

Curriculum Vitae

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University of Pennsylvania
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Education

The City College of New York, B.S., 1967
The Graduate School of the City University of New York, Ph.D., 1974

Employment Experience

Walter H. and Leonore C. Annenberg Professor in the Social Sciences,
University of Pennsylvania, 7/02-
Chair, Department of Economics, University of Pennsylvania, 7/12-
Acting Chair, Department of Economics, University of Pennsylvania,
7/06-6/07
Chair, Department of Economics, University of Pennsylvania, 7/01- 6/05
Acting Chair, Department of Economics, University of Pennsylvania, 7/99
-6/00
Professor of Economics, University of Pennsylvania, 7/95-6/02
Lawrence R. Klein Professor of Economics, University of Pennsylvania,
1/96-6/99
Director, Institute for Economic Research, University of Pennsylvania,
7/95-6/99
Professor of Economics, New York University, 9/92-8/95
Professor of Economics, University of Minnesota, 10/87-8/92
Professor of Economics, The Ohio State University, 10/83-9/87
Principal Investigator, National Longitudinal Surveys, The Ohio State
University, 10/83-9/87
Director, Center for Human Resource Research, The Ohio State
University, 10/85-9/87
Acting Director, Center for Human Resource Research, The Ohio State
University, 10/84-9/85
Associate Professor of Economics, Yale University, 7/79-6/83
Assistant Professor of Economics, Yale University, 7/76-6/79
High School Mathematics Teacher, George Washington High School, New
York, NY 1968-1971

Publications

"Aligning Learning Incentives of Students and Teachers: Results from a Social Experiment in Mexican High Schools," with Jere Behrman, Susan Parker and Petra Todd, March, 2011, Journal of Political Economy, forthcoming.

The Limits of Inference without Theory, MIT Press, 2013.

"On the Use of Holdout Samples for Model Selection," with Frank S. Schorfhiede, Papers and Proceedings, American Economic Review, May, 2012.

"The Structural Estimation of Behavioral Models: Discrete Choice Dynamic Programming Methods and Applications," with Michael P. Keane and Petra E. Todd, Handbook of Labor Economics, vol. 4A, 2011.

"Structural Estimation and Policy Evaluation in Developing Countries," with Petra E. Todd, Annual Review of Economics, September, 2010.

"The Role of Labor and Marriage Markets, Preference Heterogeneity and the Welfare System on the Life Cycle Decisions of Black, Hispanic and White Women," with Michael P. Keane, International Economic Review, August, 2010.

"Accounting for Wage and Employment Changes in the U.S from 1968-2000: A Dynamic Model of the Labor Market Equilibrium," with Donghoon Lee, Journal of Econometrics, May 2010.

"Empirical Applications of Discrete Choice Dynamic Programming Models," with Michael P. Keane, Review of Economic Dynamics, January, 2009.

"Ex-Ante Evaluation of Social Programs," with Petra Todd, Annals of Economics and Statistics, December, 2008.

"Social Security and the Savings and Retirement Behavior of Low-Income Households," with Wilbert van der Klaauw, Journal of Econometrics, July, 2008.

"The Production of Cognitive Achievement in Children: Home, School and Racial Test Score Gaps," with Petra E. Todd, Journal of Human Capital, December, 2007.

- "Exploring the Usefulness of a Non-Random Holdout Sample for Model Validation: Welfare Effects on Female Behavior," with Michael Keane, International Economic Review, November, 2007.
- "Ex Ante Policy Evaluation, Structural Estimation and Model Selection," Papers and Proceedings, American Economic Review, May, 2007.
- "Assessing the Impact of a School Subsidy Program in Mexico: Using a Social Experiment to Validate a Behavioral Model of Child Schooling and Fertility," with Petra E. Todd, American Economic Review, December, 2006.
- "Intersectoral Labor Mobility and the Growth of the Service Sector," with Donghoon Lee, Econometrica, January 2006.
- "Wage Equations and Education Policy," in Advances in Economics and Econometrics, eds. M. Dewatripont, S. Turnovsky and L.Hansen, Cambridge University Press: Cambridge, 2003.
- "On the Specification and Estimation of the Production Function for Cognitive Achievement," with Petra Todd, Economic Journal, February 2003.
- "Estimating Welfare Effects Consistent with Forward-Looking Behavior, Part I: Lessons From a Simulation Exercise," with Michael Keane, Journal of Human Resources, Summer 2002.
- "Estimating Welfare Effects Consistent with Forward-Looking Behavior, Part II: Empirical Results," with Michael Keane, Journal of Human Resources, Summer 2002.
- "The Effect of Parental Transfers and Borrowing Constraints on Educational Attainment," with Michael Keane, International Economic Review, November, 2001.
- "Natural 'Natural Experiments' in Economics", with Mark R. Rosenzweig, Journal of Economic Literature, December, 2000.
- "Eliminating Race Differences in School Attainment and Labor Market Success," with Michael Keane, Journal of Labor Economics, October 2000.
- "Why Youths Drop Out of High School: The Impact of Preferences, Opportunities and Abilities," with Zvi Eckstein, Econometrica, November 1999.

