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Personal

Date of Birth: April 19, 1944

Place of Birth: Chicago, Illinois

Education

B.A. 1965 (Math) Colorado College (summa cum laude)

M.A. 1968 (Econ) Princeton University

Ph.D. 1971 (Econ) Princeton University

Dissertation

“Three Essays on Household Labor Supply and the Demand for Market Goods.”

Sponsors: S. Black, H. Kelejian, A. Rees

Graduate and Undergraduate Academic Honors

Phi Beta Kappa

Woodrow Wilson Fellow

NDEA Fellow

NIH Fellow

Harold Willis Dodds Fellow

Post-Graduate Honors

Honorary Degrees and Professorships

Doctor Honoris Causis, University of Montréal, May 2004.

Doctor Honoris Causis, Bard College, May 2004.

Honorary Professor, Wuhan University, Wuhan, China, 2003.

Doctor Honoris Causis, UAEM, Mexico, January 2003.

Doctor Honoris Causis, University of Chile, Fall 2002.

Honorary Doctor of Laws, Colorado College, 2001.

Honorary Professor, Huazhong University, Wuhan, China, 2001.

Honorary Member, Latin and Caribbean Economic Association, 1999.

Honorary Professor, University of Tucuman, October, 1998.

Awards

Bank of Sweden Prize in Economic Sciences in Honor of the Memory of Alfred Nobel, 2000.

Theodore W. Schultz Award, American Agricultural Economics Association Foundation, January 2007.

Ulysses Medal, University College Dublin, 2006.

Dennis J. Aigner Award for Applied Econometrics, *Journal of Econometrics*, 2005.

Jacob Mincer Award for Lifetime Achievement, Society of Labor Economics, 2005.

Medal, Center for Early Child Development for “Exceptional Contributions to Childhood Development”, May 2004.

Elevated to Distinguished Service Professorship, University of Chicago, 1995–.

A. Whitney Griswold Professor of Economics, Yale University, 1988–1990.

Henry Schultz Professor of Economics, University of Chicago, 1985–.

Statistician of the Year, Chicago Chapter of the American Statistical Association, 2002.

First Annual Louis T. Benezet Distinguished Alumnus Award, Colorado College, 1985.

Irving Fisher Professor, Yale University, Fall 1984.

John Bates Clark Medal (American Economics Association), 1983.

Fellowships

Fellow, Society of Labor Economics, 2005–.

Fellow, *Journal of Econometrics*, 2005–.

Elected Member, National Academy of Sciences, 1992–.

Elected Fellow, American Academy of Arts and Sciences, 1985–.

Fellow, American Statistical Association, 2001.

Senior Research Fellow, American Bar Foundation, 1991–.

Fellow, Econometric Society, 1980.

John Simon Guggenheim Memorial Fellowship, 1978–1979.

Fellow, Center for Advanced Study in the Behavioral Sciences, Stanford University, 1978–1979.

Social Science Research Council Training Fellow, 1977–78.

Harry Scherman Fellow, National Bureau of Economic Research, 1972–1973.

