

Non-Cognitive Skills and Self Employment

Nicholas W. Papageorge¹ and Robert A. Moffitt²

A burgeoning literature in economics incorporates non-cognitive skills and personality traits into economic models of rational decision-making (Almlund et al., 2011). Underlying this scholarly interest are consistent findings that non-cognitive skills are highly predictive of economically relevant outcomes, but are also somewhat malleable, at least until about age 30, which suggests the possibility that welfare-enhancing interventions could be designed to modify them.³ In economic research, non-cognitive skills have been linked to schooling, employment, health, marriage, fertility and earnings.

Recent work has connected non-cognitive skills and personality traits to self employment. This work is motivated by the possibility of linking successful entrepreneurship to a set of measurable and modifiable factors. One conclusion is that non-cognitive skills capturing extroversion and sociability predict longer firm tenure and higher returns to self employment.⁴

The proposed research will add to the literature linking self employment and non-cognitive skills. Our key departure from earlier work is that we will consider two skills that are measured during childhood and that capture maladjustment and misbehavior. The two skills are referred to by developmental psychologists as *internalizing behavior* and *externalizing behavior*. The first embodies social withdrawnness, unforthcoming-ness, depression and social anxiety (Duncan and Magnuson, 2011; Duncan and Dunifon, 2012). The second is related to aggression, hostility and resistance to authority (Aizer, 2008). Both skills have begun to attract the attention of economists. The reason is that, like non-cognitive skills that are typically measured during adulthood (e.g., the “Big 5” personality traits), these skills have been shown to predict a variety of economically relevant adult outcomes (Heckman, Pinto, and Savelyev, 2013).

For the proposed project, our focus on these skills is motivated by recent findings using a cohort of British citizens. In particular, Papageorge, Ronda, and Zheng (2014) show that one of the two skills, *externalizing behavior*, though it lowers schooling attainment and raises the likelihood of delinquency and police involvement, has a positive impact on earnings and also predicts entry into self employment. These patterns not only raise the possibility of identifying entrepreneurs at very young ages. They also suggest that a factor that drives entrepreneurship is penalized in school.⁵

Our main dependent variable of interest will be entry into self-employment as a function of relative potential wage and self-employment earnings, cognitive skills, non-cognitive skills, and schooling (and other control variables). Non-cognitive skills can affect entry both directly and indirectly through relative earnings, and non-cognitive skills will include both

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³For a discussion of policies that would modify non-cognitive skills, see Heckman and Kautz (2013).

⁴Contributions connecting self employment to non-cognitive skills include Asoni (2010), Hartog, Van Praag, and Van Der Sluis (2010), Caliendo, Fossen, and Kritikos (2011), Levine and Rubinstein (2013) and Hamilton, Pande, and Papageorge (2014).

⁵An alternative possibility is that externalizing behavior leads to higher rates of entrepreneurship *because* it lowers schooling attainment since lack of qualifications can make it difficult to get a well-paying job.

internalizing and externalizing measures. Relative earnings and schooling will be considered potentially endogenous. The full model we envision will be a 3-equation econometric model with the main equation for entry into self employment, and auxiliary equations for relative earnings (or self-employment and wage separately) and schooling.

We will estimate the model separately using both British and U.S. data. The British data set we will use is the National Childhood Development Study (NCDS) and the U.S. data set is the 1997 National Longitudinal Survey of Youth (NLSY97). Both data sets contain measures of externalizing and internalizing behaviors along with measures of cognition.⁶ They also contain information on schooling, self employment and earnings. The NCDS does not include measures of standard preferences, like risk-aversion, though it does follow a cohort born in 1958 so that we can observe the impact of childhood non-cognitive skills over a long horizon. In contrast, the NLSY97, studies younger individuals. However, it includes more proxies of standard preferences, such as risk aversion, which can be used as controls. This is important as research relating non-cognitive skills to standard preferences such as risk aversion is incomplete. Finally, both data sets contain a number of socioeconomic factors, which can be used to study heterogeneity in the effects of the skills on self employment outcomes.

