

# 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

### Academic Positions, Honors, and Awards

2013 Recipient, Distinguished Member Award, Transportation and Public Utilities Group, Allied Social Science Associations Meetings, San Diego

2006- Professor Emeritus of Economics, University of California, 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

1999-2001 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).

- 1996-1999 Principal Investigator, Project on Smoking Behavior, funded by the Substance Abuse Research Program of the Robert Wood Johnson Foundation
- 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
- 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
- 1987-2002 Editorial Board Member, Review of Industrial Organization
- 1984-89 Associate Editor, Journal of Industrial Economics
- 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)
1977-83	Associate Professor of Economics, University of California, Berkeley
1978-80	Principal Investigator, Alfred P. Sloan Pro- ject on Transportation Economics
1971-77	Asst. Professor of Economics, University of California, Berkeley
1967-71	NSF Graduate Fellow, MIT

Publications: Articles

“The Evolution of U.S. Rail Freight Pricing in the Post-deregulation Era: Revenues versus Marginal Costs for Five Commodity Types,” Transportation (March 2013), 10.1007/s11116-013-9463-8 (with John D. Bitzan).

“Intermodal Traffic, Regulatory Change and Carbon Energy Conservation in US Freight Transport,” Applied Economics (iFirst): 1-19, 04 December 2010 (with John D. Bitzan)

“Earmarked Tobacco Taxes: The US Experience,” in Teh-wei Hu, Editor, Tobacco Control and Policy Analysis in China (Singapore: World Scientific Publishing, 2008), pp. 277-302 (with Teh-wei Hu and Xiao-peng Xu).

“Economies of Density and Regulatory Change in the U. S. Railroad Freight Industry,” Journal of Law and Economics 50(1): 157-159, February, 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).
- “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  
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.