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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 Causa, Vienna University of Economics and Business, Vienna, Austria. January, 2017.

Doctor of Social Sciences Honoris Causa, Lignan University, Hong Kong, China. November, 2015.

Honorary Doctorate of Science (Economics), University College London. September, 2013.

Doctor Honoris Causis, Pontifical University, Santiago, Chile. August, 2009.

Doctor Honoris Causis, University of Montréal. May 2004.

Doctor Honoris Causis, Bard College, May 2004.  
Doctor Honoris Causis, UAEM, Mexico. January 2003.  
Doctor Honoris Causis, University of Chile, Fall 2002.  
Honorary Doctor of Laws, Colorado College, 2001.  
Honorary Professor, Jinan University, Guangzhou, China, June, 2014.  
Honorary Professor, Renmin University, P. R. China, June, 2010.  
Honorary Professor, Beijing Normal University, P. R. China, June, 2010.  
Honorary Professor, Harbin Institute of Technology, P. R. China, October, 2007.  
Honorary Professor, Wuhan University, Wuhan, China, 2003.  
Honorary Professor, Huazhong University of Science and Technology, Wuhan, China, 2001.  
Honorary Professor, University of Tucuman, October, 1998.  
Honorary Member, Latin and Caribbean Economic Association, 1999.

#### **Awards and Honors**

Bank of Sweden Prize in Economic Sciences in Honor of the Memory of Alfred Nobel, 2000.  
John Bates Clark Medal, American Economic Association, 1983.  
Distinguished Fellow of the American Economic Association. April, 2017  
Dan David Prize for Combating Poverty, Tel Aviv University. May, 2016.  
James Madison Medal for Distinguished Graduate Alumni, Princeton University. February, 2016.  
Frisch Medal, Econometric Society, 2014. Awarded every two years for an outstanding applied article (empirical or theoretical) published in *Econometrica* during the past five years.  
Spirit of Erikson Award, Erikson Institute, 2014. Awarded for significant contributions to the education and development of children.  
Distinguished Contributions to Public Policy for Children Award, Society for Research in Child Development, 2009.  
Gold Medal of the President of the Italian Republic, Awarded by the International Scientific Committee of the Pio Manzù Centre, 2008.  
Theodore W. Schultz Award, American Agricultural Economics Association, January 2007.  
Dennis J. Aigner Award for Applied Econometrics, *Journal of Econometrics*, 2007.  
Sun Yefang Economic Science Award, 2007.  
Ulysses Medal, University College Dublin, 2006.  
Jacob Mincer Award for Lifetime Achievement, Society of Labor Economics, 2005.  
Dennis J. Aigner Award for Applied Econometrics, *Journal of Econometrics*, 2005.

Medal of Excellence, Centres of Excellence for Children's Well-Being, Montreal University, "Exceptional Contributions to Childhood Development", May 2004.

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

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

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–.

Irving Fisher Professor, Yale University, Fall 1984.

### **Fellowships (Year Appointed)**

Fellow, Econometric Society, 1980

Fellow, American Academy of Arts and Sciences, 1985

Research Professor, American Bar Foundation, 1991

Member, National Academy of Sciences, 1992

Fellow, American Statistical Association, 2001

Fellow, *Journal of Econometrics*, 2005

Fellow, Society of Labor Economics, 2004

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

Member, National Academy of Education, 2010

Honorary Academician, Academia Sinica, Republic of China/Taiwan, July, 2010

Corresponding Member, Brazilian Academy of Sciences, 2011

Fellow, The Society for Economic Measurement, 2013

Kenneth Boulding Fellow, American Academy of Political and Social Science. May, 2016.

Charter Fellow, Institute for Nonlinear Dynamical Inference (INDI), Moscow. February, 2017.

## **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.

## **Professional Experience**

### **University of Chicago**

Henry Schultz Distinguished Service Professor, 1995–

Henry Schultz Professor, 1985–1995

Professor of Economics, 1977–

Associate Professor, 1973–1977 (tenured, 1974)

Professor, Irving B. Harris School of Public Policy, 2011–

Affiliated Faculty, Irving B. Harris School of Public Policy, 1990–2011

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

Director, Economics Research Center, University of Chicago, 1998–2006

Director, Center for the Study of Childhood Development, Harris School of Public Policy, University of Chicago, 2009–2014

Professor of Law, University of Chicago School of Law, 2011–

Director, Center for the Economics of Human Development, University of Chicago, 2014–

### **American Bar Foundation**

Research Fellow, 1991–

### **Institute for Fiscal Studies**

International Research Fellow, 2014–

### **University College Dublin**

Professor of Science and Society, 2005–2014

### **University College London**

Distinguished Chair of Microeconometrics, 2004–2008

### **University of Southern California**

USC Presidential Scholar-in-Residence, Leonard D. Schaeffer Center for Health Policy and Economics, 2015–

