

**CURRICULUM VITAE**  
**DAVID E. BLOOM**

**April 2018**

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**PRESENT POSITION**

Harvard T.H. Chan School of Public Health  
Clarence James Gamble Professor of Economics and Demography (since July 2001)  
Professor of Economics and Demography, July 1999–June 2001  
Professor of Population and Health Economics, July 1996–June 1999

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**PREVIOUS POSITIONS**

Harvard Business School  
Visiting Professor (August 2011–June 2012)

Harvard University, School of Public Health  
Chair, Department of Global Health and Population (September 2001–August 2011)

Harvard University, Harvard Institute for International Development  
Deputy Director, July 1996–June 1999  
Acting Executive Director, July 1995–June 1996

Columbia University, Department of Economics  
Chairman, July 1990–December 1993  
Professor of Economics, July 1987–June 1996

Russell Sage Foundation  
Scholar-in-Residence, 1989–1990 academic year

Harvard University, Department of Economics  
Visiting Professor of Economics, July 1987–March 1988  
Paul Sack Associate Professor of Political Economy, July 1985–June 1987  
Assistant Professor of Economics, July 1982–June 1985

Carnegie-Mellon University, School of Urban and Public Affairs  
Assistant Professor of Economics, September 1980–June 1982

## PROFESSIONAL EXPERIENCE

- Member, Lahore University of Management Sciences (LUMS) International Advisory Board (January 2018–present)
- Founding Co-Editor, *Journal of the Economics of Ageing* (June 2012–present)
- Member, Editorial Board, *Demography India* (2012–present)
- Research Fellow, Institute of Labor Economics (IZA), Bonn, Germany (February 2012–present)
- Member, Population Services International (PSI) Board of Trustees (February 2010–January 2016)
- Member, John Snow Inc. Research & Training Institute (JSI R&T) Board (April 2012–present)
- Faculty Director, Harvard University Program on Global Demography of Aging (September 2004–present)
- Associate, Higher Education Training and Development Unit (HETD) at the University of Kwazulu-Natal, affiliated with the Boston College Center for International Higher Education (2017–present)
- Member, Editorial Board, *International Journal of African Higher Education* (2013–present)
- Member, Department for International Development (DFID) Higher Education Taskforce (August 2013–July 2014)
- Member, Research Council of the Aix-Marseille School of Economics (AMSE) (2013–present)
- Member, Center for Global Development Advisory Group (2013–present)
- Member, African Population and Health Research Centre (APHRC)–United Nations Economic Commission for Africa (UNECA)–African Union Commission (AUC) Working Group on Ageing, Food and Nutrition Security and a Demographic Dividend in Africa (2013–present)
- Member, International Outreach Committee, Population Association of America (2010–2013)
- Faculty Associate, Weatherhead Center for International Affairs (2009–present)
- Member, Global Agenda Council on “Chronic Disease and Malnutrition,” World Economic Forum (2008–2009); Global Agenda Council on “Health Systems,” World Economic Forum (2008–2009); and Global Risk Network, World Economic Forum (2009–2010)
- Chair, Global Agenda Council on “Population Growth,” World Economic Forum (2009–2010)
- Chair, Global Agenda Council on “Demographic Shifts,” World Economic Forum (2008–2009)
- Chair, Global Agenda Council on “Ageing Society,” World Economic Forum (2010–2012)

