



James Joseph Heckman

Contact Department of Economics, University of Chicago
1126 East 59th Street, Chicago, Illinois 60637
773.702.0634 t 773.702.8490 f
jjh@uchicago.edu

Personal *Date of Birth:* April 19, 1944
Place of Birth: Chicago, Illinois

Education

Degrees 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
Honorary Professor, Harbin Institute of Technology, P. R. China, October, 2007.
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 of Science and Technology, Wuhan, China, 2001.
Honorary Member, Latin and Caribbean Economic Association, 1999.
Honorary Professor, University of Tucuman, October, 1998.



Post-Graduate Honors, *continued*

Awards

1. Bank of Sweden Prize in Economic Sciences in Honor of the Memory of Alfred Nobel, 2000.
2. Distinguished Contributions to Public Policy for Children Award, Society for Research in Child Development, 2009.
3. Gold Medal of the President of the Italian Republic, Awarded by the International Scientific Committee of the Pio Manzù Centre, 2008.
4. Sun Yefang Economic Science Award, 2007.
5. Dennis J. Aigner Award for Applied Econometrics, *Journal of Econometrics*, 2007.
6. Theodore W. Schultz Award, American Agricultural Economics Association Foundation, January 2007.
7. Ulysses Medal, University College Dublin, 2006.
8. Dennis J. Aigner Award for Applied Econometrics, *Journal of Econometrics*, 2005.
9. Jacob Mincer Award for Lifetime Achievement, Society of Labor Economics, 2005.
10. Medal of Excellence, Centres of Excellence for Children's Well-Being for "Exceptional Contributions to Childhood Development", May 2004.
11. Elevated to Distinguished Service Professorship, University of Chicago, 1995–.
12. A. Whitney Griswold Professor of Economics, Yale University, 1988–1990.
13. Henry Schultz Professor of Economics, University of Chicago, 1985–.
14. Statistician of the Year, Chicago Chapter of the American Statistical Association, 2002.
15. First Annual Louis T. Benezet Distinguished Alumnus Award, Colorado College, 1985.
16. Irving Fisher Professor, Yale University, Fall 1984.
17. John Bates Clark Medal (American Economics Association), 1983.

Fellowships

Fellow, Econometric Society, 1980–.

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

Senior Research Fellow, American Bar Foundation, 1991–.

Elected Member, National Academy of Sciences, 1992–.

Fellow, American Statistical Association, 2001–.

Fellow, *Journal of Econometrics*, 2005–.

Fellow, Society of Labor Economics, 2005–.

Resident Member, American Philosophical Society, 2008–.

Fellow, International Statistical Institute, 2008–.

Fellow, American Association for the Advancement of Science, 2009–.

Lifetime Member, Irish Economic Association, 2009–.

Post Graduate Support for Released Time

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. DEW/ESR Guest Lecture, “The Economics and Psychology of Personality.” Irish Economic Association 23rd Annual Conference, Blarney, County Cork, Ireland. April 26, 2009.
2. The Jacob Marschak Interdisciplinary Colloquium on Mathematics in the Behavior Sciences at UCLA. October 6, 2008.
3. “The Economics and Psychology of Inequality and Human Development,” Marshall Lecture, European Economics Association, Milan, Italy. August 29, 2008.
4. “How Viable is the Welfare State?” World Justice Forum, Vienna, Austria. July, 2008.
5. “The Option Value of Educational Choices and the Rate of Return to Educational Choices,” Cowles Foundation Structural Conference, Yale University. June 13, 2008.
6. Coping with the Accident of Birth: The Case for Early Childhood Interventions. “Skills, Schools and Synapses,” Den Haag, Netherlands. May 27, 2008.
7. Leibniz Network Conference, “Noncognitive Skills: Acquisition and Economic Consequences,” Mannheim, Germany. May 15, 2008.
8. Albert Rees Memorial Lecture, “Understanding the GED,” Society of Labor Economists Annual Meetings, May 9, 2008.
9. King Saud University Lecture “How Viable is the Welfare State?” and “The Technology of Skill Formation,” Riyadh, Saudi Arabia. March 8-10, 2008.
10. Congress on Early Childhood Education: “Early Childhood Education—Educational Investments with Better Effects”, “The Dynamism of Educational Investments in the Course of Life: Why Saving in Education is Expensive.” Leipzig, Germany. March, 2008.
11. George Seltzer Distinguished Memorial Lecture, Minneapolis, Minnesota, December 6, 2007.
12. Bertha C. and Roy E. Leigh Distinguished Lecture in Economics, Pullman, Washington, November 29, 2007.
13. “The Technology of Skill Formation,” Guinness Lecture, Coombe Women’s Hospital, Dublin, Ireland, November 2, 2007.
14. “The Technology of Building Human Capacities: Lessons for Public Policy,” Building Blocks Conference, Alberta, Canada, May 2007.
15. 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.
16. “The Economics, Technology and Neuroscience of Human Capability Formation,” Allostasis/Allostatic Load Conference, Princeton University, May 2007.
17. “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.
18. 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.



