, Econometric Society World Meetings, London, 2005, <u>Journal of Econometrics</u>, 178, 2014, 114-131.
- "Estimating the Derivative Function with Counterfactuals in Duration Models with Heterogeneity," with T. Woutersen, Econometrics Reviews, 33, 2014, 472-496.
- "Using a Laplace Approximation to Estimate the Random Coefficients Logit Model by Non-linear Last Squares", with M. Harding, December 2005, International Economic Review, 2007.
- "Duration Models," New Palgrave, with T. Woutersen, March 2006.
- "Hausman Tests". *Encyclopedia of the Social Sciences*, 2nd ed., Woodbridge, CT: MacMillan Reference USA, (with H. White), (2007)
- "IV estimation with Heteroskedasticity and Many Instruments," with W. Newey T. Woutersen, J. Chao, and N. Swanson, March 2008, <u>Quantitative Economics</u>, 3, 2012..
- "Testing for Causal Effects in a Generalized Regression Model with Endogenous Regressors," with J. Abrevaya and S. Khan, March 2007, <u>Econometrica</u>, 2010.
- "Properties of the CUE Estimator and a Modification with Moments," with K. Menzel, R. Lewis, and W. Newey, September 2007, <u>Journal of Econometrics</u>, 165, 45-57, 2011
- "Asymptotic Distribution of JIVE in a Heteroskedastic IV Regression with Many Instruments," with J. Chao, W. Newey, N. Swanson, and T. Woutersen, May 2008, <u>Econometric Theory</u>, 2011
- "A Bayesian Mixed Logit-Probit Model for Multinomial Choice," with M. Burda & M. Harding *Journal of Econometrics*, 147, 232-246, 2008.
- "A Poisson Mixture Model of Discrete Choice", with M. Burda & M. Harding, October 2009, <u>Journal of Econometrics</u>. 166, 2012.
- "Testing with Heteroskedasticity and Many Instruments", with W. Newey T. Woutersen, J. Chao, and N. Swanson, <u>Journal of Econometrics</u>, 2014,.
- "A Bayesian Competing Risk Model with Unobserved Heterogeneity", with M. Burda & M. Harding,, June 2012, <u>Journal of Applied Econometrics</u>, 2015
- "Hal White: Time at MIT and Early Days of Research", in X. Chen and N. Swanson, eds., <u>Recent Advances and Future Directions in Causality, Prediction, and Specification Analysis: Essays in Honor of Halbert L. White Jr, Springer 2012.</u>
- "Heteroskedasticity-Robust Inference in Finite Samples", with C. Palmer, December 2011, <u>Economics Letters</u>, 116, 2012, 232-235
- "Testing Overidentifying Restrictions using Many Moments", with J. Chao, W. Newey N. Swanson, and T. Woutersen, <u>Journal of Econometrics</u>, 148, 2014, 15-21.

- "An Expository Note on the Existence of Moments of Fuller and HFUL Estimators", with J. Chao, W. Newey N. Swanson, and T. Woutersen, <u>Advances in Econometrics</u>, 29, "Essays in Honor of Jerry Hausman", 2013
- "Combining Two Consistent Estimators", with J. Chao, W. Newey N. Swanson, and T. Woutersen, <u>Advances in</u> Econometrics, 29, "Essays in Honor of Jerry Hausman", 2013
- "The Genesis of the Hausman Specification Test", <u>Advances in Econometrics</u>, 29, "Essays in Honor of Jerry Hausman", 2013
- "Individual Heterogeneity and Average Welfare", with W. Newey, July 2013, Econometrica, 2016
- "Errors in the Dependent Variable of Quantile Regression Models", with Y. Leo and C. Palmer, April 2014, revised May 2019
- "Finite Sample Bias Corrected IV Estimation for Weak and Many Instruments", (with M. Harding and C. Palmer) Advances in Econometrics, 36, 2016, 245-273
- "Nonparametric Welfare Analysis," (with W. Newey) Annual Review of Economics, 9, 2017, 521-546
- "A New Sampling Algorithm for the Mixed Model of Multinomial Discrete Choice", (with M. Harding and Y. Xue), April 2016.
- "Increasing the Power of Specification Tests", (with T. Woutersen), Journal of Econometrics, 211, 2019
- "An Econometric Life", Journal of Econometrics, 211, 2019
- "Estimating Dynamic Panel Models: Backing out the Nickell Bias", (with M. Pinkovskiy), November 2017, mimeo
- "Specification Test on Mixed Logit Models", (with J. Hahn and J. Lustig), December 2017, *Journal of Econometrics*, 2020
- "Demand Estimation with Many Prices", (with V. Chernozukov and W. Newey), January 2018 mimeo
- "Small Sigma Approach to Errors-in-Variables and Panel Models", (with J. Hahn and J. Kim)
- "Problems with the Control Variable Approach in Achieving Unbiased Estimates in Nonlinear Models in the Presence of Many Instruments", (with J. Hahn), June 2020, mimeo

