

CURRICULUM VITAE

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Education

B. A. Reed College, 1967

S. M. Massachusetts Institute of Technology, 1969

Ph. D. Massachusetts Institute of Technology, 1971

Publications: Articles

“Economies of Density and Regulatory Change in the U. S. Railroad Freight Industry,”
forthcoming, Journal of Law and Economics, 2007 (with John D. Bitzan).

“A Major State Tobacco Tax Increase, the Master Settlement Agreement, and Cigarette
Consumption: The California Experience,” American Journal of Public Health 95 (June
2005), pp. 1030-1035 (with Hai-Yen Sung, Teh-wei Hu, Michael Ong, and Mei-Ling
Sheu).

“The Effect of a Major Cigarette Price Change on Smoking Behavior in California: A
Zero-inflated Negative Binomial Model,” Health Economics, 13 (August, 2004) pp.
781-791 (with Mei-Ling Sheu, Teh-wei Hu, Michael Ong, and Hai-Yen Sung).

- "The U. S. National Tobacco Settlement: The Effects of Advertising and Price Changes on Cigarette Consumption," Applied Economics, 36 (August 20, 2004), pp. 1623-1629 (with Teh-wei Hu, Michael Ong, and Hai-Yen Sung).
- "Productivity Growth and Some of Its Determinants in the Deregulated U. S. Railroad Industry," Southern Economic Journal 70 (October 2003), pp. 232-253 (with John D. Bitzan).
- "The Benefits of Switching Smoking Cessation Drugs to Over-the-Counter Status," Health Economics 11 (July 2002), pp. 389-402 (with Teh-wei Hu, Alison Keith, Richard Manning, Martin Marciniak, Michael Ong, and Hai-Yen Sung).
- "State Tobacco Taxation, Education and Smoking: Controlling for the Effects of Omitted Variables," National Tax Journal 54 (March 2001), pp. 83-102 (with Teh-wei Hu, Willard G. Manning, and Hai-Yen Sung).
- "Optimal Prices and Costs for Hospitals with Excess Bed Capacity," Applied Economics 32 (July 15, 2000), pp. 1201-1212 (with S. Ennis and M. Schoenbaum).
- "Cigarette Consumption and Sales of Nicotine Replacement Products," Tobacco Control 9 (Supplement II, August, 2000), pp. 60-63 (with T. Hu, H. Sung, and M. Marciniak).
- "Rational Addiction and Smoking Cessation: An Empirical Study," Journal of Socio-Economics 28 (Fall, 1999), pp. 633-643 (with M. Marciniak and T. Hu).
- "Cross-subsidization in Hospital Care: Some Lessons from the Law and Economics of Regulation," Health Matrix: Journal of Law-Medicine 9 (Winter, 1999), pp. 1-35 (with D. Banks and S. Foreman).
- "Earmarked Tobacco Taxes: Lessons Learned," in The Economics of Tobacco Control: Towards an Optimal Policy Mix (Capetown: University of Cape Town Press, 1998), pp. 102-118 (with T. Hu and Xiaopeng Xu).
- "Teenage Smoking, Attempts to Quit, and School Performance," American Journal of Public Health 88 (June, 1998), pp. 940-943 (with T. Hu and Z. Lin).
- "Regulation and Deregulation," in Peter Newman, ed., New Palgrave Dictionary of Economics and the Law (London: Macmillan, 1998), Volume 3, pp. 213-222 (with S. E. Foreman).
- "Comments on 'Measuring the Health of the U. S. Population,'" Brookings Papers on Economic Activity (Microeconomic Issue, 1997), pp. 273-277.
- "Do Cigarette Producers Price-discriminate by State? An Empirical Analysis of Local Cigarette Pricing and Taxation" Journal of Health Economics 15 (August, 1996), pp. 499-512. (with T. Hu, P. Barnett, W. Manning, and H. Sung).
- "Hospital Costs and Excess Bed Capacity: A Statistical Analysis," Review of Economics and