Major Invited Lectures, *continued*

19. Theodore W. Schultz Lecture, “The New Economics of Child Quality,” American Economic Association, January 2007.
20. Keynote Address, “What Lessons Should China Learn from European Welfare States?” WEAI Pacific Rim Conference, Beijing, China, January 2007.
21. Max Weber Lecture, “The Economics of Human Development,” European University, Florence, Italy, October 2006.
22. 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.
23. Marshall Lecture, Annual Meeting of the European Economic Association. August, 2006.
24. Michelson Memorial Lecture, “Skills, Schools and Synapses,” US Naval Academy, September 2006.
25. Conway Institute Lecture, “The Technology and Neuroscience of Skill Formation,” University College Dublin, June 2006.
26. Ulysses Medal Lecture, “The Economics of Child Development,” University College Dublin, June 2006.
27. 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.
28. Inaugural Lecture, “Credit Constraints, Family Constraints and Optimal Policies to Reduce Inequality and Promote Productivity,” Geary Institute, University College Dublin, April 2005.
29. 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.”
30. Hicks Lecture, Oxford University, April 2004.
31. 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).
32. Nobel Symposium Lecturer, St. Petersburg, Russia, June 2003.
33. Munich Economic Summit, Munich, May 2003.
34. European Society for Population Economics, 2003.
35. Keynote Lecture, Tinbergen Centenary, Rotterdam, April 2003.
36. W.P. Carey Lecture, Colorado College, February 2002.
37. Miguel Sidrauski Lecture, Latin American Econometric Society Meetings, Sao Paulo, 2002.



Major Invited Lectures, *continued*

38. Tinbergen Lecture, Royal Dutch Economics Association, October 2002.
39. Walras-Pareto Lectures, University of Lausanne, October 2002.
40. Gorman Lectures, University College, London, Fall 2001.
41. Klein Lecture, University of Pennsylvania, October 2001.
42. Review of Economics and Statistics Lecture, April 2001.
43. Economic Journal Lecture, Royal Economic Society, April 2001.
44. Jovanovich Lecture, Colorado College, February 2001.
45. Distinguished Lecture, Southern Economics Association, Washington, D.C., November 2000.
46. Fisher-Schultz Lecture, World Meeting of the Econometric Society, August 2000.
47. Yoram Ben Porath Memorial Lecture, Hebrew University, (First in series), June 2000.
48. Wildavsky Forum Lecture, University of California, Berkeley, April 1999.
49. Woytinsky Lecture, University of Michigan, October 1999.
50. Invited Lecture, Latin American Meetings of the Econometric Society, Cancun, Mexico, August 1999.
51. Invited Lecturer, Econometric Society Meetings, Lima, Peru, August 1998.
52. Distinguished Lecture, Institute for Survey Research, University of Michigan, January 1998.
53. McKinley Lecturer, University of Illinois, March 1998.
54. Fishelson Memorial Lecture, Tel Aviv University, December 1998.
55. Malim Harding Lecturer, University of Toronto, October 1997.
56. Jacob Marschak Lecturer, Far Eastern Econometric Society Meetings, Hong Kong, July 25, 1997.
57. Economics Study Group, Gronigen, Holland, June 1997.
58. Invited Lecture, Latin American Econometric Society Meetings, Santiago, Chile, August 1997.
59. *Journal of Applied Econometrics* Lectures (First Lecturer in a new series established by the *Journal of Applied Econometrics*, Yale University, April 17–18, 1997).
60. Keynote Lecture, Latin American Econometric Society, Santiago Chile, August 1997.
61. Keynote Lecture, Society For Economic Dynamics and Control, Mexico City, June 27, 1996.
62. Keynote Lecture, Latin American Econometric Society, Rio de Janeiro, August 1996.
63. Keynote Speaker, American Sociological Association Meetings, New York, August 16, 1996.
64. Gilbert Lecture, University of Rochester, April 1996.
65. Seymour Harris Lectures, Kennedy School of Government, 1995. (First lecturer in a newly endowed series) Lectures to be published by Harvard University Press.
66. Distinguished Quantitative Social Science Lecture, University of Indiana, April 1996.
67. Invited Lecture, Centenary of Ragnar Frisch, First Nobel Economist, Oslo, March 1995.
68. Invited Lecture, Public Policy School, SUNY Albany, October 1994.
69. Invited Lecture, Latin American Econometric Society, Caracas, August 1994.



