# CURRICULUM VITAE

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Age: 51

Marital Status: Married

Citizenship: United States

# **Education**

Ph.D.	(Economics)	1979	University of California, Berkeley
B.A.	(High Honors, Economics)	1973	University of Florida

## Academic Appointments

since July 1982	Department of Economics, Northeastern University, Boston, Massachusetts; Professor, since July 1990 (on leave September 1996-June 1997); Associate Professor, July 1985-June 1990 (on leave September 1988-August 1990); Assistant Professor, September 1982-June 1985.
July 1979 to June 1982	Faculty of Commerce and Business Administration, University of British Columbia, Vancouver, British Columbia, Canada; Assistant Professor.

# Administrative Appointments

since July 1999	Chair, Department of Economics, Northeastern University, Boston, Massachusets.
January 1998 to June 1999	Acting Chair, Department of Economics, Northeastern University, Boston, Massachusetts.
April 1995 to August 1996	Interim Vice Provost for Research and Graduate Education, Northeastern University, Boston, Massachusetts.
September 1992 to March 1995	Executive Officer, Department of Economics, Northeastern University, Boston, Massachusetts.

# Visiting/Temporary Appointments

September 1996 to June 1997	Kennedy School of Government, Harvard University, Cambridge, Massachusetts; Visiting Professor.
February 1994 to May 1994	Department of Civil and Environmental Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts; Lecturer.
March 1989 to August 1990	Economic Studies Program, The Brookings Institution, Washington, D.C.; Visiting Fellow.
September 1988 to February 1989	Department of Economics, London School of Economics, London, England; Academic Visitor.
<u>Editorial Boards</u>	Journal of Transport Economics and Policy, Managing Editor since 1998; Editorial Board since 1996. Journal of Air Transport Management, North American Editor since 1998.
<u>Panels</u>	Committee Member, National Academy of Sciences, Transportation Research Board, Commitee for a Study of Competition in the U.S. Airline Industry, 1998–1999. The resulting report is Transportation Research Board, <i>Entry and Competition in the U.S.</i> <i>Airline Industry: Issues and Opportunities</i> , Special Report 255, Washington, D.C., 1999.
Publications	
Books:	The Evolution of the Airline Industry, (with C. Winston), Washington, D.C.: The Brookings Institution, 1995.
	The Economic Effects of Airline Deregulation, (with C. Winston), Washington, D.C.: The Brookings Institution, 1986.

