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EDUCATION

Harvard University. Ph.D. in Economics, 1992.

Harvard College. A.B. in Social Studies, Magna cum laude, Phi Beta Kappa, 1985.

EXPERIENCE

Scientific Director, Development Innovation Ventures,
US Agency for International Development 2010 –

Gates Professor of Developing Societies 2003-

Professor of Economics, Harvard University, 1999-2003.

Research Associate, National Bureau of Economic Research, 1999-Present.

Senior Fellow, The Brookings Institution, 1998-Present.

Faculty Fellow, Center for International Development, Harvard Kennedy School, 1998-Present.

Faculty Associate, Harvard Institute for International Development, 1997-2000.

Professor of Economics, MIT, 1998-1999.

Pentti Kouri Career Development Associate Professor of Economics, MIT, 1996-1998.

Research Associate, Harvard Institute for International Development, 1995-1997.

Pentti Kouri Career Development Assistant Professor of Economics, MIT, 1994-1996.

Faculty Research Fellow, National Bureau of Economic Research, 1993-1999.

Assistant Professor of Economics, MIT, 1993-1994.

Visiting Assistant Professor, University of Chicago, Spring 1993.

Postdoctoral Fellow, MIT, 1992-1993.

Executive Director, WorldTeach, 1986-1989. Founded and directed non-profit organization placing three hundred volunteer teachers annually in developing countries.

Teacher and Administrator, Eshisiru Secondary School, Kakamega District, Kenya, 1985-1986.

HONORS AND AWARDS

Scientific American 50 Award. Named one of the 50 researchers of the year, 2006.

Kenneth J. Arrow Award for Best Paper in Health Economics in 2004 by the International Health Economics Association, 2005.

Association of American Publishers Award for the Best Professional/Scholarly Book in Medical Science for *Strong Medicine*, 2004.

Young Global Leader, the World Economic Forum, 2004

Fellow, American Academy of Arts and Sciences, 2003.

MacArthur Fellowship, 1997.

Presidential Early Career Award for Scientists and Engineers, 1996.

Health and Aging Fellow, National Bureau of Economic Research, 1996-1997.

National Fellow, Hoover Institution, Stanford University, 1994-1995.

Review of Economic Studies dissertation award recipient, 1992.

Wells Prize for economics dissertation at Harvard, 1992.

National Science Foundation Fellowship, 1989-1992.

OTHER ACTIVITIES

Co-chair, Co-founder, BREAD (The Bureau for Research and Economic Analysis of Development), 2001-Present. BREAD organizes conferences in development economics, focusing on microeconomic issues.

Non-resident Fellow, Center for Global Development, 2002-Present.

Associate Editor, *Journal of Development Economics*, 1999-2004

Associate Editor, *Quarterly Journal of Economics*, 1998-2008

Member Board of Editors, *American Economic Journal: Applied Economics*, 2007-

Consultant, Development Economics Research Group (DECRG), The World Bank

PUBLICATIONS**BOOKS**

Strong Medicine: Creating Incentives for Pharmaceutical Research on Neglected Diseases, with Rachel Glennerster, Princeton and Oxford: Princeton University Press, 2004.

ACADEMIC ARTICLES AND BOOK CHAPTERS

“Nudging Farmers to Use Fertilizer: Theory and Experimental Evidence from Kenya,” with Esther Duflo and Jonathan Robinson, *American Economic Review*, 101:6 (October 2011): 2350 - 90.

“The Economics of International Refugee Law,” with Ryan Bubb and David Levine, forthcoming, *Journal of Legal Studies*.

“Peer Effects and the Impacts of Tracking: Evidence from a Randomized Evaluation in Kenya,” with Esther Duflo and Pascaline Dupas, *American Economic Review* 101:5 (August 2011):1739-1774 (CEPR Working Paper No. 7043 and NBER Working Paper No. 14475).

“Spring Cleaning: Rural Water Impacts, Valuation and Property Rights Institutions,” with Jessica Leino, Edward Miguel, and Alix Peterson Zwane, *Quarterly Journal of Economics* 126:1 (February 2011): 145-205 (National Bureau of Economic Research, NBER Working Papers: 15280, 2009.)