- Chair, Global Agenda Council on “Education and Skills,” World Economic Forum (2012–2014)
- Chair, Industry Agenda Council on “Future of the Health Sector,” World Economic Forum (2014–2016)
- Member, Global Vaccines Strategy Advisory Board, Merck (2014–2017)
- Principal Research Adviser, United Nations Population Fund (UNFPA), State of World Population 2014–15 report
- Senior Consultant, Data for Decisions, LLC (March 2007–present)
- Member, Advisory Board, Chinese Health and Retirement Longitudinal Survey (2006–present)
- Member, The Foundation for AIDS Research (amfAR) Board of Trustees, Adjunct Trustee (2005–2015)
- Member, amfAR Board of Directors (June 2000–September 2005)
- Member, amfAR Program Board, Chair of Public Policy Committee (2005–2015)
- Member, Editorial Board, *Applied Population and Policy* (2002–2004)
- Member, Book Review Board, *Science* (January 2000–June 2017)
- Faculty Associate, Harvard Center for International Development (July 2002–present)
- Faculty Fellow, Environmental Economics Program, Center for Business and Government, Harvard Kennedy School of Government (October 2000–present)
- Faculty Fellow, Center for Population and Development Studies, Harvard University (1996–present)
- Faculty Fellow, Harvard Institute for International Development, Harvard University (1996–2000)
- Member, Advisory Board of the World Demographic Association (November 2006–present)
- Member, UNAIDS Reference Group on Economics (October 2000–present)
- Study Co-Director and Head of Secretariat, Task Force on Higher Education and Society (1998–2000)
- Member, Nominating Committee, American Economic Association (1994–1995)
- Member, Board of Reviewing Editors, *Science* (August 1991–December 1999)
- Member, National Academy of Sciences’ Committee on Human Factors (1990–1992), National Academy of Sciences’ Committee on National Needs for Biomedical and Behavioral Research Personnel (January 1993–September 1994)
- Member, Science Advisory Panel, Guttmacher Institute (1987–1990)
- Contributing Editor, *American Demographics* (1986–1990)
- Associate Editor, *Review of Economics and Statistics* (1986–1992)
- Faculty Research Associate, National Bureau of Economic Research, Labor Studies Program (September 1985–present), Aging Program, Health Economics Program, Environmental and Energy Economics Program
- Faculty Research Fellow, National Bureau of Economic Research, Labor Studies Program (September 1982–August 1985)
- Fulbright Scholarship to conduct demographic research in India (1982–1983, 3 months)
- Consulting: National Academy of Sciences Committee on Population (Panel on Population Growth and Economic Development); National Academy of Sciences Committee on Science, Engineering, and Public Policy (Panel on Technology and

Employment; Committee on Population); World Health Organization; Inter-American Development Bank; Asian Development Bank Institute; UN Conference on Trade and Development; Ministry of Finance and Ministry of Education, Government of Indonesia (with Harvard Institute for International Development Advisory Group); IBM; Shearson, Lehman, Hutton; Xerox Corporation; Burlington Air Express; USAIR; World Bank (*World Development Report 1992, World Development Report 1993, World Development Report 1999, World Development Report 2000*, Environment and Poverty Division); United Nations Development Programme (*Social and Economic Implications of HIV/AIDS in Asia and the Pacific, Human Development Report 2001*); Chemical Bank; Asian Development Bank; Research Office of the State Council, Government of China; International Labour Organization (*World Employment Report*); Empire Blue Cross Blue Shield; Knolls Atomic Power Laboratory; Energy Transportation Corporation; General Electric Power Systems; MBNA; Bingham Dana LLP; Bingham McCutchen, LLP; AIG Aviation; Chase Fleming; ITT Automotive; Abt Associates; Sodexo Marriot; Association of Aviation Underwriters; The John D. and Catherine T. MacArthur Foundation; Putnam Investments; LEXECON; Beth Israel Deaconess Medical Center; PricewaterhouseCoopers; Honeywell; Smithsonian Institution; Wyeth Pharmaceuticals; Merck & Co.; GSK Biologicals; Data for Decisions, LLC.; Bank of America; Becton, Dickinson and Company; The Bill and Melinda Gates Foundation, UNFPA, International Monetary Fund.

