

Phi Beta Kappa, University of Virginia, 1988
Echols Scholar, University of Virginia, 1985-1989

Grant Awards

Spencer Foundation Award (approx \$400,000) with Kenneth Wolpin and Jere Behrman
National Science Foundation grant (2009-2012) with Elena Krasnokutskaya
PARC Trio Award, with Aureo de Paula, 2007
MRRC Award , 2007, 2008
NIH grant (\$1.3 million, 2004-2009) (PI: Petra Todd, co-investigators Jere Behrman, Eugenio Miravete, Olivia Mitchell, Mark Pauly, and David Bravo).
National Science Foundation Grant Award (2006-2008, with Nicola Persico, coinvestigator)
National Science Foundation Grant Award (PI: Petra Todd, co-investigators: Nicola Persico and Jan Eeckhout (2004-2006)
PARC Award, University of Pennsylvania, with David Bravo (2005)
PARC Award, University of Pennsylvania (2005)
Mellon Award, University of Pennsylvania, with David Bravo (2005)
PARC Award, University of Pennsylvania, with Susan Parker and Luis Rubalcava (2004)
Mellon Award, University of Pennsylvania, with Susan Parker and Luis Rubalcava (2004)
TIAA-CREF, with John Knowles (2004)
PARC/Bittner Award, University of Pennsylvania, with John Knowles and Andrew Postlewaite (2003)
National Science Foundation Grant with Kenneth I. Wolpin (2001-2003)
University of Pennsylvania Research Foundation Grant (2000)
American Bar Foundation (1999-2000) with James Heckman
National Science Foundation Grant # SBR-9730688 with Hidehiko Ichimura (1998-2000)

Refereed Publications

“Do Conditional Cash Transfers for Schooling Generate Lasting Benefits?” with Jere R. Behrman and Susan W. Parker, *Journal of Human Resources*, 2011, Vol. 46, Issue 1, 93-122.

“Effects of school voucher reform on education and labor market performance: Evidence from Chile’s universal voucher system,” with David Bravo and Sankar Mukhopadhyay, *Quantitative Economics*, August, 2010, Volume 1, Issue 1, 47-95.

- “The longer term effects of human capital enrichment programs on poverty and inequality: *Oportunidades* in Mexico,” with Douglas McKee, *Estudios de Economía*, 2011, Vol. 38, p.67-100.
- “A Theory of Optimal Random Crackdowns” with Jan Eeckhout and Nicola Persico, *American Economic Review*, 2010, volume 100, issue 3, pg. 1104.
- “A Note on Adapting Propensity Score Matching and Selection Models to Choice Based Samples” with James Heckman, 2009, *Econometrics Journal*, Royal Economic Society, Vol 12(s1), p. S230-234.
- “Schooling Impacts of Conditional Cash Transfers on Young Children: Evidence from Mexico,” with Jere Behrman and Susan Parker, *Economic Development and Cultural Change*, April, 2009, Vol. 57, No. 3: 439-477.
- “Medium-Term Impacts of the Oportunidades Conditional Cash Transfer Program on Rural Youth in Mexico,” in Stephan Klasen and Felicitas Nowak-Lehmann, eds, *Poverty, Inequality and Policy in Latin America*, Cambridge, MA: MIT Press, 219-270.
- “Earnings Functions and Rates of Return,” with James J. Heckman and Lance Lochner, *Journal of Human Capital*, Vol. 2, p. 1-31, 2008.
- “Learning from the Chilean Experience: The Determinants of Pension Switching,” with Olivia Mitchell in *Overcoming the Saving Slump: How to Increase the Effectiveness of Financial Education and Savings Programs*, ed. Annamaria Lusardi, University of Chicago Press, 2009.
- “The Hit Rates Test for Racial Bias in Motor Vehicle Searches,” with Nicola Persico, *Justice Quarterly*, 25(1) March 2008, pp. 37-53
- “Ex-Ante Evaluation of Social Programs” with Kenneth I. Wolpin, *Annales d’Economie et de Statistique*, 2008, July-Dec, 263-292.
- “The Production of Cognitive Achievement in Children: Home, School and Racial Test Score Gaps” with Kenneth I. Wolpin, *Journal of Human Capital*, Vol. 1, 2007.
- “Assessing the Impact of a School Subsidy Program in Mexico Using Experimental Data to Validate a Dynamic Behavioral Model of Child Schooling” with Kenneth I. Wolpin, *American Economic Review*, 2006, 96(5): 1384–1417.
- “Generalizing the Hite Rates Test for Racial Bias in Law Enforcement, with an Application to Vehicle Searches in Wichita,” with Nicola Persico, *Economic Journal*, Vol. 116, Issue 515, Nov, 2006, F351-F367.