Major Invited Lectures, *continued*

70. Aloysius Dunaway Memorial Lecture, Michigan State University, April 1993.
71. Carl Synder Memorial Lecture, University of California at Santa Barbara, Spring 1992.
72. H. Chase-Stone Lecture in Economics, Colorado College, 1992
(participant in three day symposium).
73. Martin Luther King Lecturer, University of Michigan, 1991.
74. Invited Lecture, Econometric Study Group, Royal Economic Society, Bristol, England, 1991.
75. Barcelona Lecture, Sixth World Econometric Society, 1990.
76. Erik Malmstens Distinguished Guest Professor of Economics, Gothenburg University, Gothenburg, Sweden, 1990.
77. Invited Major Lecture, University of Western Ontario, 1989.
78. Invited Major Guest Lecture, Joint Franco-Belgian Conference in Statistics, Toulouse, France, 1988.
79. Chung-Hua Distinguished Visitor and Academica Sinica Lectures, Taiwan, 1988.
80. Fish Lecture, Brigham Young University, 1987.
81. Harry Lyman Hooker Distinguished Visiting Professor, McMaster University, 1987.
82. Leif Johansen Lecture, University of Oslo, 1986.
83. Abbott Lecturer, Colorado College, 1985.
84. 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, 2004–2008

University College London

Distinguished Chair of Microeconometrics, 2004–2008

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, Affiliated Faculty 1990–

Director, Center for Social Program Evaluation, Harris School of Public Policy 1991–

Director, Economics Research Center



Professional Experience, *continued*

American Bar Foundation

Senior Fellow, 1991–

Yale University

A. Whitney Griswold Professor of Economics, 1988–1990

Professor of Statistics, 1990

Yale Law School Lecturer, 1989–1990

Alfred Cowles Distinguished Visiting Professor, Cowles Foundation, 2008–

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, Department of Economics, University of Chicago
2. Director, Center for Social Program Evaluation, Harris School of Public Policy, University of Chicago
3. Member, 1997 National Longitudinal Survey of Youth Advisory Panel, NORC, 2008–
4. Member, International Statistical Institute, 2007–
5. Editorial Board, *Journal of Applied Econometrics*, 2007–
6. President, Western Economics Association 2003 (Cycle: VP (2003–2004), President Elect (2004–2005), President (2005–2006))
7. Council, Econometric Society, 2000–2006
8. President, Midwest Economics Association, 1998.
9. *Econometrics Reviews*, Co-Editor; Associate Editor, 1987–
10. *Handbook of Econometrics* Vol. 5, Co-Editor with Ed Leamer
11. *Handbook of Econometrics* Vol. 6A, Co-Editor with Ed Leamer
12. *Handbook of Econometrics* Vol. 6B, Co-Editor with Ed Leamer
13. American Economics Association, Executive Committee Member, 2000–2003
14. Science, Technology and Economic Policy Board, National Research Council, Member 2000–
15. *Evaluation Review*, Associate Editor, 1991–1996
16. *Journal of Economic Perspectives*, Associate Editor, 1989–1996
17. *Review of Economics and Statistics*, Associate Editor, 1994–2002
18. Member, Advisory Board and Dean's Search Committee, School of Public Policy, University of Chicago, 1985–1988
19. Member, National Academy of Sciences Panel on the Status of Black Americans, 1985–1988
20. *Journal of Labor Economics*, Associate Editor, 1982–
21. Member, National Academy of Sciences Panel On Statistical Assessments as Evidence in the Courts, 1982–1985
22. *Review of Economic Studies*, Associate Editor, 1982–1985
23. *Journal of Political Economy*, Co-Editor, 1981–1987
24. Member, Board of Overseers, Michigan Panel Survey of Income Dynamics, 1981–1984
25. *Journal of Econometrics*, Editor of the Special Issue on Panel Data, 1981
26. Member, Advisory Board Chicago Urban League, 1980–1987
27. Academic Press Editor of Labor Economics Series, 1980–1984
28. *Journal of Econometrics*, Associate Editor, 1977–1983
29. National Science Foundation Evaluation Panel in Economics - Member, 1977–1979
30. London School of Economics, Visitor, Spring 1977, Center for Research on the Economics of Education
31. University of Wisconsin Institute for Research on Poverty, Visiting Professor, Fall 1977
32. *Annals of Economics*, Editor of special issue on the Social Measurement Analysis of Discrete Data, 1976
33. 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*