Major Invited Lectures

1. “The Technology of Building Human Capacities: Lessons for Public Policy,” Building Blocks Conference, Alberta, Canada, May 2007.
2. Keynote Address, “Investing in Disadvantaged Young Children Is Good Economics and Good Public Policy,” National Summit on America’s Children, Washington D.C., May 2007.
3. “The Economics, Technology and Neuroscience of Human Capability Formation,” Allostasis/Allostatic Load Conference, Princeton University, May 2007.
4. “Left Behind: the GED and America’s Dropout Problem,” Brookings Institution, Hamilton Project Forum: The Role of Education in Promoting Opportunity and Economic Growth, Washington D.C., March 2007.
5. Plenary Address, “The Evolution of Labor Earnings Risk in the U.S. Economy,” 4th International Finance Conference in Collaboration with Université Cergy-Pontoise, REMEREG and ISC Paris, Diar el Medina, Tunisia, March 2007.
6. Theodore W. Schultz Lecture, “The New Economics of Child Quality,” American Economic Association, January 2007.
7. Keynote Address, “What Lessons Should China Learn from European Welfare States?” WEAI Pacific Rim Conference, Beijing, China, January 2007.
8. Max Weber Lecture, “The Economics of Human Development,” European University, Florence, Italy, October 2006.
9. Koopmans Lectures, “Cowles Commission Structural Models, Causal Effects and Treatment Effects: A Synthesis,” “Instrumental Variables: Then and Now,” and “The Evolution of Labor Earnings Risk in the US Economy,” Cowles Foundation, Yale University, September 2006.
10. Michelson Memorial Lecture, “Skills, Schools and Synapses,” US Naval Academy, September 2006.
11. Conway Institute Lecture, “The Technology and Neuroscience of Skill Formation,” University College Dublin, June 2006.
12. Ulysses Medal Lecture, “The Economics of Child Development,” University College Dublin, June 2006.
13. Invited Lecture, “Understanding Instrumental Variables in Models with Essential Heterogeneity,” “Econometric Evaluation of Public Policies : Methods and Applications” Conference, Center for Research in Economics and Statistics, Paris, December 2005.
14. Inaugural Lecture, “Credit Constraints, Family Constraints and Optimal Policies to Reduce Inequality and Promote Productivity,” Geary Institute, University College Dublin, April 2005.

15. Richard Ely Distinguished Lecturer, Johns Hopkins University, April 2005. Talks: "Inequality in America: What Role for Human Capital Policies?" "Understanding Inequality: Separating Uncertainty from Heterogeneity in Life Cycle Earnings," "Match Bias and Economic Returns to the GED," "Understanding Instrumental Variables in Models with Essential Heterogeneity," "The Importance of Cognitive and Noncognitive Skills in Explaining a Variety of Socioeconomic Outcome Measures"
16. Hicks Lecture, Oxford University, April 2004.
17. Keynote Lecture, Great Hall of the People, Beijing, December 2003 (Major Lecture on China's Investment in Human Capital at Renmin University's Anniversary Celebration).
18. Nobel Symposium Lecturer, St. Petersburg, Russia, June 2003.
19. Munich Economic Summit, Munich, May 2003.
20. European Society for Population Economics, 2003.
21. Keynote Lecture, Tinbergen Centenary, Rotterdam, April 2003.
22. W.P. Carey Lecture, Colorado College, February 2002.
23. Miguel Sidrauski Lecture, Latin American Econometric Society Meetings, Sao Paulo, 2002.
24. Tinbergen Lecture, Royal Dutch Economics Association, October 2002.
25. Walras-Pareto Lectures, University of Lausanne, October 2002.
26. Gorman Lectures, University College, London, Fall 2001.
27. Klein Lecture, University of Pennsylvania, October 2001.
28. Review of Economics and Statistics Lecture, April 2001.
29. Economic Journal Lecture, Royal Economic Society, April 2001.
30. Jovanovich Lecture, Colorado College, February 2001.
31. Distinguished Lecture, Southern Economics Association, Washington, D.C., November 2000.
32. Fisher-Schultz Lecture, World Meeting of the Econometric Society, August 2000.
33. Yoram Ben Porath Memorial Lecture, Hebrew University, (First in series), June 2000.
34. Wildavsky Forum Lecture, University of California, Berkeley, April 1999.
35. Woytinsky Lecture, University of Michigan, October 1999.
36. Invited Lecture, Latin American Meetings of the Econometric Society, Cancun, Mexico, August 1999.
37. Invited lecturer, Econometric Society Meetings, Lima, Peru, August 1998.
38. Distinguished Lecture, Institute for Survey Research, University of Michigan, January 1998.

