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**Education:**

Yale University, B.A., Economics (*cum laude* with departmental honors), May 1975  
Yale University, M.A., Economics, May 1975  
Princeton University, (1976-1980), Ph.D., Economics, June 1981

**Professional Experience:**

Thomas DeWitt Cuyler Professor of Economics, Yale University, July 2002-present  
Visiting Professor of Economics, Harvard University, July 2011-June 2012  
Professor of Economics, Northwestern University, September 1990-August 2002  
Associate Professor of Economics, Northwestern University, September 1986-August 1990.  
Faculty Fellow, Institute for Policy Research (formerly Center for Urban Affairs and Policy Research), Northwestern University, September 1986-August 2002.  
Associate Director, Institute for Policy Research, September 1996-September 1997, September 1998- (Acting Director, September 1997- August 1998).  
Assistant Professor of Economics, Columbia University, July 1981-June 1986.  
Lecturer, Department of Economics, Columbia University, July 1980-July 1981.  
Visiting Assistant Professor of Economics, Princeton University, September 1984-June 1985.  
Visiting Research Associate, Industrial Relations Section, Princeton University, September 1984-August 1985.  
Research Associate, National Bureau of Economic Research, 1992-present.  
(Faculty Research Fellow, 1981-1992).  
Senior Research Associate, National Center of Education and Employment, Teachers College, Columbia University, December 1985-November 1990.  
Research Associate, Charles River Associates, Cambridge, MA, September 1975-September 1976.

## Other Positions

Consultant, Federal Reserve Bank of Chicago, July 1996-September 2002  
Senior Fellow, NCI Research, 1989-1995  
Consultant, Center for Naval Analysis, April 1987-December 1987  
IZA Research Fellow, 2002-

## Major Fields of Interest:

Labor Economics  
Macroeconomics  
Applied Econometrics

## Professional Honors:

Elected Member, American Academy of Arts and Sciences, 2010  
Elected Fellow of the Society of Labor Economists, 2005-  
Elected Fellow of the Econometric Society, 1997-  
Who's Who in Economics, 3rd and 4<sup>th</sup> Editions

## Publications:

### Edited Volumes and Journal Issues:

Attrition in Longitudinal Surveys, Editor with Charles Manski, Journal of Human Resources, Vol. 33, No. 2, 1998.

### Articles and Book Chapters

“The Analysis of Field Choice in College and Graduate School: Determinants and Wage Effects” (with Peter Arcidiacono and Arnaud Maurel), September 2015. Forthcoming in R. Hanushek, S. Machin, and L. Worrseman (eds) The Handbook of the Economics of Education, Volume V.

“Identifying Sibling Influence on Teenage Substance Use”, with Sarah Cattan and Iain Ware, October 2010, revised July 2015. Forthcoming, Journal of Human Resources.

“Cashier or Consultant? Entry Labor Market Conditions, Field of Study, and Career Success”, (with Lisa B. Kahn and Jamin D. Speer). Preliminary draft, May 2013. NBER Working Paper No 20531, September 2014. Forthcoming, Journal of Labor Economics

“Estimating the Cream Skimming Effect of School Choice,” with Ching-I Huang and Christopher R. Taber, Journal of Political Economy, 123(2) (April 2015): 266-324. Lead Article

“Trends in Earnings Differentials Across College Majors and the Changing Task Composition of Jobs”, with Lisa B. Kahn and Jamin D. Speer. American Economic Review: Papers & Proceedings, 104(5) (May 2014): 387–393

“Modeling Earnings Dynamics”, (with Anthony Smith and Ivan Vidangos). NBER Working Paper No. 14743. February 2009. Econometrica, 81(4) (July 2013): 1395-1454.

“Changes in the Characteristics of American Youth: Implications for Adult Outcomes”, (with Prashant Bharadwaj and Fabian Lange), NBER Working paper No. W13883 (March 2008), Journal of Labor Economics, 30(4) (October 2012): 783-828.

See also: Joseph G. Altonji, Prashant Bharadwaj, and Fabian Lange (2008), The Anemic Response of Skill Investment to Skill Premium Growth at VoxEU  
[Http://www.voxeu.org/index.php?q=node/1110](http://www.voxeu.org/index.php?q=node/1110).