**Yale University**

Alfred Cowles Distinguished Visiting Professor, Cowles Foundation, 2008–2011

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

**Peking University**

Changjiang River Scholar Professor, 2004–2008

**National Opinion Research Center**

Research Associate, 1979

**RAND Corporation**

Consultant 1975–1976

**Columbia University**

Associate Professor 1973–1974

Assistant Professor, 1971–1973

Lecturer, 1970–1971

**New York University**

Adjunct Assistant Professor, 1972

**Council of Economic Advisors**

Junior Economic Advisor, 1967

**Previous Positions**

Martin-Marietta Aerospace Systems Engineer, 1965

### **Other Professional Activities**

1. President Elect, Society for Economic Measurement (2019-2021 term)
2. Director, Human Capital and Economic Opportunity Global Working Group, with Robert Dugger and Steven Durlauf (Sponsored by the Institute for New Economic Thinking), 2011–
3. Member, Research Council, Becker-Friedman Institute for Research in Economics, 2011–2017
4. Member, Faculty Steering Committee for the University of Chicago Beijing Center, 2013–2016
5. Member, Advisory Committee of the China Institute of Income Distribution Studies, Beijing Normal University, 2011–
6. Senior Advisor, China Development Research Foundation, October, 2012–
7. Past President, The Econometric Society, 2014 (Cycle: Second Vice-President, 2010-2011; First Vice-President, 2011-2012; President, 2013; Past President, 2014)
8. Member, Executive Committee, The Econometric Society, 2010–2014
9. Member, 1997 National Longitudinal Survey of Youth Advisory Panel, NORC, 2008–
10. *IZA Journal of Labor Economics*, Associate Editor, 2012–
11. *Journal of Political Economy*, Co-Editor, 2011–
12. *Annual Review in Economics*, Co-Editor, 2007–2011
13. Member, International Statistical Institute, 2007—
14. Advisory Board, *Journal of Applied Econometrics*, 2007–2013
15. President, Western Economics Association 2003 (Cycle: VP (2003–2004), President Elect (2004–2005), President (2005–2006))
16. Council, Econometric Society, 2000–2006
17. President, Midwest Economics Association, 1998.
18. *Econometrics Reviews*, Co-Editor; Associate Editor, 1987–
19. *Handbook of Econometrics* Vol. 5, Co-Editor with Ed Leamer
20. *Handbook of Econometrics* Vol. 6A, Co-Editor with Ed Leamer
21. *Handbook of Econometrics* Vol. 6B, Co-Editor with Ed Leamer
22. Vice President, American Economic Association, 2010

23. American Economics Association, Executive Committee Member, 2000–2003
24. Science, Technology and Economic Policy Board, National Research Council, Member 2000–
25. *Evaluation Review*, Associate Editor, 1991–1996
26. *Journal of Economic Perspectives*, Associate Editor, 1989–1996
27. *Review of Economics and Statistics*, Associate Editor, 1994–2002
28. Member, Advisory Board and Dean’s Search Committee, School of Public Policy, University of Chicago, 1985–1988
29. Member, National Academy of Sciences Panel on the Status of Black Americans, 1985–1988
30. *Journal of Labor Economics*, Editorial Board, 1983–2008
31. Member, National Academy of Sciences Panel On Statistical Assessments as Evidence in the Courts, 1982–1985
32. *Review of Economic Studies*, Associate Editor, 1982–1985
33. *Journal of Political Economy*, Co-Editor, 1981–1987
34. Member, Board of Overseers, Michigan Panel Survey of Income Dynamics, 1981–1984
35. *Journal of Econometrics*, Editor of the Special Issue on Panel Data, 1981
36. Member, Advisory Board Chicago Urban League, 1980–1987
37. Academic Press Editor of Labor Economics Series, 1980–1984
38. *Journal of Econometrics*, Associate Editor, 1977–1983
39. National Science Foundation Evaluation Panel in Economics - Member, 1977–1979
40. London School of Economics, Visitor, Spring 1977, Center for Research on the Economics of Education
41. University of Wisconsin Institute for Research on Poverty, Visiting Professor, Fall 1977
42. *Annals of Economic and Social Measurement*, Editor of Volume 5, number 4, special issue on Discrete, Qualitative and Limited Dependent Variables, 1976
43. Social Science Council Research Committee on Research Methods for Longitudinal Data, 1976–1979, 1981–1982

## Major Invited Lectures

1. “Child Development and Inequality,” Opening Ceremony, briq, Bonn, Germany. September 27, 2017.
2. “Creating the Skills of the Next Generation,” The Challenges of Early Childhood: Why Investing in Children from Zero to 6 Years Will Change Brazil. São Paulo, Brazil. September 25, 2017.
3. “Unordered Monotonicity,” 6th Lindau Meeting on Economic Sciences, Lindau, Germany. August 25th, 2017.
4. “The Benefits of Basic Research: Long-Term Evidence on Policies that Promote Families and Children,” Aspen Ideas Festival, Aspen, CO. June 22, 2017.
5. “The Developmental Origins of Health and Well-Being,” American Thoracic Society International Conference, Washington, DC. May 20, 2017.
6. “The Benefits of Basic Research: Long-Term Evidence on Policies that Promote Families and Children,” Aspen Forum on Children and Families, Washington, DC. January 25, 2017.
7. “Human Development is Economic Development,” World Economic Forum Annual Meeting, Davos, Switzerland. January 17, 2017.
8. “Publishing and Promotion in Economics: The Curse of the Top Five,” American Economic Association Meeting, Chicago, IL. January 6, 2017.
9. “Fiscal Policies for Human Development,” Interamerican Development Bank Workshop, Interamerican Development Bank, Washington, DC. November 20, 2016.
10. “Microdata for Denmark and USA looking at Education and Labor in a Nordic Welfare State,” Transatlantic Forum, Norwegian Ministry of Education and Research. Chicago, IL. October 25, 2016.
11. “The Life-Cycle Benefits of an Influential Early Childhood Program,” Jinan University. Guangzhou, China. October 9th, 2016.
12. “Early Childhood Education,” Boys and Girls Clubs’ Association, 80th Anniversary Scientific Symposium, The Chinese University of Hong Kong, October 7, 2016.
13. “Life-Relevant Skills,” The Chinese University of Hong Kong, October 6, 2016.
14. “Creating and Measuring Capabilities,” and “The Developmental Origins of Health: Cognition, Personality, and Education,” Chinese University Public Lecture, The Chinese University of Hong Kong. October 6, 2016.
15. “The Life Cycle Benefits of an Influential Early Childhood Intervention,” Russell Sage Foundation Seminar, New York City, NY. September 23, 2016.