- Statistics 78 (August, 1996), pp. 470-481 (with J. S. Ying).
- "Comments on 'Pharmaceutical Innovation and Market Dynamics,'" Brookings Papers on Economic Activity (Microeconomic Issue, 1996), pp. 189-194.
- "Reducing Cigarette Consumption in California: Tobacco Taxes vs. An Anti-Smoking Media Campaign," American Journal of Public Health 85 (September, 1995), pp. 1218-1222.
- "Oligopoly Structure and the Incidence of Cigarette Excise Taxes," (with P. Barnett, and T. Hu); Journal of Public Economics 57 (July, 1995), pp. 457-470.
- "The State Anti-Smoking Campaign and the Industry Response: The Effects of Advertising on Cigarette Consumption in California," American Economic Review 84 (May, 1995), pp. 85-90 (with T. W. Hu and H. Y. Sung).
- "The Impact of California Anti-Smoking Legislation on Cigarette Sales, Consumption, and Prices," Tobacco Control 4 (Summer, 1995), pp. S34-S38 (with T. Hu, H. Sung, and P. Barnett).
- "Privatization, Public Ownership, and the Regulation of Natural Monopoly: A Review," Review of Industrial Organization 10 (February 1995), pp. 97-100.
- "The Demand for Cigarettes in California and Behavioural Risk Factors," Health Economics 4 (January-February 1995), pp.7-14(with T. W. Hu, Q. F. Ren, and J. Bartlett).
- "Cigarette Taxation, Demand, and Producer Behavior: An Empirical Model," Contemporary Economic Policy 7 (July, 1994, pp. 91-100, with H. Sung and T. Hu).
- "Highway Safety, Economic Behavior, and Driving Environment," American Economic Review 84 (June, 1994), pp. 684-693.
- "The Impact of 1989 California Major Anti-Smoking Legislation on Cigarette Consumption Three Years Later," Journal of Public Health Policy 15 (Spring, 1994), pp. 26-36; with T. Hu, J. Bai, and P. Barnett).
- "The Regulation of Transport Markets," Economic Journal 103 (July, 1993), pp. 1017- 1027 (with Kenneth J. Button).
- "Taxation, Regulation, and Addiction: A Demand Function for Cigarettes Based on Time-Series Evidence," Journal of Health Economics 12 (April, 1993, pp. 1-18; with T. Hu, P. Barnett, and W. Manning).
- "Airline Safety Posture: Evidence from Service-Difficulty Reports," Journal of Transportation Engineering 119 (July-August, 1993), pp. 655-664 (with A. Kanafani and S. Sathisan).

- "Pricing in a Deregulated Environment: The Motor Carrier Experience," Rand Journal of Economics (Summer, 1991), pp. 264-273 (with John S. Ying).
- "Airline Deregulation and Market Performance: The Economic Basis for Regulatory Reform and Lessons from the U. S. Experience," in D. Banister and K. Button, Eds., Transport in a Free Market Economy (London, Macmillan, 1991), pp. 121-169.
- "Auto Safety: Assessing America's Performance: A Review," Journal of Economic Literature 28 (December 1990), pp. 1771-1772.
- "Airline Deregulation and Safety: Some Econometric Evidence from Time Series," Logistics and Transportation Review 26 (September, 1990), pp. 203-210 (with A. Kanafani).
- "Deregulation and Scale Economies in U. S. Trucking: An Econometric Extension of the Survivor Principle," Journal of Law and Economics (October, 1989), pp. 229-254.
- "New Entrants and Safety: Some Statistical Evidence on the Effects of Airline Deregulation," in Leon Moses and Ian Savage, eds., Transportation Safety in an Age of Deregulation (Oxford, U. K., Oxford University Press, 1989, pp. 115-128; with A. Kanafani)
- "Deregulation and the Future of Intercity Passenger Travel: A Review," Journal of Political Economy (December, 1988), pp. 1329-1331.
- "Measuring the Benefits of a Large Public Investment: The Case of the U. S. Federal-Aid Highway System," Journal of Public Economics, June, 1988, pp. 69-85 (with J. Ying).
- "Public Regulation: New Perspectives in Institutions and Policies: A Review," Journal of Economic Literature 26 (June, 1988), pp. 716-718.
- "Airline Deregulation and Safety: The Evidence," ITS Review, Spring, 1988 (with A. Kanafani).
- "Public Policy and the Private Auto," in R. Gordon, H. Jacoby, and M. Zimmerman, eds., Essays in Honor of Morris A. Adelman (Cambridge, MA: Massachusetts Institute of Technology Press, 1987), pp. 137-160 (With R. Crandall).
- "Public Policy and Productivity in the Trucking Industry: Some Evidence on the Effects of Highway Investments, Deregulation, and the 55-Mile-Per-Hour Speed Limit," American Economic Review 76 (May, 1986), pp. 153-158.
- "Urban Transit: The Private Challenge to Public Transportation: A Review," Journal of Policy Analysis and Management 6 (Fall, 1986) pp. 127-129.

