

James Joseph Heckman
Department of Economics
University of Chicago
1126 East 59th Street
Chicago, Illinois 60637
Telephone: (773) 702-0634
Fax: (773) 702-8490
Email: jjh@uchicago.edu

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 1991–2011

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

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

Major Invited Lectures

1. “The Benefits of Basic Research: Long-Term Evidence on Policies that Promote Families and Children,” Aspen Ideas Festival, Aspen, CO. June 22, 2017.
2. “The Developmental Origins of Health and Well-Being,” American Thoracic Society International Conference, Washington, DC. May 20, 2017.
3. “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.
4. “Human Development is Economic Development,” World Economic Forum Annual Meeting, Davos, Switzerland. January 17, 2017.
5. “Publishing and Promotion in Economics: The Curse of the Top Five,” American Economic Association Meeting, Chicago, IL. January 6, 2017.
6. “Fiscal Policies for Human Development,” Interamerican Development Bank Workshop, Interamerican Development Bank, Washington, DC. November 20, 2016.
7. “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.
8. “The Life-Cycle Benefits of an Influential Early Childhood Program,” Jinan University. Guangzhou, China. October 9th, 2016.
9. “Early Childhood Education,” Boys and Girls Clubs’ Association, 80th Anniversary Scientific Symposium, The Chinese University of Hong Kong, October 7, 2016.
10. “Life-Relevant Skills,” The Chinese University of Hong Kong, October 6, 2016.
11. “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.
12. “The Life Cycle Benefits of an Influential Early Childhood Intervention,” Russell Sage Foundation Seminar, New York City, NY. September 23, 2016.
13. “Promoting Skills to Address Inequality and Social Mobility,” 71st Annual Meeting of the Midwestern Legislative Conference, Milwaukee, WI. July 19, 2016
14. “Intergenerational Mobility: Sources and Mechanisms A Comparison of the U.S. and Scandinavia,” Ce2 Workshop & Warsaw International Economic Meeting, Warsaw, Poland, June 27, 2016.
15. “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.

16. "Creating and Measuring Capabilities," Dan David Prize Award Ceremony, Symposium on Combatting Poverty, Tel Aviv University, Tel Aviv, Israel. May 22, 2016.
17. "Creating and Measuring Capabilities," Guangzhou Public Lecture, Jinan University, Guangzhou, China. March 14, 2016.
18. "Creating and Measuring Capabilities," Nanqiang Award Public Lecture, Xiamen University, Xiamen, China. March 11, 2016.
19. "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.
20. "Inequality, Social Mobility, and Public Policy," James Madison Medalist Award Ceremony, Princeton University, Princeton, NJ. February 20, 2016.
21. "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.
22. "Human Development is Economic Development," Dinner with Congressman Richard Hanna, Washington, DC. November 30, 2015.
23. "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.
24. "Creating Capabilities," Hong Kong University of Science and Technology, Hong Kong, November 17, 2015.
25. "Social Mobility and Inequality," Henry George Lecture, St. John's University, Peter J. Tobin College of Business. November 9, 2015.
26. "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.
27. "Using Behavior to Infer Skills," Conference on Measuring and Assessing Skills, Session II: Measuring Skills from Real World Behavior. Chicago, IL. October 1, 2015.
28. "Creating Flourishing Lives: The Dynamics of Capability Formation," Amartya Sen Lecture, Human Development and Capability Association Annual Conference, Washington, DC, September 11, 2015.
29. "How Economics Guides the Interpretation of Data," 11th World Congress of the Econometric Society, Montreal, August 18, 2015.
30. "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.

31. Panelist, "Setting the Stage," World Education Forum 2015, Incheon, Republic of Korea, May 19, 2015.
32. "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.
33. "Going Forward Wisely," Education Writers Association National Seminar, Chicago, IL, April 21, 2015.
34. "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.
35. "The Market and Nonmarket Returns to Education," Sandmo Lecture on Public Policy, Bergen, Norway. January 13, 2015.
36. "Going Forward Wisely," White House Summit on Early Childhood Education, The White House, Washington, DC. December 10, 2014.
37. "Early Education Programs in the US: Background and Evaluations," Means-Tested Transfer Programs, NBER, Cambridge, MA. December 6, 2014.
38. "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.
39. "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.
40. "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.
41. "Creating Capabilities," Research Institute of Economy, Trade & Industry (RIETI), Tokyo, Japan. October 8, 2014.
42. "The Market and Nonmarket Returns to Schooling," Conference on Evidence on Schooling and Wellbeing, Aarhus University, Aarhus, Denmark. August 29, 2014
43. "The Market and Nonmarket Effects of Schooling," China Meeting of Econometric Society, Xiamen University, China. June 25, 2014.
44. "Causal Models, Structural Equations, and Identification: Stratification and Instrumental Variables," Asia Meeting of the Econometric Society, Fuzukawa Lecture, Taipei, Taiwan. June 22, 2014.
45. "Creating Flourishing Lives," University of Chicago New Delhi Center Opening, New Delhi, India. March 29, 2014.

46. "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.
47. "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.
48. "The Economics and the Econometrics of Human Development," Econometric Society Presidential Address, Allied Social Sciences Association Meetings, Philadelphia, PA. January 2, 2014.
49. "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.
50. "The Economic Case for Investing in Young Children," National Business Leader Summit on Early Childhood Investment, Atlanta, GA. September 22, 2013
51. "The Economics and Econometrics of Human Development," Presidential Address, European Meeting of the Econometric Society, Gothenburg, Sweden. August 27, 2013
52. "A Life Cycle Strategy for Promoting Capabilities," Henderson County Community Early Childhood Investment Luncheon, Henderson, KY. July 23, 2013.
53. "The Economics and Econometrics of Human Development," Presidential Lecture, Econometric Society, Beijing, China. June 14, 2013.
54. "Causal Analysis After Haavelmo," Session: History of Econometrics and the Econometric Society, European Meeting of the Econometric Society, Gothenburg, Sweden. August 28, 2013.
55. "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
56. "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
57. "The Economics of Inequality and Human Development," ABF Research Seminar, Chicago IL. May 1, 2013
58. Video Presentation prepared for the Conference of Legislators for Hemispheric Latin America, Brasilia, Brazil. April 18, 2013
59. i3 Webinar with Secretaries Duncan and Sebelius on Early Learning. April 16, 2013
60. "Economic Growth and Inequality in China," INET Annual Conference, Hong Kong. April 6, 2013

61. "A Framework for Analyzing Human Development Over The Life Cycle," Workshop on Early Childhood Development, University of Zurich, March 22, 2013
62. "The Skills Problem," Nebraska Chamber of Commerce and Industry 2013 Legislative Caucus and Annual Meeting, Lincoln, NE. February 7, 2013
63. "Creating and Measuring Capabilities," U.S. Government Action Plan on Children in Adversity, The White House, December 19, 2012.
64. "Noncognitive Skills and Socioemotional Learning," Research Symposium on Learning, Brookings Institution Center for Universal Education, Washington DC. December 6, 2012
65. 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
66. "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
67. "The Skills Problem," Keynote Address, 2012 Kentucky Economic Association, Georgetown College, Georgetown KY. October 26, 2012
68. "The Skills Problem," Convocation, Berea College, Berea, KY. October 25, 2012
69. "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
70. "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
71. "Structural Estimation of Behavioral Models: A Conference in Honor of Kenneth I. Wolpin," University of Pennsylvania, University Park, PA. September 21-22, 2012
72. "Hard Evidence on Soft Skills," Keynote Address, 2012 Chinese Economists Society Annual Conference, Henan University, Kaifeng, China. June 24, 2012
73. "The Skills Problem," Lumen Christi Institutes Fourth Annual Conference on Economics and Catholic Social Thought, "Toward a Moral Economy", Chicago, IL. June 1, 2012
74. "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.
75. "Hard Evidence on Soft Skills," Frank Knight Lecture, Cornell University, Ithaca, NY. April 26, 2012.