16. "Promoting Skills to Address Inequality and Social Mobility," 71st Annual Meeting of the Midwestern Legislative Conference, Milwaukee, WI. July 19, 2016
17. "Intergenerational Mobility: Sources and Mechanisms A Comparison of the U.S. and Scandinavia," Ce2 Workshop & Warsaw International Economic Meeting, Warsaw, Poland, June 27, 2016.
18. "The Economics and Econometrics of Social Mobility and Human Development," CEMMAP Master Class, Centre for Microdata Methods and Practice, University College London. June 23-26, 2016.
19. "Creating and Measuring Capabilities," Dan David Prize Award Ceremony, Symposium on Combatting Poverty, Tel Aviv University, Tel Aviv, Israel. May 22, 2016.
20. "Creating and Measuring Capabilities," Guangzhou Public Lecture, Jinan University, Guangzhou, China. March 14, 2016.
21. "Creating and Measuring Capabilities," Nanqiang Award Public Lecture, Xiamen University, Xiamen, China. March 11, 2016.
22. "Innovation in the Early Years: Why Early Childhood Investments Make Sense," (with J.B. Pritzker), Silicon Valley Community Foundation Meeting, Rancho Santa Fe, CA. February 25, 2016.
23. "Inequality, Social Mobility, and Public Policy," James Madison Medalist Award Ceremony, Princeton University, Princeton, NJ. February 20, 2016.
24. "Microeconomics of Life Course Inequality: A Tale of Two Tails and the Middle Too," ASSA Continuing Education Program, AEA Annual Meeting. San Francisco, CA. January 5-7, 2016.
25. "Human Development is Economic Development," Dinner with Congressman Richard Hanna, Washington, DC. November 30, 2015.
26. "The Causal Effects of Education on Earnings and Health," Workshop on "Migration, Human Capital and Child/Youth Development," Institute for Advanced Research, Shanghai University of Finance and Economics. November 19, 2015.
27. "Creating Capabilities," Hong Kong University of Science and Technology, Hong Kong, November 17, 2015.
28. "Social Mobility and Inequality," Henry George Lecture, St. John's University, Peter J. Tobin College of Business. November 9, 2015.
29. "The Non-Market Benefits of Abilities and Education," The Life and Work of Gary Becker: A Conference Dedicated to His Research on Human Capital, Becker Friedman Institute, Chicago, IL. October 16, 2015.
30. "Using Behavior to Infer Skills," Conference on Measuring and Assessing Skills, Session II: Measuring Skills from Real World Behavior. Chicago, IL. October 1, 2015.

31. "Creating Flourishing Lives: The Dynamics of Capability Formation," Amartya Sen Lecture, Human Development and Capability Association Annual Conference, Washington, DC, September 11, 2015.
32. "How Economics Guides the Interpretation of Data," 11th World Congress of the Econometric Society, Montreal, August 18, 2015.
33. "The Rate of Return to the Carolina Abecedarian Program and A New Cost-Benefit and Rate of Return Analysis for the Perry Preschool Program," International Congress: Invest Early: Contributions to the Zero-Based Budget, Mexico City, July 13, 2015.
34. Panelist, "Setting the Stage," World Education Forum 2015, Incheon, Republic of Korea, May 19, 2015.
35. "Fostering and Measuring Skills: Interventions that Improve Character and Cognition," Spencer Foundation and OECD Foundations Forum on Social and Emotional Skills. Chicago, IL, May 12, 2015.
36. "Going Forward Wisely," Education Writers Association National Seminar, Chicago, IL, April 21, 2015.
37. "Creating Capabilities," Growing Up Happy and Healthy: Scientific Findings: A Symposium, Hong Kong Early Childhood Research Foundation, Hong Kong, Peoples Republic of China, March 30, 2015.
38. "The Market and Nonmarket Returns to Education," Sandmo Lecture on Public Policy, Bergen, Norway. January 13, 2015.
39. "Going Forward Wisely," White House Summit on Early Childhood Education, The White House, Washington, DC. December 10, 2014.
40. "Early Education Programs in the US: Background and Evaluations," Means-Tested Transfer Programs, NBER, Cambridge, MA. December 6, 2014.
41. "Identifying and Estimating the Causal Effects of Education: A Synthesis of Structural and Treatment Effect Approaches," Econometrics Conference in Honor of Dr. Maasoumi, Emory University, Atlanta, VA. November 15, 2014.
42. "Keynote: The Impact of Gary Becker's Work," A Celebration of the Life and Work of Gary S. Becker, University of Chicago, Chicago, IL. October 31, 2014.
43. "Predistribution: A Strategy for Promoting Flourishing Lives," Your Light Will Rise in the Darkness: Responding to the Cry of the Poor, Notre Dame, IN. October 30, 2014.
44. "Creating Capabilities," Research Institute of Economy, Trade & Industry (RIETI), Tokyo, Japan. October 8, 2014.
45. "The Market and Nonmarket Returns to Schooling," Conference on Evidence on Schooling and Wellbeing, Aarhus University, Aarhus, Denmark. August 29, 2014