II. Public Finance and Regulation

- "The Evaluation of Results from Truncated Samples,", with D. Wise, <u>Annals of Economic and Social Measurement</u>, vol. 5, 421-446, April 1976.
- "Discontinuous Budget Constraints and Estimation: The Demand for Housing," with D. Wise, *Review of Economic Studies*, vol. 7(146), 75-96. *January* 1980.
- "The Effect of Taxation on Labor Supply: Evaluating the Gary Negative Income Tax Experiment," with G. Burtless, <u>Journal of Political Economy</u>, vol. 86(6), 1103-1130. 1978.
- "AFDC Participation -- Permanent or Transitory?," in <u>Papers from the European Econometrics Meetings</u>, ed. E. Charatsis, North Holland: 1981.
- "The Effect of Wages, Taxes, and Fixed Costs on Women's Labor Force Participation," Journal of Public Economics.

- vol. 14(2), 161-194. October 1980.
- "The Effect of Taxes on Labor Supply," in <u>How Taxes Affect Economic Behavior</u>, ed. H. Aaron and J. Pechman, Brookings: 1981.
- "Income and Payroll Tax Policy and Labor Supply," in <u>The Supply Side Effects of Economic Policy</u>, ed. G. Burtless, St. Louis: 1981.
- "Individual Retirement Decisions Under an Employer-Provided Pension Plan and Social Security," with G. Burtless, Journal of Public Economics, 1982.
- "Individual Retirement and Savings Decisions," with P. Diamond, Journal of Public Economics, 1984.
- "Retirement and Unemployment Behavior of Older Men," in H. Aaron and G. Burtless, <u>Retirement and Economic</u> Behavior, Brookings: 1984.
- "Tax Policy and Unemployment Insurance Effects on Labor Supply," in <u>Removing Obstacles to Economic Growth</u>, ed. M. Wachter, 1984.
- "Family Labor Supply with Taxes," with P. Ruud, American Economic Review, 1984.
- "Social Security, Health Status and Retirement," with D. Wise, in <u>Pensions, Labor, and Individual Choice</u>, ed. D. Wise, 1985.
- "The Effect of Taxes on Labor Supply," in Handbook on Public Economics, ed. A. Auerbach and M. Feldstein, 1985.
- "Choice Under Uncertainty: The Decision to Apply for Disability Insurance," with J. Halpern, <u>Journal of Public Economics</u>, vol. 31(2) 131-161. 1986.
- "Household Behavior and the Tax Reform Act of 1986," with J. Poterba, <u>Journal of Economic Perspectives</u>, 1987, also published in French in Annales D'Economie et de Statistique, 1988.
- "Involuntary Early Retirement and Consumption," with L. Paquette, ed. G. Burtless, <u>Economics of Health and Aging</u>, 1987.
- "Income Taxation and Social Insurance in China," in <u>Sino-U.S. Scholars on Hot Issues in China's Economy</u>, 1990.
- "On Contingent Valuation Measurement of Nonuse Values," with P. Diamond, in <u>Contingent Valuation: A Critical Appraisal</u>, ed. J. Hausman, 1993.
- "Does Contingent Valuation Measure Preferences? Experimental Evidence," with P. Diamond, G. Leonard, M. Denning, in <u>Contingent Valuation: A Critical Appraisal</u>, ed. J. Hausman, 1993.
- "Contingent Valuation: Is Some Number Better than No Number?" with P. Diamond, December 1993, <u>Journal of Economic Perspectives</u>, 8(4), 45-64. 1994.
- "A Utility-Consistent Combined Discrete Choice and Count Data Model: Assessing Recreational Use Losses Due to Natural Resource Damage," with G. Leonard and D. McFadden, *Journal of Public Economics*, 56(1), 1-30. 1995.
- "Contingent Valuation Measurement of Nonuse Values," with P. Diamond, ed. R.B. Stewart, <u>Natural Resource Damages: A Legal, Economic, and Policy Analysis</u>, 1995.
- "A Cost of Regulation: Delay in the Introduction of New Telecommunications Services," with T. Tardiff, 1995, ed. A. Dumort and J. Dryden, <u>The Economics of the Information Society</u>, 1997.