“The Risk of Asking: Being Surveyed Can Affect Later Behavior,” with Alix Peterson Zwane, Jonathan Zinman, Eric Van Dusen, William Pariente, Clair Null, Edward Miguel, Michael Kremer, Dean Karlan, Richard Hornbeck, Xavier Ginéj, Esther Duflo, Florencia Devoto, Bruno Crepon, and Abhijit Banerjee, *Proceedings of the National Academy of Sciences of the United States of America (PNAS)* 108:5 (February 1, 2011): 1821-1826.

“Providing Safe Water: Evidence from Randomized Evaluations,” with Amrita Ahuja and Alix Peterson Zwane, *Annual Review of Resource Economics*, Volume 2, 2010. Palo Alto, California: Annual Reviews. <http://www.annualreviews.org>

“Are Educational Vouchers Only Redistributive?” with Eric Bettinger and Juan E. Saavedra, *The Economic Journal*: 120 (August 2010): F204–F228. doi: 10.1111/j.1468-0297.2010.02374.x

"Teacher Incentives," with Paul Glewwe and Nauman Ilias, *American Economic Journal: Applied Economics* :2:3 (July 2010): 205-27 (National Bureau of Economic Research, Inc, NBER Working Paper 9671, 2003.)

“Self-Control and the Development of Work Arrangements,” with Supreet Kaur and Sendhil Mullainathan, *American Economic Review*: 100: 2 (May 2010): 624-28.

“Early-Life Malaria Exposure and Adult Outcomes: Evidence from Malaria Eradication in India,” with David Cutler, Winnie Fung, Monica Singhal, and Tom Vogl, *American Economic Journal: Applied Economics* 2:2 (April 2010): 72-94. (“Mosquitoes: The Long-term Effects of Malaria

Eradication in India,” National Bureau of Economic Research, Inc, NBER Working Papers: 13539, 2007).

“Incentivizing Education: Adding to the Toolkit,” with Heidi Williams, *Innovation Policy and the Economy* 10 (2010): 1-17.

“Economic transformation, population growth and the long-run world income distribution,” with Marcos Chamon. *Journal of International Economics* 79:1 (September 2009): 20-30. International Monetary Fund, IMF Working Papers: 06/21, 2006 and National Bureau of Economic Research, Inc, NBER Working Papers: 12038, 2006.

“Pricing and Access: Lessons from Randomized Evaluations in Education and Health,” with Alaka Holla in Jessica Cohen and William Easterly (eds.) *What Works in Development? Thinking Big and Thinking Small*. Washington, DC: Brookings Institution Press, 2009.

“Improving Education in the Developing World: What Have We Learned from Randomized Evaluations?” with Alaka Holla in Kenneth J. Arrow and Timothy F. Bresnahan, eds., *Annual Review of Economics*, Volume 1, 2009. Palo Alto, California: Annual Reviews.
<http://www.annualreviews.org>

“Public-Private Schools in Rural India,” with Karthik Muralidharan in Rajashri Chakrabarti and Paul E. Peterson, eds., *School-Choice International: Exploring Public-Private Partnerships*. Cambridge (Mass): The MIT Press, 2009.

"Estimating the Impact of the Hajj: Religion and Tolerance in Islam's Global Gathering," with David Clingingsmith, Asim Ijaz Khwaja.. *Quarterly Journal of Economics* 124:3 (August 2009): 1133-1170. (John F. Kennedy School of Government, Working Paper Series, 2008 and Weatherhead Center for International Affairs, Working Paper Series, 2008).

“Teacher Incentives in the Developing World,” with Paul Glewwe, and Alaka Holla in Springer, Matthew, ed., *Performance Incentives: Their Growing Impact on American K-12 Education*, Washington, DC: Brookings Institution Press, 2009.

“Incentives to Learn,” with Edward Miguel and Rebecca Thornton, *Review of Economics and Statistics* (lead article) 91:3 (August 2009): 437-456. (National Bureau of Economic Research, Inc, NBER Working Papers: 10971, 2004). D

“A Biological Model of Unions,” with Ben Olken. *American Economic Journal: Applied Economics* 1:2 (April 2009): 150-175. (NBER Working Paper 8257, 2001.)