1. John Abowd
2. Ricardo Avelino
3. Alessandro Barbarino
4. Ricardo Barros
5. Herbert Baum
6. Andrea Beller (Columbia)
7. Christina Bellido
8. George Borjas (Columbia)
9. Stephen Cameron
10. Pedro Carneiro
11. Thomas Coleman
12. Robert Cotterman
13. Flavio Cunha
14. Marcello Dabos
15. Felipe Diniz
16. Christopher Flinn
17. Christina Gathmann
18. Eric Gould
19. Carolyn Heinrich (Harris School, University of Chicago)
20. Bo Honoré
21. Anjini Kochar
22. Siu Fai Leung
23. Martin Ljunge
24. Lance Lochner
25. Thomas MaCurdy
26. Grecia Maruffo
27. Mauricio Mazocco
28. Salvador Navarro
29. Randall Olsen
30. Larry Olson
31. Brook Payner
32. Carola Pessino
33. Heleno Pioner
34. Rebecca Roselius
35. Richard Robb
36. Russell Roberts
37. Anne Royalty
38. Daniel Santos
39. Robert Schmitz

*Unless Otherwise Noted



Students (Chair Or Co-Chair Of Committee), *continued*

University Of	40. Peter Schochet
Chicago*, <i>continued</i>	41. Sam Schulhofer-Wohl
	42. Jeff Smith
	43. Rachel Soloveichik
	44. Jora Stixrud
	45. Chris Taber
	46. Andrea Tiseno
	47. Justin Tobias
	48. Petra Todd
	49. Grace Tsiang
	50. Sergio Urzua
	51. J. H. Verkerke
	52. Edward Vytlačil
	53. Jim Walker

Publications

Books

1. *Longitudinal Analysis of Labor Market Data*, Burton Singer (ed), Cambridge: Cambridge University Press, 1985.
2. *Handbook of Econometrics*, Vol 5 (with E. L. Leamer), New York: North-Holland, 2001.
3. *Inequality in America: What Role for Human Capital Policy?*, J. Heckman and A. Krueger, eds., Cambridge, MA: MIT Press, 2003.
4. *Law and Employment: Lessons From Latin America and the Caribbean* (with C. Pages), University of Chicago Press, For NBER, 2004.
5. *Handbook of Econometrics*, Vol 6A (with E. L. Leamer). Amsterdam: North-Holland, 2007.
6. *Handbook of Econometrics*, Vol 6B (with E. L. Leamer). Amsterdam: North-Holland, 2007.
7. *Testing the Test: What the GED Reveals and Conceals*, (with P. LaFontaine) Under preparation, Chicago: University of Chicago Press, 2008.

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.
4. "Comments on *Are Protective Labor Market Institutions at the Root of Unemployment? A Critical Review of the Evidence* by David Howell, Dean Baker, Andrew Glyn and John Schmidt." *Capitalism and Society*, 2(1, Article 5, 2007).

*Unless Otherwise Noted



Publications, *continued*

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).



Publications, *continued*

Journal Articles, *continued*

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.



Publications, *continued*

Journal Articles, *continued*

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).



Publications, *continued*

Journal Articles, *continued*

44. "The Likelihood Function For The Multistate-Multiepisodic 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*, 52(2): 271-320 (1984).
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).
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