- "Valuation and the Effect of Regulation on New Services in Telecommunications," <u>Brookings Papers on Economic Activity: Microeconomics</u>, 1997, 1-38.
- "Taxation by Telecommunications Regulation," Tax Policy and the Economy, 12(1), 29-48. 1998.
- "Taxation by Telecommunications Regulation: The Economics of the E-Rate", AEI Press, 1998.
- "Economic Welfare and Telecommunications Welfare: The E-Rate Policy for Universal Service Subsidies," with H. Shelanski, Yale Journal on Regulation, 16, 1999.
- "Efficiency Effects on the U.S. Economy from Wireless Taxation", National Tax Journal, 53, 733-742. September 2000.
- "Residential Demand for Broadband Telecommunications and Consumer Access to Unaffiliated Internet Content Providers", with H. Singer and J.G. Sidak, *Yale Journal on Regulation*, 18(1) 129-173, 2001.
- "Regulating the U.S. Railroads: The Effects of Sunk Costs and Asymmetric Risk," with S. Myers, <u>Journal of Regulatory Economics</u>, 22(3), 287-310. 2002.
- "Regulated Costs and Prices in Telecommunications," in G. Madden ed. <u>International Handbook of Telecommunications</u>, 2003.
- Will New Regulation Derail the Railroads?, Competitive Enterprise Institute, October 2001
- "Competition and Regulation for Internet-related Services", in Korea Institute for Industrial Economics and Trade, <u>Industrial Competitiveness and Competition Policy in the Era of Telecommunication Convergence</u>. 2001. (also translated into Korean in a book)
- "From 2G to 3G: Wireless Competition for Internet-Related Services," presented at Brookings Conference, October 2001, R. Crandall and J. Alleman ed., <u>Broadband</u>, Brookings, 2002.
- "Competition and Regulation for Internet-related Services: Results of Asymmetric Regulation", presented at Columbia Univ. conference, October 2001, R. Crandall and J. Alleman ed., <u>Broadband</u>, Brookings, 2002
- "United States: Lessons from the New Millennium," with R. Crandall, in A. Brown et. al. eds., <u>Telecommunications</u> <u>Reform in the Asia-Pacific Region</u>, 2004
- "Does Bell Company Entry into Long-Distance Telecommunications Benefit Consumers?," with G. Leonard and J.G. Sidak, *Antitrust Law Journal*, 70(2), 463-484, 2002.
- "Sources of Bias and Solutions to Bias in the CPI", NBER Discussion paper 9298, Oct. 2002, *Journal of Economic Perspectives*, vol. 17(1), 23-44. 2003.
- "CPI Bias from Supercenters: Does the BLS Know that Wal-Mart Exists?," with E. Leibtag, presented at conference on Index Numbers, Vancouver, June 2004, NBER Discussion Paper w10712, August 2004. W.E Diewert, J.S. Greenlees, and C.R. Hulten eds., <u>Price Index Concepts and Measurement</u>, 2009.
- "Did Mandatory Unbundling Achieve Its Purpose? Empirical Evidence from Five Countries," with G. Sidak, *Journal of Competitive Law and Economics*, vol. 1(1), 173-245. 2005.
- "Telecommunications Regulation: Current Approaches with the End in Sight," (with G. Sidak) NBER conference on regulation, September 2005, in N. Rose. ed., *Economic Regulation and Its Reform*, 2014.
- "Commentary on International Taxation: Tax Policy when Corporate Profits are a Return to Labor Rather than Capital," with Roger Gordon, J. Mirrlees et. al., <u>Dimensions of Tax Design</u>, OUP, 2010.