Data Note: “Constructing AFQT Scores that are Comparable Across the NLSY79 and the NLSY97”, available at: <http://www.econ.yale.edu/~fl88/AFQTmatch.pdf>

“Heterogeneity in Human Capital Investments: High School Curriculum, College Major, and Careers”, (with Erica Blom, and Costas Meghir) NBER Working Paper No. 17985 (April 2012), Annual Reviews of Economics, Volume 4, 2012

"Estimating Derivatives in Nonseparable Models with Limited Dependent Variables", (with Hidehiko Ichimura and Taitsuke Otsu). Econometrica, 80(4) (July 2012): 1097-1128 .

“The Role of Family, School and Community Characteristics in Inequality in Education and Labor Market Outcomes”, with Richard Mansfield, in “Whither Opportunity? Rising Inequality and the Uncertain Life Chances of Low-Income Children,” edited by Greg Duncan and Richard Murnane, Russell Sage. 2011.

“Using Selection on Observed Variables to Assess Bias from Unobservables when Evaluating Swan-Ganz Catheterization”, (with Todd Elder, and Christopher Taber), American Economic Association Papers and Proceedings, (May 2008): 345-350.

“The Marginal Propensity to Spend on Adult Children”, (with Ernesto Villanueva), The B.E. Journal of Economic Analysis and Policy (Advances), April 2007.

“Work Hours, Wages, and Vacation Leave”, (with Emiko Usui) Industrial and Labor Relations Review, 6 No. 3 (April 2007): 408-428

“Discussion of ‘Dynamic Models for Policy Evaluation’ and ‘Microeconomic Search-Matching Models and Matched Employer-Employee Data’, in Advances in Economics and Econometrics: Theory and Applications, Ninth World Congress, edited by Richard Blundell, Whitney K. Newey and Torsten Persson, Chapter 12, 9<sup>th</sup> World Congress, Econometric Society, (2007).

“An Evaluation of Instrumental Variable Strategies for Estimating the Effects of Catholic Schooling” (with Todd Elder, and Christopher Taber,) Journal of Human Resources 40(4) (2005): 791-821

Cross Section and Panel Data Estimators for Nonseparable Models with Endogenous Regressors”, with Rosa Matzkin) Econometrica, 73 No 4, (July 2005):1053-1102. Lead Article

“Employer Learning, Statistical Discrimination, and Occupational Attainment”, American Economic Review Papers and Proceeding, May 2005.

- "Selection on Observed and Unobserved Variables: Assessing the Effectiveness of Catholic Schools" (with Todd Elder and Christopher Taber) Journal of Political Economy. February 2005.
- "Do Wages Rise with Job Seniority? A Reassessment" (with Nicholas Williams). Industrial and Labor Relations Review, April 2005.
- "The Role of Permanent Income and Demographics in Black/White Differences in Wealth", (with Ulrich Dorazelski) Journal of Human Resources Winter 2005. Lead Article
- "Vacation Laws and Annual Work Hours", (with Jennifer Oldham) Economic Perspectives Federal Reserve Bank of Chicago, Fall 2003, pp 19-29..
- "Dynamic Factor Models of Consumption, Hours, and Income" (with A. Martins and A. Siow), Research in Economics, 56(2) (2002): 3-56. Lead Article.
- "Employer Learning and Statistical Discrimination" (with Charles R. Pierret), Quarterly Journal of Economics, 116(1) (February 2001): 313-350.
- "Is There Nominal Wage Rigidity? Evidence from Panel Data." (with Paul Devereux), Research in Labor Economics, Vol 19, Elsevier Science Inc. (2000): 383-431.
- "An Intergenerational Model of Wages, Hours, and Earnings" (with Thomas Dunn), Journal of Human Resources , 35(2), (Spring 2000): 221-258. Lead Article
- "The Effects of Earnings and Wealth on Time and Money Transfers between Parents and Children" (with F. Hayashi and L. Kotlikoff) in Andrew Masson and Georges Tapinos, Editors, Sharing the Wealth: Demographic Change and Economic Transfers between Generations, Oxford University Press. 2000: 306-357.
- "Black/White Differences in Wealth" (with U. Doraszelski and L. Segal), Economic Perspectives Federal Reserve Bank of Chicago, Winter 2000.
- "Race and Gender in the Labor Market" (with Rebecca Blank) in O. Ashenfelter and D. Card, (eds), Handbook of Labor Economics Volume 3c Elsevier Science B.V. (1999): 3144-3259
- "The Effects of Labor Market Experience, Job Seniority and Mobility on Wage Growth" (with Nicolas Williams), Research in Labor Economics, Vol 17 (1998):233-276.
- "Effects of Personal and School Characteristics on Estimates of the Return to Education", Economics Perspectives , Federal Reserve Bank of Chicago, Winter 1998.
- "Employer Learning and the Signalling Value of Education" (with Charles Pierret). in I. Ohashi and T. Tachibanaki editors, Internal Labour Markets, Incentives and Employment, McMillan Press. (1998): 159-195
- "Parental Altruism and Intergenerational Transfers: Theory and Evidence" (with Fumio Hayashi and L. Kotlikoff), Journal of Political Economy 6 No. 105 (December 1997): 1121-1166. Lead Article.