"Estimating the Effect of Racial Discrimination on First Job Wage Offers," with Zvi Eckstein, Review of Economics and Statistics, August 1999.

"A Quantitative Analysis of Swedish Fertility Dynamics: 1751-1990," with Zvi Eckstein and Pedro Mira, Review of Economic Dynamics, January 1999.

"The Career Decisions of Young Men," with Michael Keane, Journal of Political Economy, June 1997.

"Determinants and Consequences of the Mortality and Health of Infants and Children," in Handbook of Population and Family Economics, eds. O. Stark and M. Rosenzweig, North-Holland, 1997. A shortened version "The Effect of Infant and Child Mortality Risk on Fertility" appears in From Death to Birth, M.R. Montgomery and B. Cohen, eds. National Academy Press, 1998.

"Public-Policy Uses of Discrete-Choice Dynamic Programming Models," Papers and Proceedings, American Economic Review, May 1996.

Empirical Methods for the Study of Labor Force Dynamics, in the series Fundamentals of Pure and Applied Economics, Harwood Academic Publishers, 1995.

"Sisters, Siblings, and Mothers: The Effects of Teen-Age Childbearing on Birth Outcomes", with Mark R. Rosenzweig, Econometrica, March 1995.

"Duration to First Job and the Return to Schooling: Estimates from a Search-Matching Model", with Zvi Eckstein, Review of Economic Studies, January 1995.

"Parental and Public Transfers to Young Women and Their Children," with Mark R. Rosenzweig, American Economic Review, December 1994.

"The Solution and Estimation of Discrete Choice Dynamic Programming Models by Simulation: Monte Carlo Evidence," with Michael Keane, Review of Economics and Statistics, November 1994.

"Inequality Among Young Adult Siblings, Public Assistance Programs, and Intergenerational Living Arrangements," with Mark R. Rosenzweig, Journal of Human Resources, Fall 1994.

- "Are There Increasing Returns to the Intergenerational Production of Human Capital? Maternal Schooling and Child Intellectual Achievement", with Mark R. Rosenzweig, Journal of Human Resources, Spring 1994.
- "Credit Market Constraints, Consumption Smoothing and the Accumulation of Durable Production Assets in Low-Income Countries: Investments in Bullocks in India," with Mark R. Rosenzweig, Journal of Political Economy, April 1993.
- "Maternal Expectations and Ex Post Rationalizations: The Usefulness of Survey Information on the Wantedness of Children," with Mark R. Rosenzweig, Journal of Human Resources, Spring 1993.
- "Intergenerational Support and the Life-Cycle Incomes of Young Men and Their Parents: Human Capital Investments, Co-Residence and Interhousehold Financial Transfers," with Mark R. Rosenzweig, Journal of Labor Economics, January 1993.
- "The Determinants of Black-White Differences in Early Employment Careers: Search, Quits, Layoffs and Endogenous Wage Growth," Journal of Political Economy, June 1992.
- "Inequality at Birth: The Scope for Government Intervention," with Mark R. Rosenzweig, Journal of Econometrics, October/November 1991.
- "Estimating a Market Equilibrium Search Model from Panel Data on Individuals," with Zvi Eckstein, Econometrica, July 1990.
- "Dynamic Labor Force Participation of Married Women and Endogenous Work Experience," with Zvi Eckstein, Review of Economic Studies, July 1989.
- "The Specification and Estimation of Dynamic Stochastic Discrete Choice Models: A Survey," with Zvi Eckstein, Journal of Human Resources, Fall 1989.
- "On the Estimation of Labor Force Participation, Job Search, and Job Matching Models Using Panel Data," with Zvi Eckstein, in Advances in Theory and Measurement of Unemployment, Yoram Weiss and Gideon Fishelson, eds., Macmillan Press, London: 1989.