- “Progressing through PROGRESA: An Impact Assessment of a School Subsidy Experiment in Mexico” with Jere Behrman and Piyali Sengupta, *Economic Development and Cultural Change*, Oct., 2006, Vol. 54, No. 1, p.237-275.
- “Does Matching Overcome Lalonde’s Critique of Nonexperimental Estimators?” with Jeffrey Smith, *Journal of Econometrics*, 125(1-2), March-April, 2005, 305-353.
- “Evaluating Preschool Programs when Length of Exposure to the Program Varies: A Nonparametric Approach” with Jere Behrman and Yingmei Cheng, *Review of Economics and Statistics*, vol. 86, No. 1, February 2004, pp. 108-32.
- “On the Specification and Estimation of the Production Function for Cognitive Achievement” with Kenneth I. Wolpin, *Economic Journal*, February, 2003, pp. F3-F33.
- “Legal Activism, Private Philanthropy, and the Schooling of Southern Blacks, 1910-1960.” with James Heckman and John Donohue, *Quarterly Journal of Economics*, February, 2002, pp. 225-268.
- “Racial Bias in Motor Vehicle Searches: Theory and Evidence” with John Knowles and Nicola Persico, in *Journal of Political Economy*, February, 2001, pp. 203-229.
- “Identification of Treatment Effects by Regression-Discontinuity Design” with Jinyong Hahn and Wilbert Van der Klauww, *Econometrica*, February, 2001, pp. 201-209.
- “A Test of Lazear’s Mandatory Retirement Model” with Steve Stern, *Research in Labor Economics*, Volume 19, 2000, pp. 253-273.
- “Characterizing Selection Bias using Experimental Data” with James Heckman, Hidehiko Ichimura and Jeffrey Smith, *Econometrica*, Vol. 66, September, 1998, pp. 1017-1098.
- “Matching as an Econometric Evaluation Estimator” with James Heckman and Hidehiko Ichimura, *Review of Economic Studies*, Vol. 65(2), April, 1998, pp. 261-294.
- “Matching as an Econometric Evaluation Estimator: Evidence from Evaluating a Job Training Program” with James Heckman and Hidehiko Ichimura, *Review of Economic Studies*, Vol. 64(4), October, 1997, pp. 605-654.
- “Human Capital Pricing Equations with an Application to Estimating the Effect of Schooling Quality on Earnings” with J. Heckman and A. Layne-Farrar in *Review of Economics and Statistics*, Nov., 1996, pp. 562-610.