76. "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.
77. "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.
78. "Hard Evidence on Soft Skills," The Development Economics Vice Presidency (DEC) Lecture, World Bank, Washington DC. December 15, 2011.
79. "The Developmental Origins of Health: Models and Evidence," Stephen Frankel Lecture, University of Bristol, November 16, 2011.
80. "Hard Evidence on Soft Skills," Adam Smith Lecture, 23rd Annual Conference, European Association of Labour Economists, Paphos, Cyprus, September 24, 2011.
81. "Understanding the Mechanisms Through Which an Influential Early Childhood Program Boosted Adult Outcomes," Asian Meeting of the Econometric Society, Seoul, Korea, August 12, 2011.
82. "Marschak's Maxim," Marschak Memorial Lecture, UCLA Anderson School of Management, June 3, 2011.
83. "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.
84. "The Developmental Origins of Inequality: Implications for Social Policy," Manchot Lecture, University of Bonn, Bonn, Germany. January 28, 2011.
85. "Understanding the Origins of Inequality," Invited Keynote speaker, First Annual MOVE Distinguished Visitor's Lecture, December 21, 2010, Barcelona, Spain.
86. "Building Bridges Between Structural and Program Evaluation Approaches to Evaluating Policy," Keynote Lecture, Italian Statistical Society Scientific Meeting, Padua, Italy, June 16, 2010
87. "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.
88. "Understanding the Sources of and Solutions to Human Inequality," Keynote Lecture, Meeting on Early Childhood Education, Rio de Janeiro, Brazil. December 17, 2009.
89. "The Developmental Origins of Adult Health: Cognition, Personality, and Education," 6th Annual Nestlé International Nutrition Symposium, Lausanne, Switzerland. October 22, 2009.

90. "Policies to Promote Growth in Mexico," Bank of Mexico. October 19, 2009.
91. "Policies to Foster Human Development," Developing Africa: an Opportunity for Europe, Italy and Sicily; Taormina, Italy. October 1, 2009.
92. "Investing in our Young People: Lessons from Economics and Psychology," Lectio Magistralis, Catholic University Milan. September 28, 2009.
93. "Estimating the Technology of Cognitive and Noncognitive Skill Formation," Plenary Lecture, Econometric Society. June 6, 2009.
94. "Estimating the Technology of Cognitive and Noncognitive Skill Formation," Vilfredo Pareto Lectures in Economics and Social Sciences, Collegio Carlo Alberto. June 9, 2009.
95. "The Economics and Psychology of Personality," Identity and the Global Crisis: Festival of the Economy, Trento, Italy. May 29, 2009.
96. DEW/ESR Guest Lecture, "The Economics and Psychology of Personality." Irish Economic Association 23rd Annual Conference, Blarney, County Cork, Ireland. April 26, 2009.
97. "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.
98. "The Economics and Psychology of Inequality and Human Development," Marshall Lecture, European Economics Association, Milan, Italy. August 29, 2008.
99. "How Viable is the Welfare State?" World Justice Forum, Vienna, Austria. July, 2008.
100. "The Option Value of Educational Choices and the Rate of Return to Educational Choices," Cowles Foundation Structural Conference, Yale University. June 13, 2008.
101. "Skills, Schools and Synapses," Coping with the Accident of Birth: The Case for Early Childhood Interventions. Den Haag, Netherlands. May 27, 2008.
102. "Noncognitive Skills: Acquisition and Economic Consequences," Plenary Lecture, Leibniz Network Conference, Mannheim, Germany. May 15, 2008.
103. "Understanding the GED," Albert Rees Memorial Lecture, Society of Labor Economists Annual Meetings, May 9, 2008.
104. "How Viable is the Welfare State?" and "The Technology of Skill Formation," King Saud University Lecture, Riyadh, Saudi Arabia. March 8-10, 2008.
105. 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.
106. "The Economics of Investing in Children: The Role of Cognitive and Non-Cognitive Skills," George Seltzer Distinguished Memorial Lecture, Minneapolis, Minnesota, December 6, 2007.

107. “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.
108. “The Technology of Skill Formation,” Guinness Lecture, Coombe Women’s Hospital, Dublin, Ireland, November 2, 2007.
109. “The Technology of Building Human Capacities: Lessons for Public Policy,” Building Blocks Conference, Alberta, Canada, May 2007.
110. 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.
111. “The Economics, Technology and Neuroscience of Human Capability Formation,” Allostasis/Allostatic Load Conference, Princeton University, May 2007.
112. “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.
113. 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.
114. Theodore W. Schultz Lecture, “The New Economics of Child Quality,” American Economic Association, January 2007.
115. Keynote Address, “What Lessons Should China Learn from European Welfare States?” WEAI Pacific Rim Conference, Beijing, China, January 2007.
116. Max Weber Lecture, “The Economics of Human Development,” European University, Florence, Italy, October 2006.
117. 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.
118. Marshall Lecture, Annual Meeting of the European Economic Association. August, 2006.
119. Michelson Memorial Lecture, “Skills, Schools and Synapses,” US Naval Academy, September 2006.
120. Conway Institute Lecture, “The Technology and Neuroscience of Skill Formation,” University College Dublin, June 2006.
121. Ulysses Medal Lecture, “The Economics of Child Development,” University College Dublin, June 2006.

122. 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.
123. Inaugural Lecture, “Credit Constraints, Family Constraints and Optimal Policies to Reduce Inequality and Promote Productivity,” Geary Institute, University College Dublin, April 2005.
124. 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”
125. Hicks Lecture, Oxford University, April 2004.
126. 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).
127. Nobel Symposium Lecturer, St. Petersburg, Russia, June 2003.
128. Munich Economic Summit, Munich, May 2003.
129. European Society for Population Economics, 2003.
130. Keynote Lecture, Tinbergen Centenary, Rotterdam, April 2003.
131. W.P. Carey Lecture, Colorado College, February 2002.
132. Miguel Sidrauski Lecture, Latin American Econometric Society Meetings, Sao Paulo, 2002.
133. Tinbergen Lecture, Royal Dutch Economics Association, October 2002.
134. Walras-Pareto Lectures, University of Lausanne, October 2002.
135. Gorman Lectures, University College, London, Fall 2001.
136. Klein Lecture, University of Pennsylvania, October 2001.
137. Review of Economics and Statistics Lecture, April 2001.
138. Economic Journal Lecture, Royal Economic Society, April 2001.
139. Jovanovich Lecture, Colorado College, February 2001.
140. Distinguished Lecture, Southern Economics Association, Washington, D.C., November 2000.
141. Fisher-Schultz Lecture, World Meeting of the Econometric Society, August 2000.
142. Yoram Ben Porath Memorial Lecture, Hebrew University, (First in series), June 2000.
143. Wildavsky Forum Lecture, University of California, Berkeley, April 1999.
144. Woytinsky Lecture, University of Michigan, October 1999.
145. Invited Lecture, Latin American Meetings of the Econometric Society, Cancun, Mexico, August 1999.

146. Invited lecturer, Econometric Society Meetings, Lima, Peru, August 1998.
147. Distinguished Lecture, Institute for Survey Research, University of Michigan, January 1998.
148. McKinley Lecturer, University of Illinois, March 1998.
149. Fishelson Memorial Lecture, Tel Aviv University, December 1998.
150. Malim Harding Lecturer, University of Toronto, October 1997.
151. Jacob Marschak Lecturer, Far Eastern Econometric Society Meetings, Hong Kong, July 25, 1997.
152. Economics Study Group, Gronigen, Holland, June 1997.
153. Invited Lecture, Latin American Econometric Society Meetings, Santiago, Chile, August 1997.
154. *Journal of Applied Econometrics* Lectures (First Lecturer in a new series established by the *Journal of Applied Econometrics*, Yale University, April 17–18, 1997).
155. Keynote Lecture, Latin American Econometric Society, Santiago Chile, August 1997.
156. Keynote Lecture, Society For Economic Dynamics and Control, Mexico City, June 27, 1996.
157. Keynote Lecture, Latin American Econometric Society, Rio de Janeiro, August 1996.
158. Keynote Speaker, American Sociological Association Meetings, New York, August 16, 1996.
159. Gilbert Lecture, University of Rochester, April 1996.
160. Seymour Harris Lectures, Kennedy School of Government, 1995. (First lecturer in a newly endowed series) Lectures to be published by Harvard University Press.
161. Distinguished Quantitative Social Science Lecture, University of Indiana, April 1996.
162. Invited Lecture, Centenary of Ragnar Frisch, First Nobel Economist, Oslo, March 1995.
163. Invited Lecture, Public Policy School, SUNY Albany, October 1994.
164. Invited Lecture, Latin American Econometric Society, Caracas, August 1994.
165. Aloysius Dunaway Memorial Lecture, Michigan State University, April 1993.
166. Carl Synder Memorial Lecture, University of California at Santa Barbara, Spring 1992.
167. H. Chase-Stone Lecture in Economics, Colorado College, 1992 (participant in three day symposium).
168. Martin Luther King Lecturer, University of Michigan, 1991.
169. Invited Lecture, Econometric Study Group, Royal Economic Society, Bristol, England, 1991.
170. Barcelona Lecture, Sixth World Econometric Society, 1990.
171. Erik Malmstens Distinguished Guest Professor of Economics, Gothenburg University, Gothenburg, Sweden, 1990.
172. Invited Major Lecture, University of Western Ontario, 1989.