The proposed research contributes to two literatures. Motivated by the role that small business ventures play in driving innovation and economic growth, economists have studied what types of individuals become entrepreneurs and, among those who do, which ones succeed. Earlier work has considered barriers to entry like credit constraints (Evans and Jovanovic, 1989), the impact of subsidies (Hombert et al., 2013), the role of factors affecting access to paid employment, such as race or immigration status (Fairlie and Meyer, 1996) and, more recently, the impact of non-cognitive skill. The proposed project will add to this literature by assessing how individuals, distinguished by non-cognitive skills measured during childhood, enter self employment.

A second literature to which we contribute studies the economic importance of non-cognitive skill. Much of this work can be traced to Heckman and Rubinstein (2001), who study non-cognition in the context of high school dropouts.⁷ More recent work has shown that some non-cognitive skills could have positive or negative effects depending on the individual, sector or scenario. For example, Lundberg (2012), shows that the returns to personality factors vary both by tenure and by educational group, suggesting that different personality traits may enhance productivity in some occupations, but not others.⁸ In the context of self employment, Hamilton, Pande, and Papageorge (2014) show that the personality traits that lead to a preference for self employment also lead to low relative productivity in self employment. Relatedly, the proposed project will assess the different effects of externalizing behavior on schooling, the decision to start a business and income conditional on self employment.

⁶See Agan (2011) for an example using the NLSY97 to relate economic outcomes to externalizing, internalizing and cognition. Abe, Betesh, and Datta (2010) discuss use of the NLSY97 for studying self employment.

⁷Borghans et al. (2008) provide an excellent summary of the state of this line of research.

⁸See also Almlund et al. (2011), who stress the importance of accounting for varying returns to non-cognitive skills and Cattani (2011), who develops this point for traits related to an individual's self-confidence and attitudes towards women.

References

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- Aizer, Anna. 2008. “Neighborhood Violence and Urban Youth.” NBER Working Paper.
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- Asoni, Andrea. 2010. “What Drives Entrepreneurship?” Mimeo, University of Chicago.
- Borghans, Lex, Angela Lee Duckworth, James J Heckman, and Bas Ter Weel. 2008. “The Economics and Psychology of Personality Traits.” *Journal of Human Resources* 43 (4):972–1059.
- Caliendo, Marco, Frank Fossen, and Alexander Kritikos. 2011. “Personality Characteristics and the Decision to Become and Stay Self-Employed.” DIW Berlin Discussion Paper.
- Cattan, Sarah. 2011. “The Role of Workers’ Traits in Explaining the Early Career Gender Wage Gap.” Mimeo, University of Chicago.
- Duncan, Greg J and Rachel Dunifon. 2012. “Introduction to ‘Soft-Skills’ and Long-Run Labor Market Success.” *Research in Labor Economics* 35:309–312.
- Duncan, Greg J and Katherine Magnuson. 2011. “The Nature and Impact of Early Achievement Skills, Attention Skills, and Behavior Problems.” In *Whither Opportunity? Rising Inequality, Schools, and Children’s Life Chances*. Russell Sage Foundation, 47–69.
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- Fairlie, Robert W and Bruce D Meyer. 1996. “Ethnic and Racial Self-Employment Differences and Possible Explanations.” *Journal of Human Resources* 31 (4):757–793.
- Hamilton, Barton H, Nidhi Pande, and Nicholas W Papageorge. 2014. “The Right Stuff? Personality and Entrepreneurship.” Mimeo, Johns Hopkins University.
- Hartog, Joop, Mirjam Van Praag, and Justin Van Der Sluis. 2010. “If You Are So Smart, Why Aren’t You an Entrepreneur? Returns to Cognitive and Social Ability: Entrepreneurs versus Employees.” *Journal of Economics & Management Strategy* 19 (4):947–989.
- Heckman, James, Rodrigo Pinto, and Peter Savelyev. 2013. “Understanding the Mechanisms through Which an Influential Early Childhood Program Boosted Adult Outcomes.” *American Economic Review* 103 (6):2052–86.
- Heckman, James J and Tim Kautz. 2013. “Fostering and Measuring Skills: Interventions that Improve Character and Cognition.” NBER working paper.
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- Hombert, Johan, Antoinette Schoar, David Sraer, and David Thesmar. 2013. “Can unemployment insurance spur entrepreneurial activity? Evidence from France.” *Unpublished, HEC Paris* 4 (7).
- Levine, Ross and Yona Rubinstein. 2013. “Smart and Illicit: Who Becomes an Entrepreneur and Does it Pay?” NBER working paper.
- Lundberg, Shelly. 2012. “Personality and Marital Surplus.” *IZA Journal of Labor Economics* 1 (1):1–21.
- Papageorge, Nicholas W, Victor Ronda, and Yu Zheng. 2014. “The Economic Value of *Breaking Bad*: Misbehavior, Schooling and the Labor Market.” mimeo, Johns Hopkins University.