46. "The Market and Nonmarket Effects of Schooling," China Meeting of Econometric Society, Xiamen University, China. June 25, 2014.
47. "Causal Models, Structural Equations, and Identification: Stratification and Instrumental Variables," Asia Meeting of the Econometric Society, Fuzukawa Lecture, Taipei, Taiwan. June 22, 2014.
48. "Creating Flourishing Lives," University of Chicago New Delhi Center Opening, New Delhi, India. March 29, 2014.
49. "Fostering and Measuring Skills: Interventions that Improve Character and Cognition," Organisation of Economic Co-operation and Development, Meeting of OECD Education Ministers, São Paulo, Brazil. March 24, 2014.
50. "Investing in Education: A Conversation with an Economist and an Educator," First meeting of the Scientific Committee of the Reggio Emilia Foundation, Reggio Emilia, Italy. February 21, 2014.
51. "The Economics and the Econometrics of Human Development," Econometric Society Presidential Address, Allied Social Sciences Association Meetings, Philadelphia, PA. January 2, 2014.
52. "The Economics and Econometrics of Human Development," Latin American and Caribbean Economic Association Meeting and Latin American Meeting of the Econometric Society, El Colegio de México, Mexico City. November 1, 2013.
53. "The Economic Case for Investing in Young Children," National Business Leader Summit on Early Childhood Investment, Atlanta, GA. September 22, 2013
54. "The Economics and Econometrics of Human Development," Presidential Address, European Meeting of the Econometric Society, Gothenburg, Sweden. August 27, 2013
55. "A Life Cycle Strategy for Promoting Capabilities," Henderson County Community Early Childhood Investment Luncheon, Henderson, KY. July 23, 2013.
56. "The Economics and Econometrics of Human Development," Presidential Lecture, Econometric Society, Beijing, China. June 14, 2013.
57. "Causal Analysis After Haavelmo," Session: History of Econometrics and the Econometric Society, European Meeting of the Econometric Society, Gothenburg, Sweden. August 28, 2013.
58. "Investing in Early Childhood: Developing Skills for a Better Future," Deans International Council, "Public Policy in Context: Domestic and Global," Gleacher Center. May 9, 2013
59. "Investing in Early Childhood: Developing Skills for a Better Future," Education Writers of America National Seminar. "Creativity Counts: Innovation in Education and the Media," Palo Alto, CA. May 3, 2013

60. "The Economics of Inequality and Human Development," ABF Research Seminar, Chicago IL. May 1, 2013
61. Video Presentation prepared for the Conference of Legislators for Hemispheric Latin America, Brasilia, Brazil. April 18, 2013
62. i3 Webinar with Secretaries Duncan and Sebelius on Early Learning. April 16, 2013
63. "Economic Growth and Inequality in China," INET Annual Conference, Hong Kong. April 6, 2013
64. "A Framework for Analyzing Human Development Over The Life Cycle," Workshop on Early Childhood Development, University of Zurich, March 22, 2013
65. "The Skills Problem," Nebraska Chamber of Commerce and Industry 2013 Legislative Caucus and Annual Meeting, Lincoln, NE. February 7, 2013
66. "Creating and Measuring Capabilities," U.S. Government Action Plan on Children in Adversity, The White House, December 19, 2012.
67. "Noncognitive Skills and Socioemotional Learning," Research Symposium on Learning, Brookings Institution Center for Universal Education, Washington DC. December 6, 2012
68. Eunice Kennedy Shriver National Institute of Child Health and Human Development, "A Scientific Colloquium in Celebration of the Institutes 50th Anniversary 1962-2012: Research For A Lifetime," Masur Auditorium, NIH Bethesda Campus, Bethesda, MD. December 5, 2012
69. "Causal Analysis After Haavelmo: Definitions and a Unified Analysis of Identification of Causal Models," Keynote Address, European Seminar on Bayesian Econometrics, Vienna University of Economics and Business, Vienna, Austria. November 1-2, 2012
70. "The Skills Problem," Keynote Address, 2012 Kentucky Economic Association, Georgetown College, Georgetown KY. October 26, 2012
71. "The Skills Problem," Convocation, Berea College, Berea, KY. October 25, 2012
72. "The Skills Problem," Keynote Address, The Governors Office of Early Childhood Kentucky Chamber of Commerce and Prichard Committees Business Leaders for a Strong Start, Louisville, KY. October 24, 2012
73. "Creating and Measuring Capabilities," Keynote Lecture, The Third International Conference on Poverty Alleviation and Child Development Child Development and Research Forum, Beijing, China, October 18, 2012
74. "Structural Estimation of Behavioral Models: A Conference in Honor of Kenneth I. Wolpin," University of Pennsylvania, University Park, PA. September 21-22, 2012
75. "Hard Evidence on Soft Skills," Keynote Address, 2012 Chinese Economists Society Annual Conference, Henan University, Kaifeng, China. June 24, 2012

76. "The Skills Problem," Lumen Christi Institutes Fourth Annual Conference on Economics and Catholic Social Thought, "Toward a Moral Economy", Chicago, IL. June 1, 2012
77. "Hard Evidence on Soft Skills," Robert (Bob) J. Lampman Memorial Lecture, Institute for Research on Poverty (IRP) at the University of Wisconsin-Madison, Madison, WI. May 16, 2012.
78. "Hard Evidence on Soft Skills," Frank Knight Lecture, Cornell University, Ithaca, NY. April 26, 2012.
79. "A Framework for Analyzing Human Development over the Life Cycle and across Generations," Presented at the TrygFonden symposium "Improving the Well-Being of Children and Youth," The Carlsberg Academy, Copenhagen. January 29th, 2012.
80. "The Case for Investing in Disadvantaged Young Children," Remarks at the White House Conference on "Race to the Top - Early Learning Challenge Awards Announcement," Washington DC. December 16th, 2011.
81. "Hard Evidence on Soft Skills," The Development Economics Vice Presidency (DEC) Lecture, World Bank, Washington DC. December 15, 2011.
82. "The Developmental Origins of Health: Models and Evidence," Stephen Frankel Lecture, University of Bristol, November 16, 2011.
83. "Hard Evidence on Soft Skills," Adam Smith Lecture, 23rd Annual Conference, European Association of Labour Economists, Paphos, Cyprus, September 24, 2011.
84. "Understanding the Mechanisms Through Which an Influential Early Childhood Program Boosted Adult Outcomes," Asian Meeting of the Econometric Society, Seoul, Korea, August 12, 2011.
85. "Marschak's Maxim," Marschak Memorial Lecture, UCLA Anderson School of Management, June 3, 2011.
86. "The Economics and Psychology of Human Development and Inequality," and "The Economics and Psychology of Human Development and Inequality Lecture II: Understanding the Origins of Inequality and Understanding Effective Interventions and the Channels Through Which They Work," Marshall Lectures, University of Cambridge, Cambridge, UK. May 17-18, 2011.
87. "The Developmental Origins of Inequality: Implications for Social Policy," Manchot Lecture, University of Bonn, Bonn, Germany. January 28, 2011.
88. "Understanding the Origins of Inequality," Invited Keynote speaker, First Annual MOVE Distinguished Visitor's Lecture, December 21, 2010, Barcelona, Spain.
89. "Building Bridges Between Structural and Program Evaluation Approaches to Evaluating Policy," Keynote Lecture, Italian Statistical Society Scientific Meeting, Padua, Italy, June 16, 2010