- "Deregulating the Airlines: A Review," Information Economics and Policy 2 (1986), pp. 96-99.
- "Air Deregulation, Fares, and Market Behavior: Some Empirical Evidence," in Andrew F. Daughety, ed., Analytical Studies in Transport Economics (Cambridge, UK: Cambridge University Press, 1985), pp. 241-247 (with G. Call).
- "Comments on 'The Federal Role in Urban Transportation,'" in J. M. Quigley and D. L. Rubinfeld, eds., American Domestic Priorities: An Economic Appraisal (Berkeley: University of California Press, 1985), pp. 294-296.
- "Theories of Regulation and the Deregulation Movement," Public Choice 44 (1984), pp. 103-145.
- "Airline Deregulation: The Early Experience: A Review," Journal of Political Economy 91 (June, 1983), pp. 522-524.
- "The Costs of Automobile Safety and Emissions Regulation to the Consumer," American Economic Review 72 (May, 1982), pp. 324-327 (with R. Crandall and L. Lave).
- "Some Current Issues in Transportation Economics," International Center for Transportation Studies Proceedings 1 (1981), pp. 330-342.
- "The Transportation Budget," in J. Pechman, ed., Setting National Priorities (Washington: The Brookings Institution, 1981), pp. 97-103.
- "The Revolution in Airline Regulation," in L. Weiss and M. Klass, eds., Case Studies in Regulation: Revolution and Reform (Boston: Little Brown & Co., 1981), pp. 53-85.
- "Determinants of Railroad Profitability," in K. Boyer and W. Shepherd, eds., Economic Regulation: Essays in Honor of James R. Nelson (East Lansing: Michigan State University Press, 1981), pp. 37-54 (with R. G. Harris).
- "Market Structure, Pricing, and Service Quality in the Airline Industry under Deregulation," in W. Sichel and T. Gies, eds., Applications of Economic Principles in Public Utility Industries (Ann Arbor: Michigan Business Studies, Vol. 2, No. 3, 1981), pp. 103-120 (with M. Abrahams).
- "Domestic Airline Regulation: An Economic Evaluation," in L. Weiss and M. Klass, eds., Study on Federal Regulation, U. S. Senate, Committee on Governmental Affairs, Volume VII (Washington: U. S. Government Printing Office, 1978), pp. 77-160.

"Optimal Peakload Pricing, Investment, and Service Levels on Urban Expressways," Journal of Political Economy 85 (February, 1977), pp. 1-26 (with Kenneth A. Small). Reprinted in M. Blaug, ed., The International Library of Critical Writings in Economics (Cheltenham, U. K., Edward Elgar, Publisher), 1999.