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ACADEMIC APPOINTMENTS

Visiting Faculty, University College London Fall 2014
Assistant Professor of Economics, Johns Hopkins University 2012-present

EDUCATION

Ph.D. in Economics, Washington University in St. Louis 2012
M.A. in Economics and Management, Die Humboldt Univ. zu Berlin 2005
B.A. in Economics, University of Chicago 2000

INTERESTS

Health, Innovation, Entrepreneurship, Labor, Education, Structural Micro, Experiments

RESEARCH IN PROGRESS

1. Health and the Option Value of Medical Innovation (with Tat Y. Chan and Barton H. Hamilton) [Revision requested at *The Review of Economic Studies*]
2. How Medical Innovation Creates Value: Health, Human Capital and the Labor Market [Revision requested at *Quantitative Economics*]
3. The Right Stuff? Personality and Entrepreneurship (with Barton H. Hamilton and Nidhi Pande) [submitted]
4. The Economic Value of Breaking Bad: Misbehavior, Schooling and the Labor Market (with Victor Ronda and Yu Zheng)
5. Health, Human Capital and Domestic Violence (with Gwyn Pauley, Mardge Cohen, Tracey Wilson, Barton H. Hamilton and Robert Pollak)
6. Entertaining Malthus: Bread, Circuses and Economic Growth (with Lemin Wu, Rohan Dutta and David Levine)
7. We Should *Totally* Open a Restaurant: Performance Uncertainty and Optimistic Beliefs (with Stephanie A. Heger)
8. How Expectations about the Returns to College Affect Violent Behavior: An Experimental Approach (with Jacinda Dariotis and Gizem Kosar)
9. Trading Up: Medical Innovation and Monogamy among Gay Men (with Alanna Bjorklund and Emmanuel Garcia)

PRESENTATIONS

Upcoming:

UCLA, Los Angeles, CA	May 2015
Federal Trade Commission, Washington, DC	May. 2015
Georgetown, Washington, DC	March 2015
Baylor University, Waco, Texas,	March 2015

Past:

AEA Meetings, Boston, MA	Jan. 2015
Brookings Institute, Washington, DC	Dec. 2014
Royal Holloway London, London, GB	Nov. 2014
Cambridge University, Cambridge, GB	Nov. 2014
Imperial College London, London, GB	Nov. 2014
University of Essex, Essex, GB	Oct. 2014
City University of London, London, GB	Oct. 2014
Tinbergen Institute, Amsterdam, The Netherlands	Oct. 2014
University of Toulouse, Toulouse, France	Sep. 2014
University College London, London, GB	Sep. 2014
Hong Kong University of Science and Technology, HK, PRC	Sep. 2014
Chinese University of Hong Kong, HK, PRC	Sep. 2014
City University of Hong Kong, Hong Kong, PRC	Sep. 2014
European Meetings of Econometric Society, U. of Toulouse, Toulouse, France	Aug. 2014
N.A.S.M. of the Econometric Society, U. of Minn., Minneapolis, MN	June 2014
6th Annual Meeting on the Economics of Risky Behaviors, Medellin, Colombia	May 2014
SOLE, Washington, DC	May 2014
Dept. of Economics, University of Pennsylvania, Philadelphia, PA	April 2014
Dept. of Economics, New York University, New York, NY	April 2014
Dept. of Economics, Duke University, Durham, NC	Nov. 2013
New Directions in Microeconomics, Cal-Tech, Pasadena, CA	Nov. 2013
Dept. of Economics, UNC-Chapel Hill, Chapel Hill, NC	Nov. 2013
N.A.S.M. of the Econometric Society, USC, Los Angeles, CA	June 2013
Economics Demography Workshop, New Orleans, LA	Apr 2013
Annual Health Econometrics Workshop, New York, NY	Oct 2012
N.A.S.M. of the Econometric Society, Northwestern University, Chicago, IL	June 2012
SOLE, Chicago, IL	May 2012
CIE, ITAM, Mexico City, Mexico	April 2012
Roundtable on Engineering Entrepreneurship Research, Georgia Tech, Atlanta, GA	Nov. 2011
CRES Seminar in Applied Economics, Washington University, St. Louis, MO	Sep. 2011
Health and Human Capital Conference, ZEW, Mannheim, Germany	July 2011
N.A.S.M. of the Econometric Society, Washington University, St. Louis, MO	June 2011
Population Association of America Annual Meeting, Washington, D.C.	March 2011

GRANTS

\$10,020 for “Exploring How Expectations Affect Health-Related Behaviors: Integrating Economic and Social Science Perspectives” (joint with Jacinda Dariotis) from the Hopkins Population Center via NICHD grant #R24HD042854

TEACHING

Johns Hopkins University:

2013-2014

The Social Policy Implications of Behavioral Economics [upper level undergraduate]

Topics in Advanced Microeconometrics [upper-level graduate]

2012-2013

The Social Policy Implications of Behavioral Economics [upper level undergraduate]

Topics in Advanced Microeconometrics [upper-level graduate]

Olin Business School:

2011-2012

Managerial Economics [MBA]

ADMINISTRATIVE ASSIGNMENTS

Johns Hopkins University:

2013-2014

Organizer: Ely Lecture Series (speaker: Charles Manski)

Organizer: Applied Micro Workshop

2012-2013

Applied Microeconomics Search Committee

Microeconomic Theory Search Committee

REFEREEING

2012-2013

Health Economics, Journal of Human Resources, Quantitative Economics, Economic Inquiry, Review of Economic Dynamics

POLICY & PUBLIC SERVICE

2012-2013

Participant, The Aspen Institute Convening of Experts to Address the HIV Epidemic Among DC Youth

OTHER EXPERIENCE

Teach for America Corps Member (Bilingual: Spanish), New York City Sep. 2000-June 2002

MEMBERSHIPS

Econometric Society

SKILLS AND LANGUAGES

English (native), Spanish (fluent), German (fluent), French (passable)

January, 2015

CURRICULUM VITAE

Name: Robert A. Moffitt Date of Birth: August 10, 1948

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Education:

1970 B.A., Economics, Rice University
1972 M.A., Economics, Brown University
1975 Ph.D., Economics, Brown University

Positions:

2012- Chair, Department of Economics, Johns Hopkins University
2004- Krieger-Eisenhower Professor, Johns Hopkins University
1998- Faculty Affiliate, Institute for Policy Studies, Johns Hopkins University
1995- Professor, Department of Population, Family, and Reproductive Health, School of Public Health, Johns Hopkins University (joint appt)