Nonrefereed Publications

- “Incentives for Students and Parents” with Jere R. Behrman and Susan W. Parker, forthcoming in “Educational Policy in Developing Countries: What Do We Know, and What Should We Do to Understand What We Don’t Know?”, ed. Paul Glewwe, University of Minnesota.
- Book review of Ariel Fisbein et al. (2009)’s book *Conditional Cash Transfers: Reducing Present and Future Poverty*, in *Journal of Inequality*. Volume 9, Issue 3, 465-468.
- “The Structural Estimation of Behavioral Models: Discrete Choice Dynamic Programming Methods and Applications,” with Kenneth I. Wolpin and Michael Keane, 2010, *Handbook of Labor Economics*, ed. David Card and Orley Ashenfelter, Volume 2, Elsevier, p. 332-461.
- “Structural Estimation and Policy Evaluation in Developing Countries,” with Kenneth I. Wolpin, *Annual Review of Economics*, ed. Charles Manski.
- “Legal Activism, Private Philanthropy, and the Schooling of Southern Blacks, 1910-1960.” with James Heckman and John Donohue, reprinted in *Analyzing Law’s Reach: Empirical Research on Law and Society*, American Bar Foundation, 235-268.
- “Evaluating Social Programs with Endogenous Program Placement and Selection of the Treated,” in *Handbook of Development Economics*, Vol. 4, ed. T. Paul Schultz and John A. Strauss, chapter 60, Elsevier, 2008, p. 3847-3894.
- “Implementing Nonparametric and Semiparametric Estimators” with Hidehiko Ichimura, *Handbook of Econometrics*, ed. J. J. Heckman and E. Leamer, Volume 6, Elsevier, 2007.
- “Earnings Functions, Rates of Return and Treatment Effects: The Mincer Equation and Beyond” with James Heckman and Lance Lochner, *Handbook of Education Economics*, Vol. 1, ed. E. Hanushek and F. Welch, chapter 7, Elsevier, 2006.
- “The Chilean Pension Reform Turns 25: Lessons from the Social Protection Survey,” with Alberto Arenas de Mesa, David Bravo, Jere R. Behrman, and Olivia S. Mitchell, manuscript forthcoming in a book published by the Atlanta Federal Reserve Bank.
- "racial profiling," *The New Palgrave Dictionary of Economics*. Second Edition. Eds. Steven N. Durlauf and Lawrence E. Blume. Palgrave Macmillan, 2008.
- "matching estimators." *The New Palgrave Dictionary of Economics*. Second Edition. Eds. Steven N. Durlauf and Lawrence E. Blume. Palgrave Macmillan, 2008.

“Passenger Profiling, Imperfect Screening and Airport Security,” with Nicola Persico, *American Economic Review Papers and Proceedings*, 2005, 95:22, 127-131.

“Reconciling Conflicting Evidence on the Performance of Propensity Score Matching Estimators” with Jeffrey Smith, *American Economic Review, Papers and Proceedings*, May 2001, 112-118.

Comment on “Estimation of limited-dependent variable models with binary endogenous regressors: simple strategies for empirical practice” by Joshua D. Angrist, in *Journal of Business and Economic Statistics*, 2001.

“Understanding Black-White Wage Differentials, 1960-1990” with James Heckman and Thomas Lyons, in *American Economic Review, Papers and Proceedings*, May 2000, pp. 344-349.

“Does Measured School Quality Really Matter?” with J. Heckman and A. Layne-Farrar in *Does Money Matter? The Link Between Schools, Student Achievement and Adult Success*, ed. Gary Burtless, Brookings Institution, Washington, DC, 1996, pp. 192-289.

“Sources of Selection Bias in Evaluating Social Programs: An Interpretation of Conventional Measures and Evidence on the Effectiveness of Matching as a Program Evaluation Method” with James Heckman, Hidehiko Ichimura and Jeff Smith in *Proceedings of the National Academy of Sciences*, Nov. 1996, pp. 13416-13420.

Other Manuscripts under Submission or in the Revise/Resubmit Stage and Working Papers

“The Impact of Chile’s 2008 Pension Reform on Labor Force Participation, Pension Savings and Gender Equity,” with Clement Joubert, manuscript.

“Sex with stiches, the resumption of sexual activity during the post-circumcision healing period in Zambia,” with Paul Hewett, Timothy Hallett, Barbara Mensch, Kumbutso Dzekedzeke, and Geoffrey Garnett, under submission.

“Aligning Learning Incentives of Students and Teachers: Results from a Social Experiment in Mexican High Schools,” with Jere Behrman, Susan Parker and Kenneth Wolpin, under submission.

“Choice of Product under Government Regulation: The Case of Chile's Privatized Pension System,” working paper, with Elena Krasnokutskaya and Ludwig Ressner.

“How Beliefs about HIV Status affect Risky Behaviors: Evidence from Malawi” with Áureo de Paula, Gil Shapira, revise and resubmit at JDE.

“Are Conditional Cash Transfers Effective in Urban Areas? Evidence from Mexico” with Jere Behrman and Susan Parker, under submission.

“The Effectiveness of Interventions Aimed at Improving Women's Employability and Quality of Work: A Critical Review of Impact Evaluation Results,” World Bank working paper.

“Within-Family Treatment Effect Estimators: The Impact of Oportunidades on Schooling in Mexico,” with Susan W. Parker and Kenneth I. Wolpin, working paper.