"The Effects of Family Characteristics on the Return to Education" (with Thomas Dunn), Review of Economics and Statistics, (November 1996): 692-704

"Using Siblings to Estimate the Effects of School Quality on Wages" (with Thomas Dunn). Review of Economics and Statistics. (November 1996): 665-671.

"Small Sample Bias in GMM Estimation of Covariance Structures" (with Lewis Segal)) Journal of Business and Economic Statistics. Vol 14 No. 3 (July 1996): 353-366.

"Risk Sharing Between and Within Families (with Fumio Hayashi and Laurence Kotlikoff, Hayashi is first author.) Econometrica, 64 No. 2 (March 1996): 261-294.

"The Effects of High School Curriculum on Education and Labor Market Outcomes," Journal of Human Resources, 30(3) (Summer 1995): 410-438.

"The Demand for and Return to Education When Education Outcomes are Uncertainty", Journal of Labor Economics, 11 No 1(1) (January 1993):48-83.

"Using Wage Growth Models to Estimate the Returns to Experience, Seniority and Mobility Wage Growth" (with Nicolas Williams), in Labour Demand and Equilibrium Wage Formation, North Holland, (1993): 327-355.

"Is the Extended Family Altruistically Linked? Direct Tests Using Micro Data" (with Fumio Hayashi and Laurence Kotlikoff), American Economic Review, 82 No 5 (December 1992): 1177-1198.

"Labor Supply, Hours Constraints, and Job Mobility" (with Christina Paxson), Journal of Human Resources. 27 No. 2 (Spring 1992): 256-278.

"Relationships Among the Family Incomes and Labor Market Outcomes of Relatives (with Thomas Dunn). Research in Labor Economics, 12 (1991): 269-310.  
Reprinted in Research in in Labor Economics, 35<sup>th</sup> Anniversary Retrospective, 35 (2012): 761-302

See also "Introduction to Relationships Among the Labor Incomes and Labor Market Outcomes of Relatives", Research in in Labor Economics, 35<sup>th</sup> Anniversary Retrospective, 35 (2012): 757-760.

"Worker Characteristics, Job Characteristics, and the Receipt of On-the-Job Training", (with James Spletzer). Industrial and Labor Relations Review, 45(1) (October 1991): 58-79. (To be reprinted in O. Ashenfelter and R. LaLonde, editor, The Economics of Training, Edward Elgar Publishing Ltd.)

"The Effects of Immigration on the Labor Market Outcomes of Less-Skilled Natives (with David Card), in John Abowd and Richard Freeman (eds.), Immigration, Trade, and the Labor Market, University of Chicago Press (1991): 201-234. Reprinted in The New Immigration: Interdisciplinary Perspectives, Garland Publishing Inc. and in The Economics of Migration, Volume IV Edward Elgar Publishing Ltd., 2002.

"Intertemporal Substitution, Exogeneity and Surprises: Estimating Life-Cycle Models for Canada" (with J. Ham), Canadian Journal of Economics, XXIII No 1 (February 1990): 1-43

"Variation in Employment Growth in Canada: The Role of External, National, Regional and Industrial Factors" (with J. Ham), Journal of Labor Economics, Vol 8 (January 1990): S198-S236.

"Labor Supply Preferences, Hours Constraints, and Hours-Wage Tradeoffs" (with C. Paxson), Journal of Labor Economics, Vol. 6, No. 2 (April 1988): 254-276.

"Unions and Job Security in the Public Sector': Comment," in R. Freeman and C. Ichniowski (eds.), Public Sector Unionism, University of Chicago Press, Chicago, IL (1988).

"Testing the Response of Consumption to Changes in Income Using (Noisy) Panel Data" (with A. Siow), Quarterly Journal of Economics (May 1987): 293-328.