1995-2003 Professor, Department of Economics, Johns Hopkins University
1987-1995 Professor, Department of Economics, Brown University
1994-1995 Harrison S. Kravis University Professor, Brown University
1984-1986 Associate Professor, Department of Economics, Brown University
1983-1984 Associate Professor, Department of Economics, Rutgers University
1982-1983 Visiting Assistant Professor, Department of Economics, University of Wisconsin
1981-1982 Visiting Assistant Professor, Department of Economics, University of Maryland
1978-1983 Assistant Professor, Department of Economics, Rutgers University
1975-1978 Research Economist and Co-Principal Investigator of the Gary Negative Income Tax Experiment, Mathematica, Princeton

1977 Lecturer, School of Public & Urban Policy, University of Pennsylvania

Professional Activities:

2015- Board of Directors, Consortium of Social Science Associations (COSSA)
2014- Member and Chair, American Economic Association Committee on Economic Statistics
2013- Member, National Academy of Social Insurance
2013-2015 President-Elect, President, and Past President, Population Association of America
2013-2014 Advisory Board, Review of Economics and Statistics
2012- National Advisory Committee to Poverty Centers, Department of Health and Human Services
2008-2013 Member and Chair, Committee on Government Relations, American Economic Association

2004- International Research Affiliate, Institute for Fiscal Studies, London
2003- Senior Research Affiliate, National Poverty Center, University of Michigan
1995- Associate, Johns Hopkins Population Center
1987- Research Associate, National Bureau of Economic Research
1987- Affiliate, Institute for Research on Poverty, University of Wisconsin
2008-2009 Vice-President, Population Association of America
2005-2007 Editorial Board, Demography
2005-2008 Clifford Clogg Award Committee, Population Association of America
2004-2011 Advisory Committee, University of Wisconsin Institute for Research on Poverty
2004-2010 Chief Editor, American Economic Review
2004-2007 Irene Taeuber Committee, Population Association of America
2004-2006 American Economic Association Appointee to the Census Advisory Committee
2004 Committee on Nominations, Population Association of America
2004 NSF Committee of Visitors, Evaluator of MMS Program
2001-2003 Board of Directors, Population Association of America
1999-2001 Member, Economics Panel, National Science Foundation
1999-2001 Chair and Member, Panel on Data and Methods for Evaluating the Effects of Changes in Social Programs, National Research Council, National Academy of Sciences
1996-2003 Senior Associate, Chicago-Northwestern Joint Center on Poverty Research
1996-2003 Member, External Advisory Committee, Chicago-Northwestern Joint Center on Poverty Research
1996-2002 Member, Commission on Behavioral and Social Sciences and Education, National Research Council, National Academy of Sciences
1996-2002 Member, Social Science Study Section, National Institutes of Health
1995-2001 Associate Editor, American Economic Review
1994-1997 Member, Committee on Population, National Research Council, National Academy of Sciences
1993-1995 Deputy Editor, Demography
1993-1995 Member, Advisory Panel on Statistics of Income, IRS
1992-1998 Member, Board of Overseers, Michigan Panel Study on Income Dynamics
1991-1998 Coeditor, Review of Economics and Statistics
1991-1997 Associate Editor, Labour Economics
1989-1991 Member, Panel on Microsimulation Models, National Research Council, National Academy of Sciences
1988-1997 Associate Editor, Journal of Public Economics
1988-1991 Chief Editor, Journal of Human Resources
1988-1996 Member and Chair, Technical Review Committee, National Longitudinal Surveys, Bureau of Labor Statistics
1987-2006 Associate Editor, Journal of Population Economics
1987-1992 Associate Editor, Journal of Business and Economic Statistics
1986-1991 Associate Editor, Review of Economics and Statistics
1985-1988 Coeditor, Journal of Human Resources
1985-1988 Member, Advisory Committee on Survey of Income and Program Participation, Social Science Research Council
1984-1995 Faculty Associate, Population Studies and Training Center, Brown University

Awards and Honors:

2013 Elected President, Population Association of America

2012	Fellow, American Academy of Arts and Sciences
2009	Guggenheim Fellowship
2005	Elected Fellow, Society of Labor Economists
2004	Robert J. Lampman Memorial Lecture, University of Wisconsin
2004	Recipient of the Society for Research on Adolescence Social Policy Award for the Best Journal Article (“Mother’s Transitions from Welfare to Work and the Well-Being of Preschoolers and Adolescents.” <u>Science</u> , March 2003, joint with P. L. Chase-Lansdale et al.)
2001	MERIT Award, National Institutes of Health
2001	National Associate, National Academy of Sciences
1997	Fellow, Econometric Society
1995	Benjamin Meaker Fellow, University of Bristol
1996-	<u>Who's Who in Economics</u>
1991	John W. Kendrick Prize for outstanding contribution, <u>Review of Income and Wealth</u> .

Areas of Research Specialization:

Labor economics, econometrics, public economics, population economics, economics of welfare programs

Professional Associations:

American Economic Association, Econometric Society, American Statistical Association, Population Association of America, Association of Public Policy Analysis and Management

Publications:

The U.S. Safety Net and Work Incentives. Journal of Policy Analysis and Management, forthcoming.

The Deserving Poor, the Family, and the U.S. Welfare System. Demography, forthcoming

The War on Poverty: Measurement, Trends, and Policy. Journal of Policy Analysis and Management, forthcoming (with R. Blank, R. Haveman, T. Smeeding, and G. Wallace)

Welfare and Work. In International Encyclopedia of Social and Behavioral Sciences, 2nd Ed., ed. J. Wright, 2014.

Unemployment Benefits and Unemployment. IZA World of Labor. May 2014.

The Great Recession and the Social Safety Net. Annals of the American Academy of Political and Social Science, November 2013.

An Assessment of the Effectiveness of Anti-Poverty Programs in the United States. In Oxford Handbook of the Economics of Poverty, ed. P. Jefferson, Oxford University Press, 2012 (with Y. Ben-Shalom and J.K. Scholz).

Preface to Reprint of “The Effect of Tax and Transfer Programs on Labor Supply: The Evidence from the Income Maintenance Experiments.” In Research in Labor Economics: Thirty-Fifth Anniversary Edition, eds. S. Polachek and K. Tatsiramos, Emerald Press, 2012.

- The Reversal of the Employment-Population Ratio in the 2000s: Facts and Explanations.” Brookings Papers on Economic Activity, Fall 2012.
- Trends in the Transitory Variance of Male Earnings in the U.S., 1970-2004. Journal of Human Resources, Winter, 2012.
- Trends in the Covariance Structure of Earnings in the U.S., 1969-1987. Journal of Economic Inequality, August 2011 (with P. Gottschalk). (“Rediscovered Classics” series)
- Trends in the Level and Distribution of Income Support. Tax Policy and the Economy, ed. Jeffrey Brown. NBER, Fall 2010 (with J.K. Scholz).
- Make Research Data Public? Not Always so Simple: A Dialogue for Statisticians and Science Editors. Statistical Science. 2010 (with N. Sedransk, L. Young, K. Kelner, A. Thakar, J. Raddick, E. Ungvarsky, R. Carlson, R. Apweiler, L. Cox, D. Nolan, K. Soper, and C. Spiegelman).
- The Rising Instability of US Earnings. Journal of Economic Perspectives, Fall 2009 (with P. Gottschalk).
- Estimating Marginal Treatment Effects in Heterogeneous Populations, Annales d’Economie et de Statistique, Special Issue on Econometrics of Evaluation, Fall 2009.
- Commentary on Brewer, Saez, and Shephard, “Optimal Household Labor Income Tax and Transfer Programs: An Application to the UK”. In The Mirrlees Review: Reforming the Tax System for the 21st Century, Institute for Fiscal Studies, UK, November 2009.
- How Families are Doing Nine Years After Welfare Reform: 2005 Evidence from the Three-City Study. In Welfare Reform and Its Long-Term Consequences for America’s Poor, ed. J. Ziliak. Cambridge University Press, 2009 (with B.Frogner and D. Ribar)
- Economics and the Earned Income Tax Credit. In Better Living Through Economics: How Economic Research Improves Our Lives, ed. J. Siegfried, Harvard University Press, 2009.
- Variable Effects of Earnings Volatility on Food Stamp Participation. In Volatility and the Food Stamp Program, ed. D. Joliffe and J. Ziliak, Upjohn Institute Press, 2009.
- Trends in Income Support (with John Karl Scholz and Ben Cowan). In Changing Poverty, Changing Policies, eds. M. Cancian and S. Danziger, Russell Sage Foundation, 2009.
- Welfare Reform in the Mid-2000s: How African-American and Hispanic Families in Three Cities are Faring.” Annals of the American Academy of Political and Social Science, January 2009 (with A.Cherlin, B.Frogner, and D.Ribar)
- Issues in the Estimation of Causal Effects in Population Research, With an Application to the Effects of Teenage Childbearing. In Causal Analysis in Population Studies: Concepts, Methods, Applications, ed. H. Engelhardt. Springer, 2008.
- Welfare Reform: The US Experience. Swedish Economic Policy Review, 2008.

