

# Douglas Staiger

## Curriculum Vitae

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### EDUCATION

Ph.D., Economics, Massachusetts Institute of Technology, June 1990.

B.A., Economics and Mathematics, Williams College, June 1984.  
(magna cum laude, Phi Beta Kappa, highest honors in economics).

### FIELDS OF SPECIALIZATION

Health Economics, Labor Economics, Economics of Education, and Applied Econometrics.

### ACADEMIC POSITIONS

John French Professor in Economics, Dartmouth College, 2007-present.  
Professor, Department of Economics, Dartmouth College, 2003-present.  
Associate Professor, Department of Economics, Dartmouth College, 1998-2003.  
Visiting Associate Professor, Department of Economics, Princeton University, 1997-1998.  
Associate Professor, Kennedy School of Government, Harvard University, 1997-1998.  
Assistant Professor, Kennedy School of Government, Harvard University, 1993-1997.  
Visiting Assistant Professor, Kennedy School of Government, Harvard University, 1992-1993.  
Assistant Professor, Department of Economics, Stanford University, 1990-1993.

### OTHER AFFILIATIONS

Research Associate, National Bureau of Economic Research, 1998-present.  
Faculty Research Fellow, National Bureau of Economic Research, 1990-1998.  
Associate Editor, *Journal of Business and Economic Statistics*, 1998-2001.  
Associate Editor, *Journal of Health Economics*, 1995-2000.

### HONORS, GRANTS, AND FELLOWSHIPS

2008 National Institute of Nursing Research Grant (with Jeannette Rogowski and others)  
2007 Robert Wood Johnson Foundation INQRI Grant (with Eileen Lake and others)  
2006 Spencer Foundation Grant  
2006 National Institute of Aging Grant renewal (with Jonathan Skinner and others)  
2006 National Institute of Health Grant (with John Birkmeyer and Justin Dimick)  
2005 Jeffe Fellowship, Dartmouth College

- 2005 U.S. Department of Education Grant (with Thomas Kane and Justine Hastings)
- 2003 National Institute Child Health and Development Grant (with Jon Gruber and Phil Levine)
- 2002 Robert Wood Johnson Foundation Grant
- 2002 Agency for Healthcare Research and Quality Grant (with Jeannette Rogowski and Jeffrey Horbar)
- 2002 Newcomb Fellowship, Dartmouth College
- 2002 Spencer Foundation Grant (with Thomas Kane)
- 2002 Mellon Foundation Grant (with Thomas Kane)
- 2001 Hewlitt Foundation Grant (with Thomas Kane)
- 2001 National Institute of Aging Grant (with Jonathan Skinner and others).
- 2001 Rockefeller Fellowship, Dartmouth College
- 2001 Robert Wood Johnson Foundation Grant (with Peter Buerhaus).
- 1999 Agency for Healthcare Research and Quality Grant (with Jeannette Rogowski and Jeffrey Horbar).
- 1998 Kaiser Family Foundation Grant (with Phil Levine).
- 1997 Robert Wood Johnson Foundation Grant (with Peter Buerhaus).
- 1996 Robert Wood Johnson Foundation Grant (with Peter Buerhaus).
- 1994 NIH Postdoctoral Fellowship through the National Bureau of Economic Research.
- 1993 Veteran Administration Grant (with Ciaran Phibbs).
- 1989 Bradley Foundation Dissertation Fellowship.
- 1986 National Science Foundation Fellowship.

## **TEACHING EXPERIENCE**

Undergraduate Econometrics (introductory and advanced)  
 Graduate Econometrics  
 Undergraduate Health Economics  
 Graduate Health Economics  
 Undergraduate Labor Economics

## **INVITED LECTURES**

“Instrumental Variables,” AcademyHealth Cyber Seminar in Health Services Research Methods, March 2002.

“The Use of Instrumental Variables in Clinical and Health Policy Research,” Methods Workshop at Academy for Health Services Research and Health Policy Annual Meeting, June 2001.

“The Use of Instrumental Variables in Clinical and Health Policy Research,” Inaugural Methods Workshop at Lister Hill Center for Health Policy, University of Alabama Birmingham, March 2000.

“Instrumental Variables Estimation: Is It Useful?” Methods Workshop at Academy for Health Services Research Annual Meeting, June 1998.

## PUBLICATIONS

### Books

Buerhaus, Peter I., Douglas O. Staiger and David I. Auerbach, *The Future of the Nursing Workforce in the United States: Data, Trends and Implications*, Jones and Bartlett Publishers, New York, NY, March 2008.

### Journal Articles

“Empirically Derived Composite Measures of Surgical Performance,” forthcoming in *Medical Care* (with Justin Dimick, Onur Baser, Zhaohui Fan, and John Birkmeyer).

