

# Norman Grantham Miller

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## Current Academic Positions

Director, Stanford Center for International Development, Stanford University, 2014 – Present  
Associate Professor of Medicine (with tenure), Stanford University, 2012 – Present  
Senior Fellow, Freeman Spogli Institute for International Studies, Stanford University, 2012 – Present  
Senior Fellow, Stanford Institute for Economic Policy Research, Stanford University, 2014 – Present  
Associate Professor of Economics (by courtesy), Stanford University, 2012 – Present  
Associate Professor of Health Research and Policy (by courtesy), Stanford University, 2012 – Present

Fields: Health Economics, Development Economics, Economic Demography

## Past Academic Positions

Assistant Professor of Medicine, Stanford University, 2005 – 2012  
Assistant Professor of Economics (by courtesy), Stanford University, 2006 – 2012  
Assistant Professor of Health Research and Policy (by courtesy), Stanford University, 2006 – 2012  
Visitor, Department of Economics, Universidad de los Andes (Bogotá, Colombia), 2008 – 2010

## Education

Ph.D., Health Policy (Economics Track), Harvard University, 2005  
Dissertation Committee: David Cutler (Chair), David Bloom, Ken Chay, and Richard Frank  
Master of Public Policy, John F. Kennedy School of Government, Harvard University, 2000  
B.A., Psychology (Intensive Major with Distinction), Yale University, 1995

## Honors and Affiliations

2015- Non-Resident Fellow, Center for Global Development  
2015- Global Advisory Board, Kolkata Public Health Institute  
2015- Faculty Committee, Center for Effective Global Action (CEGA)  
2014- Affiliate, Abdul Latif Jameel Poverty Action Lab (J-PAL)  
2013- Research Associate, ESRC Research Centre for Micro-Social Change (MISOC), Institute for Social and Economic Research, University of Essex  
2013 Excellence in Refereeing Award, American Economic Review  
2012- Research Associate, National Bureau of Economic Research (NBER)  
2012-2014 Member, Urban Services Initiative, Abdul Latif Jameel Poverty Action Lab (J-PAL)  
2011 Divisional Teaching Award, Department of Medicine, Stanford University  
2011- Faculty Affiliate, Center for Effective Global Action (CEGA)  
2010- Co-Founder, Collaboration for Health System Improvement and Impact Evaluation in India (COHESIVE-India)  
2010 Inter-American Prize for Research on Social Security, Conferencia Interamericana de Seguridad Social (CISS)  
2010-2012 International Research Fellow, Centre for Market and Public Organisation (CMPO), University of Bristol  
2009 Divisional Teaching Award, Department of Medicine, Stanford University  
2009- Faculty Affiliate, Woods Institute for the Environment, Stanford University  
2007- Faculty Affiliate, Interdisciplinary Program in Environment and Resources (IPER), Stanford University

- 2006 Biennial Prize for Distinguished Contribution to Population Scholarship, American Sociological Association Section on Population
- 2006 Best Student Paper Prize, American Society of Health Economists (ASHE)
- 2005-2012 Faculty Research Fellow, National Bureau of Economic Research (NBER)
- 2005- Faculty Fellow, Stanford Center for International Development
- 2005- Faculty Affiliate, Stanford Center for Latin American Studies
- 2002-2005 Pre-Doctoral Fellow in Aging and Health Economics, National Bureau of Economic Research (NBER)
- 2002-2004 Graduate Student Fellow, Harvard Center for International Development
- 2000-2002 Doctoral Trainee, Agency for Healthcare Research and Quality (AHRQ)