39. McKinley Lecturer, University of Illinois, March 1998.
40. Fishelson Memorial Lecture, Tel Aviv University, December 1998.
41. Malim Harding Lecturer, University of Toronto, October 1997.
42. Jacob Marschak Lecturer, Far Eastern Econometric Society Meetings, Hong Kong, July 25, 1997.
43. Economics Study Group, Gronigen, Holland, June 1997.
44. Invited Lecture, Latin American Econometric Society Meetings, Santiago, Chile, August 1997.
45. *Journal of Applied Econometrics* Lectures (First Lecturer in a new series established by the *Journal of Applied Econometrics*, Yale University, April 17–18, 1997).
46. Keynote Lecture, Latin American Econometric Society, Santiago Chile, August 1997.
47. Keynote Lecture, Society For Economic Dynamics and Control, Mexico City, June 27, 1996.
48. Keynote Lecture, Latin American Econometric Society, Rio de Janeiro, August 1996.
49. Keynote Speaker, American Sociological Association Meetings, New York, August 16, 1996.
50. Gilbert Lecture, University of Rochester, April 1996.
51. Seymour Harris Lectures, Kennedy School of Government, 1995. (First lecturer in a newly endowed series) Lectures to be published by Harvard University Press.
52. Distinguished Quantitative Social Science Lecture, University of Indiana, April 1996.
53. Invited Lecture, Centenary of Ragnar Frisch, First Nobel Economist, Oslo, March 1995.
54. Invited Lecture, Public Policy School, SUNY Albany, October 1994.
55. Invited Lecture, Latin American Econometric Society, Caracas, August 1994.
56. Aloysius Dunaway Memorial Lecture, Michigan State University, April 1993.
57. Carl Synder Memorial Lecture, University of California at Santa Barbara, Spring 1992.
58. H. Chase-Stone Lecture in Economics, Colorado College, 1992 (participant in three day symposium).
59. Martin Luther King Lecturer, University of Michigan, 1991.
60. Invited Lecture, Econometric Study Group, Royal Economic Society, Bristol, England, 1991.
61. Barcelona Lecture, Sixth World Econometric Society, 1990.
62. Erik Malmstens Distinguished Guest Professor of Economics, Gothenburg University, Gothenburg, Sweden, 1990.
63. Invited Major Lecture, University of Western Ontario, 1989.

64. Invited Major Guest Lecture, Joint Franco-Belgian Conference in Statistics, Toulouse, France, 1988.
65. Chung-Hua Distinguished Visitor and Academica Sinica Lectures, Taiwan, 1988.
66. Fish Lecture, Brigham Young University, 1987.
67. Harry Lyman Hooker Distinguished Visiting Professor, McMaster University, 1987.
68. Leif Johansen Lecture, University of Oslo, 1986.
69. Abbott Lecturer, Colorado College, 1985.
70. Major Lecture, Australasian Econometric Society, Sydney, Australia, 1984.

Professional Experience

University College Dublin

Professor of Science and Society, 2005–

Peking University

Changjiang River Scholar Professor, 2004–

University College London

Distinguished Chair of Microeconometrics, 2004–

University of Chicago

Henry Schultz Distinguished Service Professor, 1995–

Henry Schultz Professor, 1985–1995

Professor of Economics, 1977–

Associate Professor, 1973–1977 (tenured, 1974)

Irving Harris School of Public Policy, 1990–

Director, Center for Social Program Evaluation, 1991–

American Bar Foundation

Senior Fellow, 1993–

Yale University

A. Whitney Griswold Professor of Economics, 1988–1990

Professor of Statistics, 1990

Yale Law School Lecturer, 1989–1990

National Bureau of Economic Research

Associate, 1971–1985, 1987–
Research Fellow, 1972–1973

National Opinion Research Center

Research Associate, 1979

RAND Corporation

Consultant 1975–1976

Columbia University

Associate Professor 1973–1974
Assistant Professor, 1970–1973

New York University

Adjunct Assistant Professor, 1972
Council of Economic Advisors
Junior Economist Advisors, 1967

Previous Positions

Martin-Marietta Aerospace Systems Engineer, 1965

Other Professional Activities

1. Director, Economic Research Center, University of Chicago
2. Director, Center for Social Program Evaluation, University of Chicago
3. President, Western Economics Association 2003 (Cycle: VP (2003–2004), President Elect (2004–2005), President (2005–2006))
4. Council, Econometric Society, 2000–2006
5. President, Midwest Economics Association, 1998.
6. *Econometrics Reviews*, Co-Editor; Associate Editor, 1987–
7. *Handbook of Econometrics* Vol. 6, Co-Editor with Ed Leamer
8. *Handbook of Econometrics* Vol. 7, Co-Editor with Ed Leamer
9. Econometric Society Council, 2001–2004
10. American Economics Association, Executive Committee Member, 2000–2003
11. Science, Technology and Economic Policy Board, National Research Council, Member 2000–