173. Invited Major Guest Lecture, Joint Franco-Belgian Conference in Statistics, Toulouse, France, 1988.
174. Chung-Hua Distinguished Visitor and Academia Sinica Lectures, Taiwan, 1988.
175. Fish Lecture, Brigham Young University, 1987.
176. Harry Lyman Hooker Distinguished Visiting Professor, McMaster University, 1987.
177. Leif Johansen Lecture, University of Oslo, 1986.
178. Abbott Lecturer, Colorado College, 1985.
179. 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 χ^2 Goodness of Fit Statistic For Models with Parameters Estimated From Microdata," *Econometrica*, (November, 1984), 52(6), 1543-1547.
53. "A Test for Subadditivity of the Cost Function With An Application to the U.S. Bell System," (with D. Evans), *American Economic Review*, (September, 1984), 615-623.
54. "Introduction," (with B. Singer), *Longitudinal Analysis of Labor Market Data*, (Cambridge: Cambridge University Press, 1985).
55. "Social Science Duration Analysis," (with B. Singer), *Longitudinal Analysis of Labor Market Data*, (University Press, 1985).
56. "A Simultaneous Equations Linear Probability Model," (with T. MaCurdy), *Canadian Journal of Economics*, (January, 1985), XVIII(1), 28-37.
57. "Alternative Methods for Estimating The Impact of Interventions," (with R. Robb), presented at Social Science Research Council Conference, Mt. Kisco, N.Y., October, 1978. In J. Heckman and B. Singer (eds.), *Longitudinal Analysis of Labor Market Data*, (Cambridge University Press, 1985).
58. "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).
114. "Determinants of Young Male Schooling and Training Choices," in Lisa Lynch, (ed), *Private Sector Skill Formation: International Comparisons*, (Chicago: University of Chicago Press, 1994). 201-231.
115. "Is Job Training Oversold?," *The Public Interest*, (Spring 1994), Number 115, 91-115.
116. "Econometric Mixture Models and More General Models for Unobservables," (with C. Taber), *Statistical Methods in Medical Research: Frailty Models in Survival Analysis*, (1994), 3(3), 279-299.
117. "U. S. Education and Training Policy: A Reevaluation of The Underlying Assumptions Behind The New Consensus," (with J. Smith and R. Roselius), in A. Levenson and L. C. Solmon, (eds), *Labor Markets, Employment Policy and Job Creation*, (Santa Monica, CA: Milken Institute for Job and Capital Formation), (October 1994), 83-121.
118. "Assessing The Case For Randomized Social Experiments," (with J. Smith), *Journal of Economic Perspectives*, (Spring 1995), 9(2), 85-110.
119. "The Economics of Eligibility Rules for a Social Program: A Study of the Job Training Partnership Act – A Summary Report," (with T. Devine), *Canadian Journal of Economics*, (1995).
120. "Lessons From The Bell Curve," *Journal of Political Economy*, (October 1995), 103(5), 1091-1120.
121. "Coleman's Contribution to Education: Theory and Research Styles and Empirical Research," (with D. Neal), in Jon Clark, (ed), *The Contributions of James Coleman: Falmer Sociology Series*, (Falmer Press: London/N.Y., Philadelphia), (1996), 81-102.
122. "Does Measured School Quality Really Matter? An Examination of the Earnings-Quality Relationship," (with A. Layne-Farrar and Petra Todd), in G. Burtless, (ed), *Does Money Matter? The Effect of School Resources on Student Achievement and Success*, (Brookings), (July 1996).
123. "Randomization As An Instrumental Variable," *Review of Economics and Statistics*, (May 1996), LXXVIII, 336-341.
124. "Experimental and Non-experimental Evaluation," (with J. Smith), in G. Schmid, (ed.), *International Handbook of Labor Market Policy and Evaluation*, (Elgar Publishing Company, 1996).

125. "What Do Bureaucrats Do? The Effects of Performance Standards and Bureaucratic Preferences on Acceptance Into the JTPA Program," (with J. Smith and C. Taber), in G. Libecap, (ed.), *Advances in the Study of Entrepreneurship, Innovation and Growth*, Vol. 7, 191-217, (JAI Press, 1996).
126. "Human Capital Pricing Equations with an Application to Estimating the Effect of Schooling Quality on Earnings," with (A. Layne-Farrar and P. Todd), *Review of Economics and Statistics*, (November 1996), 562-610.
127. "Consequences of Eligibility Rules for A Social Program: A Study of the Job Training Partnership Act (JTPA)," (with T. Devine), in S. Polachek, *Research in Labor Economics*, (JAI Press, 1996), 15, 111-170.
128. "What Should be our Human Capital Investment Policy?," in G. Mangum, *Of Heart and Mind*, (Upjohn, 1996), 323-342.
129. "Social Experiments: Theory and Evidence," (with J. Smith), *Okonomie und Gesellschaft*, Jahrbuch, 13, (1996), 186-214.
130. "Sources of Selection Bias in Evaluating Programs: An Interpretation of Conventional Measures and Evidence on The Effectiveness of Matching as a Program Evaluation Method," (with H. Ichimura, J. Smith and P. Todd), *Proceedings of the National Academy of Sciences*, (November 1996), 93, 13416-13420.
131. "On AIR: Identification of Causal Effects Using Instrumental Variables," *Journal of The American Statistical Association*, (June 1996).
132. "The Empirical Foundations of Calibration,"(with Lars Hansen), *Journal of Economic Perspectives*, 10(1), (Winter 1996), 87-104.
133. "Linear Probability Models of the Demand for Attributes with an Empirical Application to Estimating The Preferences of Legislators," (with J. Snyder), *RAND Journal of Economics*, (1997), 28(0), S142-S189.
134. "Assessing the Performance of Performance Standards in Public Bureaucracies," (with C. Heinrich and J. Smith), *AEA Papers and Proceedings*, (May 1997), 389-395.
135. "Cognitive Ability, Wages, and Meritocracy," (with John Cawley, Karen Conneely and Ed Vytlačil)," in B. Devlin, S. E. Fienberg, D. Resnick and K. Roeder, (eds), in *Intelligence Genes, and Success: Scientists Respond to the Bell Curve*, 179-192, (Copernicus:Springer-Verlag, 1997).
136. "The Value of Quantitative Evidence on the Effect of the Past on the Present," *AEA Papers and Proceedings*, (May 1997), 87(2), 404-408.
137. "Intellectual Roots of the Law and Economics Movement," *Law and History Review*, (Fall 1997), 15(2), 327-332.
138. "The Effects of Government Policy on Human Capital Investment and Wage Inequality," (with L. Lochner, J. Smith, C. Taber), *Chicago Policy Review*, (Spring 1997), 1(2), 1-40.
139. "Instrumental Variables: A Study of Implicit Behavioral Assumptions Used in Making Program Evaluations," *Journal of Human Resources*, (Summer 1997), 32(3), 441-462.

140. "Making The Most Out of Programme Evaluations and Social Experiments: Accounting For Heterogeneity in Programme Impacts," (with J. Smith, N. Clements), (March 1993), *Review of Economic Studies*, (October 1997), 64, 487-535.
141. "Characterizing Selection Bias Using Experimental Data," (with H. Ichimura, J. Smith and P. Todd), *Econometrica*, 1998, 66(5): 1017-1098.
142. "Matching As An Econometric Evaluation Estimator: Evidence from Evaluating a Job Training Programme," (with H. Ichimura and P. Todd), *Review of Economic Studies*, (October 1997), 64, 605-654.
143. "Accounting For Dropouts in the Evaluation of Social Experiments," (with J. Smith and C. Taber), *Review of Economics and Statistics*, (February 1998), 80(1), 1-14.
144. "The Effects of Government Policies on Human Capital Investment, Unemployment and Earnings Inequality," in *Publications of the GAAC, Symposia, Volume 5: Third Public GAAC Symposium - Labor Markets in the USA and Germany*, German-American Academic Council Foundation, Bonn, Germany, (1998).
145. "The Sensitivity of Experimental Impact Estimates: Evidence From The JTPA Study," (with J. Smith), in R. Freeman, (ed), *Youth Unemployment*, August, 1993, revised, May, 1996 and presented at a conference on Youth Transitions, Konstanz, Germany, University of Chicago and NBER, 1998.
146. "Evaluating The Welfare State," (with J. Smith), in S. Strom (ed.), *Econometrics and Economic Theory in the 20th Century: The Ragnar Frisch Centennial Symposium, Econometric Society Monograph Series*, 16, (Cambridge University Press, 1998), Chapter 8, 241-318.
147. "General Equilibrium Treatment Effects: A Study of Tuition Policy," (with L. Lochner and C. Taber), *American Economic Review*, (May 1998), 88(2), 381-386.
148. "Tax Policy and Human Capital Formation," (with L. Lochner and C. Taber), *American Economic Review*, (May 1998), 88(2), 293-297.
149. "Life Cycle Schooling and Dynamic Selection Bias: Models and Evidence for Five Cohorts of American Males," (with S. Cameron), *Journal of Political Economy*, (April 1998), 106(2), 262- 311.
150. "Explaining Rising Wage Inequality: Explorations With A Dynamic General Equilibrium Model of Earnings," (with L. Lochner and C. Taber), *Review of Economic Dynamics*, (1998), 1, 1-58.
151. "Human Capital Policy," (with Peter Klenow), in M. Boskin, (ed), *Capital Formation*, Hoover Economic Growth Conference, Hoover Institution, (1998).
152. "Detecting Discrimination," *Journal of Economic Perspectives*, (Spring 1998), 12(2).
153. "What Should Be Our Human Capital Investment Policy?," *Fiscal Studies*, 19(2), (Spring 1998).
154. "Instrumental Variables Methods For the Correlated Random Coefficient Model: Estimating The Average Rate of Return to Schooling When the Return Is Correlated With Schooling," (with E. Vytlačil), *Journal of Human Resources*, 33(4), (Fall 1998), 974-1002.