- Refereeing: *New England Journal of Medicine; Demographic Research; Solutions; Bulletin of Indonesian Economic Studies; Journal of Population Ageing; Health Economics; European Journal of Health Economics; Environmental Health Perspectives; Contemporary Economic Policy; Macroeconomic Dynamics; Journal of Health Economics; Population, Space and Place; Canadian Journal of Sociology; Proceedings of the National Academy of Sciences; Environmental Conservation; Policy Studies Journal; World Development; Economics Letters; Journal of Financial Services Research; Economics of Education Review; Journal of Political Economy; Journal of the American Statistical Association; Journal of Business and Economic Statistics; Demography; Econometrica; Industrial and Labor Relations Review; Industrial Relations; Quarterly Journal of Economics; AREUEA Journal; Review of Economics and Statistics; International Economic Review; Journal of Family Issues; Advances in Industrial Relations; Journal of Labor Economics; Journal of AIDS; Journal of Economics and Business; Harvard Business Review; Journal of Human Resources; Rand Journal of Economics; European Journal of Population; Economic Journal; American Economic Review; Journal of Policy Analysis and Management; Science; Population Research and Policy Review; Population and Development Review; Journal of the American Medical Association; Economic Development and Cultural Change; Journal of Economic Literature; American Journal of Sociology; Quarterly Review of Economics and Business; International Journal of Forecasting; American Journal of Public Health; American Sociological Review; Public Finance Quarterly; Canadian Journal of Economics; Asian Development Review; Applied Demography; Journal of Population Economics; Review of Higher Education; Journal of Demographic Research; Journal of Environmental Economics and Management; Journal of Eastern Caribbean Studies; PharmacoEconomics; Journal of Economic Geography; Applied Population and Policy; Journal of Human Development; Bulletin of the World Health Organization; Social*

*Forces; Oxford Bulletin of Economics and Statistics; The B.E. Journals in Economic Analysis & Policy; Journal of African Finance and Economic Development; Social Service Review; Health Policy and Planning; Journal of Development Studies; Strategic Asia; Review of Income and Wealth; Vienna Yearbook of Population Research; American Journal of Public Health; Asian Population Studies; Milbank Quarterly; Social Science and Medicine; European Journal of Obstetrics & Gynecology and Reproductive Biology; Journal of Comparative Economics; Pan American Journal of Public Health; The Lancet; Journal of the Japanese and International Economies; Health Affairs; Journal of Health and Social Behavior; Management Science and Education; Journal of Economic Surveys; Expert Review of Pharmacoeconomics and Outcomes Research; British Medical Bulletin; Quality in Ageing and Older Adults; International Journal of Comparative Sociology; The Pediatric Infectious Disease Journal; Public Health Reports; The Journal of Economic Surveys; African Economic Research Consortium; World Bank publications; Taylor and Francis (Routledge); Social Science Research Council; Workers' Compensation Research Institute; National Science Foundation (Divisions of Economics, Law and Social Sciences, Decision Sciences, and Sociology); Russell Sage Foundation; Cambridge University Press; Stanford University Press; Oxford University Press; Elsevier North-Holland; McGraw-Hill; Macmillan Publishers; University of Chicago Press; Scott Foresman; Harper-Collins; Harvard University Press; Social Sciences and Humanities Research Council of Canada; The Wellcome Trust; The Guttmacher Institute; The Bank of Sweden Tercentenary Foundation; The Research Council of Norway; The Globalization Knowledge Network; Nike Foundation; Marsden Foundation; Economic and Social Research Council (UK); WOTRO Science for Global Development; Netherlands Organisation for Scientific Research; AXA Research Fund; Alfred P. Sloan Foundation; U.S. Bureau of the Census.*

## **RESEARCH INTERESTS**

- Applied Economics: labor, population, health, education, and development
- Demography
- Global Health
- International Education

## **TEACHING**

“Independent Study (GHP300): Sankara Eye Hospital Field Study,” Harvard T. H. Chan School of Public Health, winter 2017.

“Field Course: Impact Investing and Social Commercial Models,” with Michael Chu and Shawn Cole, Harvard Business School (HBS6908), spring 2012–2013, spring 2013–2014.

“Field Studies: Commercial Opportunities and High Impact Public Health Interventions,” with Michael Chu, joint Harvard Business School–Harvard School of Public Health, spring 2007,

spring 2008, spring 2009, spring 2010, spring 2011, spring 2012 (also with Shawn Cole and Kash Rangan).

“Foundations of Global Health and Population,” with Joel Lamstein, Harvard University School of Public Health, fall 2002, fall 2003, fall 2004, fall 2005, fall 2006, fall 2007 (PIH272), fall 2008 (GHP272), fall 2009 (GHP272a), fall 2010 (GHP272), fall 2012 (GHP272), fall 2013 (GHP272), fall 2015 (GHP272), fall 2016 (GHP272).

“Introduction to Global Health and Population,” Department of Economics, Harvard University, spring 2004 (Economics 1385).