## **Publications**

- “Population Policy: Abortion and Modern Contraception are Substitutes,” Demography, Conditionally Accepted (with Christine Valente)
- “Family Planning Program Effects: A Review of Evidence from Microdata,” Population and Development Review, Forthcoming (with Kim Singer Babiarz).
- “Intended and Unintended Consequences of China’s ‘Zero Mark-Up’ Drug Policy,” Health Affairs 34(8): 1391-1398, 2015 (with Shaoping Li, Scott Rozelle, Hongmei Yi, and Linxiu Zhang).
- “Family Planning: Program Effects,” in Irma Elo and Andrew Foster (volume eds.), International Encyclopedia of the Social and Behavioral Sciences, Second Edition, Elsevier, 2015 (with Kim Singer Babiarz).
- “An Exploration of China’s Mortality Decline under Mao: A Provincial Analysis, 1950-1980,” Population Studies 69(1): 39-56, 2015 (with Karen Eggleston, Kim Singer Babiarz, and Qiong Zhang).
- “Learning about New Technologies through Social Networks: Experimental Evidence on Non-Traditional Stoves in Bangladesh,” Marketing Science, Articles in Advance (published online April 21, 2014) (with Mushfiq Mobarak).
- “Impact of the Chiranjeevi Yojana Program on Institutional Deliveries and Birth Outcomes in Gujarat, India,” Bulletin of the World Health Organization 92: 187-194, 2014 (with Sebastian Bauhoff, Manoj Mohanan, Gerard La Forgia, Kim Singer Babiarz, and Kultar Singh).
- “Pay-for-Performance Incentives in Low- and Middle-Income Country Health Programs,” in Tony Cuyler (ed.), Encyclopedia of Health Economics, Elsevier, 2014 (with Kim Singer Babiarz).
- “Risk Protection, Service Use, and Health Outcomes under Colombia’s Health Insurance Program for the Poor,” American Economic Journal: Applied Economics 5(4): 61-91, 2013 (with Diana Pinto and Marcos Vera-Hernández).
- “To Promote Adoption of Household Health Technologies, Think Beyond Health” [Commentary], American Journal of Public Health 103(1): 1736-1740, 2013 (with Mark Thurber, Christina Warner, Lauren Platt, Alexander Slaski, and Rajesh Gupta).
- “The Gorbachev Anti-Alcohol Campaign and Russia’s Mortality Crisis,” American Economic Journal: Applied Economics 5(2): 232-260, 2013 (with Jay Bhattacharya and Christina Gathmann).
- “PEPFAR and Adult Mortality – Reply” [Letter], Journal of the American Medical Association 308(10): 972-973, 2012 (with Eran Bendavid and Charles Holmes).

“Effectiveness of Provider Incentives for Anaemia Reduction in Rural China: A Cluster Randomised Trial,” BMJ 345: e4809, 2012 (with Renfu Luo, Linxiu Zhang, Sean Sylvia, Yaojiang Shi, Patricia Foo, Qiran Zhao, Reynaldo Martorell, Alexis Medina, and Scott Rozelle).

“Low Demand for Nontraditional Cookstove Technologies,” Proceedings of the National Academy of Sciences USA 109(27): 10815-10820, 2012 (with Mushfiq Mobarak, Puneet Dwivedi, Robert Bailis, and Lynn Hildemann).

“The Limits of Health and Nutrition Education: Evidence from Three Randomized Controlled Trials in Rural China,” CESifo Economic Studies 58(2): 385-404, 2012 (with Renfu Luo, Yaojiang Shi, Linxiu Zhang, Huiping Zhang, Alexis Medina, and Scott Rozelle).

“HIV Development Assistance and Adult Mortality in Africa,” Journal of the American Medical Association 307(19): 2060-2067, 2012 (with Eran Bendavid, Charles Holmes, and Jay Bhattacharya).

“Impact of China’s New Cooperative Medical Scheme on Township Health Centers,” Health Affairs 31(5): 1065-1074, 2012 (with Kim Singer Babiarz, Hongmei Yi, Linxiu Zhang, and Scott Rozelle).

“United States Aid Policy and Induced Abortion in Sub-Saharan Africa,” Bulletin of the World Health Organization 89: 873-880, 2011 (with Eran Bendavid and Patrick Avila).