155. "Human Capital Formation and General Equilibrium Treatment Effects: A Study of Tax and Tuition Policy," (L. Lochner and C. Taber), *Fiscal Studies*, 20(1), 25-40, (March 1999).
156. "Doing it Right: Job Training and Education," *The Public Interest*, 135, (Spring 1999)
157. "Meritocracy in America: An Examination of Wages Within and Across Occupations," (with J. Cawley, and E. Vytlačil), *Industrial Relations*, 38(3), 250-296, (1999) Also published as National Bureau of Economic Research Working Paper #63
158. "Should College Attendance be Further Subsidized to Reduce Rising Wage Inequality?" (with Stephen Cameron) in M. Koster, (ed), *Financing College Tuition: Government Policies and Educational Priorities*, (AEI: Washington, DC., 1999).
159. "The Economics and Econometrics of Active Labor Market Programs," (with R. LaLonde and J. Smith) in O. Ashenfelter and D. Card, (eds), *Handbook of Labor Economics*, (North Holland, Vol. 3, 1999), 1865-2086.
160. "Local Instrumental Variables and Latent Variable Models for Identifying an Bounding Treatment Effects," with (Edward Vytlačil), *Proceedings of the National Academy of Sciences*, (April 1999), 96, 4730-4734.
161. "The Pre-Programme Earnings Dip and the Determinants of Participation in A Social Programme Implications For Simple Programme Evaluation Strategies," (with Jeffrey A. Smith), *Economic Journal*, 109, 1-37, (July 1999), Won Prize as Best Paper Published in the journal in 1999.
162. "On Policies to Reward the Value Added by Educators," (with J. Cawley and E. Vytlačil), *Review of Economics and Statistics*, (November 1999), 81(4), 720-728.
163. "Micro Data and General Equilibrium Models," (with M. Browning and L. Hansen) in J. Taylor and M. Woodford (eds), *Handbook of Macroeconomics*, (Amsterdam: Elsevier. 1999), Chapter 8, 543-633.
164. "Understanding the Role of Cognitive Ability in Accounting for the Recent Rise in the Economic Return to Education," (with J. Cawley, L. Lochner and E. Vytlačil) in K. Arrow, S. Bowles, and S. Durlauf (eds.), *Meritocracy and Economic Inequality*, (Princeton University Press: Princeton, NJ, 1999).
165. "General Equilibrium Cost Benefit Analysis of Education and Tax Policies," (with L. Lochner and C. Taber), in Gustav Ranis and Lakshmi K. Raut, (ed), *Trade, Growth and Development: Essays in Honor of T.N Srinivasan*, Chapter 14, (Elsevier Science, B.V., Amsterdam, 2000), 291-393.
166. "Causal Parameters and Policy Analysis In Economics: A Twentieth Century Retrospective," *Quarterly Journal of Economics*, (2000), 45-97.
167. "The Relationship Between Treatment Parameters within a Latent Variable Framework," with (E. Vytlačil), *Economic Letters*, (January 2000), 66(1), 33-39.
168. "Substitution and Dropout Bias in Social Experiments: A Study of an Influential Social Experiment," with Neil Hohmann, Michael Khoo and Jeffrey Smith, *Quarterly Journal of Economics*, (May 2000), 651-690.

169. "Local Instrumental Variables," (with E. Vytlačil), in *Nonlinear Statistical Inference: Essays in Honor of Takeshi Amemiya*, C. Hsiao, K. Morimune, and J. Powell, (eds.), *Essays in Nonlinear Econometrics*, (Cambridge: Cambridge University Press), (2000).
170. "Rethinking Myths about Education and Training: Understanding the Sources of Skill Formation in a Modern Economy," (with L. Lochner) in S. Danziger and J. Waldfogel, (eds.), *Securing the Future: Investing in Children from Birth to College*, Chapter 2, 47-83, (New York: Russell Sage Foundation, 2000).
171. "Policies to Foster Human Capital," (with Discussion), *Research in Economics*, (2000), 54(1), 3-56.
172. "Understanding Black-White Wage Differentials 1960-1990," (with T. Lyons and P. Todd), *American Economic Review*, (May 2000).
173. "The Cost of Job Security Regulation: Evidence from the Latin American Labor Markets, (with Carmen Pages-Serra), *Journal of the Latin American and Caribbean Economic Association*, 1(1), (Fall 2000), 109-154.
174. "Accounting for Heterogeneity, Diversity and Social Policy Evaluation," *Economic Journal*, (2001).
175. "Identifying The Role of Cognitive Ability in Explaining The Level of and Change In the Return to Education," (with E. Vytlačil), *Review of Economics and Statistics*, (February, 2001), 83(1), 1-12.
176. "The Dynamics of Educational Attainment for Blacks, Whites and Hispanics," (with S. Cameron), *Journal of Political Economy*, (June 2001), 109(3), 455-499.
177. "Instrumental Variables, Selection Models, and Tight Bounds on the Average Treatment Effect," (with E. Vytlačil) in *Econometric Evaluations of Active Labor Market Policies in Europe*, edited by M. Lechner and F. Pfeiffer, (2001).
178. "Essays: Econometrics and Empirical Economics," *Journal of Econometrics*, (2001), 100(3-5).
179. "Policy Relevant Treatment Effects," (with E. Vytlačil) *American Economic Review*, 91(2), (2001), 107-111.
180. "The Importance of Noncognitive Skills: Lessons from the GED Testing Program," (with Y. Rubinstein), *AEA Papers and Proceedings*, (May, 2001).
181. "Four Parameters of Interest in the Evaluation of Social Programs," (with J.L. Tobias and E. Vytlačil), *Southern Economic Journal*, (2001), 68 (2), 210-223.
182. "Micro Data, Heterogeneity, and the Evaluation of Public Policy: Nobel Lecture", *Journal of Political Economy*, (2001) 109(4), 673-748.
183. "Removing the Veil of Ignorance in Accessing the Distributional Impacts of Social Policies," (with Pedro Carneiro and Karsten Hansen), *Swedish Policy Review*, Vol 8, (2001).
184. "Three Observations on Wages and Measured Cognitive Ability," (with John Cawley and Edward Vytlačil) *Labour Economics*, 2001.