- "On the Malthusian Hypothesis and the Dynamics of Population and Income in an Equilibrium Growth Model with Endogenous Fertility," with Zvi Eckstein and Steven Stern, in Economic Theory of Optimal Population, Klaus F. Zimmermann, ed., Springer-Verlag, Germany: 1989.
- "Migration Selectivity and the Effects of Public Programs," with Mark R. Rosenzweig, Journal of Public Economics, December 1988.
- "Heterogeneity, Intrafamily Distribution and Child Health," with Mark R. Rosenzweig, Journal of Human Resources, Fall 1988.
- "Fertility Choice, Land, and the Malthusian Hypothesis," with Zvi Eckstein and Steven Stern, International Economic Review, May 1988.
- "Estimating a Structural Search Model: The Transition from School to Work," Econometrica, July 1987.
- "Evaluating the Effects of Optimally Distributed Public Programs: Child Health and Family Planning Intervention," with Mark R. Rosenzweig, American Economic Review, June 1986.
- "Specific Experience, Household Structure and Intergenerational Transfers: Farm Family Land and Labor Arrangements in Developing Countries," with Mark R. Rosenzweig, Quarterly Journal of Economics, Supplement, December 1985.
- "Endogenous Fertility and Optimal Population Size," with Zvi Eckstein, Journal of Public Economics, June 1985.
- "Short Run Fluctuations in Fertility and Mortality in Preindustrial Sweden," with Zvi Eckstein and T. Paul Schultz, European Economic Review, January 1985.
- "An Estimable Dynamic Stochastic Model of Fertility and Child Mortality," Journal of Political Economy, October 1984.
- "The Household Structure of Immigrants and Natives," Research in Population Economics, Vol. 5, JAI Press, Greenwich CT, 1984.
- "The Impact of Exogenous Child Mortality on Fertility: A Waiting Time Regression with Dynamic Regressors," with Randall Olsen, Econometrica, May 1983.

- "A New Test of the Permanent Income Hypothesis: The Impact of Weather on the Income and Consumption of Farm Households in India," International Economic Review, October 1982.
- "Government Intervention and Household Behavior in a Developing Country: Anticipating the Unanticipated Consequences of Social Programs," with Mark R. Rosenzweig, Journal of Development Economics, August 1982.
- "A Time Series-Cross Section Analysis of International Variation in Crime and Punishment," Review of Economics and Statistics, August 1980.
- "Life-Cycle Labor Supply and Fertility: Causal Inferences from Household Models," with Mark R. Rosenzweig, Journal of Political Economy, April 1980.
- "Testing the Quantity-Quality Fertility Model: The Use of Twins as a Natural Experiment," with Mark R. Rosenzweig, Econometrica, January 1980.
- "An Economic Analysis of Crime and Punishment in England and Wales: 1894-1967," Journal of Political Economy, October 1978.
- "Capital Punishment and Homicide: The English Experience," published in abbreviated form as "Capital Punishment and Homicide in England: A Summary of Results," Papers and Proceedings, American Economic Review, May 1978.
- "Education and Screening," American Economic Review, December 1977.
- "Does the Contract Compliance Program Work?," with James J. Heckman, Industrial Labor Relations Review, July 1976. Reprinted with additional tables and mathematical appendix as "An Economic Analysis of the Contract Compliance Program," in Essays in Labor Market Analysis, edited by Orley C. Ashenfelter and Wallace E. Oates, John Wiley and Sons, New York: 1977.

Papers

- Structural Estimation of a Becker-Ehrlich Equilibrium Model of Crime: Allocating Police Across Cities to Reduce Crime," with Chao Fu, April 2013.
- Estimating a Coordination Game in the Classroom," with Petra E. Todd, April, 2013

"To Hold Out or Not to Hold Out," with Frank S. Schorfheide, December 2012.

"The Transition from School to Jail: Youth Crime and High School Completion Among Black Males," with Antonio Merlo, September, 2008.

"Within-Family Treatment Effect Estimators; The Impact of Oportunidades on Schooling in Mexico," with Susan Parker and Petra Todd, September, 2005

"The Effect of the Timing and Frequency of Marijuana Use on Fetal Growth Based on Sibling Birth Data," with Mark R. Rosenzweig, September 1989.

"On the Use of Expectations Data in Micro Surveys: The Case of Retirement," with Fusun Gonul, March 1985.

Reviews, Comments, Edited Books

"Education Data in the NLSY79," Monthly Labor Review, February, 2005.

Commentary on "Analysis of Choice Expectations in Incomplete Scenarios" by Charles F. Manski, Journal of Risk and Uncertainty, 1999.