90. “Estimating the Technology of Cognitive and Noncognitive Skill Formation,” Keynote Lecture, Understanding Ageing: Health, Wealth, and Wellbeing to Age Fifty and Beyond, St. Catherine’s College Oxford, UK. April 14-16, 2010.
91. “Understanding the Sources of and Solutions to Human Inequality,” Keynote Lecture, Meeting on Early Childhood Education, Rio de Janeiro, Brazil. December 17, 2009.
92. “The Developmental Origins of Adult Health: Cognition, Personality, and Education,” 6th Annual Nestlé International Nutrition Symposium, Lausanne, Switzerland. October 22, 2009.
93. “Policies to Promote Growth in Mexico,” Bank of Mexico. October 19, 2009.
94. “Policies to Foster Human Development,” Developing Africa: an Opportunity for Europe, Italy and Sicily; Taormina, Italy. October 1, 2009.
95. “Investing in our Young People: Lessons from Economics and Psychology,” Lectio Magistralis, Catholic University Milan. September 28, 2009.
96. “Estimating the Technology of Cognitive and Noncognitive Skill Formation,” Plenary Lecture, Econometric Society. June 6, 2009.
97. “Estimating the Technology of Cognitive and Noncognitive Skill Formation,” Vilfredo Pareto Lectures in Economics and Social Sciences, Collegio Carlo Alberto. June 9, 2009.
98. “The Economics and Psychology of Personality,” Identity and the Global Crisis: Festival of the Economy, Trento, Italy. May 29, 2009.
99. DEW/ESR Guest Lecture, “The Economics and Psychology of Personality.” Irish Economic Association 23rd Annual Conference, Blarney, County Cork, Ireland. April 26, 2009.
100. “The Economics and Psychology of Inequality and Human Development,” The Jacob Marschak Interdisciplinary Colloquium on Mathematics in the Behavior Sciences at UCLA. October 6, 2008.
101. “The Economics and Psychology of Inequality and Human Development,” Marshall Lecture, European Economics Association, Milan, Italy. August 29, 2008.
102. “How Viable is the Welfare State?” World Justice Forum, Vienna, Austria. July, 2008.
103. “The Option Value of Educational Choices and the Rate of Return to Educational Choices,” Cowles Foundation Structural Conference, Yale University. June 13, 2008.
104. “Skills, Schools and Synapses,” Coping with the Accident of Birth: The Case for Early Childhood Interventions. Den Haag, Netherlands. May 27, 2008.
105. “Noncognitive Skills: Acquisition and Economic Consequences,” Plenary Lecture, Leibniz Network Conference, Mannheim, Germany. May 15, 2008.

106. "Understanding the GED," Albert Rees Memorial Lecture, Society of Labor Economists Annual Meetings, May 9, 2008.
107. "How Viable is the Welfare State?" and "The Technology of Skill Formation," King Saud University Lecture, Riyadh, Saudi Arabia. March 8-10, 2008.
108. 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.
109. "The Economics of Investing in Children: The Role of Cognitive and Non-Cognitive Skills," George Seltzer Distinguished Memorial Lecture, Minneapolis, Minnesota, December 6, 2007.
110. "The Economics of Investing in Children: The Role of Cognitive and Non-Cognitive Skills," Bertha C. and Roy E. Leigh Distinguished Lecture in Economics, Pullman, Washington, November 29, 2007.
111. "The Technology of Skill Formation," Guinness Lecture, Coombe Women's Hospital, Dublin, Ireland, November 2, 2007.
112. "The Technology of Building Human Capacities: Lessons for Public Policy," Building Blocks Conference, Alberta, Canada, May 2007.
113. Keynote Address, "Investing in Disadvantaged Young Children Is Good Economics and Good Public Policy," National Summit on America's Children, Congressional Caucus, Washington D.C., May 2007.
114. "The Economics, Technology and Neuroscience of Human Capability Formation," Allostatic/Allostatic Load Conference, Princeton University, May 2007.
115. "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.
116. Plenary Address, "The Evolution of Labor Earnings Risk in the U.S. Economy," 4<sup>th</sup> International Finance Conference in Collaboration with Université Cergy-Pontoise, REMEREG and ISC Paris, Diar el Medina, Tunisia, March 2007.
117. Theodore W. Schultz Lecture, "The New Economics of Child Quality," American Economic Association, January 2007.
118. Keynote Address, "What Lessons Should China Learn from European Welfare States?" WEAI Pacific Rim Conference, Beijing, China, January 2007.
119. Max Weber Lecture, "The Economics of Human Development," European University, Florence, Italy, October 2006.

120. 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.
121. Marshall Lecture, Annual Meeting of the European Economic Association. August, 2006.
122. Michelson Memorial Lecture, “Skills, Schools and Synapses,” US Naval Academy, September 2006.
123. Conway Institute Lecture, “The Technology and Neuroscience of Skill Formation,” University College Dublin, June 2006.
124. Ulysses Medal Lecture, “The Economics of Child Development,” University College Dublin, June 2006.
125. 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.
126. Inaugural Lecture, “Credit Constraints, Family Constraints and Optimal Policies to Reduce Inequality and Promote Productivity,” Geary Institute, University College Dublin, April 2005.
127. 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”
128. Hicks Lecture, Oxford University, April 2004.
129. 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).
130. Nobel Symposium Lecturer, St. Petersburg, Russia, June 2003.
131. Munich Economic Summit, Munich, May 2003.
132. European Society for Population Economics, 2003.
133. Keynote Lecture, Tinbergen Centenary, Rotterdam, April 2003.
134. W.P. Carey Lecture, Colorado College, February 2002.
135. Miguel Sidrauski Lecture, Latin American Econometric Society Meetings, Sao Paulo, 2002.
136. Tinbergen Lecture, Royal Dutch Economics Association, October 2002.
137. Walras-Pareto Lectures, University of Lausanne, October 2002.
138. Gorman Lectures, University College, London, Fall 2001.
139. Klein Lecture, University of Pennsylvania, October 2001.
140. Review of Economics and Statistics Lecture, April 2001.