185. “Flessibilità, Creazione del Lavoro e Globalizzazione: Il Caso Italia,” *Global and Local Economic Review*, **5**(2): 7–32, 2002.
186. “The Schooling of Southern Blacks: The Roles of Legal Activism and Private Philanthropy, 1910-1960,” (with J. Donohue and P. Todd), *The Quarterly Journal of Economics*, **117**(1): 225–268, 2002.
187. “Identifying Hedonic Models,” (with I. Ekeland and L. Nesheim), *American Economic Review*, **92**(2): 304–309, 2002.
188. “The Evidence on Credit Constraints in Post-Secondary Schooling,” (with P. Carneiro), *Economic Journal*, **112**(482):705–734, 2002.
189. “The Performance of Performance Standards,” (with C. Heinrich and J. Smith), *Journal of Human Resources*, **37**(4): 778–811, 2002.
190. “Adverse Selection and Moral Hazard in Insurance: Can Dynamic Data Help to Distinguish?” (with J. Abbring, P.-A. Chiappori and J. Pinquet), *Journal of the European Economic Association*, **1**(2-3): 512-521, 2003.
191. “Estimating Distributions of Treatment Effects with an Application to the Returns to Schooling and Measurement of the Effects of Uncertainty on College Choice,” (Klein Lecture) (with P. Carneiro and K. Hansen), *International Economic Review*, **44**(2): 361–422, 2003.
192. “Human Capital Policy” (with P. Carneiro), in J. Heckman and A. Krueger, eds., *Inequality in America: What Role for Human Capital Policy?*, (MIT Press), 2003.
193. “Wage Subsidies and Skill Formation: A Study of the Earned Income Tax Credit,” (with R. Cossa and L. Lochner) in E. Phelps, ed., *Designing Inclusion*, (Cambridge University Press), 2003.
194. “China’s Investment in Human Capital,” *Economic Development and Cultural Change*, **51**(4), 2003.
195. “Simple Estimators for Treatment Parameters within a Latent Variable Framework,” (with J. Tobias and E. Vytlacil), *Review of Economics and Statistics*, **85**(3), 2003.
196. “Conditioning, causality and policy analysis,” (Commentary), *Journal of Econometrics*, **112**, 2003.
197. “Flexibility and Job Creation: Lessons from Germany,” in P. Aghion, R. Frydman, J. Stiglitz and M. Woodford, eds., *Knowledge, Information, and Expectations in Modern Macroeconomics*, (Princeton and Oxford: Princeton University Press), 2003.
198. “The Supply Side of the Race Between Supply and Demand: Policies to Foster Skill in the Modern Economy,” (Netherlands Economic Review), *Quarterly Review of the Royal Netherlands Economic Association*, March 2003, Tinbergen Lecture (October 2002).
199. “Using Matching, Instrumental Variables and Control Functions to Estimate Economic Choice Models,” (with S. Navarro) *Review of Economics and Statistics*, **86**(1): 30–57, 2004.
200. “The Effect of Schooling and Ability on Achievement Test Scores,” (Aigner Prize paper) (with Karsten T. Hansen, Kathleen J. Mullen), *Journal of Econometrics*, **121**: 39–98, 2004.

201. “Determinants of Participation in A Social Program,” (with J. Smith) *Journal of Labor Economics*, **22**(2), April 2004.
202. “Remarks on the Life and Work of Jacob Mincer,” *Review of Economics of the Household*, **1**(4), 2004.
203. “Simulation and Estimation of Hedonic Models,” (with R. Matzkin and L. Nesheim) in T. Kehoe, T.N. Srinivasan, J. Whalley , eds., *Frontiers in Applied General Equilibrium Modeling*, (Cambridge University Press), 2004.
204. “Identification and Estimation of Hedonic Models,” (with I. Ekeland and L. Nesheim) *Journal of Political Economy*, **112**(1), 2004.
205. “Selection Bias, Comparative Advantage and Heterogeneous Returns to Education: Evidence from China in 2000,” (with Xuesong Li), *Pacific Economic Review*, **9**(3), 2004.
206. “Lessons from the Technology of Skill Formation,” *Annals of the New York Academy of Sciences*, **1038**: 1–22, 2004.
207. “Estimating treatment effects for discrete outcomes when responses to treatment vary: an application to Norwegian vocational rehabilitation programs,” (with A. Aakvik and E. Vytlačil) *Journal of Econometrics*, Aigner Prize Paper, **125**: 15–51, 2005.
208. “Measuring Disparate Impacts and Extending Disparate Impact Doctrine to Organ Transplantation,” (with R. Bornholz) *Perspectives in Biology and Medicine*, **48**(1): S95–S122, 2005.
209. “Separating Heterogeneity from Uncertainty in Measuring Income Inequality,” (2004 Hicks Lecture), (with F. Cunha and S. Navarro) *Oxford Economic Papers*, **57**: 191–261, 2005.
210. “China’s Human Capital Investment,” (new version), *China Economic Review*, **16**: 50–70, 2005.
211. “Skill Policies for Scotland,” (with D. Masterov), in D. Coyle, W. Alexander and B. Ashcroft, eds., *New Wealth for Old Nations: Scotland’s Economic Prospects*, (Princeton and Oxford: Princeton University Press), 119–165, 2005.
212. “Inequality in America: What role for human capital policies?” *Focus* (University of Wisconsin–Madison, Institute for Research on Poverty), **23**(3): 1–10, 2005.
213. “Labor Market Discrimination and Racial Differences in Premarket Factors,” (with P. Carneiro and D. Masterov), *Journal of Law and Economics*, **48**(1): 1–39, 2005.
214. “Structural Equations, Treatment, Effects and Econometric Policy Evaluation,” (with E. Vytlačil) *Econometrica*, **73**(3): 669–738, 2005.
215. “Understanding the Sources of Ethnic and Racial Wage Gaps and Their Implications for Policy,” (with P. Carneiro and D. Masterov), in R. Nelson and L. Nielsen, eds., *Handbook of Research on Employment Discrimination: Rights and Realities*, (Springer), 2005.
216. “Contributions of Zvi Griliches,” *Annales d’Economie et Statistique*, **79-80** (July-December, Special issue in tribute to Zvi Griliches), 2005.
217. “The Scientific Model of Causality,” *Sociological Methodology*, **35**: 1–97, 2005.

218. “Counterfactual Analysis of Inequality and Social Mobility,” (with F. Cunha and S. Navarro) in S. Morgan, D. Grusky and G. Fields. eds., *Mobility and Inequality: Frontiers of Research from Sociology and Economics*, Palo Alto: Stanford University Press, Chapter 4, 2006.
219. “Skill Formation and the Economics of Investing in Disadvantaged Children,” *Science*, **312** (5782): 1900-1902 (June, 2006).
220. “Economic, Neurobiological, and Behavioral Perspectives on Building America’s Future Workforce,” (with E. Knudsen, J. Cameron and J. Shonkoff) *Proceedings of the National Academy of Sciences*, **103**(27): 10155-10162 (July, 2006).
221. “Earnings Functions, Rates of Return and Treatment Effects: The Mincer Equation and Beyond,” (with L. Lochner and P. Todd) in E. Hanushek and F. Welch, eds., *Handbook of the Economics of Education*, (North Holland: Amsterdam), pp. 307–458 (2006).
222. “Interpreting the Evidence on Life Cycle Skill Formation,” (with F. Cunha, L. Lochner and D. Masterov) in E. Hanushek and F. Welch, eds., *Handbook of the Economics of Education*, (North Holland: Amsterdam), pp. 697–812 (2006).
223. “Dynamic Discrete Choice and Dynamic Treatment Effects,” (with S. Navarro), *Journal of Econometrics*, **136**(2): 341-396, (February, 2007).
224. “Bias Corrected Estimates of GED Returns,” (with P. LaFontaine), *Journal of Labor Economics*, **24**(3): 661-700, (July, 2006).
225. “The Effects of Cognitive and Noncognitive Abilities on Labor Market Outcomes and Social Behavior,” (with J. Stixrud and S. Urzua), *Journal of Labor Economics*, **24**(3): 411-482, (July, 2006).
226. “Understanding Instrumental Variables in Models with Essential Heterogeneity,” (with S. Urzua and E. Vytlačil), *Review of Economics and Statistics*, **88**(3): 389-432, (2006).
227. “Economic, Neurobiological and Behavioral Perspectives on Building America’s Future Workforce” (with E. Knudsen, J. Cameron and J. Shonkoff) *World Economics*, **7**(3), (July-September, 2006).
228. “Familias y habilidades como determinantes de logros económicos y sociales (Family and Abilities as determinants of socio-economic success)” with S. Urzua, in *Familia y Felicidad: Un Circulo Virtuoso*, 2006, C. Larroulet and R. Camhi, eds. Santiago, Chile: Libertad y Desarrollo.
229. “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 Schmitt.” *Capitalism and Society*, **2**(1, Article 5). (2007).
230. “Econometric Evaluation of Social Programs, Part I : Causal Models, Structural Models and Econometric Policy Evaluation,” (with E. Vytlačil) in *Handbook of Econometrics, Volume 6B*, edited by J. Heckman and E. Leamer. Amsterdam: Elsevier, pp. 4779-4874. 2007.
231. “Econometric Evaluation of Social Programs, Part II: Using the Marginal Treatment Effect to Organize Alternative Economic Estimators to Evaluate Social Programs and to Forecast Their Effects in New Environments,” (with E. Vytlačil) in *Handbook of Econometrics, Volume 6B*, edited by J. Heckman and E. Leamer. Amsterdam: Elsevier, pp. 4875-5144. 2007.