"Do Wages Rise With Job Seniority?" (with R. Shakotko), Review of Economic Studies, Vol. LIV (3) No. 179 (July 1987): 437-460. Reprinted in O. Ashenfelter and K. Hallock, eds., Labor Economics, Vol III) Edward Elgar (1995).

"Econometric Approaches to the Specification of Life-Cycle Labour Supply and Commodity Demand Behavior': Comment," Econometric Reviews, Vol 5, No. 1 (1986): 147-151.

"Job Characteristics and Hours of Work" (with C. Paxson), Research in Labor Economics, Vol. 8, Part A (1986): 1-55. Lead Article.

"The Collective Impact of Sectoral Shocks on Aggregate Employment Fluctuations" (with J. Ham), in P. Chinloy and E. Stromsdorfer (eds.), Labor Market Adjustments in the Pacific Basin, Kluwer-Nijhoff, Boston (1986): 161-202.

"Intertemporal Substitution in Labor Supply: Evidence from Micro Data," December 1984, Journal of Political Economy, Vol. 94, No. 3, Part 2 (June 1986): S176-S215. Reprinted in O. Ashenfelter and K. Hallock, eds., Labor Economics, Vol I, Edward Elgar (1995)

"Efficiency Wage Models: A Partial Evaluation': Comment," in Stanley Fisher (ed.), NBER Macroeconomics Annual, MIT Press, Cambridge, MA (1986): 276-284.

"The Intertemporal Substitution Model of Labor Market Fluctuations: An Empirical Analysis," Review of Economic Studies, Vol. 59(5), No. 159 (1982): 783-824. Reprinted in C. A. Greenhalgh, P. R. G. Layard, and A. J. Oswald (eds.), The Causes of Unemployment, Oxford University Press, Oxford (1983): 105-147 and in K. D. Hoover, eds. The Economic Legacy of Robert Lucas Jr. Edward Elgar.

"Wage Movements and the Labor Market Equilibrium Hypothesis" (with O. Ashenfelter), Economica (August 1980): 1-29, Lead Article.

"Effects on Motor-Carrier Operations of ICC Regulation of Operating Authority" (with W. B. Tye, P. O. Roberts, and J. T. Kneafsey), Transportation Research Board, Transportation Research Record, 635 (1977): 1-6.

"Estimating Misallocation of Traffic Between Rail and Truck Transport," Transportation Research Forum, (1976): 378-387.

### **Papers Under Review:**

"Group-Average Observables as Controls for Sorting on Unobservables When Estimating Group Treatment Effects: the Case of School and Neighborhood Effects Sorting on Observable and Unobservable Characteristics: A Control Function Approach", (with Richard Mansfield), preliminary draft, January 2014. NBER working Paper No 20781, December 2014. <http://www.nber.org/papers/w20781> Revise and resubmit, American Economic Review

### **Working Papers:**

"Methods for Using Selection on Observed Variables to Address Selection on Unobserved Variables", (with Timothy Conley, Todd Elder and Christopher Taber.) preliminary draft, September 2010, Revised April 2013.

"The Contribution of Family, School, and Community Characteristics to Inequality in Education and Labor Market Outcomes, with Richard Mansfield", revised July 2011.

"Nonparametric Intermediate Order Regression Quantiles,". With Hidehiko Ichimura and Tatsuke Otsu, working paper, <http://www.econ.yale.edu/~to64/Extreme17.pdf> (November 2008).

"The Effects of Family Background and School Characteristics on Education and Labor Market Outcomes," mimeo (December 1988).

"Choice of Instruments in the Errors in Variables Approach to Estimating Rational Expectations Models" (August 1983).

"Does the Labor Market Clear? A Test Based on Alternative Expectations Assumptions in the Intertemporal Substitution Framework," Columbia University Economics Discussion Paper No. 110 (September 1981).

### **Work in Progress:**

"The Effects Double Majors and Advanced Degrees on Occupation Choice and Wages" (with Ling Zhong)

"Portfolio Choice and the Extended Family" (with Costas Meghir and Anna Reynoso)

"Marriage Dynamics, Earnings Dynamics, and Lifetime Family Income" (with Ivan Vidangos).

“College Attendance on the Intensive Margin: Credit Constraints, Student Employment, and the Return to Education” (with Craig Pallson and Seth Zimmerman)

“An Analysis of Black-White Differences in the Wealth Gap Using Nonseparable Models”, (with Seik Kim and Rosa Matzkin), preliminary draft: May 2008.

### **Contracts and Grants:**

National Science Foundation, *Studies in Labor Economics*, August 2001-July 2006.