12. *Evaluation Review*, Associate Editor, 1991–1996
13. *Journal of Economic Perspectives*, Associate Editor, 1989–1996
14. *Review of Economics and Statistics*, Associate Editor, 1994–2002
15. Member, Advisory Board and Dean’s Search Committee, School of Public Policy, University of Chicago, 1985–1988
16. Member, National Academy of Sciences Panel on the Status of Black Americans, 1985–1988
17. *Journal of Labor Economics*, Associate Editor, 1982–
18. Member, National Academy of Sciences Panel On Statistical Assessments as Evidence in the Courts, 1982–1985
19. *Review of Economic Studies*, Associate Editor, 1982–1985
20. *Journal of Political Economy*, Co-Editor, 1981–1987
21. Member, Board of Overseers, Michigan Panel Survey of Income Dynamics, 1981–1984
22. *Journal of Econometrics*, Editor of the Special Issue on Panel Data, 1981
23. Member, Advisory Board Chicago Urban League, 1980–1987
24. Academic Press Editor of Labor Economics Series, 1980–1984
25. *Journal of Econometrics*, Associate Editor, 1977–1983
26. National Science Foundation Evaluation Panel in Economics - Member, 1977–1979
27. London School of Economics, Visitor, Spring 1977, Center for Research on the Economics of Education
28. University of Wisconsin Institute for Research on Poverty, Visiting Professor, Fall 1977
29. *Annals of Economics*, Editor of special issue on the Social Measurement Analysis of Discrete Data, 1976
30. Social Science Council Research Committee on Research Methods for Longitudinal Data, 1976–1979, 1981–1982

Students (Chair or co-chair of committee)

University of Chicago unless otherwise noted.

1. John Abowd
2. Ricardo Avelino
3. Alessandro Barbarino
4. Ricardo Barros
5. Herbert Baum
6. Andrea Beller (Columbia)

7. Christine Bellido
8. George Borjas (Columbia)
9. Stephen Cameron
10. Thomas Coleman
11. Robert Cotterman
12. Flavio Cunha
13. Eric Gould
14. Carolyn Heinrich (Harris School, University of Chicago)
15. Bo Honoré
16. Martin Ljung
17. Lance Lochner
18. Thomas MaCurdy
19. Grecia Maruffo
20. Mauricio Mazocco
21. Salvador Navarro
22. Randall Olsen
23. Larry Olson
24. Brook Payner
25. Heleno Pioner
26. Richard Robb
27. Russell Roberts
28. Daniel Santos
29. Robert Schmitz
30. Sam Schulhofer-Wohl
31. Jeff Smith
32. Rachel Soloveichik
33. Jora Stixrud
34. Chris Taber
35. Andrea Tiseno
36. Petra Todd
37. Sergio Urzua
38. Edward Vytlačil
39. Jim Walker

Publications

Books

Longitudinal Analysis of Labor Market Data, Burton Singer (ed), Cambridge: Cambridge University Press, 1985.

Handbook of Econometrics, Vol 5 (with E. L. Leamer), New York: North-Holland, 2001.

Inequality in America: What Role for Human Capital Policy?, J. Heckman and A. Krueger, eds., Cambridge, MA: MIT Press, 2003.

Evaluating Human Capital Policies (Gorman Lectures), forthcoming Princeton University Press, 2004.

Law and Employment: Lessons From Latin America and the Caribbean (with C. Pages), University of Chicago Press, For NBER, 2004.

Handbook of Econometrics, Vol 6 (with E. L. Leamer), Under preparation. New York: North-Holland, forthcoming 2007.

The GED, Under preparation, Brookings, 2007.

Book Reviews and Op-Ed Pieces

1. “Review of *Problems and Issues in Current Econometric Practices*,” *Journal of Economic Literature*, (December, 1974).
2. “‘The Cracked Bell,’ Review of Herrnstein and Murray, *The Bell Curve*,” *Reason*, March, 1995.
3. “Catch ’em Young: Investing in Disadvantaged Young Children is Both Fair and Efficient,” *Wall Street Journal*, January 10, 2006, p. A14.