232. “Econometric Evaluation of Social Programs, Part III: Distributional Treatment Effects, Dynamic Treatment Effects, Dynamic Discrete Choice, and General Equilibrium Policy Evaluation,” (with J. Abbring) in *Handbook of Econometrics, Volume 6B*, edited by J. Heckman and E. Leamer. Amsterdam: Elsevier, pp. 5145-5303. 2007.
233. “The Technology of Skill Formation,” (with F. Cunha), *American Economic Review*, **97**(2):31-47, (2007).
234. “The Economics, Technology and Neuroscience of Human Capability Formation,” *Proceedings of the National Academy of Sciences*, **104**(33): 13250-13255, (2007).
235. “The Productivity Argument for Investing in Young Children,” (with D. V. Masterov), *Review of Agricultural Economics*, **29**(3): 446-493, (2007).
236. “Identifying and Estimating the Distributions of *Ex Post* and *Ex Ante* Returns to Schooling,” (with F. Cunha), *Labour Economics*, **14**(6): 870-893 (2007).
237. “The Identification and Economic Content of Ordered Choice Models with Stochastic Thresholds,” (with F. Cunha and S. Navarro), *International Economic Review* **48**(4): 1273-1309 (2007).
238. “Use of Instrumental Variables in the Presence of Heterogeneity and Self-Selection: An Application to Treatments of Breast Cancer Patients,” (with A. Basu, S. Navarro-Lozano and S. Urzua), *Health Economics*, **16**(11): 1133-1157 (2007).
239. “Earnings Functions and Rates of Return,” (with L. Lochner and P. Todd), *Journal of Human Capital*, **2**(1): 1-31 (2008).
240. “Econometric Causality,” *International Statistical Review*, **76**(1): 1-27 (2008).
241. “An Assessment of Causal Inference in Smoking Initiation Research and a Framework for Future Research,” (with F. Flyer and C. Loughlin), *Economic Inquiry*, **46**(1): 37-44 (2008).
242. “The Roy Model,” (with C. Taber), in S. N. Durlauf and L. E. Blume (eds.), *New Palgrave Dictionary of Economics* (2 ed.) Palgrave Macmillan. 2008.
243. “A New Framework for the Analysis of Inequality,” (with F. Cunha), *Macroeconomic Dynamics*, **12**(Supplement 2), pp. 315-354. (2008).
244. “Formulating, Identifying and Estimating the Technology of Cognitive and Noncognitive Skill Formation,” (with F. Cunha), *Journal of Human Resources*, **43**(4): 738-782. (2008).
245. “The Economics and Psychology of Personality Traits,” (with L. Borghans, A. L. Duckworth, and B. ter Weel), *Journal of Human Resources*, **43**(4): 972-1059. (2008).
246. “Dynamic Policy Analysis,” (with J. H. Abbring), *The Econometrics of Panel Data* (3rd ed.), edited by L. Matyas and P. Sevestre, (Dordrecht: Springer), 2008.
247. “Identification of Treatment Effects Using Control Functions in Models with Continuous, Endogenous Treatment and Heterogeneous Effects,” (with J.P. Florens, C. Meghir and E. Vytlacil), *Econometrica*, **76**(5): 1191-1206, 2008.
248. “The Role of Income and Family Influence on Child Outcomes,” *Annals of the New York Academy of Sciences*, **1136**(Reducing the Impact of Poverty on Health and Human Development: Scientific Approaches): 307-323, 2008.

249. “Schools, Skills and Synapses,” *Economic Inquiry*, **46**(3): 289-324, 2008.
250. “The Principles Underlying Evaluation Estimators with an Application to Matching.” *Les Annales d’Economie et de Statistique*, **91-92**, pp. 9-74, (2008).
251. “Instrumental Variables in Models with Multiple Outcomes: The General Unordered Case,” (with S. Urzua and E. Vytlacil). *Les Annales d’Economie et de Statistique*, **91-92**, pp. 151-174, (2008).
252. “Gender Differences in Risk Aversion and Ambiguity Aversion,” (with L. Borghans, B. Golsteyn, and H. Meijers). *Journal of the European Economic Association*, **7**(2-3): 649-658, (2009).
253. “The Economics and Psychology of Inequality and Human Development,” (with F. Cunha). *Journal of the European Economic Association*, **7**(2-3): 320-364, (2009).
254. “The Many Contributions of Edmund Phelps: American Economic Association Luncheon Speech Honoring the 2006 Nobel Laureate in Economics,” *Capitalism and Society*, **3**(3): Article 2 (2009).
255. “Investing in Early Human Development: Timing and Economic Efficiency,” (with O. Doyle, C. Harmon and R. Tremblay). *Economics and Human Biology*, **7**(1):1-6. (2009).
256. “Comment on ‘Nietzsche and the Economics of Becoming,’ (by Richard Robb),” *Capitalism and Society*, **4**(1): Article 4. (2009).
257. “Lab Experiments are a Major Source of Knowledge in the Social Sciences,” (with A. Falk), *Science*, **326**(5952): 535–538, (2009).
258. “A Note on Adapting Propensity Score Matching and Selection Models to Choice Based Samples,” (with P. Todd). *Econometric Journal*, **12**(Supplement): S230–S234, (2009).
259. “Evaluating Marginal Policy Changes and the Average Effect of Treatment for Individuals at the Margin,” (with P. Carneiro and E. Vytlacil), *Econometrica*, **78**(1): 377–394, (2010).
260. “The Viability of the Welfare State,” in *Global Perspectives on the Rule of Law*, J. Heckman, R. Nelson and L. Cabatingan, eds. New York: Routledge, 2010. pp. 93–117.
261. “The Rate of the Return to the HighScope Perry Preschool Program,” (with S. H. Moon, R. Pinto, P. A. Saveljev, A. Yavitz). *Journal of Public Economics*, **94**: 114–128, (2010).
262. “The American High School Graduation Rate: Trends and Levels,” (with P. LaFontaine). *Review of Economics and Statistics*, **92**(2): 244–262, (2010).
263. “Comparing IV With Structural Models: What Simple IV Can and Cannot Identify,” (with S. Urzua). *Journal of Econometrics*, **156**(1), 27–37, (2010).
264. “Estimating the Technology of Cognitive and Noncognitive Skill Formation,” (with F. Cunha and S. Schennach). *Econometrica*, **78**(3), 883–931, (2010).
265. “The Effect of Prayer on God’s Attitude Toward Mankind,” *Economic Inquiry*, **48**(1), 234–235, (2010).
266. “The Education-Health Gradient,” (with G. Conti and S. Urzua). *American Economic Review: Papers & Proceedings*, **100**(2), 234–238, (May 2010).

267. “Building Bridges Between Structural and Program Evaluation Approaches to Evaluating Policy.” *Journal of Economic Literature*, **48**(2), 356–398, (June 2010).
268. “Testing the Correlated Random Coefficient Model,” (with D. Schmierer and S. Urzua). *Journal of Econometrics*, **158**, pp. 177–203, (2010).
269. “Analyzing Social Experiments as Implemented: A Reexamination of the Evidence From the HighScope Perry Preschool Program,” (with S. H. Moon, R. Pinto, P. A. Savelyev, and A. Q. Yavitz). *Quantitative Economics*, **1**(1), 1–46. (July 2010).
270. “Nonparametric Identification of Nonadditive Hedonic Models,” (with R.M. Matzkin and L. Nesheim). *Econometrica*, **78**(5), 1569–1591. (2010).
271. “Early Education and its Importance in Reducing Violence,” (with A. P. de Araújo, F. Cunha, and R. L. de Moura). In F. Giambiagi, R. Henriques, S. Pessoa, and F. Velloso (eds.), *Educação Básica no Brasil: Construindo um Futuro Melhor*, Chapter 5. Rio de Janeiro: Elsevier. pp. 95–116. (2009).
272. “Understanding the Early Origins of the Education-Health Gradient: A Framework that can also be Applied to Analyze Gene-Environment Interactions,” (with G. Conti). *Perspectives on Psychological Science*, **5**(5): 585–605. (2010).
273. “Tests of Hypotheses Arising in the Correlated Random Coefficient Model,” (with D. Schmierer). *Economic Modelling*, **27**(6): 1355-1367. (2010).
274. “The GED,” (with J. E. Humphries and N. S. Mader). In, E. A. Hanushek, S. Machin, and L. Wößmann (eds.) *Handbook of the Economics Of Education, Volume 3*. Amsterdam: North-Holland. pp. 423-484. (2011).
275. “Investing in Our Young People,” (with F. Cunha). In Arthur Reynolds, Arthur Rolnick, Michelle Englund, and Judy A. Temple, (eds.) *Cost-Effective Programs in Children’s First Decade: A Human Capital Integration*. New York: Cambridge University Press. pp. 381-414. (2010).
276. “A New Cost-Benefit and Rate of Return Analysis for the Perry Preschool Program: A Summary,” (with S.H. Moon, R. Pinto, P. Savelyev, and A. Yavitz). In Arthur Reynolds, Arthur Rolnick, Michelle Englund, and Judy A. Temple, (eds.) *Cost-Effective Programs in Children’s First Decade: A Human Capital Integration*. New York: Cambridge University Press. pp. 366-380. (2010).
277. “The Economics of Inequality: The Value of Early Childhood Education,” *American Educator*, Spring:31–47. (2011).
278. “The American Family in Black & White: A Post-Racial Strategy for Improving Skills to Promote Equality,” *Daedalus*, **140**(2):70–89. (2011).
279. “Editorial: Personality and Economics: Overview and Proposed Framework,” (with E. Ferguson and P. Corr), *Personality and Individual Differences*, **51**(3):201–209. (2011).
280. “Identification Problems in Personality Psychology,” (with L. Borghans, B. Golsteyn, and J.E. Humphries), *Personality and Individual Differences*, **51**(3):315–320. (2011).