Kinship Foundation, *The Effect of Private School Vouchers on Student Performance* (with Christopher Taber) July 1, 2002-June 30 2003.

National Science Foundation, *The Chicago Research Data Center*, (with Gale Boyd, Barry Chiswick, Stephen Davis, and Daniel Sullivan) August 2001-September 2002).

Russell Sage Foundation, *The Black/White Gap in Wealth Holding*, December 1999-June 2001.

National Institute of Health and Child Development, *The Effects of Catholic Schools and Single Sex Schools*” (with Christopher Taber) August 1998-May 2002.

Citicorp Behavioral Sciences Research Council, *Variation in the Match Between Skills and Job Requirements: Causes and Consequences*, (with Paul Devereux). September 1997-September 1999.

Russell Sage Foundation, (with Rebecca Blank) *Race and Gender in the Labor Market* March 1997-June 1998.

National Science Foundation, *Differential Effectiveness of Schools*, July 1995-November 1999.

Bureau of Labor Statistics, *Education, Experience, and Employer Learning About Worker Productivity*, October 1993-March 1995.

National Institute of Aging, *Consumer Behavior, Transfers and the Extended Family*, September 1989-August 1992 (with Laurence Kotlikoff and Fumio Hayashi).

National Science Foundation, *Studies of Life Cycle Models of Consumer Behavior Using Panel Data*, March 1986-January 1991.

Bureau of Labor Statistics, *Family Background, Labor Market Outcomes, and Race and Sex Differences in Employment and Earnings*, October 1987-August 1989.

National Institute of Education, *Education and the Labor Market* (part of the Center for Education and Employment, Teachers College, Columbia University), December 1985-November 1990.

Spencer Foundation, *Education and the Labor Market* (with J. Mincer and A. Weiss), June 1985-May 1989.

Spencer Foundation, "Why Do Better Educated Workers Earn More: An Empirical Investigation" (with A. Weiss), summer 1984.

Social Science Research Council, Canada, *Dynamic Models of the Canadian Labor Market* (with J. Ham), 1983-1985.

U.S. Department of Labor, *Job Transitions, Wage Changes, and Unemployment* (with J. Mincer and A. Weiss), September 1983-May 1985.

U.S. Department of Labor, *Employer/Employee Attachments* (with J. Mincer and R. Shakotko),

### **Professional Activities:**

Board of Editors, *American Economic Review* (April 1991 - March 1994)

Co-editor, *Journal of Human Resources* (December 1991 - 1997 )



Editorial Board, Labour Economics (1992-1997, 2001-)

Associate Editor, Econometrica, (2001-2013)

Editorial Board, Labour, (2008-).

Editorial Board, Journal of Labor Economics (2009-2014).

Associate Editor, Quantitative Economics (2009-)

Board of Overseers, Panel Study of Income Dynamics, University of Michigan, (April 1991 - 1997).

Advisory Council, Department of Economics, Princeton University (June 1994 -2002)

Visiting Professor, INSAE, March 2000.

Visiting Professor, University of Paris I (LAMIA), March 1997.

Visiting Professor, Tel Aviv University, July 1997.

Hooker Distinguished Visiting Professor, Department of Economics, McMaster University, December 2014

Member, Committee on National Statistics, National Academy of Sciences/National Research Council (1998-2004).

Executive Committee, Joint Center for Poverty Research, University of Chicago and Northwestern University (1998-2002)

Member, Technical Review Committee, National Longitudinal Surveys Program, Bureau of Labor Statistics. (1999-2005)

Member, Panel on Methods for Assessing Discrimination, National Academy of Sciences/National Research Council (2001-2003)

Member, Economics Panel, Economics Program, National Science Foundation (November 2003-April 2005)

Member, Federal Economic Statistics Advisory Committee, 2006-2009, 2010-

External Review Committee, Department of Economics, University of Maryland (April 2009)

Nominating Committee, American Economic Association, 2011.

Member, Working Group on Science, Technology, Engineering, and Mathematics (STEM) Higher Education, President's Council on Science and Technology. February 2011-September 2011.

Nemmers Prize Committee (Economics), Northwestern University 2012

Program Committee, American Economic Association 2011, 2014

Program Committee, Society of Labor Economists,

Member, Advisory Committee for the Social, Behavioral and Economic Sciences Directorate of the National Science Foundation, May 2015-

Member, Executive Committee, Society of Labor Economists, July 2015-