- Journal Articles: "Actual, Adjacent, and Potential Competition: Estimating the Full Effect of Southwest Airlines," *Journal of Transport Economics and Policy*, **35**, May 2001, pp. 239–256.
  - "A \$20 Billion Misunderstanding," (with C. Winston), *The Milken Institute Review*, **2**, Third Quarter, 2000, pp. 20–29.
  - "Fundamental Flaws of Social Regulation: The Case of Airplane Noise," (with C. Winston and T. Watson), *Journal of Law and Economics*, **42**, October 1999, pp. 723–743.
  - "The Fare Skies: Air Transportation and Middle America," (with C. Winston), Brookings Review, Fall 1997, pp. 42–45.
  - "The Causes and Consequences of Airline Fare Wars," (with C. Winston), Brookings Papers on Economic Activity: Microeconomics, 1996, pp. 85–123.
  - "Airline Mergers: A Longer View," Journal of Transport Economics and Policy, **30**, September 1996, pp. 237–250. [Reprinted in Kenneth J. Button, ed., Recent Developments in Transport Economics, Cheltenham: Edward Elgar, forthcoming.]
  - "The Value of Amtrak," *Journal of Law and Economics*, **33**, October 1990, pp. 361–382.
  - "The Dynamics of Airline Pricing and Competition," (with C. Winston), *American Economic Review*, **80**, May 1990, pp. 389–393. [Translated into Japanese and reprinted in *Kosokudoro to Jidosha*, **34**, 1991, pp. 48–52.]
  - "Enhancing the Performance of the Deregulated Air Transportation System," (with C. Winston), Brookings Papers on Economic Activity: Microeconomics, 1989, pp. 61–112. [Translated into Japanese and reprinted in Toshihiko Hayashi, ed., Koekijigyo to Kiseikamwa, Tokyo: Toyokeizai Shimposha, 1990.] [Reprinted, in part, in Richard Layard and Stephen Glaister, eds., Cost-Benefit Analysis, 2nd edition, Cambridge: Cambridge University Press, 1994, pp. 375–395.]
  - "Airline Deregulation and Public Policy," (with C. Winston), Science, 245, 18 August 1989, pp. 707–711. [Reprinted in Subcommittee on Aviation, Committee on Public Works and Transportation, U.S. House of Representatives, The Adequacy of Competition in the Airline Industry, 101st Congress, First Session.]
  - "The Effects of Reforming the Regulation of U.S. Domestic Civil Aviation," (with K.J. Button), *Royal Bank of Scotland Review*, **158**, June 1988, pp. 33–53.
  - "Air Safety, Deregulation, and Public Policy," (with C. Winston), *Brookings Review*, **6**, Winter 1988, pp. 10–15.
  - "The Theory of Optimal Highway Pricing and Investment: Comment," Southern Economic Journal, 53, January 1987, pp. 779–782.
  - "The Equity and Efficiency of Runway Pricing," *Journal of Public Economics*, **34**, October 1987, pp. 45–60.
  - "Empirical Implications and Tests of the Contestability Hypothesis," (with C. Winston), *Journal of Law and Economics*, **30**, April 1987, pp. 53–66. [Reprinted in Tae Oum, et al., eds., *Transport Economics: Selected Readings*, Amsterdam: Harwood Academic Publishers, 1997, pp. 483–499.]
  - "Airline Deregulation in the United States," (with C. Winston), *Bell Atlantic Quarterly*, **4**, Spring-Summer 1987, pp. 21–31.
  - "A Survey of Road Pricing," Transportation Research, 20A, March 1986, pp. 87–97.
  - "Voting and the Efficiency of Airport Runway Investment," *Transportation Research*, **19A**, February 1985, pp. 59–64.
  - "Intercity Transportation Route Structures Under Deregulation: Some Assessments Motivated by the Airline Experience," (with C. Winston), *American Economic Review*, **75**, May 1985, pp. 57–61.
  - "An Econometric Analysis of the Demand for Intercity Passenger Transportation," (with C. Winston), Research in Transportation Economics, 2, 1985, pp. 213–237.

"An Economic Analysis of Aircraft Design," Journal of Transport Economics and Poicy, 18, May 1984, pp. 123–143.
"Profitability and Fleet Age Profiles in the U.S. Airline Industry," International Journa

"Hours of Operation Restrictions and Competition Among Retail Firms," (with R.J. Newman), *Economic Inquiry*, **21**, January 1983, pp. 107–114.

"Estimation of Long-Run Prices and Investment Levels for Airport Runways," *Research* in *Transportation Economics*, 1, 1983, pp. 103–130.

"The Demand for Intercity Passenger Transportation: The Impact on the Bus Industry in a Changing Environment," (with C. Winston), in Transportation Research Forum, *Proceedings: Twenty-fourth Annual Meeting*, **24**, 1983, pp. 526–534.

"The Structure of Landing Fees at Uncongested Airports: An Application of Ramsey Pricing," *Journal of Transport Economics and Policy*, **16**, May 1982, pp. 151–159.

Chapters in Books: "Airline Services: The Evolution of Competition Since Deregulation," in Larry L. Duetsch, ed., *Industry Studies*, 3rd ed., Armonk, NY: M.E. Sharpe, 2002. [previous versions published in 1998 and 1993 (Prentice Hall).]

"The Remaining Role of Government Policy in the Deregulated Airline Industry," (with C. Winston) in *Deregulation of Network Industries: What's Next?*, Sam Peltzman and Clifford Winston, eds., Washington, D.C.: American Enterprise Institute and Brookings Institution, 2000.