“Anaemia among Students of Rural China’s Elementary Schools: Prevalence and Correlates in Ningxia and Qinghai’s Poor Counties,” Journal of Health, Population and Nutrition 29(5): 471-485, 2011 (with Renfu Luo, Linxiu Zhang, Chengfang Liu, Qiran Zhao, Yaojiang Shi, Elaine Yu, Brian Sharbono, Alexis Medina, Scott Rozelle, and Reynaldo Martorell).

“Cyclicity, Mortality, and the Value of Time: The Case of Coffee Price Fluctuations and Child Survival in Colombia,” Journal of Political Economy 118(1): 113-155, 2010 (with Piedad Urdinola).

“The Relation of Price of Antiretroviral Drugs and Foreign Assistance with Coverage of HIV Treatment in Africa: Retrospective Study,” BMJ 341: c6218, 2010 (with Eran Bendavid, Jay Bhattacharya, Eric Leroux, and Nicole Smith).

“New Evidence on the Impact of China’s New Cooperative Medical Scheme and Its Implications for Rural Primary Care,” BMJ 341: c5617, 2010 (with Kim Singer Babiarz, Hongmei Yi, Linxiu Zhang, and Scott Rozelle).

“Contraception as Development? New Evidence from Family Planning in Colombia,” Economic Journal 120(545): 709-736, 2010.

“The U.S. Global Health Initiative: Informing Policy with Evidence” [Commentary], Journal of the American Medical Association 304(7): 791-792, 2010 (with Eran Bendavid).

“AIDS and Declining Support for Africa’s Dependent Elderly: A Retrospective Analysis Using Demographic and Health Surveys,” BMJ 340: c2841, 2010 (with Tim Kautz, Eran Bendavid, and Jay Bhattacharya).

“Women’s Suffrage, Political Responsiveness, and Child Survival in American History,” Quarterly Journal of Economics 123(3): 1287-1327, 2008.

“Evidence on Early-Life Income and Late-Life Health from America’s Dust Bowl Era,” Proceedings of the National Academy of Sciences USA 104(33): 13244-13249, 2007 (with David Cutler and Doug Norton).

“Water, Water Everywhere: Municipal Finance and Water Supply in American Cities,” in Edward Glaeser and Claudia Goldin (eds.), Corruption and Reform: Lessons from America's Economic History, University of Chicago Press, 2006 (with David Cutler).

“The Role of Public Health Improvements in Health Advances: The 20<sup>th</sup> Century United States” Demography 42(1): 1-22, 2005 (with David Cutler).

“The Impact of Medicaid Managed Care on Community Clinics in Sacramento County, California,” American Journal of Public Health 89(6): 913-17, 1999 (with Carol Korenbrot and John Greene).

### **Working Papers**

“Early Population Sex Imbalance and Probable Female Infanticide in Modern China,” 2016 (with Kim Singer Babiarz, Paul Ma, and Shige Song)

“The Stanford-India Emergency Management and Research Institute (EMRI) Study: Early Findings,” 2015 (with Kim Singer Babiarz, Nomita Divi, and S.V. Mahadevan)

“Can Bureaucrats Really be Paid Like CEOs? School Administrator Incentives for Anemia Reduction in Rural China,” NBER Working Paper 21302, 2015 (with Renfu Luo, Scott Rozelle, Sean Sylvia, and Marcos Vera-Hernández)

“Gender Differences in Preferences, Intra-Household Externalities, and Low Demand for Improved Cookstoves,” Revise and Resubmit, 2013 (with Mushfiq Mobarak)

### **Research in Progress**

“The Empirics of Optimal Health Insurance in Developing Countries” (with Giancarlo Buitrago and Marcos Vera-Hernández)

“Family Planning, Fertility Decline, and Sex Imbalance in China Prior to the One Child Policy” (with Kim Singer Babiarz, Paul Ma, and Shige Song)

“Multiple Tasks and Multiple Rewards: Experimental Evidence on Performance Incentives, Alignment, and Complementarity from Chinese Schools” (with Renfu Luo, Scott Rozelle, Sean Sylvia, and Marcos Vera-Hernández)