"Regulation and Modal Market Shares in Long-Haul Freight Transportation: A Statistical Comparison of Australia and the United States," in J. R. Nelson and H. O. Whitten, eds., Foreign Regulatory Experiments: Implications for the U. S. (Washington: U. S. Department of Transportation Contract Report FRA-OPPD-77-24 (Washington, 1977), Chapter IX.

"Profits, Market Structure, and Portfolio Risk," in R. T. Masson and D. Qualls, eds., Essays on Industrial Organization in Honor of Joe S. Bain (Cambridge: Ballinger Publishing Company, 1976), pp. 71-87.

"Promoting Competition in Regulated Markets: A Review," Bell Journal of Economics 7 (Autumn, 1976), pp. 348-353.

"Regulation and Trunk Air Fares," in the U. S. Senate Subcommittee on Administrative Practices and Procedures, Oversight of Civil Aeronautics Board Practices and Procedures Volume II (Washington: U. S. Government Printing Office, 1975, pp. 1296-1305.

"Railroad Costs, Returns to Scale, and Excess Capacity," Review of Economics and Statistics 56 (May, 1974), pp. 201-208.

"Airline Regulation and Market Performance," Bell Journal of Economics 3 (Autumn, 1972), pp. 399-424. Reprinted in M. Blaug, ed., The International Library of Critical Writings in Economics (Cheltenham, U. K., Edward Elgar, Publisher).

"The Economics of Passenger Trains," Journal of Business 44 (April, 1971), pp. 148-174.

"Airport Costs and Congestion," American Economist 14 (Spring, 1970), pp. 47-63.

Publications: Books

Regulating the Automobile, (Book; Washington: The Brookings Institution, 1986; with R. Crandall, H.. Gruenspect, and L. Lave).

Railroads, Freight, and Public Policy (Book; Washington: The Brookings Institution, 1983).

Research in Transportation Economics, Volume I (editor; Greenwich, CT: JAI Press), 1983.

Research in Transportation Economics, Volume II (editor; Greenwich, CT: JAI Press, 1985).

Miscellaneous Working Papers and Unpublished Reports

"On the Economic Impact of Railroad Freight Regulation," presented to the Econometric Society Meetings, September, 1976.

The Full Costs of Urban Transport, Volume III: Automobile Costs and Final Intermodal Cost Comparison, Monograph 21, Institute of Urban and Regional Development, University of California, Berkeley, 1975 (with K. Small and Associates).

Resource Allocation in Intercity Passenger Transportation, Ph. D. Dissertation, Massachusetts Institute of Technology, 1971

On the Economic Impact of Urban Residential Property Taxation, S. M. Thesis, M. I. T., 1969.

Railroad Cost Functions: An Empirical Study, B. A. Thesis, Reed College, 1967.

Academic Professional Positions

2006-	Professor Emeritus of Economics, University of California at Berkeley
1983-2005	Professor of Economics, University of California at Berkeley
2000-02, 1977-80	Vice Chair, Department of Economics, University of California at Berkeley
2000-01, 1995-97	Postdoctoral Mentor, Robert Wood Johnson Health Policy Scholars Program
1999-01	Co-Principal Investigator, Project on The Economic Effects of California Cigarette Taxation and the Nationwide Tobacco Industry Settlement (funded by the California Tobacco-Related Disease Research Project).
1999-2001, 1990-95	Member, Executive Committee, Health Services and Policy Analysis Ph. D. Program, U. C. Berkeley
1996-1999	Principal Investigator, Project on Smoking Behavior, funded by the Substance Abuse Research Program of the Robert Wood Johnson Foundation