"Regulatory Reform of U.S. Intercity Transportation," (with C. Winston) in J. Gomez-Ibanez, W. Tye, and C. Winston, eds., *Essays in Transportation Economics and Policy: A Handbook in Honor of John R. Meyer*, Washington, D.C.: Brookings Institution, 1999.

"Cleared for Takeoff: The Evolution of the Deregulated Airline Industry," (with C. Winston), in *The Annual Review of Travel*, New York: American Express, 1992.

"U.S. Domestic Aviation," in K.J. Button and D. Swann, eds., *The Age of Regulatory Reform*, Oxford: Oxford University Press, 1989.

Edited Volumes: Transport Economics: Selected Readings, Amsterdam: Harwood Academic Publishers, 1997, (coedited with Tae Oum, John Dodgson, David Hensher, Christopher Nash, Kenneth Small, and W.G. Waters II).

Book Reviews: Review of: Clinton V. Oster, John S. Strong, and C. Kurt Zorn, Why Airplanes Crash: Aviation Safety in a Changing World, in Journal of Economic Literature, March 1994, pp. 164–166.

Review of: Alan C. McKinnon, *Physical Distribution Systems*, in *Journal of Economic Literature*, **29**, June 1991, pp. 603–604.

Review of: Leon N. Moses and Ian Savage, eds., *Transportation Safety in an Age of Deregulation*, in *Journal of Economic Literature*, **29**, March 1991, pp. 122–123.

Review of: John R. Meyer and Clinton V. Oster, Jr., *Deregulation and the Future of Intercity Passenger Travel*, in *Journal of Economic Literature*, **26**, September 1988, pp. 1217–1218.

Review of: Rigas Doganis, Flying Off Course: The Economics of International Airlines, in Logistics and Transportation Review, 23, December 1987, pp. 427–428.

of Transport Economics, 10, December 1983, pp. 613–620.

"Opinion" Pieces: "Bailing Out the Airlines," (with C. Winston) Boston Globe, September 24, 2001; "A Market-Based Solution to Airport Congestion," Boston Globe, April 14, 2001; "Foul Regulatory Weather Grounds Airline Competition," (with C. Winston), Wall Street Journal, December 3, 1997; "High-Speed Rail a Mistake," Boston Globe, December 1, 1992; "Let's Just Raise the Price of Highway, Air Transportation to Equal its Real Cost," Roll Call, June 29, 1992; "Stormy Weather for the Airlines," (with C. Winston), Boston Globe, August 4, 1991; "Pricing the Crowds Off the Roads," Boston Globe, May 14, 1991; "Airline Deregulation," TransLaw, Fall 1990; "Yes: Slot System Yields Benefits," The Public's Capital, Fall 1990; "Californians Getting a Fair Deal on Air Travel," (with C. Winston), Los Angeles Times, June 17, 1990; "With Deregulation, Everybody Gains," (with C. Winston), New York Times, April 8, 1990; "Helping Airports Take Off," New York Times, March 16, 1990; "Airline Reregulation Won't Fly on Economic Basis," (with C. Winston), Atlanta Journal and Constitution, April 15, 1989; "Less Congestion Requires Higher Fees," (with C. Winston), New York Times, January 15, 1989.

# **Presentations** Congressional

and Other

Testimony:

Committee on Transportation and Infrastructure, U.S. House of Representatives, Washington, D.C., 2000; Subcommittee on Antitrust, Business Rights, and Competition, Committee on the Judiciary, U.S. Senate, Washington, D.C., 2000; Subcommittee on Aviation, Committee on Commerce, Science, and Transportation, U.S. Senate, Washington, D.C., 1998; Subcommittee on Antitrust, Business Rights, and Competition, Committee on the Judiciary, U.S. Senate, Washington, D.C., 1998; Committee on the Judiciary, U.S. House of Representatives, Washington, D.C., 1997; Subcommittee on Transportation and Related Agencies, Committee on Appropriations, U.S. Senate, Washington, D.C., 1997; Subcommittee on Aviation, Committee on Transportation and Infrastructure, U.S. House of Representatives, Washington, D.C., 1997; National Commission to Ensure a Strong Competitive Airline Industry, Washington, D.C., 1993; Subcommittee on Transportation and Related Agencies, Committee on Appropriations, U.S. House of Representatives, Washington, D.C., 1993; Subcommittee on Water Resources, Transportation, and Infrastructure, Committee on Environment and Public Works, U.S. Senate, Washington, D.C., 1991; Subcommittee on Aviation, Committee on Public Works and Transportation, U.S. House of Representatives, Washington, D.C., 1991; Subcommittee on Aviation, Committee on Public Works and Transportation, U.S. House of Representatives, Washington, D.C., 1989.

Presentations at Meetings of Scholarly Societies: Air Transportation Research Group, Vancouver, Canada, 1997; American Economic Association, New Orleans, 1997: Transportation Research Forum, San Antonio, 1996: Transportation and Public Utilities Group of the American Economic Association, San Francisco, 1996; Transportation and Public Utilities Group of the American Economic Association, Boston, 1994; Transportation Research Forum, New York, 1993; Eastern Economic Association, New York, 1992; Transportation and Public Utilities Group of the American Economic Association, New Orleans, 1992; Transportation Research Forum, New Orleans, 1991; American Economic Association, Atlanta, 1989; Transportation Research Forum, Williamsburg, 1989; World Conference on Transport Research, Yokohama, 1989; Association of American Geographers, Baltimore, 1989; American Economic Association, New York, 1988; Transportation and Public Utilities Group of the American Economic Association, Chicago, 1987; Canadian Transportation Research Forum, Toronto, 1985; American Economic Association, Dallas, 1984; Canadian Economics Association, Guelph, 1984; Canadian Transportation Research Forum, Jasper, 1984; Transportation Research Forum, Washington, D.C., 1983; American Economic Association, New York, 1982; Western Economic Association, Los Angeles, 1982; Canadian Economics Association, Ottawa, 1982; Canadian Transportation Research Forum, Montreal, 1982; Canadian Economics Association, Halifax, 1981.

University of North Dakota, 2003; Harvard University, 2002; Wayne State College, 1999; Embry-Riddle Aeronautical University, 1999; Harvard University, 1997; Harvard University, 1996; University of Virginia, 1996; MIT, 1994; Harvard University, 1994; University of Chicago, 1993; Harvard University, 1993; MIT, 1992; Emory University, 1992; Harvard University, 1992; Harvard University, 1991; Queen's University (Canada), 1990; University of Wisconsin, Eau Claire, 1989; Virginia Polytechnic Institute, 1989; University of St. Andrews, 1989; University of Aberdeen, 1989; London School of Economics, 1989; University of Exeter, 1988; University of Liverpool, 1988; Loughborough University, 1988; University of California, Irvine, 1988; Université de Montréal, 1988; Harvard University, 1986; University of Maryland, 1986.