Journal Articles

1. “A Note on Second Best Conditions for Public Goods,” (with R. Nelson), *Public Finance*, 1, (1972).
2. “Empirical Evidence on the Functional Form of the Earnings-Schooling Relationship,” (with S. Polachek), *Journal of the American Statistical Association*, (June 1974), 69(346), 350-354. Also, NBER, mimeo (October 1972).
3. “The Estimation of Income and Substitution Effects in a Model of Family Labor Supply,” (with O. Ashenfelter), *Econometrica*, (January 1974), 42(1), 73-86. Presented at the Econometric Society Winter Meetings, (1971).
4. “Shadow Prices, Market Wages and Labor Supply,” *Econometrica*, (July 1974) 42(4): 679-94.

5. "The Effect of Day Care Programs on Women's Work Effort," *Journal of Political Economy*, (March/April 1974). Reprinted in T.W. Schultz (ed.), *Economics of the Family: Marriage, Children, and Human Capital*, (University of Chicago Press, 1974), 491-518.
6. "Life Cycle Consumption and Labor Supply: An Explanation of the Relationship Between Income and Consumption over the Life Cycle," *American Economic Review*, (March 1974).
7. "A Stochastic Model of Reproduction: An Econometric Approach," (with R. Willis), *Papers and Proceedings of the American Statistical Association*, Social Statistics Section, 1974.
8. "Estimating Labor Supply Functions," (with O. Ashenfelter), in G. Cain and H. Watts (eds.), *Labor Supply and Income Maintenance*, (Chicago: Markham Publishing Company, 1974).
9. "Measuring the Effect of an Antidiscrimination Program," (with O. Ashenfelter), July 1974 mimeo, in *Evaluating The Labor Market Effects of Social Programs*, (Princeton, N.J.: Princeton University Press, 1975). Presented at the American Economic Association Winter Meetings, 1972.
10. "Estimation of a Stochastic Model of Reproduction: An Econometric Approach," (with R. Willis), in N. Terleckyj (ed.), *Household Production and Consumption*, 40, 99-145, (New York: Columbia University Press, 1976). Presented at the Conference on Research in Income and Wealth, Washington, D.C., November 1973.
11. "Simultaneous Equation Models with both Continuous and Discrete Endogenous Variables With and Without Structural Shift in the Equations," in Goldfeld and Quandt (eds.), *Studies in Nonlinear Estimation*, Ballinger, (1976).
12. "A Life Cycle Model of Earnings, Learning and Consumption," *Journal of Political Economy*, (August 1976), 84(2), pt. 2, S11-S44.
13. "Does The Contract Compliance Program Work?: An Analysis of Chicago Data," (with K. Wolpin), *Industrial and Labor Relations Review*, (Summer 1976). Presented at a Symposium on the Effect of the Office of Federal Contract Compliance on Minority Status, Cornell University, May 1975.
14. "The Common Structure of Statistical Models of Truncation, Sample Selection and Limited Dependent Variables," *Annals of Economic and Social Measurement*, (December 1976).
15. "Introduction," *Annals of Economic and Social Measurement*, Special issue on Discrete, Qualitative and Limited Dependent Variables, (December, 1976).
16. "New Evidence on the Dynamics of Female Labor Supply," in E. Andrews and C. Lloyd (eds.), *Women in the Labor Market*. Columbia University Press, 1978. Presented at a Labor Department Conference, "Women in the Labor Market," Columbia University, September 1977.