“Doctoral Seminar in Population and International Health,” Harvard University School of Public Health, spring 2000, spring 2001, spring 2003.

“World Population and Health,” Harvard University School of Public Health, fall 1999, fall 2000, fall 2001 (PIH 200a).

“Population and Development,” with Allan Hill, Harvard University School of Public Health, winter 1998–99.

“Development and Living Standards,” with Amartya Sen, Harvard University School of Public Health and Department of Economics, fall 1996.

“Microeconomics for Economic Policy Management,” Columbia University School of International and Public Affairs, Program in Economic Policy Management, summer 1992, summer 1993, summer 1994, spring 1993, spring 1994, spring 1995.

“Economics of Labor and Population,” Columbia Economics Department PhD Program, fall 1987.

“Principles of Economics,” Columbia Economics Department Undergraduate Program, 1988–1989, 1990–1991, 1991–1992, 1992–1993.

“Labor Economics,” Columbia Economics Department Undergraduate Program, spring 1988, fall 1988.

“Labor Market Analysis,” Harvard Economics Department PhD Program, fall 1982, fall 1983, fall 1984, fall 1985, fall 1986.

“Applied Econometrics,” with Mark Watson or Chris Cavanagh, Harvard Economics Department PhD and Undergraduate Programs, spring 1984, spring 1985, spring 1986, spring 1987.

“Economics of Population,” with Harvey Leibenstein and Joseph Potter, Harvard Economics Department PhD and Undergraduate Programs, spring 1987.

“Research in Labor Economics,” Harvard Economics Department Undergraduate Program, fall and spring 1982–1987.

“Research Seminar in Demography,” with Joseph Potter and Michael Stoto, Harvard Center for Population Studies, 1985–1987.

“Trade Unions, Collective Bargaining, and Public Policy,” with John Dunlop, Harvard Economics Department Undergraduate Program, spring 1983, fall 1984.

“Applied Econometrics,” School of Urban and Public Affairs Master’s Program, two-semester sequence 1981–82.

“The Theory and Practice of Labor-Management Relations,” with Ben Fischer, School of Urban and Public Affairs Master’s Program, two-semester sequence 1980–1982.

“Applied Mathematical Demography,” School of Urban and Public Affairs PhD Program, spring 1981.

## HONORS AND DISTINCTIONS

- Excellence in Teaching citation for the 2016–2017 academic year, Harvard T.H. Chan School of Public Health.
- Andrew Carnegie Fellow, 2015–2018, Carnegie Corporation of New York.
- Visiting Faculty, Public Health Foundation of India, December 2014–November 2019.
- University of Waikato Golden Jubilee Distinguished Visiting Professor, Hamilton, New Zealand, October 2015.
- University of Waikato Honorary Professor, Department of Economics, Waikato Management School, Hamilton, New Zealand, November 5, 2014–November 3, 2017.
- Dr VKRV Rao Chair Professor, Institute for Social and Economic Change, Bangalore, India, 2013–2015.
- Ambassador in the Paul G. Rogers Society for Global Health Research, Research!America, 2008.
- Fellow of the American Academy of Arts and Sciences, Elected April 2005.
- Excellence in Teaching citation for the 2004–2005 academic year, Harvard School of Public Health.
- Attended World Economic Forum Annual Meetings in Davos, Switzerland, 2004 through 2016.
- One of Harvard’s “20 Most Outstanding Professors,” voted by the Harvard College Class of 2005 (October 2004).
- Inclusion in *Marquis’ Who’s Who*; *Who’s Who Among America’s Teachers*; *Who’s Who in Economics* (Blaug and Vane, 2004).
- Master of Arts, Harvard University, July 1996 (honorary).
- Alfred P. Sloan Research Fellow, September 1986–September 1991.
- 1987 Galbraith Award for “Good Teaching in Economics,” Harvard University (honorable mention: 1984, 1985, 1986).