“Deworming and development: asking the right questions, asking the questions right,” with Donald Bundy, Hoyt Bleakley, Matthew Jukes, and Edward Miguel. January 2009. *PLoS Neglected Tropical Diseases* (<http://www.plosntds.org/article/info:doi/10.1371/journal.pntd.0000362>).

“Many Children Left Behind? Textbooks and Test Scores in Kenya,” with Paul Glewwe and Sylvie Moulin. *American Economic Journal: Applied Economics* 1:1 (January 2009): 112-135. (National Bureau of Economic Research, Inc, NBER Working Papers: 13300, 2007).

“Cambios en los hábitos y los sistemas sanitarios: algunas evidencias a partir de evaluaciones aleatorizadas” in José García Montalvo, ed., *El análisis experimental de la ayuda al desarrollo*. Bilbao: Fundación BBVA, 2008.

"Incentives in Markets, Firms, and Governments," with Daron Acemoglu and Atif Mian. *Journal of Law, Economics, and Organization* 24:2 (October 2008): 273-306. (NBER Working Paper 9802, 2003).. (NBER Working Paper 9802, 2003).

“Outside Funding and the Dynamics of Participation in Community Associations,” with Mary Kay Gugerty. *American Journal of Political Science* 52:3: (July 2008) 585-602. ("Outside Funding of Community Organizations: Benefiting or Displacing the Poor?" with Mary Kay Gugerty, NBER Working Paper 7896, 2000.)

"Peer Effects and Alcohol Use among College Students," with Dan Levy, *Journal of Economic Perspectives* 22:3 (Summer 2008): 189 - 206 (NBER Working Paper 9876, 2003).

“How High Are Rates of Return to Fertilizer? Evidence from Field Experiments in Kenya,” with Esther Duflo and Jonathan Robinson. *American Economic Review Papers and Proceedings*. 98:2 (May 2008):482-488.

“Using Randomization in Development Economics Research: A Toolkit,” with Esther Duflo and Rachel Glennerster, in T. Schultz and John Strauss, eds., *Handbook of Development Economics*, Volume 4. Amsterdam and New York: North-Holland, 2008. (Centre for Economic Policy Research, CEPR Discussion Papers: 6059, 2007; National Bureau of Economic Research, Inc, NBER Technical Working Paper No. 333, December 2006.)

“Making Vaccines Pay,” in William Easterly, ed., *Reinventing Foreign Aid*, Cambridge (Mass.): The MIT Press, 2008.

“Use of Randomization in the Evaluation of Development,” with Esther Duflo, in William Easterly, ed., *Reinventing Foreign Aid*. Cambridge (Mass.): The MIT Press, 2008.

“Globalisation and Inequality within Countries,” in *Poverty in Focus: The Challenge of Inequality* Brasilia: International Poverty Center, June 2007: 10 – 11.

“What Works in Fighting Diarrheal Diseases in Developing Countries? A Critical Review,” with Alix Peterson Zwane. *World Bank Research Observer* 22:1, (Spring 2007): 1-24. 2007. (National Bureau of Economic Research, Inc, NBER Working Paper: 13539, 2007).

“Cost-Effective Prevention of Diarrheal Diseases: A Critical Review,” with Alix Peterson Zwane, Center for Global Development Working Paper #117, 2007. <http://www.cgdev.org/files/>

“Advance market commitments for vaccines against neglected diseases: Estimating costs and effectiveness,” with Ernst Berndt, Rachel Glennerster, Jean Lee, Ruth Levine, Georg Weizsäcker, and Heidi Williams. *Health Economics* 16:5 (May 2007): 491-511. (Center for Global Development Working Paper # 98, August 2006)

"The Illusion of Sustainability," with Edward Miguel. *Quarterly Journal of Economics* 122(3) (August 2007): 1007-1065. Reprinted in *Reinventing Foreign Aid*, ed., William Easterly. Cambridge (Mass.): The MIT Press, 2008 (NBER Working Paper 10324, 2004.)

“The Political Economy of Education in Kenya,” in Mark Gradstein and Kai A. Konrad, eds., *Institutions and Norms in Economic Development*. Cambridge (Massachusetts): The MIT Press, 2006.