Other San Francisco Chapter, Northeastern University Alumni Association, San Francisco, Presentations: 2001; Society for Collegiate Travel Management, Hutchinson Island, Florida, 2001; Federal Reserve Bank of Boston, Boston, 2001; Federal Aviation Administration-National Academy of Sciences, Washington, D.C., 2001; American Enterprise Institute and Brookings Institution, Washington, D.C., 1999; Transportation Research Board, Washington, D.C., 1998; National Economic Council, Washington, D.C., 1998; Brookings Institution, Washington, D.C., 1996; Bombardier Regional Aircraft Division, Aylmer, Quebec, 1996; Sumitomo Life Research Institute, Tokyo, 1995; Economic Planning Agency, Government of Japan, Tokyo, 1995; Charles River Associates, Boston, 1994; U.S. Department of Justice, Washington, D.C. 1993; Smithsonian Institution, Washington, D.C., 1993; Transportation Research Board, Washington, D.C., 1993; Alliance for Democracy and Human Rights in Nepal, New York, 1992; U.S. Agency for International Development Mission, Kathmandu, Nepal, 1992; Royal Commission on National Passenger Transportation, Ottawa, 1991; U.S. General Accounting Office, Washington, D.C., 1990; Air Transport Association, Washington, D.C., 1990; Citizens for a Sound Economy, Washington, D.C., 1990; Price Waterhouse/McDermott, Will and Emery, Washington, D.C., 1990; Brookings Institution, Washington, D.C., 1990; Resources for the Future, Washington, D.C., 1990; Transportation Research Board, Washington, D.C., 1990; U.S. Department of Transportation, Washington, D.C., 1989; Washington Journalism Center, Washington, D.C., 1989; U.S. General Accounting Office, Washington, D.C., 1989; National Conference of State Legislatures, Senior Fiscal Analysts' Seminar, Fort Lauderdale, 1989; General Aviation Manufacturers Association, Washington, D.C., 1989; Transportation Research Board, Washington, D.C., 1989; IASI-CNR, Rome, 1989; Brookings Institution, 1988; U.S. Department of Transportation, Transportation Systems Center, Cambridge, 1988; Institute for International Research, Washington, D.C., 1988; Citizens for a Sound Economy, Washington, D.C., 1988; U.S. Department of Transportation, Transportation Systems Center, Cambridge, 1988; Cato Institute, Washington, D.C., 1986.

## **Teaching**

Presentations at Universities:

Courses taught at Northeastern University (NU), the University of British Columbia (UBC), Massachusetts Institute of Technology (MIT), and Harvard's Kennedy School of Government (KSG):

Principles of Economics (UBC, NU) Microeconomic Theory (NU, undergraduate and graduate) Applied Microeconomic Analysis (KSG, graduate) Introduction to Probability and Statistics (UBC) Transportation Economics (UBC, NU, undergraduate and graduate; MIT, graduate) Public Policy in Transportation and Public Utilities (UBC) Air Transportation (UBC) Urban Economics (NU, undergraduate and graduate) <u>Consultancies</u> U.S. Department of Transportation; U.S. Federal Aviation Administration; U.S. Federal Highway Administration; U.S. Department of the Interior (National Park Service); Government of Canada; Government of Japan; Government of Nepal (through USAID); Organization for Economic Cooperation and Development; Consumers' Association of Canada; National Business Travel Association; (Seattle) Airport Communities Coalition; City of Brook Park, Ohio; Alamo Rent A Car; South Florida Auto Rental Association; Orbitz; American Airlines; Northwest Airlines; United Airlines; US Airways; Southwest Airlines; Virgin Atlantic Airways

### Fellowships, Honors, and Awards

- Selected as "Distinguished Member" by the Transportation and Public Utilities Group of the American Economic Association, 2003.
- Included in Mark Blaug, ed., *Who's Who in Economics*, London: Edward Elgar, 1999 (based on citations)
- Recipient of the Transportation Research Forum Prize for the best aviation paper, 1996, paper entitled "The Causes and Consequences of Airline Fare Wars," (coauthored with C. Winston)
- Honorable Mention, American Express Annual Review of Travel International Essay Competition, 1992, paper entitled "Cleared for Takeoff: The Evolution of the Deregulated Airline Industry," (coauthored with C. Winston)
- Recipient of the Transportation Research Forum Prize for the best paper on intercity bus transportation, sponsored by the American Bus Association, 1983, paper entitled "The Demand for Intercity Passenger Transportation: The Impact on the Bus Industry in a Changing Environment," (coauthored with C. Winston)

Phi Beta Kappa

### Memberships and Other Information

American Economic Association

Transportation and Public Utilities Group of AEA (Vice Chair, 1995; Chair, 1996; Executive Committee, 1997–1999)

Transportation Research Forum

Participant, Management Development Program, Harvard University Graduate School of Education, June 1996