“Abortion and Selection,” forthcoming in *Review of Economics and Statistics* (with Elizabeth Ananat, Jonathan Gruber and Phillip Levine).

“What Does Certification Tell Us About Teacher Effectiveness?: Evidence from New York City”, forthcoming in *Economics of Education Review* (with Thomas Kane and Jonah Rockoff).

“The Effect of Randomized School Admissions on Voter Participation,” *Journal of Public Economics*, 91:915-937, June 2007 (with Justine Hastings, Thomas Kane and Jeffrey Weinstein).

“Do Race-Specific Models Explain Disparities in Treatments After Acute Myocardial Infarction?” *American Heart Journal* 153(5):785-791, May 2007 (with Ashish Jha, Amitabh Chandra, and Lee Lucas).

“Productivity Spillovers in Healthcare: Evidence From the Treatment of Heart Attacks,” *Journal of Political Economy*, 115(1):103-140, February 2007 (with Amitabh Chandra).

“Better Late Than Never: Workforce Supply Implications of Later Entry Into Nursing,” *Health Affairs*, 26(1):178-185, January/February 2007 (with David Auerbach and Peter Buerhaus).

“Creating Accountable Care Organizations: The Extended Hospital Medical Staff,” *Health Affairs*, web exclusive, 26(1):w44-w57, December 2006 (with Elliott Fisher, Julie Bynum, and Daniel Gottlieb).

“School Quality, Neighborhoods and Housing Prices,” *American Law and Economics Review*, 9(2):183-212, Summer 2006 (with Thomas Kane and Stephanie Riegg).

“Gender and Performance: Evidence From School Assignment By Randomized Lottery,” *American Economic Review Papers and Proceedings*, 96(2):232-236, May 2006 (with Justine Hastings and Thomas Kane).

- “Are Mortality Rates for Different Operations Related? Implications for Measuring the Quality of Non-Cardiac Surgery,” *Medical Care*, 44(8):774-778, August 2006 (with Justin Dimick and John Birkmeyer).
- “Operative Mortality and Procedure Volume as Predictors of Subsequent Hospital Performance,” *Annals of Surgery*, 243(3):411-417, March 2006 (with John Birkmeyer and Justine Dimick).
- “Is Technological Change in Medicine Always Worth It? The Case of Acute Myocardial Infarction,” *Health Affairs*, Web Exclusive, February 7, 2006 (with Jonathan Skinner and Elliott Fisher).
- “Mortality Among Very Low Birthweight Infants in Hospitals Serving Minority Populations,” *American Journal of Public Health*, 95(12):2206-2212, December 2005, (with Leo S Morales, Jeffery D Horbar, Joseph Carpenter, Michael Kenny, Jeffery Geppert, and Jeannette Rogowski).
- “Mortality After Acute Myocardial Infarction in Hospitals That Disproportionately Treat Black Patients,” *Circulation*, 112:2634-2641, October 25, 2005 (with Jonathan Skinner, Amitabh Chandra, Julie Lee, and Mark McClellan).
- “Hospital-level Racial Disparities in Acute Myocardial Infarction Treatment and Outcomes,” *Medical Care*, 43(4):308-319, April 2005 (with Amber Barnato, Lee Lucas, David Wennberg and Amitabh Chandra).
- “Fiscal Shenanigans, Targeted Federal Health Care Funds, and Patient Mortality,” *Quarterly Journal of Economics*, 120(1):345-386, February 2005 (with Katherine Baicker).
- “New Signs of a Strengthening U.S. Nurse Labor Market?” *Health Affairs*, Web Exclusive, November 17<sup>th</sup>, 2004 (with Peter Buerhaus and David Auerbach).
- “Variations in the quality of care for very low birth weight infants: Implications for policy”, *Health Affairs*, 23(5):88-97, September/October 2004 (with Jeffrey Horbar and Jeannette Rogowski).
- “Abortion Policy and Fertility Outcomes: The Eastern European Experience,” *Journal of Law and Economics*, 47(1):223-243, April 2004 (with Phil Levine).
- “Indirect vs Direct Hospital Quality Indicators for Very Low-Birth-Weight Infants,” *JAMA*, 291(2): 202-209, January 14, 2004 (with Jeannette Rogowski, Jeffrey Horbar, Michael Kenny, Joseph Carpenter, Jeffrey Geppert).
- “Is The Current Shortage of Hospital Nurses Ending?” *Health Affairs*, 22(6):191-198, November/December 2003 (with Peter Buerhaus and David Auerbach)
- “The Promise and Pitfalls of Using Imprecise School Accountability Measures,” *Journal of Economic Perspectives*, 16(4):91-114, fall 2002 (with Thomas Kane).