“Local Linear Approaches to Program Evaluation using a Semiparametric Propensity Score,” manuscript.

“Evaluating the Effect of an Antidiscrimination Law Using a Regression-Discontinuity Design” with Jinyong Hahn and Wilbert van der Klauww, NBER working paper #7131, 40 pages.

“Understanding the Contribution of Legislation, Social Activism, Markets, and Choice to the Economic Progress of African Americans in the Twentieth Century” with J. Heckman, manuscript.

Professional Activities/Affiliations:

Associate Editor for *American Economic review*, 2008-present

Associate Editor for *Journal of Human Capital*, 2007-present

Co-Editor of the *International Economic Review*, 2002-2008

Associate Editor of *Review of Economics and Statistics*, 2003-2007

Associate of Population Studies Center, Univ. of Pennsylvania, 1996-present

Research Associate of the Population Studies Center, 1997-present

Member, National Bureau of Economic Research, 1997-present

Academic Advisory Board of the Hudson Institute, 2005

Visiting Scholar Federal Reserve Bank of Philadelphia, Fall 2003 and Fall 2004

Research Affiliate of Institut zur Zukunft der Arbeit (IZA) in Bonn, Germany

Member, Selection Committee of the North American Econometric Society Meetings, Boston, Jan, 2006

Member, Selection Committee of the North American Econometric Society Meetings, Boston, Chicago, Jan, 2007

Member, Selection Committee of the North American Econometric Society Meetings, Boston, Chicago, Jan, 2009

Member of NSF Review Panel, 2005-2007

Member of NIH Review Panel, 2004, 2006, 2007, 2008, 2009, 2010, 2011

Short-term Visiting Positions

Northwestern University, Dept of Economics, 2005
University of Copenhagen, Dept of Economics, 2004
University of Western Ontario, Dept of Economics, 2004
University of Bergen (Norway), Dept of Economics, 2004
Catholica University, Chile, 2000.
IZA, 2002

Classes Taught:

Graduate Labor Economics, Graduate Econometrics (Micro), Undergraduate Labor Economics, Undergraduate Advanced Micro Econometrics, Undergraduate Honors Thesis Seminar, Short Courses in Program Evaluation Methods

Seminar and Conference Presentations

Conferences: American Economics Association Meetings, 1996-2007, Midwest Econometrics Group, 1997, Midwest Economics Association Meetings, 1998, NBER, 1997, 1998, 2000, APPAM 1997, Institute for Research on Poverty, 1997, 1998, 1999, 2000, Rand 1996, American Statistics Association Meetings (discussant), 1999, Conference at Hebrew University, 1999, American Economics Association, Boston, 2000, Lehigh University Some Kind of Freedom Conference, World Congress Econometric Society Meetings in Seattle, 2000, American Economics Association, New Orleans, 2001, National Bureau of Economic Research Summer Institute, 2001, Camp Resources Conference, North Carolina, 2001, IZA Summer Conference (Munich), Latin American and Caribbean Economic Association (LACEA) 2001 (Santiago), 2002 (Madrid), NSF Conference on Evaluation (2003), PIER Conference on Crime, 2003, Northwestern Conference on Racial Profiling, 2004, Bellagio Conference for Handbook of Agricultural Economics, 2005, Bocconi University (Milan, Italy), 2006, Institute for Research on Poverty (IRP), 2006, IDB Conference on Poverty and Inequality (Santiago, Chile), 2006, SITE (Stanford, 2007), Society of Economic Dynamics (Istanbul, 2009), Conference for Handbook of Labor Economics, Vol. 4 (Berkeley, 2009), Milton Friend Institute Conference (2010), Conference at University of Chicago Law School (2010), IDSC Conference (Egypt, 2010), festshrift conference in honor of James Heckman and Univ. of Chicago (Nov. 2010), IWAAE conference in southern Italy (2011), conference in at Georg-August-Universität Göttingen University, 2011.