Anti-Poverty Programs in the United States. The New Palgrave, 2nd Ed., eds. L.Blume and S.Durlauf, 2008.

The Income Maintenance Experiments. International Encyclopedia of the Social Sciences, ed. William A. Darity, 2008.

Econometric Methods for Data Combination, Handbook of Econometrics, Vol. 6B, eds. J. Heckman and E. Leamer (with G. Ridder), 2007.

Handedness and Earnings, Laterality, 12(2), 2007 (with J. Harrington and C. Ruebeck)

Welfare Work Requirements with Paternalistic Government Preferences. Economic Journal, November, 2006.

Does It Pay to Move from Welfare to Work? Journal of Policy Analysis and Management, Spring 2005 (with K. Winder) (Reprinted in Poverty, Welfare, and Public Policy: Journal of Policy Analysis and Management Classics Series, ed. D. Besharov, Wiley-Blackwell, 2010).

Remarks on the Analysis of Causal Relationships in Population Research. Demography, February 2005.

The Idea of a Negative Income Tax: Past, Present, and Future. Focus, Summer 2004.

Symposium on the Econometrics of Matching. Review of Economics and Statistics, February 2004 (guest editor).

The Role of Randomized Field Trials in Social Science Research: A Perspective from Evaluations of Reforms of Social Welfare Programs. American Behavioral Scientist, January 2004.

The Role of Non-Financial Factors in Exit and Entry from the TANF Program. Journal of Human Resources, Fall 2003.

Causal Analysis in Population Research: An Economist's Perspective. Population and Development Review September 2003.

Special Issue on Empirical Analysis of Social Interactions. Journal of Applied Econometrics September-October 2003 (guest editor, with S. Durlauf)

The Negative Income Tax and the Evolution of U.S. Welfare Policy. Journal of Economic Perspectives, Summer 2003.

Means-Tested Transfer Programs in the U.S. (editor), University of Chicago Press and NBER, 2003.

The Temporary Assistance for Needy Families Program. In Means-Tested Transfer Programs in the U.S., ed. R. Moffitt, University of Chicago Press and NBER, 2003.

Mother's Transitions from Welfare to Work and the Well-Being of Preschoolers and Adolescents. Science, March 7, 2003 (with P.L. Chase-Lansdale et al.)