Co-edited special volume of the Journal of Business Economics and Statistics on Structural Estimation in Economics with "Introduction," with Michael Keane, April 1997.

Review of Smoking: Making the Risky Decision by W. Kip Viscusi, Journal of the American Statistical Association, December 1993.

"Infant Mortality," essay in The New Palgrave: A Dictionary of Economic Theory and Doctrine, edited by J. Eatwell, M. Milgate, and P. Newman, Macmillan Press, London: 1987.

Research in Population Economics, Vol. 5, ed. with T. Paul Schultz, JAI Press, Greenwich CT: 1984.

Review of Evaluating the Labor-Market Effects of Social Programs, O. C. Ashenfelter and J. Blum eds., Journal of Political Economy, February 1978.

Advisory and Other Professional Commitments

Editor, International Economic Review, 2008-2011
Editorial Board, American Economic Review, 2003-2004
Steering Committee, Health and Retirement Study, 2000-2004
Advisory Board Member, Michigan Retirement Research Center, 1999-2004
Member, NAS-NRC Committee on Assessment and Teacher Quality, 1999-2001
Member, NAS-NRC Board on Testing and Assessment, 1997-2003
Editorial Board, International Economic Review, 1997-2002
Advisory Board Member, Early Childhood Longitudinal Study, National Center for Educational Statistics, 1996-1997
Advisory Board Member, Panel Study of Income Dynamics, 1983-1986, 1994-2000
Advisory Committee Member, High School and Beyond Survey, National Center for Education Statistics, 1990-1992
Advisory Panel Member, National Longitudinal Surveys, Bureau of Labor Statistics, 1988-1995
Co-Editor, Journal of Human Resources, 1987-1997
Associate Editor, Econometrica, 1987-1993
Panel Member, Social Science and Population Study Section, NIH, 1987-91
Advisory Economics Panel, National Science Foundation, 1984-1986
Consulting Editor, American Economic Review, 1978-1981

Grants

National Science Foundation, "Estimating a Coordination Game in the Classroom," with Petra Todd, 2012-2015.

Spencer Foundation, "Effects of Schooling Reforms on Education and Labor Markets: Lessons from Chile," with Jere Behrman and Petra Todd, 9/2008-8/2011.

National Science Foundation, "Labor Mobility, Relative Wages and the Growth of the Service Sector," with Donghoon Lee, 2005-2008.

National Science Foundation, "Using Experimental Data to Validate a Dynamic Behavioral Model of Human Capital Investments in Children: Evaluating the Impact of Mexico's PROGRESA Program", with Petra Todd, 2001-2004.

National Institutes of Health, "Estimating Retirement Models Using Subjective Data", with Wilbert Vander Klaauw, 1998-2003.

National Institutes of Health, "Public Welfare and the Life Cycle Decisions of Young Women," with Michael Keane, 1995-1999.

National Science Foundation, "Endogenous Schooling and the Transition to Work," with Zvi Eckstein, 1993-1996.

National Institutes of Health, "Career Decisions of Young Men," with Michael Keane, 1992-1996.

National Science Foundation, "Interpreting the Duration to First Job and Accepted Wages in a Bargaining Model," with Zvi Eckstein, 1991-1993.

National Institutes of Health, "Intergenerational Financial Assistance Over the Adult Life-Cycles of Parents and Children," with Mark R. Rosenzweig, 1990-1994.

National Institutes of Health, "Parental Demographic Behavior and Child Health and Development," with Mark R. Rosenzweig, 1987-1992.

National Science Foundation, "Human Capital Accumulation and Equilibrium Job Assignment," with Robert Miller, 1988-1990.

National Science Foundation, "Estimating Equilibrium Search Models," with Zvi Eckstein, 1987-1989.

National Science Foundation, "Specification and Estimation of Dynamic Stochastic Labor Force Participation and Search Models," with Zvi Eckstein, 1985-1987.

Agency for International Development, "The Effects of Government Programs and Household Behavior on Fertility and Child Health: An Analysis of Longitudinal Data from Colombia and the Philippines," with Mark R. Rosenzweig, 1982-1984.

National Science Foundation, "Dynamic Stochastic Models of Household Behavior: Theory and Estimation," with Zvi Eckstein, 1982-1983.

Select Commission on Immigration, "The Household Structure of Immigrants and Natives," 1980.

Agency for International Development, "Economic Determinants of Fertility and Child Health in Philippine and Rural Indian Households," with R. Evenson and Mark R. Rosenzweig, 1979-1980.