- "Wal-Mart Effects and CPI Construction", in *Price and Productivity Measurement*, with E. Leibtag, W.E. Diewert, B.M. Balk, D. Fixler, K.J. Fox and A.O. Nakamura, editors, Trafford Press.
- "Are Regulators Forward-Looking? Copper Prices and Telecommunications Networks," with G. Sidak and T. Tardiff, *FCC Communications Journal*, 61, 199-227, 2008.
- "Non-Neutrality of the Proposed RSPT", Australian Economic Review, 44, 2011
- "Telecommunications Deregulation", with W. Taylor, American Economic Review, 2012
- "Telecommunications in the US: From Regulation to Competition (Almost)", with W. Taylor, <u>Review of Industrial Organization</u>, 42, 2013.
- "Contingent Valuation: From Dubious to Hopeless", Journal of Economic Perspectives, 26, 2012.
- "Partial Deregulation in Telecommunications: An Update", (with W. Taylor), 2016, <u>Journal of Competition, Law, and Economics</u>, 12, 2016, 465-476.

III. Applied Micro Models

- "Project Independence Report: A Review of U.S. Energy Needs up to 1985," <u>Bell Journal of Economics</u>, vol. 6(2), 517-551. Autumn 1975.
- "Individual Discount Rates and the Purchase and Utilization of Energy Using Durables," <u>Bell Journal of Economics</u>, vol. 10(1), 33-54. Spring 1979.
- "Voluntary Participation in the Arizona Time of Day Electricity Experiment," with D. Aigner, in EPRI Report, Modeling and Analysis of Electricity Demand by Time of Day, 1979; Bell Journal of Economics, 1980.
- "A Two-level Electricity Demand Model: Evaluation of the Connecticut Time-of-Day Pricing Test," in EPRI Report, Modeling and Analysis of Electricity Demand by Time of Day, 1979; Journal of Econometrics, vol. 10(3), 263-289. 1979.
- "Assessing the Potential Demand for Electric Cars," with S. Beggs and S. Cardell, <u>Journal of Econometrics</u>, vol. 17(1) 1-19. 1981.
- "Assessment and Validation of Energy Models," in <u>Validation and Assessment of Energy Models</u>, ed. S. Gass, Washington: Department of Commerce, 1981.
- "Exact Consumer Surplus and Deadweight Loss," American Economic Review, 71(4)m 662-676, 1981.
- "Appliance Purchase and Usage Adaptation to a Permanent Time of Day Electricity Rate Schedule," with J. Trimble, <u>Journal of Econometrics</u>, vol. 26(1-2), 115-139. 1984.
- "Evaluating the Costs and Benefits of Appliance Efficiency Standards," with P. Joskow, <u>American Economic Review</u>, 72(2), 220-225. 1982.
- "Information Costs, Competition and Collective Ratemaking in the Motor Carrier Industry," <u>American University</u> <u>Law Review</u>, 32 Am. U.L. Rev. 377 Winter 1983.
- "An Overview of IFFS," in Intermediate Future Forecasting System, ed. S. Gass et al., Washington: 1983.
- "Choice of Conservation Actions in the AHS," in Energy Simulation Models, ed. R. Crow, 1983.
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