141. Economic Journal Lecture, Royal Economic Society, April 2001.
142. Jovanovich Lecture, Colorado College, February 2001.
143. Distinguished Lecture, Southern Economics Association, Washington, D.C., November 2000.
144. Fisher-Schultz Lecture, World Meeting of the Econometric Society, August 2000.
145. Yoram Ben Porath Memorial Lecture, Hebrew University, (First in series), June 2000.
146. Wildavsky Forum Lecture, University of California, Berkeley, April 1999.
147. Woytinsky Lecture, University of Michigan, October 1999.
148. Invited Lecture, Latin American Meetings of the Econometric Society, Cancun, Mexico, August 1999.
149. Invited lecturer, Econometric Society Meetings, Lima, Peru, August 1998.
150. Distinguished Lecture, Institute for Survey Research, University of Michigan, January 1998.
151. McKinley Lecturer, University of Illinois, March 1998.
152. Fishelson Memorial Lecture, Tel Aviv University, December 1998.
153. Malim Harding Lecturer, University of Toronto, October 1997.
154. Jacob Marschak Lecturer, Far Eastern Econometric Society Meetings, Hong Kong, July 25, 1997.
155. Economics Study Group, Gronigen, Holland, June 1997.
156. Invited Lecture, Latin American Econometric Society Meetings, Santiago, Chile, August 1997.
157. *Journal of Applied Econometrics* Lectures (First Lecturer in a new series established by the *Journal of Applied Econometrics*, Yale University, April 17–18, 1997).
158. Keynote Lecture, Latin American Econometric Society, Santiago Chile, August 1997.
159. Keynote Lecture, Society For Economic Dynamics and Control, Mexico City, June 27, 1996.
160. Keynote Lecture, Latin American Econometric Society, Rio de Janeiro, August 1996.
161. Keynote Speaker, American Sociological Association Meetings, New York, August 16, 1996.
162. Gilbert Lecture, University of Rochester, April 1996.
163. Seymour Harris Lectures, Kennedy School of Government, 1995. (First lecturer in a newly endowed series) Lectures to be published by Harvard University Press.
164. Distinguished Quantitative Social Science Lecture, University of Indiana, April 1996.
165. Invited Lecture, Centenary of Ragnar Frisch, First Nobel Economist, Oslo, March 1995.
166. Invited Lecture, Public Policy School, SUNY Albany, October 1994.
167. Invited Lecture, Latin American Econometric Society, Caracas, August 1994.
168. Aloysius Dunaway Memorial Lecture, Michigan State University, April 1993.

169. Carl Synder Memorial Lecture, University of California at Santa Barbara, Spring 1992.
170. H. Chase-Stone Lecture in Economics, Colorado College, 1992 (participant in three day symposium).
171. Martin Luther King Lecturer, University of Michigan, 1991.
172. Invited Lecture, Econometric Study Group, Royal Economic Society, Bristol, England, 1991.
173. Barcelona Lecture, Sixth World Econometric Society, 1990.
174. Erik Malmstens Distinguished Guest Professor of Economics, Gothenburg University, Gothenburg, Sweden, 1990.
175. Invited Major Lecture, University of Western Ontario, 1989.
176. Invited Major Guest Lecture, Joint Franco-Belgian Conference in Statistics, Toulouse, France, 1988.
177. Chung-Hua Distinguished Visitor and Academia Sinica Lectures, Taiwan, 1988.
178. Fish Lecture, Brigham Young University, 1987.
179. Harry Lyman Hooker Distinguished Visiting Professor, McMaster University, 1987.
180. Leif Johansen Lecture, University of Oslo, 1986.
181. Abbott Lecturer, Colorado College, 1985.
182. Major Lecture, Australasian Econometric Society, Sydney, Australia, 1984.

### **Students (Chair or co-chair of committee)**

There are numerous other dissertations where I have served as a second reader, but not as chair or co-chair.

University of Chicago unless otherwise noted.

1. John Abowd
2. Amanda Agan
3. Ricardo Avelino
4. Alessandro Barbarino
5. Ricardo Barros
6. Herbert Baum
7. Andrea Beller (Columbia)
8. Christina Bellido
9. George Borjas (Columbia)
10. Stephen Cameron
11. Pedro Carneiro

12. Thomas Coleman
13. Robert Cotterman
14. Flavio Cunha
15. Marcello Dabos
16. Felipe Diniz
17. Christopher Flinn
18. Christina Gathmann
19. Miriam Gensowski
20. Eric Gould
21. Carolyn Heinrich (Harris School, University of Chicago)
22. Bo Honoré
23. Anjini Kochar
24. Tom Lam
25. Siu Fei Leung
26. Martin Ljunge
27. Lance Lochner
28. Thomas MaCurdy
29. Grecia Maruffo
30. Mauricio Mazocco
31. Robert Miller
32. Seong Hyeok Moon
33. Stefano Mosso
34. Salvador Navarro
35. Randall Olsen
36. Larry Olson
37. Brook Payner
38. Carola Pessino
39. Heleno Pioner
40. Richard Robb
41. Russell Roberts
42. Maria Rosales (Harris)
43. Rebecca Roselius

44. Mark Rosenzweig (Columbia)
45. Anne Royalty (Yale)
46. Daniel Santos
47. Peter Savelyev
48. Robert Schmitz
49. Peter Schochet (Yale)
50. Sam Schulhofer-Wohl
51. Jeff Smith
52. Rachel Soloveichik
53. Jora Stixrud
54. Suchanan Tambunlertchai
55. Chris Taber
56. Andrea Tiseno
57. Justin Tobias
58. Petra Todd
59. Grace Tsiang
60. Gabriel Ulyssea
61. J. H. Verkerke (Yale)
62. Edward Vytlačil
63. Jim Walker
64. Benjamin Williams

## **Publications**

### **Books**

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

*Handbook of Econometrics*, Vol 5 (edited 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.