“Should Performance Pay Reward Health Input Use or Health Outcomes? Experimental Evidence from Maternal and Child Health Programs in India” (with Katherine Donato, Manoj Mohanan, and Yulya Truskinovsky)

“Bacteriology and Mortality Decline in Post-War Italy” (with Marcella Alsan, Vincenzo Atella, Jay Bhattacharya, and Valentina Conti)

“Political Incentives for Population Health Improvement” (with Ayesha Ali, Alberto Diaz-Cayeros, Beatriz Magaloni, and Paul Wise)

“More to Live for: Health Investment Responses to Expected Retirement Wealth in Chile” (with Nieves Valdes and Marcos Vera-Hernández)

“Programa Agua Limpia and Mortality in Mexico” (with Sonia Bhalotra, Alberto Diaz-Cayeros, Alfonso Miranda, and Atheendar Venkataramani)

“The Bihar Evaluation of Social Franchising and Telemedicine” (with Jeremy Goldhaber-Fiebert, Manish Kakkar, Manoj Mohanan, and Marcos Vera-Hernández)

## **Academic Presentations**

Abt Associates (2005), American Economic Association Annual Meeting (2006, 2013), Bay Area Colloquium on Population (2011), BU/Harvard/MIT Health Economics Seminar (2005), BU/Princeton Conference on the Distal Determinants of Public Health (2010), Brown Population Studies Center (2012), Center for Chinese Agricultural Policy (2012), Central Bank of Colombia (2009), CESifo Conference on the Causes of Malnutrition in South Asia (2011), Cliometric Society Annual Conference (2007), Colombian Health Economics Association Congress (2008), Columbia Department of Economics (2016), Cornell Conference on Infectious Diseases and the Social Sciences (2007), Duke Department of Economics (2016), Duke Development Workshop (2007), Duke Global Health Institute (2011), Duke Population Research Institute (2011), Erasmus School of Economics (2016), Fedesarrollo (2005), Harvard Center for Population and Development Studies (2003, 2004), Harvard Medical School (2003, 2004, 2005), Harvard School of Public Health (2006), International Health Economics Association (2009), International Society for New Institutional Economics (2006), Johns Hopkins Critical Studies of Global Health Seminar (2013), Johns Hopkins School of Public Health (2005), Linfield College Edith Green Endowed Lecture (2012), NBER Cohort Studies Meeting (2007, 2009), NBER Summer Institute Children's Program Meeting (2006), NBER Summer Institute Health Economics Program Meeting (2009, 2011), National University of Colombia (2009), NEUDC (2007, 2008, 2009), New York University Department of Economics (2016), Ningxia University Department of Economics and Management (2009), Northwestern University Department of Economics (2008), Oregon Historical Society (2012), Pan American Health Organization (2003), Penn State Center on Population Health and Aging (2007), Population Association of America Annual Conference (2004, 2006, 2012, 2015), Princeton Department of Economics (2010), RAND (2005, 2012), Stanford Center for International Development (2006, 2008), Stanford Conference on Global Governance and Global Health (2010), Stanford Conference on Public Goods Provision and the Efficacy of Governance (2012), Stanford Department of Civil and Environmental Engineering (2006), Stanford Department of Economics (2008), Stanford Medical School (2005, 2006, 2007, 2008, 2009, 2012, 2015), Stanford Medical School Grand Rounds, Division of Pulmonary and Critical Care Medicine (2015), Triangle Resource and Environmental Economics Seminar (2015), Tulane Department of Economics (2013), Universidad de los Andes Department of Economics (2008, 2010), Universidad de los Andes School of Medicine (2010), University of Bristol Department of Economics (2008), University of Bristol Centre for Market and Public Organisation (2012, 2013), UC Berkeley Department of Demography (2005, 2007, 2010, 2011, 2014), UC Berkeley Department of Economics (2007, 2012), UC Berkeley Water Center (2006), UC Irvine Department of Economics (2010), UCLA California Center for Population Research (2007, 2011), UC San Diego Department of Economics (2015), UC San Francisco Medical School (2006), University of Cambridge Department of Economics (2008), University of Chicago Center for Population Economics (2008), University of Chicago Harris School of Public Policy (2005), University College London Department of Economics (2005), University College London/London School of Economics Development Economics Seminar (2008), University of Colorado Boulder Department of Economics (2005, 2015), University of Illinois at Chicago Department of Economics (2007), University of Michigan Population Studies Center (2006, 2014), University of Michigan RWJ Scholars Seminar (2006), University of Minnesota International Economic Development Conference (2006), University of North Carolina Chapel Hill School of Public Health (2005), University of Southern California Department of Economics (2014), University of Southern California Department of Gerontology (2015), University of Southern Denmark (2016), University of Wisconsin Center for Demography and Ecology (2007, 2014), UNU-WIDER (2006), Vanderbilt GPED 50<sup>th</sup> Anniversary Conference (2006), World Bank Development Economics Research Group (2008), Yale Department of Economics (2010), Yale School of Public Health (2011)

