

Michael Kremer

Harvard University, Department of Economics, Littauer Center M-20, Cambridge, MA 02138
Tel: 617/495-9145. Fax: 617/495-7730. E-mail: mkremer@fas.harvard.edu

Education

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

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

Experience

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, 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.

Consultant, Development Economics Research Group (DECRG), The World Bank, 2001-Present.

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

Associate Editor, Journal of Development Economics, 1999-Present.

Associate Editor, Quarterly Journal of Economics, 1998-Present.

Publications**BOOKS**

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

ACADEMIC ARTICLES AND BOOK CHAPTERS

"Incentives in Markets, Firms, and Governments," with Daron Acemoglu and Atif Mian, *Journal of Law, Economics, and Organization*, forthcoming 2008 (NBER Working Paper 9802, 2003).

"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*, forthcoming.

"The Illusion of Sustainability," with Edward Miguel. *Quarterly Journal of Economics*, forthcoming. (NBER Working Paper 10324, 2004.)

"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.

"Expanding Educational Opportunity on a Budget: Lessons from Randomized Evaluations," 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.

"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).

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

“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.

“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.

“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

“The Illusion of Sustainability,” with Edward Miguel, in William Easterly, ed., *Reinventing Foreign Aid*, Cambridge: MIT Press, forthcoming.

"Advance Market Commitments: A Policy to Stimulate Investment in Vaccines for Neglected Diseases," with Owen Barder and Heidi Williams. *The Economists' Voice*, vol. 3, no. 3 (2006) <http://www.bepress.com/ev/vol3/iss3/art1/>.

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

“Creating Incentives For Private Sector Involvement In Poverty Reduction :Purchase Commitments In Tropical Agriculture” with Alix Zwane in Inge Kaul and Pedro Conceição, eds., *The New Public Finance: Responding to Global Challenges*, United Nations Development Program, New York: Oxford University Press, 2006.

“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*, 1:2004:217-222. Brookings Institution Press.

"Regional Public Goods and Health in Latin America," (with Jessica Leino) in Antoni Esteveordal, 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.

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

"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, pp.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)

"Comment on 'Ending Africa's Poverty Trap' (Jeffrey Sachs *et al.*), *Brookings Papers on Economic Activity*, January 2004.

"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," reprinted in Dyna Arhin-Tenkorang and Pedro Conceição, "Beyond Communicable Disease Control: Health in the Age of Globalization," 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).

"Income Distribution Dynamics with Endogenous Fertility," with Daniel Chen, *Journal of Economic Growth* 7(3), September 2002, pp. 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 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*, UNDP/ODS, 2002.

"Does Favorable Tax-Treatment of Housing Reduce Equipment Investment?," with Ben Broadbent, *Journal of Public Economics*, 81(3), 2001, pp. 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*, March 2000, pp. 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*, November 1998, pp.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, pp. 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, pp. 5-28. (NBER Working Paper 4827, 1994)

"Disorganization," with Olivier Blanchard, *Quarterly Journal of Economics*, November 1997, pp. 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*, February 1997, pp. 115-139. (NBER Working Paper 5566, 1996)

"Integrating Behavioral Choice into Epidemiological Models of the AIDS Epidemic," *Quarterly Journal of Economics*, May 1996, pp. 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*. August, 1993, pp. 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.), *Population Economics*, forthcoming.

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

Other Papers

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

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

"Using Randomization in Development Economics Research: A Toolkit," with Esther Duflo and Rachel Glennerster. NBER NBER Technical Working Paper No. 333, December 2006.

"Teacher Incentives," with Paul Glewwe and Nauman Ilias, NBER Working Paper 9671, 2003.

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

"Peer Effects and Alcohol Use Among College Students," with Dan Levy, NBER Working Paper 9876, 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.

"Encouraging Technical Progress in Tropical Agriculture," with Alix Zwane, 2002.

"A Biological Model of Unions," with Ben Olken, NBER Working Paper 8257, 2001.

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

"Outside Funding of Community Organizations: Benefiting or Displacing the Poor?" with Mary Kay Gugerty, NBER Working Paper 7896, 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.

"Textbooks and Test Scores: Evidence from a Prospective Evaluation in Kenya," with Paul Glewwe and Sylvie Moulin, 1997.

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

Reports, Articles in Popular Press and Comments

"Loan Sanctions," with Seema Jayachandran. *The Washington Post*. February 8, 2007.

"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.

"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.

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

"Odious Debt," 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.

"Stimulating Industrial R&D for Neglected Infectious Diseases: Economic Perspectives," with David Webber, *Bulletin of the World Health Organization*, 79(8), 2001, pp. 693-801.

"A Tax Credit for Sales of HIV, Malaria, and Tuberculosis Vaccines," with Amir Attaran, Jeffrey Sachs, and Sara Sievers, 2000.

"A Better Way to Spur Medical Research and Development," with Rachel Glennerster, *Regulation* 23(2), 2000, pp. 34-39.

"A World Bank Vaccine Commitment," with Rachel Glennerster, Brookings Institution Policy Brief #57, May 2000. Available at <http://www.brookings.edu/comm/policybriefs/pb57.htm>.

"A Cure for Indifference," with Jeffrey Sachs, *Financial Times*, May 5, 1999.

"Restructuring Social Security Taxes," Brookings Institution Policy Brief #40, December 1998. Available at <http://www.brookings.edu/comm/policybriefs/pb40.htm>.