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

*Handbook of Econometrics*, Vol 6A (edited with E. L. Leamer). Amsterdam: North-Holland, 2007.

*Handbook of Econometrics*, Vol 6B (edited with E. L. Leamer). Amsterdam: North-Holland, 2007.

*Global Perspectives on the Rule of Law*, (edited with R. Nelson and L. Cabatingan). New York: Routledge, 2010.

*Giving Kids a Fair Chance*. Cambridge, MA: MIT Press, 2012.

*The Myth of Achievement Tests: The GED and the Role of Character in American Life*, (edited with J.E. Humphries and T. Kautz). Chicago: University of Chicago Press, 2014.

### **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).
5. “Educated in America: College graduates and high school dropouts: The declining American high school graduation rate: Evidence, sources, and consequences,” (with P. A. LaFontaine), CEPR Policy Research VOX Report, February 13, 2008.
6. “The Case for Investing in Disadvantaged Young Children,” CESifo DICE Report, February 2008.
7. “The growing polarisation of American society and its implications for productivity: Schools, Skills and Synapses,” CEPR Policy Research VOX Report, August 25, 2008.
8. “Lasting Economic and Social Benefits,” *New York Times*, Room for Debate. February 25, 2013.
9. “Lifelines for Poor Children,” *New York Times*, Opinionator, p. SR5. September 14, 2013.
10. “The Elementary and Secondary Education Act: Reauthorize an Early Start and a Great Finish.” Roll Call. February 6, 2015.
11. “Early Childhood Education and Social Mobility,” (with S. Elango, J-L. García, and A. Hojman). VoxEU, January 12, 2016.

### **Journal Articles**

1. “A Note on Second Best Conditions for Public Goods,” (with R. Nelson), *Public Finance*, 27(1):73-74 (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*, **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  $\chi^2$  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. "Alternative Methods for Evaluating the Impact of Interventions: An Overview," (with R. Robb), *Journal of Econometrics*, **30**(1-2): 239-267. (1985).
59. "New Evidence on the Timing and Spacing of Births," (with J. Hotz and J. Walker), *American Economic Review*, (May, 1985), 179-184.
60. "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).

61. "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.
62. "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).
63. "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.
64. "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.
65. "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.
66. "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.
67. "The Earnings of Panamanian Males," (with J. Hotz), *Journal of Human Resources*, September, 1986.
68. "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).
69. "The Importance of Bundling in a Gorman-Lancaster Model of Earnings," *Review of Economic Studies*, (1987) (with J. Scheinkman), LIV, 243-255.
70. "Female Labor Supply: A Survey," (with M. Killingsworth), Chapter 2, in O. Ashenfelter and R. Layard, *Handbook of Labor Economics*, (ed.), (North Holland, 1986).
71. "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.
72. "Selection Bias and The Economics of Self Selection," *The New Palgrave: A Dictionary of Economics*, (MacMillan Press, Stockton, New York), 287-296. (1987).
73. "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.
74. "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.
75. "Empirical Tests of Labor Market Equilibrium: A Microeconomic Perspective," *Carnegie-Rochester Conference Series on Public Policy*, (with T. MaCurdy), 28, (Spring 1988), 231-258.

76. "Time Constraints and Household Demand Functions," in T. P. Schultz, (ed.), *Research in Population Economics*, (1988).
77. "Natural Monopoly and The Bell System: A Response to Charnes, Cooper and Sueyoshi," (with D. Evans), *Management Science*, (January, 1988), 27-38.
78. "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.
79. "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.
80. "How Voluntary is Black Unemployment and Black Labor Force Withdrawal?" in W. Darity and S. Schulman, (eds), *The Question of Discrimination: Racial Inequality in the U.S. Labor Market*, (Connecticut: Wesleyan University Press, 1989), 50-80.
81. "Determining The Impact of Federal Anti-discrimination Policy on The Economic Status of Blacks: A Study of South Carolina," (with B. Payner), *American Economic Review*, (March 1989), 79(1), 138-177.
82. "Affirmative Action and Black Employment," *Proceedings Of The Industrial Relations Research Association*, (1989), 41, 320-329.
83. "The Identifiability Of The Competing Risks Model," (with Bo Honoré), *Biometrika*, (June 1989), 76(2), 325-30.
84. "Choosing Among Alternative Non-experimental Methods For Estimating The Impact of Social Programs: The Case of Manpower Training," (with V. J. Hotz). Symposium paper with invited discussion, featured invited paper, American Statistical Association meeting, *Journal of the American Statistical Association*, (December 1989), 84(408), 862-874.
85. "Forecasting Aggregate Period Specific Birth Rates: Time Series Properties of a Microdynamic Neoclassical Model of Fertility," (with J. Walker), *Journal of The American Statistical Association*, (December, 1989), 84(408), 958-965.
86. "The Empirical Content of the Roy Model," with Bo Honore, *Econometrica*, (September, 1990), 58(5), 1121-1149.
87. "Self Selection and The Distribution of Hourly Wage Rates," with (G. Sedlacek), *Journal of Labor Economics*, (January 1990), 8(1), Part 2, S329-S363.
88. "Causal Inference and Nonrandom Samples," *Symposium on Selection Bias Models, Journal of Educational Statistics*, 14(2), (Summer 1989), 159-168, reprinted in J. Schaeffer, (ed.), *The Role of Models in Non-experimental Social Science: Two Debates*, 1991.
89. "The Third Birth in Sweden," (with J. Walker), *Journal of Population Economics*, (1990), 3(4), 235-275.
90. "A Method of Moments Estimator for The Mixing Distribution of a Mixture of Exponentials Model and A Mixture of Geometrics Model," presented at IC2 Conference, Durham, N.C.,