281. “Estimating Marginal Returns to Education,” (with P. Carneiro, and E. Vytlačil), *American Economic Review*. **101**(6):2754-2871. (2011).
282. “Personality Psychology and Economics,” (with A. Duckworth, M. Almlund and T. Kautz). In E. Hanushek, S. Machin, and L. Woessman, eds., *Handbook of the Economics of Education*, Amsterdam: Elsevier. pp. 1-181. (2011).
283. “Editorial: The measurement of progress—some achievements and challenges.” (with P. Anand and M. Durand). *Journal of the Royal Statistical Society, A*, 174(4):851-855. (2011).
284. “Effective Child Development Strategies,” In E. Zigler, W. Gilliam, and W. S. Barnett, eds., *The Pre-K Debates: Current Controversies and Issues*. Baltimore MD: Paul H. Brookes Publishing Company, Inc. pp. 2-8. (2011).
285. “The Developmental Origins of Health.” *Health Economics*. **21**(1): 24-29. (2012).
286. “Hard Evidence on Soft Skills,” (with T. Kautz). Adam Smith Lecture, *Labour Economics*, **19**(4): 451-464. (2012).
287. “Primate Evidence on the Late Health Effects of Early-Life Adversity,”(with G. Conti, C. Hansman, M. Novak, A. Ruggiero, S. Suomi). *Proceedings of the National Academy of Sciences*, **109**(23): 8866-8871. (2012).
288. “Taking the Easy Way Out: How the GED Testing Program Induces Students to Drop Out.” (with P. LaFontaine, P. Rodríguez, and J. E. Humphries), *Journal of Labor Economics*, **30**(3): 495-520.(2012).
289. “An Effective Strategy for Promoting Social Mobility,” Lead Article, Forum on Promoting Social Mobility, *Boston Review*, September/October. (2012). Available online at: <http://www.bostonreview.net/forum/promoting-social-mobility-james-heckman>
290. “Transcriptional modulation of the developing immune system by early life social adversity,” (with S. Cole, G. Conti, J. Arevalo, A. Ruggiero, and S. Suomi). *Proceedings of the National Academy of Sciences*. 109(50): 20578–20583 (2012).
291. “The Economics of Child Well-Being,” (with G. Conti). *Handbook of Child Well-Being: Theories, Methods and Policies in Global Perspective*, Ben-Arieh, Asher, Casas, Ferran, Frones, Ivar. and Korbin, Jill E. (Eds.) Dordrecht: Springer-Verlag. pp. 363–402. (2013).
292. “The Developmental Approach to Child and Adult Health,” (with G. Conti). *Pediatrics*, **131**(Supplement 2): S133–S141. (2013).
293. “Understanding the Mechanisms through Which an Influential Early Childhood Program Boosted Adult Outcomes,” (with R. Pinto and P. Savelyev). *American Economic Review*, 103(6): 2052–2086 (2013).
294. “Treatment Effects: A Bayesian Perspective,” (with H. Lopes and R. Piatek). *Econometric Reviews: Bayesian Inference and Information: In Memory of Arnold Zellner*, 33(14):36–67. (2014).
295. “Estimating the Technology of Cognitive and Noncognitive Skill Formation: The Linear Case,” (with F. Cunha). In *Handbook of Developmental Systems Theory and Methodology*,

- P. C. M. Molenaar, R. M. Lerner and K. M. Newell, eds. London, UK: The Guilford Press. pp. 221-269. (2013).
296. "Older Siblings' Contributions to Young Child's Cognitive Skills," (with X. Dai). *Economic Modelling*, 35(September): 235-248. (2013).
 297. "Introduction," (with J. E. Humphries and T. Kautz). In *The Myth of Achievement Tests: The GED and the Role of Character in American Life*, edited by J. Heckman, J.E. Humphries and T. Kautz. Chicago, IL: University of Chicago Press. pp. xi-xiii. (2014).
 298. "Achievement Tests and the Role of Character in American Life," (with T. Kautz). In *The Myth of Achievement Tests: The GED and the Role of Character in American Life*, edited by J. Heckman, J.E. Humphries and T. Kautz. Chicago, IL: University of Chicago Press. pp. 3-56. (2014).
 299. "Who Are The GEDs?," (with J.E. Humphries and T. Kautz). In *The Myth of Achievement Tests: The GED and the Role of Character in American Life*, edited by J. Heckman, J.E. Humphries and T. Kautz. Chicago, IL: University of Chicago Press. pp. 139-170. (2014).
 300. "The Economic and Social Benefits of GED Certification," (with J.E. Humphries and T. Kautz). In *The Myth of Achievement Tests: The GED and the Role of Character in American Life*, edited by J. Heckman, J.E. Humphries and T. Kautz. Chicago, IL: University of Chicago Press. pp. 171-267. (2014).
 301. "The GED Testing Program Induces Students to Drop Out," (with J.E. Humphries, P. La-Fontaine, and P. Rodríguez). In *The Myth of Achievement Tests: The GED and the Role of Character in American Life*, edited by J. Heckman, J.E. Humphries and T. Kautz. Chicago, IL: University of Chicago Press. pp. 293-317. (2014).
 302. "Fostering and Measuring Skills: Interventions that Improve Character and Cognition," (with T. Kautz). In *The Myth of Achievement Tests: The GED and the Role of Character in American Life*, edited by J. Heckman, J.E. Humphries and T. Kautz. Chicago, IL: University of Chicago Press. pp. 341-430. (2014).
 303. "What Should be Done?," (with J.E. Humphries and T. Kautz). In *The Myth of Achievement Tests: The GED and the Role of Character in American Life*, edited by J. Heckman, J.E. Humphries and T. Kautz. Chicago, IL: University of Chicago Press. pp. 431-436. (2014).
 304. "Early Childhood Investments Substantially Boost Adult Health," (with F. Campbell, G. Conti, S. Moon, E. Pungello, R. Pinto, and Y. Pan). *Science*, 343(6178): 1478-1485. (2014).
 305. "Understanding Conscientiousness Across the Lifecourse: An Economic Perspective," (with G. Conti). *Developmental Psychology*, 50(5): 1451-1459. (2014).
 306. "Labor Market Returns to an Early Childhood Stimulation Intervention in Jamaica," (with P. Gertler, R. Pinto, A. Zanolini, C. Vermeerch, S. Walker, S. Chang, S. Grantham-McGregor). *Science*. **344**(6187): 998-1001. (2014).
 307. "The Economics of Human Development and Social Mobility," (with S. Mosso). *Annual Reviews of Economics*, 6: 689-733. (2014).
 308. "Fostering and Measuring Skills: Improving Cognitive and Non-Cognitive Skills to Promote Lifetime Success," (with T. Kautz, R. Diris, B. ter Weel, and L. Borghans). Report