1993-2001	Core faculty member, Robert Wood Johnson Health Policy Scholars Postdoctoral Fellowship Program University of California, Berkeley
1997-99	Member, Personnel Search Committee, Department of Agricultural and Resource Economics, University of California, Berkeley
1988-89, 1996-98	Chair, Undergraduate Committee, Department of Economics, University of California at Berkeley
1995-96	Principal Investigator, Project on Hospital Costs for Medicare, funded by the National Institute on Aging through the Center on the Economics and Demographics of Aging, University of California at Berkeley
1990-94	Co-Principal Investigator, Tobacco Tax Project, funded by California Tobacco-Related Disease Project
1977-80, 1993	Affirmative Action Chair, Department of Economics University of California, Berkeley
1992	Member, Tobacco Tax Research Group, National Institutes of Health-- National Cancer Institute
1990-91	Principal Investigator, National Institutes of Health Biomedical Research Grant, on Hospital Costs
1988-91	Principal Investigator, Program on Safety and Human Factors in Transportation, U. S. Department of Transportation Centers Grant
1987-88	Placement Officer, Department of Economics, University of California, Berkeley
1987-2002	Editorial Board Member, <u>Review of Industrial Organization</u>
1986-87	Member, Committee on Educational Policy, Academic Senate, University of California,
1984-89	Associate Editor, <u>Journal of Industrial Economics</u>
1982-86	Brookings Affiliated Staff Member

1980-82	Senior Fellow and Guest Scholar, The Brookings Institution
1981-82	Co-Principal Investigator, Brookings Project on Automobile Regulation (Funded by NSF)
1980-85	Editor, <u>Research in Transportation Economics</u> (Periodical Volume, JAI Press)
1978-80, 1982-84, 1986-88	Member, Executive Committee, Institute of Transportation Studies, University of California
1977-83	Associate Professor of Economics, University of California, Berkeley
1978-80	Principal Investigator, Alfred P. Sloan Project on Transportation Economics
1971-77	Assistant Professor of Economics, University of California, Berkeley
1975-78	Faculty Investigator, Alfred P. Sloan Foundation Project on Transportation Economics, University of California, Berkeley
1973-75	Principal Investigator, Comparative Costs Study for Bay Area Transportation Modes (funded by NSF).
1967-69, 1970-71	NSF Graduate Fellow

Consulting and Public Service Positions

1997	Provided testimony on Senate Bill 552 (Watson), Senate Revenue and Taxation Committee, California State Legislature, Sacramento, California, May 7, 1997 (concerning cigarette taxation).
1988-91	Consultant to the U. S. General Accounting Office on the effects of airline deregulation and mergers on fares
1988-91	Consultant to the ATAC Corporation on airport and airways planning for the Federal Aviation Administration
1986-87	Consultant to the U. S. Railway Accounting Principles Board on rail cost estimation

1985-86	Consultant to the Soo Line Railroad on rail cost estimation
1985, 1990-1	Consultant to the Association of American Railroads on regulatory policy
1984-85	Consultant to the law firm Weil, Gottschal, and Manges, for the Railbox Corporation
1984-85	Consultant to the U. S. General Account Office on Rail Regulatory Reform
1982-84	Consultant to the Management Analysis Center on various transportation problems
1978-83	Consultant to General Motors Research Laboratories, Transportation Science Department
1980, 1982	Consultant to the U. S. Interstate Commerce Commission on rail cost estimation and rate setting
1981-82	Consultant to the U. S. Civil Aeronautics Board on international airline policy
1978-79	Consultant to the U. S. Department of Justice on airline merger policy
1976-78	Consultant to the U. S. Senate Committee on Government Operations, on Airline Deregulation
1977	Consultant to the Southern Pacific Railroad on discontinuance of commute service
1976-77	Consultant to the U. S. Department of Transportation on Australian freight regulatory policies
1976-77	Consultant to Peat, Marwick, and Mitchell on optimal methods for rail cost estimation
1974-76	Consultant to the U. S. General Accounting Office on airline deregulation
1974-75	Consultant to the U. S. Senate Subcommittee on Administrative Practices and Procedures, on airline deregulation
1974	Consultant to the White House Council on International Affairs, on airline policies