“Globalization of Labor Markets and Inequality,” in Susan M. Collins and Carol Graham, eds., *Global Labor Markets, Brookings Trade Forum, 2006*, Washington, D.C.: Brookings Institution Press, 2006.

“Schools, Teachers, and Education Outcomes in Developing Countries,” with Paul Glewwe in Eric Alan Hanushek and Finis Welch, eds., the *Handbook on the Economics of Education*, volume 2. Amsterdam and London: North-Holland, 2006.

“Long-Term Educational Consequences of Secondary School Vouchers: Evidence from Administrative Records in Colombia” with Joshua Angrist and Eric Bettinger. *American Economic Review* 96: 3, (June 2006): 847-62. (NBER Working Papers: 10713, 2004).

“Odious Debt,” in Jochnick and Preston, eds., *Sovereign Debt at the Crossroads*. New York: Oxford University Press, 2006.

"Empathy or Antipathy? The Consequences of Racially and Socially Diverse Peers on Attitudes and Behaviors," with Greg Duncan, Johanne Boisjoly, Dan Levy, and Jacque Eccles. *American Economic Review* 96:5 (December 2006): 1890-1906.

“The Missing Mandate:Global Public Goods,” in Nancy Birdsall, ed., *Rescuing the World Bank: A CGD Working Group Report and Selected Essays*. Washington DC: Center for Global Development, 2006.

“Global Public Goods in Communicable Disease Control,” in *Infectious Disease, Expert Paper One*. Stockholm: International Task Force on Global Public Goods, 2006.

“Creating Markets for Vaccines,” with Rachel Glennerster and Heidi Williams. *Innovations: Technology, Governance, Globalization*. 1:1 (winter 2006): 67-79.

“Odious Debt,” with Seema Jayachandran, in Ashoka Mody and Catherine Patillo, eds., *Macroeconomic Policies and Poverty Reduction*. New York: Routledge, 2006.

"Odious Debt," with Seema Jayachandran. *American Economic Review* 96:1 (March 2006):82-92 (NBER Working Paper 8953, 2002). Reprinted in Paul Collier and Jan Willem Gunning, eds., *Globalization and Poverty*, Cheltenham: Edward Elgar, 2008.

"Asian Growth and African Development," with Marcos de Carvalho Chamon. *American Economic Review Papers and Proceedings* 96:2 (May 2006): 400-404.

"Why Are Teachers Absent? Probing Service Delivery in Peruvian Primary Schools," with Lorena Alcazar, F. Halsey Rogers; Nazmul Chaudhury, Jeffrey Hammer, Karthik Muralidharan. *International Journal of Educational Research* 45:3 (2006): 117-136.

"Public Policies to Stimulate Development of Vaccines for Neglected Diseases," in Abhijit Banerjee, Roland Benabou, and Dilip Mookherjee, eds., *Understanding Poverty*. New York: Oxford University Press, 2006.

"Creating Incentives For Private Sector Involvement In Poverty Reduction: Purchase Commitments For Agricultural Innovation," with Alix Peterson Zwane in Inge Kaul and Pedro Conceição, eds., *The New Public Finance Responding To Global Challenges*. New York: Oxford University Press, 2006.

"Missing in Action: Teacher and Health Worker Absence in Developing Countries" with Nazmul Chaudhury, Jeffrey Hammer, Karthik Muralidharan, and F. Halsey Rogers. *Journal of Economic Perspectives* 20:1 (Winter 2006): 91-116.

"Advance Market Commitments: A Policy to Stimulate Investment in Vaccines for Neglected Diseases," with Owen Barder and Heidi Williams. *The Economists' Voice*. 3:3 (2006)
<http://www.bepress.com/ev/vol3/iss3/art1/>.

"Motivation Matters: Merit Scholarships and Student Achievements," in *Innovation in Education: Proceedings of a Conference held in Cleveland, Ohio, November 17-18, 2005*.

"Teacher Absence in India: A Snapshot," with Nazmul Chaudhury, Jeffrey Hammer, Karthik Muralidharan, and F. Halsey Rogers. *Journal of the European Economic Association*, 3:2-3 (April-May 2005): 658-667

"Incentives to Learn," with Edward Miguel and Rebecca Thornton. *Education Next: a Journal of Opinion and Research*, 5:2 (Spring 2005): pp. 57-64.