- prepared for the Organisation of Economic Co-operation and Development, Paris. (2014). <http://www.oecd.org/edu/ceri/Fostering-and-Measuring-Skills-Improving-Cognitive-and-Non-Cognitive-Skills-to-Promote-Lifetime-Success.pdf>
309. “Human Capital, Economic Growth, and Inequality in China,” (with J. Yi). In *The Oxford Companion to the Economics of China on Human Capital*, Shenggen Fan, Ravi Kanbur, Shang-Jin Wei and Xiaobo Zhang, editors. Oxford, UK: Oxford University Press. pp. 459–464. (2014).
 310. “Bayesian Exploratory Factor Analysis,” (with G. Conti, S. Frühwirth-Schnatter, and R. Piatek). *Journal of Econometrics*, 183(1): 31–57. (2014).
 311. “Econometric Mediation Analyses: Identifying the Sources of Treatment Effects from Experimentally Estimated Production Technologies with Unmeasured and Mismeasured Inputs,” (with R. Pinto). *Econometric Reviews*, 34(1-2): 6-31. (2015).
 312. “Causal Analysis After Haavelmo,” (with R. Pinto). *Econometric Theory*, 31(01): 115-151 (2015).
 313. “The Generalized Roy Model and the Cost-Benefit Analysis of Social Programs,” (with P. Eisenhauer and E. Vytlacil). *Journal of Political Economy*, 123(2): 413-443. (2015).
 314. “Introduction to *The Distribution of Earnings and of Individual Output* by A. D. Roy,” (with M. Sattinger). *Economic Journal*, 125(583): 378402. (2015).
 315. “Introduction to *A Theory of the Allocation of Time* by Gary S. Becker,” *Economic Journal*, 125(583): 403-409. (2015).
 316. “Gary Becker: Model Economic Scientist,” *American Economic Review*, 105(5): 74-79. (2015).
 317. “Estimation of Dynamic Discrete Choice Models by Maximum Likelihood and the Simulated Method of Moments,” (with P. Eisenhauer and S. Mosso). *International Economic Review*, 56(2): 331–357. (2015).
 318. “Early Health Shocks, Intrahousehold Resource Allocation, and Child Outcomes,” (with J. Yi, J. Zhang, and G. Conti). *Economic Journal*, 125(588): F347-F371. (2015).
 319. “Intergenerational Long Term Effects of Preschool: Structural Estimates from a Discrete Dynamic Programming Model,” (with L. Raut). *Journal of Econometrics*, 191(1): 164-175. (2016).
 320. “Dynamic Treatment Effects,” (with J. E. Humphries and G. Veramendi). *Journal of Econometrics*, 191(2): 276-292. (2016).
 321. “Decomposing Trends in Inequality in Earnings into Forecastable and Uncertain Components,” (with F. Cunha). *Journal of Labor Economics*, 34(S2): S31-S65. (2016).
 322. “What grades and achievement tests measure,” (with L. Borghans, B. H. H. Golsteyn, and J. E. Humphries). *Proceedings of the National Academy of Sciences*, 113(47): 13354–13359. (2016).
 323. “Capabilities and Skills,” (with C. Corbin). *Journal of Human Capabilities and Development*, 17(3): 342-359. (2016).

324. “Early Childhood Education.” (with S. Elango, A. Hojman, and J.-L. García). In Moffitt, R. (Ed.), *Economics of Means-Tested Transfer Programs in the United States II*. Chapter 4, pp. 235-298. Chicago, IL: University of Chicago Press. (2016).
325. “The Effects of Two Influential Early Childhood Interventions on Health and Healthy Behaviors,” (with G. Conti and R. Pinto). *Economic Journal*, 126(Feature Issue): F28-F65. (2016).
326. “Symposium on Child Development and Parental Investment: Introduction,” (with M. Francesconi). *Economic Journal*, 126(Feature Issue): F1-F27. (2016).
327. “The Scandinavian Fantasy: The Sources of Intergenerational Mobility in Denmark and the U.S.” (with R. Landersø). *Scandinavian Journal of Economics*, 119(1): 178–230. (2017).
328. “Targeting Programmes Effectively,” (with J.-L. García). *Nature Human Behavior*, 1(1): Article 19. (2017).
329. “Inequality in Human Capital and Endogenous Credit Constraints,” (with R. Hai). *Review of Economic Dynamics*, 25(Special Issue on Human Capital and Inequality): 4–36. (2017).
330. “Returns to Education: The Causal Effects of Education on Earnings, Health, and Smoking,” (with J.E. Humphries and G. Veramendi). Forthcoming, *Journal of Political Economy*. (2017).
331. “Gender Differences in the Benefits of an Influential Early Childhood Program,” (with J.-L. García, D.-E. Leaf, and M.-J. Prados). Forthcoming, *European Economic Review*. (2017).
332. “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). Forthcoming *Research in Economics*. (2017).

Working Papers, Papers In Progress And Papers Under Review

1. “The Non-Market Benefits of Education and Ability,” (with J. E. Humphries and G. Veramendi). Under review, *Journal of Human Capital*. (2017).
2. “A Dynamic Model of Health, Addiction, Education, and Wealth,” (with R. Hai). Unpublished manuscript, University of Chicago, Department of Economics. (2017).
3. “Unordered Monotonicity,” (with R. Pinto). Revised and resubmitted, *Econometrica*. (2017).
4. “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).
5. “The Life-cycle Benefits of an Influential 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).
6. ”Intergenerational Effects of the Perry Preschool Project,” (with G. Karapakula and J. Pantano) Unpublished manuscript, University of Chicago, Center for the Economics of Human Development. (2017).

7. “Ordered Monotonicity,” (with R. Pinto). Unpublished manuscript, University of Chicago, Center for the Economics of Human Development. (2017).
8. “The Foundations of the Mincer Model,” (with J.E. Humphries and G. Veramendi). Under revision, *Journal of Human Capital*. (2016).
9. “Private Notes on Gary Becker,” IZA Discussion Paper No. 8200. Presented at “Honoring Gary S. Becker: A Conference,” University of Chicago Law School, Chicago, IL. February 11, 2011.
10. “Inference with Imperfect Randomization: The Case of the Perry Preschool Program,” (with R. Pinto, A. M. Shaikh, and A. Yavitz). Unpublished manuscript, University of Chicago, Department of Economics, 2009. Under revision, *Econometrica*, 2011.
11. “Matching on Proxy Variables,” (with S. Schennach and B. Williams). Unpublished manuscript, University of Chicago, Department of Economics, 2011.
12. “Policies to Promote Growth and Economic Efficiency in Mexico,” (with J. Arias, O. Azuara, and P. Bernal). NBER Working Paper No. w16554. (2010).
13. “Towards Greater Understanding of Early-Adult Risky Behaviors: Cognitive Ability, Personality, and Schooling Effects.” (with G. Conti, H. Lopes, and R. Pinto). Unpublished manuscript, University of Chicago, Department of Economics, 2009.
14. “Understanding the GED,” Albert Rees Memorial Lecture, Society of Labor Economists Annual Meetings, May 9, 2008.
15. “The Option Value of Educational Choices and the Rate of Return to Educational Choices,” Cowles Foundation Structural Conference, Yale University. June 13, 2008. Under revision.
16. “The Productivity Argument for Investing in Young Children,” (with D. Masterov), Early Childhood Research Collaborative Discussion Paper, August, 2006.
17. “The Evolution of Inequality, Heterogeneity and Uncertainty in Labor Earnings in the U.S. Economy,” (with F. Cunha), NBER Working Paper No. 13526, October, 2007.
18. “Interpreting the Evidence of Family Influence on Child Development,” (with P. Carneiro and F. Cunha), unpublished, 2004.
19. “Understanding The Contribution of Legislation, Social Activism, Markets and Choice To The Economic Progress of African Americans in the Twentieth Century,” (with Petra Todd), unpublished manuscript, University of Chicago, 2003.
20. “The GED is a Mixed Signal: The Effect of Cognitive and Noncognitive Skills on Human Capital and Labor Market Outcomes,” (with Y. Rubinstein and J.Hsee), June, 2001, Revised in April 2002.
21. “Using the EITC to Test Between Two Competing Models of Skill Formation,” (with L. Lochner), unpublished manuscript, University of Chicago, 2000.

22. "Semiparametric Program Evaluation: Lessons From An Evaluation of a Norwegian Training Program," (with A. Aakvik and E. Vytlačil) unpublished manuscript, University of Chicago, 1999.
23. "The Case for Simple Estimators: Experimental Evidence From the National JTPA Study," unpublished manuscript, University of Chicago, November 1993.
24. "Alternative Approaches To The Evaluation of Social Programs: Econometric and Experimental Methods," Barcelona Lecture, Sixth World Meetings of The Econometric Society, 1990.
25. "A Sequential Model of Schooling," (with S. Cameron), Yale, 1990.
26. "The Empirical Content of Alternative Models of Labor Earnings," unpublished, 1978, revised 1982.
27. "Three State Search Models," (with T. Coleman), unpublished, April 1981.
28. "New Evidence on the Assertion that the Government has Shifted the Relative Demand Curve For Labor In Favor of Blacks," (with R. Butler), June 1978.
29. "Shadow Prices, Market Wages and Labor Supply Revisited: Some Corrections and Computational Simplifications," mimeo (June 1975).
30. "Dynamic Models of Female Labor Supply," unpublished, University of Chicago, March 1977.
31. "Internal Adjustment Costs And The Neoclassical Theory of the Firm," (with V. K. Chetty), 1971.