## EDUCATION

- PhD, Economics and Demography, Princeton University, January 1981
- MA, Economics, Princeton University, June 1978
- BSc, Industrial and Labor Relations, New York State School of Industrial and Labor Relations, Cornell University, May 1976

**DATE OF BIRTH:** October 16, 1955

**PLACE OF BIRTH:** New York, USA

**FAMILY STATUS:** Married with two children

## PUBLICATIONS

“Epidemics and Economics: Managing the Risks”, with Daniel Cadarette and JP Sevilla, *Finance & Development*, forthcoming June 2018.

“Demography, Unemployment, Automation, and Digitalization: Implications for the Creation of (Decent) Jobs, 2010–2030,” with Mathew J. McKenna and Klaus Prettnner. Revision forthcoming in *International Social Security Review*, Vol. 72, No. 3 (2019).

“Linking Health and Education: ‘Commentary on Childhood Infections and Subsequent School Achievement Among 598,553 Danish Children,’” with Andrew Stawasz. *The Pediatric Infectious Disease Journal*, forthcoming 2018.

“The Broad Socioeconomic Benefits of Vaccination,” with Victoria Fan and JP Sevilla. *Science Translational Medicine*, forthcoming 2018.

“Legal Status and Deprivation in India’s Urban Slums: An Analysis of Two Decades of National Sample Survey Data,” with Laura B. Nolan and Ramnath Subbaraman. *Economic and Political Weekly*, forthcoming 2018.

“Economic Perspectives on Global Population Aging: Demography is Not Destiny,” with David Canning, and Alyssa Lubet, *Politica Exterior*, 2018.  
(<https://www.politicaexterior.com/articulos/politica-exterior/demografia-no-es-destino/>)

“Health and the Economy,” with Richard Smith, Jennifer Prah Ruger, Dean Jamison, and David Canning. *International Public Health: Diseases, Programs, Systems and Policies*, edited by Michael H. Merson, Robert E. Black, and Anne J. Mills, 4<sup>th</sup> edition, forthcoming 2018.

“Benefits and Costs of the HIV/AIDS Targets for the Post-2015 Development Agenda,” with Pascal Geldsetzer, Salal Humair, and Till Bärnighausen, *Prioritising Development: A cost-benefit analysis of the UN’s Global Goals*, edited by B. Lomborg, Cambridge University Press, Cambridge (England), Chapter 15, forthcoming 2018.



- “Benefits and Costs of the Women’s Health Targets for the Post-2015 Development Agenda,” with Dara Lee Luca, Johanne Helene Iversen, Alyssa Shiraishi Lubet, Elizabeth Mitgang, Kristine Husøy Onarheim, and Klaus Prettner, *Prioritising Development: A cost-benefit analysis of the UN’s Global Goals*, Chapter 12, forthcoming 2018.
- “Population Aging in India: Facts, Issues, and Options,” with Arunika Agarwal, Alyssa Lubet, Elizabeth Mitgang, and Sanjay Mohanty. *Population Change and Impacts in Asia and the Pacific: Regional Science Perspectives*, edited by Jacques Poot and Matthew Roskruge, Springer Books, forthcoming 2018.
- “The Economic Burden of Noncommunicable Diseases and Mental Health Conditions: Results for Costa Rica, Jamaica, and Peru,” with Simiao Chen and Mark McGovern. *Pan American Journal of Public Health*, February 2018, <https://doi.org/10.26633/RPSP.2018.18>
- “Escaping Poverty: Invest in Girls and Women,” with Michael Kuhn and Klaus Prettner. In *Eradicating Extreme Poverty*. Credit Suisse Group AG, Zurich, 2018, 9-21.
- “Market mechanisms for newborn health in Nepal,” with Karsten Lunze, Rosie Dawkins, Abeezer Tapia, Sidharth Anand, and Michael Chu. *BMC Pregnancy and Childbirth*, December 2017, <https://doi.org/10.1186/s12884-017-1599-7>
- “Demography of Global Ageing,” with Elizabeth Mitgang and Benjamin Osher. *Oxford Textbook of Geriatric Medicine (3 ed.)* edited by Jean-Pierre Michel, B. Lynn Beattie, Finbarr C. Martin, and Jeremy D. Walston, Oxford University Press, Oxford, December 2017, <http://dx.doi.org/10.1093/med/9780198701590.003.0001>
- “Deploy vaccines to fight superbugs,” with Rino Rappuoli and Steve Black. *Nature*, December 2017, <https://doi.org/10.1038/d41586-017-08323-0>
- “Clearing Children’s Lungs” with JP Sevilla and Andrew Stawasz. *Economic Times*, November 17, 2017, <https://www.pressreader.com/india/the-economic-times/20171117/282273845657985>.
- “Impact of Pneumococcal Vaccination on Pneumonia Hospitalizations and Related Costs in Ontario: A Population-Based Ecological Study,” with Dara Lee Luca, Jeffrey C. Kwong, Anna Chu, Beate Sander, Ryan O’Reilly, and Allison J. McGeer. *Clinical Infectious Diseases*, November 2017, 1-7.
- “The Full Benefits of Adult Pneumococcal Vaccination: A Systematic Review,” with Elizabeth T. Cafiero-Fonseca, Andrew Stawasz, Sydney T. Johnson, and Reiko Sato. *PLoS ONE*, October 2017, vol. 12(10), <https://doi.org/10.1371/journal.pone.0186903>
- “Invest in Women and Prosper,” with Michael Kuhn and Klaus Prettner. *Finance & Development*, vol. 54, No. 3, September 2017, 50-55. <http://www.imf.org/external/pubs/ft/fandd/2017/09/bloom.htm>