"Peer Effects in Drug Use and Sex Among College Students," with Greg J. Duncan, Johanne Boisjoly, Dan M. Levy, and Jacque Eccles. *Journal of Abnormal Child Psychology* 33:3 (June 2005): 375-385.

"The price of life," with Rachel Glennerster and Heidi Williams. *Foreign Policy*, May/June 2005: 26-27.

"Incentives for research on neglected diseases" Letter to the Editor, *The Lancet* (365), February 26, 2005, pp. 753-754.

“ ‘Measuring Poverty’: Discussion” *The Review of Economics & Statistics* 87:1 (February 1, 2005): 23-25.

"Use of Randomization in the Evaluation of Development Effectiveness," with Esther Duflo, in George Keith Pitman, Osvaldo N. Feinstein, and Gregory K. Ingram, eds., *Evaluating Development Effectiveness*, Vol. 7 of *World Bank Series on Evaluation and Development*. New Brunswick, New Jersey, and London, U.K.: Transaction Publishers, 2005.

“Encouraging Private Sector Research for Tropical Agriculture,” with Alix Peterson Zwane. *World Development* 33:1 (January 2005): 87-105.

“On How To Improve World Health,” *Daedalus*, Summer 2004: 120-123.

“Comment on Jeffrey Sachs’ ‘Ending Africa’s Poverty’” in William C. Brainard and George L. Perry, eds., *Brookings Papers on Economic Activity*, 2004:1: 217-231. Washington, D.C.: Brookings Institution Press, 2004.

“Regional Public Goods and Health in Latin America,” (with Jessica Leino) in Antoni Estevadeordal, Brian Frantz, Tam Robert Nguyen, eds., *Regional Public Goods: From Theory to Practice*, Washington, D.C.: Inter-American Development Bank and Asian Development Bank, 2004.

“Comments on ‘Assessing the Impact of Globalization on Poverty and Inequality: A New Lens on an Old Puzzle’ (Carol Graham) and on ‘Poverty and the Organization of Political Violence: A Review and Some Conjectures’ (Nicholas Sambanis)” in Susan M. Collins and Carol Graham, eds., *Brookings Trade Forum 2004: Globalization, Poverty and Inequality*. Washington, DC: Brookings Institution Press, 2004.

“Statist Quo Bias: Rejoinder to De Alessi,” *Econ Journal Watch* 1:2 (August 2004): 277-278.
<http://www.econjournalwatch.org>

“An Ivory-Tower Take on the Ivory Trade: Response to De Alessi,” *Econ Journal Watch* 1:1 (April 2004): 55-57. <http://www.econjournalwatch.org>

"Ways to Spur Malaria Vaccine Research," (with Rachel Glennerster), forthcoming in *The Economics of Malaria*.

"Retrospective vs. Prospective Analyses of School Inputs: The Case of Flip Charts in Kenya," with Paul Glewwe, Sylvie Moulin and Eric Zitzewitz. *Journal of Development Economics* 74:1 (June 2004): 251-268. (NBER Working Paper 8018, 2000)

"Worms: Identifying Impacts on Education and Health in the Presence of Treatment Externalities," with Edward Miguel, *Econometrica* 72:1 (January 2004):159-217. (NBER Working Paper 8481, 2001)

"Elephants: Reply," with Charles Morcom. *American Economic Review* 93:4 (September 2003): 1446-1448.

"Randomized Evaluations of Educational Programs in Developing Countries: Some Lessons," *American Economic Review* 93:2 (May 2003): 102-106.

"A Purchase Commitment for Vaccines," a contribution to "Beyond Communicable Disease Control: Health in the Age of Globalization," by Dyna Arhin-Tenkorang and Pedro Conceição, in Inge Kaul, Pedro Conceição, Katell Le Goulven, and Ronald U. Mendoza, eds., *Providing Global Public Goods: Managing Globalization*, Oxford University Press, 2003.

"Vouchers for Private Schooling in Colombia: Evidence from a Randomized Natural Experiment," with Joshua Angrist, Eric Bettinger, Erik Bloom, and Elizabeth King. *American Economic Review* 92:5 (December 2002): 1535-1558. (NBER Working Paper 8343, 2001)

"Pharmaceuticals and the Developing World," *Journal of Economic Perspectives* 16:4, (Fall 2002): 67-90.