- (May 1988), in W. Barnett, J. Powell and G. Tauchen, (eds.), *Nonparametric Estimation of Econometric Models*, (Cambridge: Cambridge University, 1990).
91. "Estimating Fecundability from Data on Waiting Times to First Conceptions," (with J. Walker), *The Journal of the American Statistical Association*, (June, 1990), 85(410), 283-294.
  92. "The Relationship Between Wages and Income and the Timing and Spacing of Births: Evidence from Swedish Longitudinal Data," (with J. Walker). *Econometrica*, (November, 1990). **58**(6): 1411-1441.
  93. "A Nonparametric Method of Moments Estimator for the Mixture of Geometrics Model," in J. Hartog, et. al., *Panel Data and Labor Market Studies*, (North Holland, 1990).
  94. "Economic Models of Fertility Dynamics: A Study of Swedish Fertility," (with J. Walker), in T. P. Schultz, (ed.), *Research in Population Economics*, (Greenwich, CT: JAI Press, 1990), Vol. 7, 3-91.
  95. "Testing The Mixture of Exponentials Hypothesis and Estimating The Mixing Distribution by the Method of Moments," (with R. Robb and J. Walker), *Journal of The American Statistical Association*, (June 1990), 85(410), 582-589.
  96. "The Impact of The Great Society on Social Science," *Journal of Human Resources*, (Spring, 1990), 25(2), 297-304.
  97. "Understanding The Economic Progress of Black Americans," in *Business in the Contemporary World*, (Summer 1990), 19-22.
  98. "The Central Role of the South in Accounting For The Economic Progress of Black Americans," *Papers and Proceedings Of The American Economic Association*, (May 1990), 80(2), 242-246.
  99. "Varieties of Selection Bias," *American Economic Review*, (May 1990), 80(2), 313-318.
  100. "Racial Disparity and Employment Discrimination Law: An Economic Perspective" and "Rejoinder," (with R. Verkerke), *Yale Law and Policy Review*, (Summer 1990), 8(2), 276-298.
  101. "Accounting for the Economic Progress of Black Americans," in R. Cornwall and P.V. Wunava, (eds.), *New Approaches to Economics and Social Analyses of Discrimination*, New York: Praeger, (1991), 331-337.
  102. "Continuous vs. Episodic Change: The Impact of Affirmative Action and Civil Rights Policy on the Economic Status of Blacks," (with J. Donohue), *Journal of Economic Literature*, (December 1991), 29(4), 1603-1643.
  103. "Reevaluating Federal Civil Rights Policy," (with J. Donohue), *Georgetown Law Journal*, (1991).
  104. "Identifying the Hand Of The Past: Distinguishing State Dependence from Heterogeneity," *American Economic Review*, (May, 1991), 81(2), 75-79.
  105. "A Nonparametric Method of Moments Estimator for the Mixtures of Exponentials Model and the Mixture of Geometrics Model," in W. Barnett, J. Powell and G. Tauchen, (eds.),

- Nonparametric and Semiparametric Methods in Econometrics and Statistics*, (Cambridge University Press, 1991)
106. “Randomization and Social Policy Evaluation,” paper presented at Institute For Research on Poverty conference at Arlie House in Charles Manski and Irwin Garfinkel, (eds.), *Evaluating Welfare and Training Programs*, (Harvard University Press, 1992), 201-230.
  107. “Understanding Third Births in Sweden,” in J. Trussell, R. Hankinson and J. Tilton, (eds.), *Demographic Applications of Event History Analysis*, (Oxford University Press, 1992).
  108. “Haavelmo and the Birth of Modern Econometrics: A Review of The History of Econometric Ideas by Mary Morgan,” *Journal of Economic Literature*, (June 1992), Vol. 30.
  109. “Evaluating an Argument For Affirmative Action,” (with T. Philipson), *Rationality and Society*, (July 1992).
  110. “The Urban Institute Audit Studies: Their Methods and Findings,” (with P. Siegelman), in M. Fix and R. Struyk, (eds.), *Clear and Convincing Evidence: Measurement of Discrimination in America*, Chapter 5, 187-258, (Urban Institute, Fall 1993).
  111. “The Nonequivalence of High School Equivalents,” (with S. Cameron), *Journal of Labor Economics*, (January 1993), 11(1), 1-47.
  112. “What Has Been Learned About Labor Supply In The Past Twenty Years?,” *AEA Papers and Proceedings*, (May 1993), 83(2), 116-121.
  113. “Assessing The Case For Randomized Evaluation of Social Programs,” in K. Jensen and P. Madsen, (eds), *Measuring Labor Market Program: Evaluating The Effects of Active Labor Market Initiatives*, Ministry of Labor, (Copenhagen, DK., May 1993).
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**Working Papers, Papers In Progress And Papers Under Review**

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2. "Evaluation of the Reggio Approach to Early Education," (with P. Biroli, D. Del Boca, L. P. Heckman, Y. K. Koh, S. Kuperman, S. Moktan, C. Pronzato, and A. Ziff). Under review, *Research in Economics*. (2017).
3. "The Non-Market Benefits of Education and Ability," (with J. E. Humphries and G. Veramendi). Under review, *Journal of Human Capital*. (2017).
4. "A Dynamic Model of Health, Addiction, Education, and Wealth," (with R. Hai). Unpublished manuscript, University of Chicago, Department of Economics. (2017).
5. "Quantifying the Life-cycle Benefits of a Prototypical Early Childhood Program," (with J.-L. García, D.-E. Leaf, and M.-J. Prados). Unpublished manuscript, University of Chicago, Center for the Economics of Human Development. (2017).
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