- "Health Insurance and Female Labor Supply in Taiwan," *The Journal of Health Economics*. 2001;20(2):187-212 (with Y.J. Chou).
- "Implications of an Aging Registered Nurse Workforce," *JAMA* 2000; 283 (22): 2948-2954 (with Peter Buerhaus and David Auerbach).
- "Why are registered nurse shortages concentrated in hospital specialty care units?" *Nursing Economic\$*. 2000;18(3):111-116 (with Peter Buerhaus and David Auerbach).
- "Associate degree graduates and the rapidly aging registered nurse workforce," *Nursing Economic\$*. 2000; 18(4):178-184 (with Peter Buerhaus and David Auerbach).
- "Expanding Career Opportunities for Women and the Declining Interest in Nursing as a Career," *Nursing Economic\$*. 2000; 18(5):230-236 (with Peter Buerhaus and David Auerbach).
- "Policy Responses to an Aging Registered Nurse Workforce," *Nursing Economic\$*. 2000;18(6):278-284 (with Peter Buerhaus and David Auerbach).
- "Abortion Legalization and Child Living Circumstances: Who is the 'Marginal Child'," *The Quarterly Journal of Economics*, 114(1), 1999, 263-291 (with Jonathan Gruber and Phillip Levine).
- "Roe V. Wade and American Fertility," *American Journal of Public Health*, 89(2), 1999, 199-103 (with Phillip Levine, Thomas Kane, and David Zimmerman).
- "Trouble in the Nurse Labor Market? Recent Trends and Future Outlook for Nurse Earnings and Employment," *Health Affairs*, January/February, 18(1), 1999, 214-222 (with Peter Buerhaus).
- "Future of the Nurse Labor Market in the View of Health Executives in High Managed Care States," *IMAGE: Journal of Nursing Scholarship*, 29(4), 1997, 313-318 (with Peter Buerhaus).
- "The NAIRU, Unemployment, and Monetary Policy," *Journal of Economic Perspectives*, 11(1), Winter 1997, 33-49 (with James Stock and Mark Watson).
- "Instrumental Variables Regression with Weak Instruments," *Econometrica*, 65(3), May 1997, 557-586 (with James Stock).
- "Managed Care and the Nurse Workforce," *JAMA*, 276(18), November 13, 1996, 1487-1493 (with Peter Buerhaus).
- "Abortion Access and Teen Motherhood," *The Quarterly Journal of Economics*, 111(2), May 1996, 467-506 (with Thomas Kane).
- "How Hospital Ownership Affects Access to Care for the Uninsured," *Rand Journal of Economics*, 25(1), Spring 1994, 171-185 (with Edward Norton).

## Other Publications

- “Photo Finish: Certification Does Not Guarantee a Winner,” *Education Next*, pp. 60-67, Winter 2007 (with Thomas Kane and Jonah Rockoff).
- “Technology Adoption from Hybrid Corn to Beta Blockers”, forthcoming in Ernst R. Berndt and Charles R. Hulten, eds., *Hard-to-Measure Goods and Services: Essays in Honor of Zvi Griliches*, University of Chicago Press and NBER (with Jonathan Skinner).
- “Identifying Effective Teachers Using Performance on the Job,” *The Hamilton Project* white paper 2006-01, the Hamilton Project, Washington, DC, 2006 (with Robert Gordon and Thomas Kane).
- “School Accountability Ratings and Housing Values,” in *Brookings-Wharton Papers on Urban Affairs 2003*, Brookings Institution Press, Washington DC, 2003 (with Thomas Kane and Gavin Samms).
- “Unintended Consequences of Racial Subgroup Rules,” in *No Child Left Behind? The Politics and Practice of School Accountability*, Paul Peterson and Martin West, Eds., Brookings Institution Press, Washington DC, 2003 (with Thomas Kane).
- “Volatility in School Test Scores: Implications for Test-Based Accountability Systems,” in *Brookings Papers on Education Policy, 2002*, Diane Ravitch, Ed., 235-283, Brookings Institution Press, Washington DC (with Thomas Kane).
- “Randomly Accountable,” *Education Next*, Spring 2002, 57-61 (with Thomas Kane and Jeffrey Geppert).
- “Rigid Rules Will Damage Schools,” OP-ED in the *New York Times*, Monday, August 13<sup>th</sup>, 2001, page A21 (with Thomas Kane).
- “Prices, Wages and the U.S. NAIRU in the 1990s”, in *The Roaring Nineties*, Alan Krueger and Robert Solow, Eds., 3-60, Russell Sage Foundation, New York, 2002 (also NBER working paper #8320) (with James Stock and Mark Watson).
- “Comparing the Quality of Health Care Providers,” in Alan Garber (ed.) *Frontiers in Health Policy Research, Volume 3*. 2000, The MIT Press, Cambridge MA, pp. 113-136 (with Mark McClellan).
- “Comparing Hospital Quality at For-Profit and Not-for-Profit Hospitals,” in David Cutler (ed.) *The Changing Hospital Industry*. 2000, University of Chicago Press, Chicago IL, pp. 93-112 (with Mark McClellan).
- "How Precise are Estimates of the Natural Rate of Unemployment," in Christina Romer and David Romer (ed.) *Reducing Inflation: Motivation and Strategy*, University of Chicago Press, 1997 (with James Stock and Mark Watson).