17. "A Partial Survey of Recent Research on the Labor Supply of Women," *AEA Papers and Proceedings*, (May 1978). Invited paper, presented to the American Economic Association, New York, 1977.
18. "An Economic Analysis of the Contract Compliance Program," *Essay in Labor Market Analysis and Economic Demography in Memory of Peter Comay*, (Halstead, 1977).
19. "The Impact of the Government on the Labor Market Status of Black Americans: A Critical Review," (with R. Butler), in L. Hausman, (ed), *Equal Rights and Industrial Relations*, Madison, Wisconsin: Industrial Relations Research Association, Ch. 9.
20. "A Beta-Logistic Model For the Analysis of Sequential Labor Force Participation by Married Women," (with R. Willis), *Journal of Political Economy*, (February 1977), 85(1), 27-58, read at the Third World Econometric Society Meetings, Toronto, 1975.
21. "Comments on 'The Labor Supply Responses of Wage Earnings in the Rural Negative Income Experiment,'" in J. Palmer and J. Pechman (eds), *The Labor Supply Responses of Wage Earners in Welfare in Rural Areas: The North Carolina-Iowa Maintenance Experiment*, Brookings, 1977, Presented at the Brookings Conference on Evaluating the Results of the Rural Negative Income Tax Experiment, Washington, D.C., (January, 1977).
22. "Dummy Endogenous Variables in a Simultaneous Equation System," *Econometrica*, (July 1978). Original draft, April 1973. Final draft, April 1977, 46(4), 931-959.
23. "Labor Supply Estimates for Public Policy Evaluation," (with G. Borjas), *Proceedings of The Industrial and Labor Relations Research Association*, Chicago meetings, 1978.
24. "Simple Statistical Models for Discrete Panel Data Developed and Applied to Test the Hypothesis of True State Dependence Against The Hypothesis of Spurious State Dependence," *Annals de INSEE*, Paris, (1978), 227-269, (September, Special Issue).
25. "Sample Selection Bias as a Specification Error," *Econometrica*, (February 1979), 47(1), 153-161.
26. "Reply to Mincer and Ofek," (with R. Willis), *Journal of Political Economy*, (February 1979).
27. "Sample Selection Bias as a Specification Error with an Application to the Estimation of Labor Supply Functions," March, 1977 in J. Smith (ed.), *Female Labor Supply: Theory and Estimation*, (Princeton University Press, 1980).
28. "Addendum To Sample Selection Bias As A Specification Error," in E. Stromsdorfer and G. Farkas, *Evaluation Studies Review Annual*, Vol. 5, (Sage Publications, 1980), 69-74.
29. "Does Unemployment Cause Future Unemployment? Definitions, Questions and Answers from a Continuous Time Model of Heterogeneity and State Dependence," (with G. Borjas). Special Symposium issue on Unemployment, *Economica*, (May 1980).
30. "A Life Cycle Model of Female Labour Supply," (with T. MaCurdy), *Review of Economic Studies*, 1980, XLVII, 47-74.

31. "A Life Cycle Model of Family Labor Supply," in B. Weisbrod and H. Hughes (eds), *Human Resource, Employment and Development, Proceedings of Sixth World Congress*, (IEA, McMillan, 1983).
32. "Statistical Models for Discrete Panel Data," in C. Manski and D. McFadden (eds.), *Structural Analysis of Discrete Data With Econometric Applications*, (M.I.T. Press).
33. "The Incidental Parameters Problem and the Problem of Initial Conditions in Estimating a Discrete Time-Discrete Data Stochastic Process and Some Monte Carlo Evidence," read at the National Bureau of Economic Research Conference on Panel Data, Harvard University, (August 1978). In C. Manski and D. McFadden (eds.), *Structural Analysis of Discrete Data With Econometric Applications*, (M.I.T. Press), (originally scheduled for 1979; due to delays, published in 1981).
34. "Heterogeneity and State Dependence," in S. Rosen (ed.), *Studies in Labor Markets*, (University of Chicago Press, 1981), 91-139.
35. "Current Theoretical and Empirical Studies of Labor Supply: Second Generation Studies," (with T. MaCurdy), *Research in Labor Economics*, (JAI Press Inc., 1981).
36. "Recent Theoretical and Empirical Studies of Labor Supply: A Partial Survey," with M. Killingsworth and T. MaCurdy, presented at Oxford, 1979, in Z. Hornstein (ed), *Studies of The Labor Market*, HMS Treasury, (1981).
37. "The Impact of the Minimum Wage on the Employment and Earnings of Workers in South Carolina," (with Sedlacek), in Vol. 5, *Report of the Minimum Wage Study Commission*, U.S. Government Printing Office, 225-272, (June 1981).
38. "Models for the Analysis of Labor Force Dynamics," (with C. Flinn), *Advances in Econometrics*, 1, 35-95, (New York: JAI Press, 1982).
39. "The Identification Problem in Econometric Models for Duration Data," in W. Hildenbrand (ed), *Advances in Econometrics, Proceedings of Fourth World Congress of Econometric Society*, (Cambridge University Press, 1982).
40. "Earnings and The Distribution of Income," (with R. Michael), in *Part II, Behavioral and Social Science Research, A National Resource*, (National Academy of Science Press, 1982).
41. "New Methods For Analyzing Individual Event Histories," (with C. Flinn), *Sociological Methodology*, 99-140, (Josey-Bass, 1982).
42. "New Methods for Analyzing Structural Models of Labor Force Dynamics," (with C. Flinn), *Journal of Econometrics*, 18 (1982): 115-68.
43. "Are Unemployment and out of the Labor Force Behaviorally Distinct Labor Force States?," (with C. Flinn), *Journal of Labor Economics*, 28-42, (January, 1983).
44. "The Likelihood Function For The Multistate-Multiepisode Model in 'Models For The Analysis of Labor Force Dynamics'," (with C. Flinn), in R. Bassman and G. Rhodes, (eds), *Advances in Econometrics*, 2, 225-231, (1983).