## **Professional Service**

Grant Reviewer: National Institutes of Health (NIH); National Science Foundation (NSF); Agriculture Technology Adoption Initiative (ATAI), Abdul Latif Jameel Poverty Action Lab (J-PAL) and Center for Effective Global Action (CEGA); Urban Services Initiative (USI), Abdul Latif Jameel Poverty Action Lab (J-PAL)

Referee: *American Economic Journal: Applied Economics*; *American Economic Review*; *American Heart Journal*; *American Journal of Tropical Medicine and Hygiene*; *B.E. Journal of Economic Analysis & Policy*; *BMJ*; *Demography*; *Economic Development and Cultural Change*; *Economic Journal*; *Economics Bulletin*; *Forum for Health Economics and Policy*; *Health Economics*; *Journal of the American College of Cardiology*; *Journal of Economic History*; *Journal of the European Economic Association*; *Journal of Health Economics*; *Journal of Human Resources*; *Journal of Labor Economics*; *Journal of Law, Economics, and Organization*; *Journal of Policy Analysis and Management*; *Journal of Political Economy*; *Journal of Public Economics*; *Lancet*; *Medical Care*; *PLOS Medicine*; *Population Studies*; *Proceedings of the National Academy of Sciences USA*; *Quarterly Journal of Economics*; *Review of Economic Studies*; *Review of Economics and Statistics*; *Review of Economics of the Household*; *Science*; *Social Science & Medicine*; *World Politics*

### **Teaching**

Economics 127/Medicine 262: “The Economics of Health Improvement in Developing Countries” (2007, 2008, 2009, 2011, 2012, 2013, 2015)

Human Biology 129W: “Health Care Systems around the World” (2014, 2016)

### **Funding**

World Bank, 6/2015-12/2017

“Analysis of Provider Payment Reforms on Advancing China’s Health (APPROACH): An Evaluation of County Hospitals”

Principal Investigator, Stanford Subcontract (PI: Winnie Yip)

\$169,409

Global Development and Poverty Initiative, Stanford University, 8/2014-8/2019

“The Stanford-India Health Policy Initiative and Micronutrient Deficiencies in Tamil Nadu, India”

Principal Investigator

\$525,000

Center for Innovation in Global Health, Stanford University, 8/2013-8/2014

“The Stanford-India Emergency Management and Research Institute (EMRI) Study”

Principal Investigator

\$40,000

FSI Global Underdevelopment Action Fund, Stanford University, 1/2012-1/2013

“Does Resource Scarcity Breed Innovation in Service Delivery?”