"Income Distribution Dynamics with Endogenous Fertility," with Daniel Chen. *Journal of Economic Growth* 7:3 (September 2002): 227-258. (NBER Working Paper 7530, 2000).

"The Impact of Development Assistance on Social Capital: Evidence from Kenya," with Mary Kay Gugerty, in Christian Grootaert and Thierry van Bastelaer, eds., *The Role of Social Capital in Development: An Empirical Assessment*. Cambridge (UK): Cambridge University Press, April 2002.

"A Purchase Commitment for Vaccines," in Inge Kaul, Katell Le Goulven, and Mirjam Schnupf, eds., *Global Public Goods Financing: New Tools for New Challenges, A Policy Dialogue*, United Nations Development Programme, Office of Development Studies, 2002.

"Does Favorable Tax-Treatment of Housing Reduce Equipment Investment?" with Ben Broadbent. *Journal of Public Economics* 81:3 (September 2001): 369-391. (NBER Working Paper 6161, 1997).

"Creating Markets for New Vaccines: Part I: Rationale," in Adam B. Jaffe, Josh Lerner, and Scott Stern (eds.), *Innovation Policy and the Economy*, MIT Press, Volume 1, 2001.

"Creating Markets for New Vaccines: Part II: Design Issues," in Adam B. Jaffe, Josh Lerner, and Scott Stern (eds.), *Innovation Policy and the Economy*, MIT Press, Volume 1, 2001.

"Searching for Prosperity," with Alexei Onatski and James Stock, *Carnegie-Rochester Conference Series on Public Policy* (55), 2001, pp. 275-303.

"A Commitment for Vaccines," with Jessica Leino, translated into French as "Un engagement pour les vaccins," *Biofutur* 217 December 2001.

"Elephants," with Charles Morcom, *American Economic Review*, 90:1 (March 2000): 212-234. (NBER Working Paper 5674, 1996)

"Improving School Quality in Developing Countries," in Anne O. Krueger, ed., *Economic Policy Reform: The Second Stage*, University of Chicago Press, 2000.

"Income Distribution Dynamics with Endogenous Fertility," with Daniel Chen, *American Economic Review Papers and Proceedings*, May 1999, pp. 155-160. (NBER Working Paper 7530, 2000)

"AIDS: The Economic Rationale for Public Intervention," in Martha Ainsworth, Lieve Franssen, and Mead Over (eds.), *Confronting AIDS: Evidence from the Developing World*, The European Commission and the World Bank, 1998.

"Patent Buyouts: A Mechanism for Encouraging Innovation," *Quarterly Journal of Economics*, 113:4 (November 1998): 1137-1167. (NBER Working Paper 6304, 1997). Reprinted in Alexander Tabarrok (ed.), *Entrepreneurial Economics: Bright Ideas from the Dismal Science*, Oxford University Press, 2002.

"On the Effect of Changing Sexual Activity on HIV Prevalence," with Charles Morcom, *Mathematical Biosciences* 151:1 (July 1998): 99-122.

"Why Isn't Convergence Instantaneous? Young Workers, Old Workers, and Gradual Adjustment," with Jim Thomson, *Journal of Economic Growth* 3:1 (March 1998): 5-28. (NBER Working Paper 4827, 1994)

"Disorganization," with Olivier Blanchard. *Quarterly Journal of Economics*, 112:4 (November 1997): 1091-1126.

"AIDS, Behavioral Choice, and the Composition of the Pool of Available Partners," in *Advances in Mathematical Population Dynamics: Molecules, Cells and Man Part II*, Chapter 8, World Scientific Publishing Co., 1997, pp. 487-510.

"How Much Does Sorting Increase Inequality?" *Quarterly Journal of Economics*, 112:1 (February 1997): 115-139. (NBER Working Paper 5566, 1996)

"Integrating Behavioral Choice into Epidemiological Models of the AIDS Epidemic," *Quarterly Journal of Economics*, 111:2 (May 1996): 549-573. (NBER Working Paper 5428, 1996)

"Research on Schooling: What We Know and What We Don't: A Comment on Hanushek," *The World Bank Research Observer* (10), August 1995, pp. 247-254.