Seminars: 1996-2002: University of Chicago, University of Pennsylvania, Johns Hopkins, Yale, Virginia, Princeton, Brown, Duke, UC San Diego, Georgia, Pittsburgh, Kennedy School, Maryland, New York University, Wisconsin, Catholica University (Chile), Hebrew University, Delaware, Maryland, Georgetown University Law School, Ohio State, Lehigh Univ., Minnesota, World Bank, Rochester, Harvard University, Michigan State University, Georgia State University, Cornell University, Penn State University, Indiana University, Inter-American Development Bank

2003/2004 - Yale, Chicago, Stanford, Wharton, Berkeley, Indiana, AEA meeting in San Diego, Northwestern, Institute for Research on Poverty Conference (Wisconsin), Duke, Tinbergen (Amsterdam), International Food Policy Research Institute (IFPRI) (Washington, DC), Univ of Western Ontario, University of Bergen (Norway), University of Toulouse (France)

2004/2005 - UCLA, UCSD, Harvard (Econ), Harvard (Kennedy School), Northwestern, Washington University at St. Louis, Carnegie Mellon University, Queens University (Canada), Johns Hopkins University, Rockefeller Center (Milan), IAB in Nuremberg, University of Göttingen.

2005/2006 – Penn State, Columbia, Minnesota Federal Reserve Bank, Harris School at the University of Chicago, University of Washington, Columbia University, World Bank.

2006/2007 – Vanderbilt University, Brown University, Columbia University, Yale, Rice, University of Houston, Texas A&M, University of Virginia, University of Wisconsin, University of Buffalo

2007/2008 - Washington University at St. Louis, Rochester University, University of Wisconsin

2008/2009 – University of Maryland, Yale University, University of Colorado, University of Toronto, NYU

2009/2010 – Princeton University, Georgia State, Penn State, Washington University St. Louis, Drexel University, World Bank

2010/2011 – Duke University, Syracuse University, SUNY- Buffalo, Bergen School of Business (Norway), Bank of Italy, Bocconi University

Ph.D. Dissertation Advisees: Angeliki Kourelis, Fannie Tseng, Jeffrey Yau, Jorge Gallardo-Garcia, Viviana Velez-Grajales, Hyojung Koo, Michaela Gulametova-Swann, Olivia Ceccarini, Javier Gonzales, Shalini Roy, Moran

Bluestein, Clement Joubert, Geena Kim, Gil Shapira, Moran Bluestein,
Drew Griffen

Ph.D. Dissertation Committees: Reuven Shnaps, Michael Morris, John Heinz, Murat Kirdar, Donghoon Lee, Sean Campbell, Morris Davis, Ariana Degan, Claudia Olivetti, Elena Pastorino, Ryo Okui, Mari Sakudo, Sankar Mukhopadhyay, Cesar Orosco, Fali Huang, Melissa Tartari, Ahu Gemeci, Daniela Iorio, Claudio Lucarelli, Marco Cosconati, Qiang Pan, Nicola Tosini, Hailey Joo, Eleanor Harvill,, David Russo, David Mann-Podraskey, Naoki Wakamori, Michela Tincani

Collaborators

James Heckman (University of Chicago), Hidehiko Ichimura (Tokyo University), Kenneth Wolpin (University of Pennsylvania), Jere Behrman (University of Pennsylvania), Jeffrey Smith (University of Michigan), Jinyong Hahn (UCLA), Olivia Mitchell (Wharton), Aureo de Paula (University of Pennsylvania), Nicola Persico (NYU), Jan Eeckhout (University of Pennsylvania), Wilbert Van der Klaauw (New York Federal Reserve Bank), Flavio Cunha (University of Pennsylvania), Douglas McKee (Yale University post doc), Sankar Mukhopadhyay (University of Nevada), Gil Shapira (Penn graduate student), Yingmei Cheng (Florida State), David Bravo (University of Chile), Lance Lochner (University of Western Ontario), Susan Parker (CIDE in Mexico City), Michael Keane (University of Technology, Sydney), Ludwig Ressner (University of Munchen), Paul Hewett (Population Council-Zambia), Clement Joubert (University of North Carolina), John Donahue (Yale Law School), Aureo de Paula (University of Pennsylvania), Gil Shapira (World Bank), Paul Glewwe (University of Minnesota)

Administrative Assignments:

Undergraduate Chair, 2005-2011
Senate Committee on the Economic Status of the Faculty, 2010-2011
SAS Trustee and Budget Committee, 2009-2010
SAS Personnel Committee 2006-2008
SAS Graduate Committee, 2006-2008
Undergraduate Chair of the Economics Department, 2004-present
Undergraduate Executive Committee, 2004-present
Graduate Executive Committee, 2005-2007
Graduate Prize Committee, 2003-2007
Designated Advisor to Undergraduates Considering Graduate School
Senate Committee on the Economic Status of the Faculty, 2004-2008, 2010
SAS Curriculum Committee, 2002-2003
SAS Quantitative Data Analysis Committee, 2004-2005

Consulting and Other Activities

World Bank (2011) – Designed a 10-day course in evaluation methods together with Paul Glewwe.

Chilean government (2010-2011) – Analyzing effect of 2008 pension reform on labor supply and savings behavior

Business School – Bergen – taught a one week mini course in March, 2011 in program evaluation methods to about 30 PhD students from Scandinavian countries.

IZA Summer School (2010) – Taught a five day course in ex ante and ex post methods for evaluating social programs to 35 European PhD students from various countries.

Population Council (2009-2011) – Assisted in the design of the evaluation, the sampling design and in the design of the survey instrument for a Gates Foundation funded project that will provide opportunities and incentives for adult males to be circumcised in Zambia and Swaziland as a strategy for reducing HIV transmission rates.

IDB (2008-current) Assisted in the design and implementation of an educational incentive program in Mexico. The program randomized 88 highschools into one of three treatment groups and a control group and gathered data on student performance, study habits and teacher teaching methods.

IDB (2009) Worked on dynamic modeling project studying optimal levels of conditional cash transfers for the Oportunidades.

Member of the Advisory Board for the Courant Center 'Poverty, Equity, and Growth in Developing and Transition Countries, Göttingen University, 2007-present.

Member of the Advisory Board to the Subsecretary of the Ministry of Education in Mexico on programs related to high school education reforms, 2006-2009.

World Bank (2009) – prepared manuscript “Effectiveness of Interventions Aimed at Improving Women's Employability and Quality of Work: A Critical Review of Impact Evaluation Studies”

Millennium Challenge Corporation (2006). Assisted in design of impact evaluations of several program interventions in El Salvador and Mongolia. The programs evaluated including infrastructure improvements (building a train line, electrification, building a new highway), educational programs, public health interventions, and agricultural subsidy programs.

World Bank (2006) Taught three day course on program evaluation methods.

Rand Corporation (2006) Reviewed evaluation of No Child Left Behind program and its impact on educational performance of children in special education.

INSP, Mexico City (2004-2005) Participated in the evaluation of the Oportunidades program on urban youth educational outcomes

SEDESOL (2002-2004) Serve on advisory committee for Mexican government on topics related to the evaluation of social programs.

INSP (Mexico City, MX) (2003-2006) Selected a matched sample of localities for the evaluation of the Oportunidades program and participated in the design and implementation of the evaluation.

Wyeth Pharmaceuticals (2003) Consulted on the evaluation of alternative pharmaceutical marketing strategies and their impact on pharmaceutical sales.

International Food Policy and Research Institute (2000-2001) Performed analysis of sample size requirements and analyses of impacts on education and test scores with regard to the PROGRESA school subsidy program in Mexico.

Department of Justice, Civil Rights Division (2000-2001) Performed analysis of racial discrimination in traffic citations by an urban police force.

Inter-American Development Bank (1999-2000) Served as an advisor to a Brazilian government agency in the preparation of a proposal for the evaluation of the school subsidy and training programs (called PETI) and Agente Joven and the health program Bolsa Alimentacio. The programs are designed to increase school-going.

Inter-American Development Bank (1999-2001) Served as advisor on research network on impact of training policies in Latin America and the Caribbean. Participated in meetings related to evaluation of Oportunidades social program in Mexico.

World Bank (1998-1999) Performed impact analysis of day care program in Bolivia using nonexperimental methods.

PROGRESA, Mexico City (1997) Gave advice on the implementation of the randomization in a Mexican school subsidy experiment that randomized 506 villages in or out of the program.

Personal: US Citizen

Language Skills: French, German