Principal Investigator

\$40,000

Walter H. Shorenstein Asia-Pacific Research Center, Stanford University, 9/2011-8/2012

“The Optimal Size of Health Performance Incentives”

Principal Investigator

\$150,000

NIH/NHLBI R01, 6/2011-5/2016

“Paying-for-Performance and Comparative Effectiveness of Strategies to Combat Anemia in China”

Principal Investigator

\$2,500,000

Bill and Melinda Gates Foundation, 6/2011-5/2015  
“The Bihar Evaluation of Social Franchising and Telemedicine”  
Principal Investigator, Stanford Subcontract (PI: Manoj Mohanan)  
\$3,050,000

Bill and Melinda Gates Foundation, 11/2010-6/2011  
“Preparatory Phase: The Bihar Evaluation of Social Franchising and Telemedicine”  
Principal Investigator, Stanford Subcontract (PI: Manoj Mohanan)  
\$426,990

NIH/Fogarty RC4, 9/2010-8/2013  
“Stanford Global Health Consortium: Innovation, Design, Evaluation, and Action (C-IDEA)”  
Investigator (PI: Michele Barry)  
\$5,042,663

International Initiative for Impact Evaluation (3IE), 5/2010-4/2012  
“Improving Maternal and Child Health in India: Evaluating Demand and Supply Side Strategies”  
Principal Investigator, Stanford Subcontract (PI: Manoj Mohanan)  
\$1,112,331

International Growth Centre, 11/2009-7/2010  
“Marketing Stoves through Social Networks to Combat Indoor Air Pollution”  
Co-Principal Investigator (with Mushfiq Mobarak)  
£18,810

Freeman Spogli Institute for International Studies, Stanford University, 9/2009-8/2010  
“Paying for Performance in China’s Battle against Anemia”  
Co-Principal Investigator (with Jennifer Adams)  
\$97,200

NIH/NIA P30 Seed Grant, 7/2008-6/2009  
“Health Improvement under Mao and Its Implications for Aging in China”  
Co-Principal Investigator (with Karen Eggleston)  
\$30,000

NIH/NICHD K01 Career Development Award, 6/2007-5/2011  
“The Causes and Behavioral Foundations of Mortality Decline in Developing Countries”  
Principal Investigator  
\$500,000

NIH/NICHD R03, 6/2007-5/2009  
“Women's Empowerment and Child Survival in the Historical United States”  
Principal Investigator  
\$100,000

Inter-American Development Bank, 6/2007-9/2008  
“Impact Evaluation of the Colombian Subsidized Health Insurance Regime”  
Co-Principal Investigator (with Marcos Vera-Hernandez and Diana Pinto)  
\$39,200

NIH/NIA P30 Seed Grant, 5/2007-4/2008  
“Temperance and the Russian Mortality Crisis”  
Co-Principal Investigator (with Jay Bhattacharya and Christina Gathmann)  
\$30,000

Woods Institute for the Environment, Stanford University, 7/2006-4/2009  
“The Causes and Consequences of Indoor Air Pollution: An Experimental Investigation in Bangladesh”  
Principal Investigator  
\$150,000

NIH/NIA P30 Seed Grant, 7/2006-6/2007  
“HIV/AIDS and Africa’s Orphaned Elderly”  
Co-Principal Investigator (with Jay Bhattacharya)  
\$30,000

Freeman Spogli Institute for International Studies, Stanford University, 4/2006-3/2009  
“Evaluating Institutional Responses to Market Liberalization: Why Latin America Was Left Behind”  
Investigator (PI: Judy Goldstein)  
\$150,000

NIH/NIA P30 Seed Grant, 11/2005-6/2006  
“Health Insurance and Well-Being among the Elderly in Colombia”  
Principal Investigator  
\$25,000

Walter H. Shorenstein Asia-Pacific Research Center, Stanford University, 10/2005-9/2006  
“The Causes and Consequences of Indoor Air Pollution: An Experimental Investigation in Bangladesh”  
Principal Investigator  
\$30,000

### **Selected Media Coverage**

*Atlanta Journal and Constitution, The Australian, British Broadcasting Corporation (BBC) World Today, Forskning, Hindustan Times, Huffington Post, Iceland Times, International Business Times, International Herald Tribune, Kaiser Family Foundation, Los Angeles Times, El Mercurio, National Public Radio (NPR), New York Times, El Pais, Der Spiegel, The Telegraph, The Times, Times of India, El Universal*