"Saving and Growth: a Comment," *Carnegie-Rochester Conference Series on Public Policy* (40), June 1994, pp. 193 -197.

"Good Policy or Good Luck? Country Growth Performance and Temporary Shocks," with William Easterly, Lant Pritchett, and Lawrence Summers, *Journal of Monetary Economics* 32(3), 1993. (NBER Working Paper 4474, 1993)

"Population Growth and Technological Change: 1,000,000 B.C. to 1990," *Quarterly Journal of Economics*. 108:3 (August 1993): 681-716. Reprinted in Gene Grossman (ed.), *Economic Growth: Theory and Evidence*, Elgar Reference Collection, International Library of Critical Writings in Economics (68), 1996; and in Julian Simon (ed.), *The Economics of Population: Key Modern Readings*, Cheltenham. UK ; Lynne, NH: Edward Elgar Publishers, 1997.

"The O-Ring Theory of Economic Development," *Quarterly Journal of Economics*, 108:3 (August 1993): 551-576. Translated into Portuguese as "A teoria 'anel em O' de desenvolvimento econômico," *Revista Brasileira de Economia*, April/June 1995.

Working Papers

"Is There a Doctor in the House? Medical Worker Absence in India," with Karthik Muralidharan, Nazmul Chaudhury, Jeffrey Hammer, and F. Halsey Rogers. Working Paper, Harvard University. April 2011.

"Antiquities: Long-Term Leases as an Alternative to Export Bans," with Tom Wilkening Weatherhead Center for International Affairs Working Papers, Harvard University, 2007.

"Peter Singer vs. Charles Dickens: Evaluating Particularist Ethics from a Universalist Standpoint," with Daniel Wood, 2007.

"The Globalization of Household Production," with Stanley Watt, 2007.

"Contracting for Health: Evidence from Cambodia," with Erik Bloom, Elizabeth King, Indu Bhushan, David Clingingsmith, Benjamin Loevinsohn, Rathavuth Hong, J. Brad Schwartz. Brookings Institution, 2006.

"Education and HIV/AIDS Prevention: Evidence from a Randomized Evaluation in Western Kenya" with Esther Duflo, Pascaline Dupas; and Samuel Sinei. Washington, D.C.: The World Bank, Policy Research Working Paper Series: 4024, 2006.

"School Meals, Educational Achievement, and School Competition: Evidence from a Randomized Evaluation," with Christel Vermeersch. Washington D.C.: The World Bank, Policy Research Working Paper Series: 3523, 2005

"Globalization and Inequality," with Eric Maskin, 2003.

"Decentralization: A Cautionary Tale," with Sylvie Moulin and Robert Namunyu, 2003.

"Why Are Drugs More Profitable Than Vaccines?" (with Christopher Snyder), NBER Working Paper 9833, 2003.

"Promoting School Participation in Rural Rajasthan: Results from Some Prospective Trials," with Abhijit Banerjee and Suraj Jacob, with Jenny Lanjouw and Peter Lanjouw, 2002.

"Should Taxes be Independent of Age?" under revision for *Quarterly Journal of Economics*, 2001.

"Globalization and International Public Finance," with Paras Mehta, NBER Working Paper 7575, 2000.

"Why Do Governments Operate Schools?" with Andrei Sarychev, 1998.

"Why Are Worker Cooperatives So Rare?" NBER Working Paper 6118, 1997.

"The Quantity-Quality Tradeoff in Education: Evidence from a Prospective Evaluation in Kenya," with Sylvie Moulin, David Myatt, and Robert Namunyu, 1997.

"Wage Inequality and Segregation by Skill," with Eric Maskin, under revision for *Quarterly Journal of Economics*. (NBER Working Paper 5718, 1996)

"Can Having Fewer Partners Increase the Prevalence of AIDS?" NBER Working Paper 4942, 1994.

Reports, Popular Publications, and Comments

"Can Tracking Improve Learning? Evidence from Kenya," with Esther Duflo and Pascaline Dupas. *Education Next*. Summer 2009, pp. 64-70.

"In Defense of a Good Reputation," in Michael Kinsley, ed., in *Creative Capitalism : A Conversation with Bill Gates, Warren Buffett, and other Economic Leaders*. New York: Simon and Schuster, 2008.