45. "Natural Monopoly," (with D. Evans), in D. Evans (ed.), *Breaking Up Bell: Essays on Industrial Organization and Regulation*, 127-156, (North Holland, 1983).
46. "Multiproduct Cost Function Estimates and Natural Monopoly Tests for the Bell System," (with D. Evans), in D. Evans, (ed.), *Breaking Up Bell: Essays on Industrial Organization and Regulation*, Chapter 10, 253-282, (North Holland, 1983).
47. "A Method for Minimizing the Impact of Distributional Assumption in Econometric Models for Duration Data," (with B. Singer), *Econometrica*, (1984), 271-320.
48. "The Identifiability of the Proportional Hazard Model," (with B. Singer), *Review of Economic Studies*, 231-241, (April, 1984).
49. "Population Heterogeneity in Demographic Models," (with B. Singer), in A. Rodgers and K. Land (eds.), *Multidimensional Mathematical Demography*, (1984), 271-320.
50. "Comments on the Ashenfelter and Kydland Papers," *Carnegie Rochester Conference Series on Public Policy*, (1984), 209-224.
51. "Econometric Duration Analysis," (with B. Singer), *Journal of Econometrics*, (January, 1984), 63-132.
52. "The χ^2 Goodness of Fit Statistic For Models with Parameters Estimated From Microdata," *Econometrica*, (November, 1984), 52(6), 1543-1547.
53. "A Test for Subadditivity of the Cost Function With An Application to the U.S. Bell System," (with D. Evans), *American Economic Review*, (September, 1984), 615-623.
54. "Introduction," (with B. Singer), *Longitudinal Analysis of Labor Market Data*, (Cambridge: Cambridge University Press, 1985).
55. "Social Science Duration Analysis," (with B. Singer), *Longitudinal Analysis of Labor Market Data*, (University Press, 1985).
56. "A Simultaneous Equations Linear Probability Model," (with T. MaCurdy), *Canadian Journal of Economics*, (January, 1985), XVIII(1), 28-37.
57. "Alternative Methods for Estimating The Impact of Interventions," (with R. Robb), presented at Social Science Research Council Conference, Mt. Kisco, N.Y., October, 1978. In J. Heckman and B. Singer (eds.), *Longitudinal Analysis of Labor Market Data*, (Cambridge University Press, 1985).
58. "New Evidence on the Timing and Spacing of Births," (with J. Hotz and J. Walker), *American Economic Review*, (May, 1985), 179-184.
59. "Using Longitudinal Data to Estimate Age, Period and Cohort Effects in Earnings Equations," (with R. Robb), in William M. Mason and Stephen E. Fienberg, (ed), *Cohort Analysis in Social Research Beyond the Identification Problem*, (Springer-Verlag New York Inc., 1985).
60. "Heterogeneity, Aggregation and Market Wage Functions: An Empirical Model of Self-Selection in the Labor Market," (with G. Sedlacek), *Journal of Political Economy*, (December, 1985), 93(6), 1077-1125.