"The Covariance Structure of Mortality Rates in Hospitals," in David Wise (ed.) *Inquiries in The Economics of Aging*, University of Chicago Press, 1998.

Discussion of Cutler and Richardson's paper in *Brookings Papers on Economic Activity, Microeconomics 1997*, Martin Baily, Peter Reiss and Clifford Winston (eds.), The Brookings Institution, Washington D.C., 1998.

## **UNPUBLISHED PAPERS**

"Medicare Outlier Payments for Cardiac Surgery, " manuscript, June 2008 (with Onur Baser, Zhaohui Fan, Justin Dimick, and John Birkmeyer).

"Identifying Provider Prejudice in Healthcare," manuscript, March 2008 (with Amitabh Chandra).

"Are Teacher-Level Value-Added Estimates Biased? An Experimental Validation of Non-Experimental Estimates," manuscript, March 2008 (with Tom Kane).

"A Simple Composite Measure for Predicting Hospital Mortality with Surgery," manuscript, March 2008 (with Justin Dimick, Onur Baser, and John Birkmeyer).

"National Board Certification and Teacher Effectiveness: Evidence From a Random Assignment Experiment," manuscript, March 2007 (with Steven Cantrell, Jon Fullerton, and Tom Kane).

"Technology Adoption and Productivity Growth in Health Care," manuscript, November 2007 (with Jon Skinner).

"Preferences and Heterogeneous Treatment Effects in a Public School Choice Lottery," National Bureau of Economic Research working paper #12145, March 2006 (with Justine Hastings and Thomas Kane).

"Nurse Pay and Quality of Care," manuscript, March 2006 (with David Blanchflower and Peter White).

"Parental Preferences and School Competition: Evidence from a Public School Choice Program," National Bureau of Economic Research working paper #11805, November 2005 (with Justine Hastings and Thomas Kane).

"Using Imperfect Information to Identify Effective Teachers," manuscript, April 2005 (with Thomas Kane).

"Improving Provider Profiles for Assessing Quality of Care in a High Risk Patient Population," manuscript 2002 (with Jeannette Rogowski, Jeffrey Horbar, Michael Kenny, Joseph Carpenter, Jeffrey Geppert and Mark McClellan).

- "Improving School Accountability Systems," manuscript, 2002 (with Thomas Kane), earlier draft was NBER working paper #8156.
- "Abortion as Insurance," National Bureau of Economic Research working paper #8813, 2002 (with Phillip Levine).
- "Assessing the Definition of 'Adequate Yearly Progress' in the House and Senate Education Bills," manuscript, 2001 (with Thomas Kane and Jeffrey Geppert,).
- "An Economic Model of Teen Motherhood: Opportunity Costs, Biological Constraints, and the Timing of First Birth," manuscript 2001 (with Jonathan Wilwerding,).
- "How Do Good Hospitals Do It? Estimating the Effects of Medical Practice" manuscript, 2000 (with Jeffrey Geppert and Mark McClellan).
- "The Quality of Health Care Providers," National Bureau of Economic Research working paper #7327, September 1999 (with Mark McClellan).
- "Abortion Policy and the Economics of Fertility," manuscript, 1999 (with Phillip Levine).
- "Estimating Returns to Schooling when Schooling is Misreported," National Bureau of Economic Research Working Paper #7235, 1999 (with Thomas Kane and Cecilia E. Rouse).
- "Is There Monopsony in the Labor Market? Evidence From a Natural Experiment," National Bureau of Economic Research Working Paper #7258, 1999 (with Joanne Spetz and Ciaran Phibbs,).
- "Fertility and the Cost of Having a Child: Can the Government Influence Fertility Through Incentives?" manuscript, 1997 (with Y.J. Chou).
- "Measuring the Value of Medical Progress," manuscript, 1996 (with David Cutler).
- "Economic Evaluation of the 1991 Changes in How the VA Sets Wages for Nurses," Report to the Department of Veterans Affairs, Project IIR 91-148, 1995 (with Cairan Phibbs and Joanne Spetz).
- "Price Regulation and Patient Mortality in Hospitals" manuscript, 1995 (with Gary Gaumer).
- "Instrumental Variables Regression with Weak Instruments," NBER technical working paper #151, 1994 (with James Stock).
- "Tax Policy and Labor Unions," manuscript, 1994.
- "Regulation and labor earnings in hospitals," manuscript, 1990.

"Why do union contracts exclude employment?" manuscript, 1990.

"The effect of connections on the wages and mobility of young workers," manuscript, 1990.