"You Can Make Profits and Save the Poor," in Michael Kinsley, ed., in *Creative Capitalism : A Conversation with Bill Gates, Warren Buffett, and other Economic Leaders*. New York: Simon and Schuster, 2008.

"Water Technologies: What Works Best in Poor Countries?" with Edward Miguel, Clair Null and Alix Zwane *Boston Review* 33:5 (September/October, 2008), p. 9.

"Promoting Innovation to Solve Global Challenges: Opportunities for R&D in Agriculture, Climate Change, and Health," with Heidi Williams. German Marshall Fund, Oct 2 2008.

"Deciphering the Demand for Safe Drinking Water," with Edward Miguel, Clair Null, and Alix Zwane. *Resources for the Future*, Weekly Policy Commentary September 1, 2008. Available at <http://www.rff.org/Publications/WPC/Pages/Decipheringthedemandforsafedrinkingwater.aspx>

"Mecca and moderation," with Asim Ijaz Khwaha and David Clingingsmith. *International Herald Tribune*, May 20, 2008.

“Education in the Developing World,” *American Academy of Arts and Sciences Bulletin* 60: 4 (Summer 2007) pp. 16-19.

“Delivering Health Care,” with David Clingingsmith, *Boston Review* 31:2 (March/April 2007), p 15.

“Loan Sanctions,” with Seema Jayachandran. *The Washington Post*. February 7, 2007.

“Expanding Educational Opportunity on a Budget: Lessons from Randomized Evaluations” in Joel E. Cohen, David E. Bloom, and Martin B. Malin, eds., *Educating All Children: A Global Agenda*. Cambridge, Mass: American Academy of Arts and Sciences: MIT Press, 2006. Reprinted in *Improving Education Through Assessment, Innovation, and Evaluation*. American Academy of Arts and Sciences: Project on Universal Basic and Secondary Education: Cambridge (MIT Press), 2006.

“Impact Evaluation for Slum Upgrading Interventions,” with Erica Field. Doing Impact Evaluation Series No. 3 Thematic Group on Poverty Analysis, Monitoring and Impact Evaluation, The World Bank. Washington D.C., 2006.

“HIV/AIDS prevention: the potential of primary education,” *Centre Piece, the Centre for Economic Performance*, the London School of Economics. pp. 22-24 Autumn 2006.

Making Markets For Vaccines, Ideas To Action with Ruth Levine and Alice Albright. The Report of the Center for Global Development Working Group Advance Market Commitment Working Group. Washington, DC: Center for Global Development, 2005.

“Making Vaccines Pay: Saving Lives With Markets,” *The Milken Institute Review*, First Quarter, 2004: 42-53.

"Randomized Evaluations of Interventions in Social Service Delivery," with Esther Duflo and Rachel Glennerster, *Development Outreach* 6(1), March 2004.

“The Match Game,” *Forbes Magazine*, September 15, 2003.

“A Dictator’s Crippling Debt,” with Seema Jayachandran, *Harvard Magazine*, July 2003.

"Make Odious Debt Too Risky to Issue," with Seema Jayachandran, *Financial Times*, May 8, 2003.

"Odious Debt: When Dictators Borrow, Who Repays the Loans?" with Seema Jayachandran, *Brookings Review*, 21(2), Spring 2003.

"Regional Public Goods and Health in Latin America," with Jessica Leino, 2003.

"A World of Junk-Status States," with Seema Jayachandran, *The Guardian* (London), August 19, 2002.

"Odious Debt," with Seema Jayachandran, *Brookings Institution Policy Brief #103*, July 2002. Available at <http://www.brookings.org/comm/policybriefs/pb103.htm>.

"Odious Debt," with Seema Jayachandran, *Finance and Development* (IMF), 39(2), June 2002.

"Creating a Market for Vaccines," with Rachel Glennerster, *New York Times*, June 1, 2001.

"Creating Markets for New Vaccines," in Christopher D. Gerrard, Marco Ferroni, and Ashoka Mody, eds., *Global Public Policies and Programs: Implications for Financing and Evaluation Proceedings from a World Bank Workshop*, 2001. . Washington, D.C.: The World Bank.

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