Trends in the Transitory Variance of Earnings in the United States. Economic Journal, March 2002 (with P. Gottschalk)

- Welfare Programs and Labor Supply. In Handbook of Public Economics: Vol. 4, eds. A. Auerbach and M. Feldstein, 2002.
- Productivity Growth and the Phillips Curve. In The Roaring Nineties: Can Full Employment Be Sustained?, eds. A. Krueger and R. Solow, Russell Sage Foundation, 2002 (with L. Ball).
- Economic Effects of Means-Tested Transfers in the U.S. Tax Policy and the Economy, 2002.
- From Welfare to Work: What the Evidence Shows. In Welfare Reform and Beyond, eds. I. Sawhill, R. Weaver, R. Haskins, and A. Kane. Washington: Brookings, 2002.
- Evaluating Welfare Reform in an Era of Transition, ed. (with M. Ver Ploeg), National Academy Press, 2001.
- Studies of Welfare Populations: Data Collection and Research Issues, ed. (with M. Ver Ploeg), National Academy Press, 2001.
- Experience-Based Measures of Heterogeneity in the Welfare Caseload. In Studies of Welfare Populations: Data Collection and Research Issues, ed. R. Moffitt and M. Ver Ploeg), National Academy Press, 2001.
- Welfare Benefits and Female Headship in U.S. Time Series. In Out-of-Wedlock: Causes and Consequences of Nonmarital Fertility, eds. L. Wu and B. Wolfe. Russell Sage Foundation, 2001.
- Changing Caseloads: Macro Influences and Micro Composition. Economic Policy Review, Federal Reserve Bank of New York, September 2001 (with D. Stevens).
- Special Issue on Data Quality. Journal of Human Resources, Summer 2001 (guest editor, with R.Kulka, K.Wolpin, and C.Flinn)
- Comment on J. Angrist, 'Estimation of Limited Dependent Variable Models with Dummy Endogenous Regressors: Simple Strategies for Empirical Practice. Journal of Business and Economic Statistics, January 2001.
- Ethnic and Racial Differences in Welfare Receipt in the United States. In America Becoming: Racial Trends and their Consequences, eds. N. Smelser, W.J. Wilson, and F. Mitchell. National Academy Press, 2001 (with P. Gottschalk).
- Policy Interventions, Low-Level Equilibria, and Social Interactions. In Social Dynamics, eds. S. Durlauf and P. Young. MIT Press, 2001.
- Demographic Change and Public Assistance Expenditures. In Demographic Change and Fiscal Policy, eds. A. Auerbach and R. Lee. Cambridge University Press, 2001.
- Job Instability and Insecurity for Males and Females in the 1980s and 1990s. In On the Job: Is Long-Term Employment a Thing of the Past?, ed. D. Neumark. New York: Russell Sage, 2000 (with P. Gottschalk).
- Taxation and the Labor Supply Decision of the Affluent. In Does Atlas Shrug? Economic Consequences of Taxing the Rich, ed. J. Slemrod. Russell Sage Foundation and Harvard University Press, 2000 (with M. Wilhelm)

- Vouchers: Lessons from the Food Stamp Program. In Vouchers and the Provision of Public Services, eds. E. Steuerle, V. Ooms, G. Peterson, and R. Reischauer. Brookings Institution CED, and Urban Institute, 2000.
- Time Limits. In Finding Jobs: Work and Welfare Reform, eds. R. Blank and D. Card. Russell Sage Foundation, 2000 (with LaDonna Pavetti).
- Female Wages, Male Wages, and the Economic Model of Marriage: The Basic Evidence. In The Ties That Bind: Perspectives on Marriage and Cohabitation, eds. L. Waite, C. Bachrach, M. Hindin, E. Thomson, and A. Thornton. Aldine, 2000.
- Welfare Benefits and Female Headship in U.S. Time Series. American Economic Review, May 2000.
- Evaluating Comprehensive State Welfare Reforms: The Wisconsin Works Program, editor with B. Barnow and T. Kaplan. Rockefeller Institute Press, 2000.
- Perspectives on the Qualitative-Quantitative Divide. Poverty Research News, Joint Center for Poverty Research, Northwestern University and the University of Chicago, Jan/Feb 2000.
- Explaining Welfare Reform: Public Choice and the Labor Market. International Tax and Public Finance, 1999.
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