61. "The Influence of Early Fertility and Subsequent Births And The Importance of Controlling For Unobserved Heterogeneity," (with J. Hotz and Jim Walker), *Bulletin of The International Statistical Institute*, (1985), 51(2).
62. "A Dynamic Model of Aggregate Output Supply, Factor Demand and Entry and Exit For A Competitive Industry with Heterogeneous Plants," (with V. K. Chetty), *Journal of Econometrics*, (1986), 33, No.1/2, 237-262.
63. "Labor Econometrics," (with T. MaCurdy), in Z. Griliches and M.D. Intriligator (ed), *Handbook of Econometrics, Vol. 3*, Chapter 3, (Elsevier Science Publishers), (1986), 1918-1977.
64. "Econometric Analysis of Longitudinal Data," (with B. Singer), in Z. Griliches and M.D. Intriligator (ed), *Handbook of Econometrics, Vol. 3*, Chapter 29, (Elsevier Science Publishers), (1986), 1690-1763.
65. "Alternative Methods For Solving The Problem of Selection Bias in Evaluating The Impact of Treatments on Outcomes," (with R. Robb) in Howard Wainer, (ed), *Drawing Inference From Self Selected Samples*, (Springer-Verlag), (1986), 63-107.
66. "The Earnings of Panamanian Males," (with J. Hotz), *Journal of Human Resources*, September, 1986.
67. "Alternative Identifying Assumptions in Econometric Models of Selection Bias," (with R. Robb), in G. Rhodes, (ed), *Advances in Econometrics*, Vol. 5, 243-287, (JAI Press, 1986).
68. "The Importance of Bundling in a Gorman-Lancaster Model of Earnings," *Review of Economic Studies*, (1987) (with J. Scheinkman), LIV, 243-255.
69. "Female Labor Supply: A Survey," (with M. Killingsworth), Chapter 2, in O. Ashenfelter and R. Layard, *Handbook of Labor Economics*, (ed.), (North Holland, 1987).
70. "Using Goodness of Fit and Other Criteria to Choose Among Competing Duration Models: A Case Study of Hutterite Data," (with J. Walker), *Sociological Methodology*, (1987), Chapter 9, 248-307.
71. "Selection Bias and The Economics of Self Selection," *The New Palgrave: A Dictionary of Economics*, (MacMillan Press, Stockton, New York), 287-296.
72. "Do We Need Experimental Data To Evaluate The Impact of Training on Earnings," (with J. Hotz and M. Dabos), *Evaluation Review*, (August 1987), 28(4), 397-427.
73. "Are Classical Experiments Necessary For Evaluating The Impact of Manpower Training Programs?: A Critical Assessment," with (J. Hotz and M. Dabos), *Industrial Relations Research Association: Proceedings Of The Annual Meeting*, (1987), 40, 291-302.
74. "Empirical Tests of Labor Market Equilibrium: A Microeconomic Perspective," *Carnegie-Rochester Conference Series on Public Policy*, (with T. MaCurdy), 28, (Spring 1988), 231-258.

75. "Time Constraints and Household Demand Functions," in T. P. Schultz, (ed.), *Research in Population Economics*, (1988).
76. "Natural Monopoly and The Bell System: A Response to Charnes, Cooper and Sueyoshi," (with D. Evans), *Management Science*, (January, 1988), 27-38.
77. "The Value of Longitudinal Data For Evaluating The Impact of Treatments on Outcomes," (with R. Robb) in G. Duncan and G. Kalton, (eds.), *Panel Surveys*, (Wiley: New York, 1988), 512-538.
78. "The Impact of the Economy and the State on the Economic Status of Blacks: A Study of South Carolina," (with R. Butler and B. Payner) in D. Galenson, (ed.), *Markets and Institutions*, (Cambridge: Cambridge University Press, 1989), 321-343.
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