- “Population Dynamics in India and Implications for Economic Growth,” *Indian Economy since Independence: A comprehensive and critical analysis of India’s Economy 1947-2016*, edited by Uma Kapila, Academic Foundation, July 2017. (Reprinted from *The Handbook of the Indian Economy*, edited by Chetan Ghate, Oxford University Press, 2012, 462-95.)
- “Emerging Infectious Diseases: A Proactive Approach,” with Steven Black and Rino Rappuoli. *Proceedings of the National Academy of Sciences*, April 2017, vol. 114 (16) 4055-4059. doi: 10.1073/pnas.1701410114
- “Healthy, Wealthy & Wise,” with Alexander Khoury. *Economic Times*, March 2017, <http://blogs.economicstimes.indiatimes.com/et-commentary/many-reasons-to-be-optimistic-about-indias-childhood-immunisation-programmes/>.
- “Africa’s Prospects for Enjoying a Demographic Dividend,” with Michal Kuhn and Klaus Prettnner. *Journal of Demographic Economics*, February 2017, <https://doi.org/10.1017/dem.2016.19>
- “Disease and Economic Burdens of Dengue,” with Marcia C. Castro and Mary E. Wilson. *Lancet Infectious Diseases*, February 2017, doi: 10.1016/S1473-3099(16)30545-X.
- “Vaccination Ecosystem Health Check: Achieving Impact Today and Sustainability for Tomorrow,” with M. Saadatian-Elahi, S. Plotkin, V. Picot, J. Louis, and M. Watson. *BMC Proceedings*, January 2017, vol. 11, no. 1, supplement 2, doi: 10.1186/s12919-016-0069-y.
- “The Role of Vaccines and Vaccine Decision-Making to Achieve the Goals of the Grand Convergence in Public Health,” with David C. Kaslow, Jorge Kalil, Anna Maria Rosaria Colucci, Richard Seabrook, Gianluca Genevieve Meier, Xiaoning Xu, Guru Madhavan, and Ennio X DeGregorio. *Vaccine*, vol. 35, no. 1, January 2017, A10-15. <https://doi.org/10.1016/j.vaccine.2016.10.088>
- “Chlorination of Drinking Water in Emergencies: A Review of Knowledge to Develop Recommendations for Implementation and Research Needed,” with Ariel Branz, Matthew Levine, Andy Bastable, Syed Imran Ali, Khalid Kadir, Travis Yates, and Daniele Lantagne. *Waterlines*, vol. 36, no. 1, January 2017, <http://www.developmentbookshelf.com/doi/pdf/10.3362/1756-3488.2017.002>
- “Nutritional Considerations for Healthy Aging and Reduction in Age-Related Chronic Disease,” with Julie Shlisky, Amy R. Beaudreault, Katherine L. Tucker, Heather H. Keller, Yvonne Freund-Levi, Roger A. Fielding, Gordon L. Jensen, and Simin N. Meydani. *Advances in Nutrition*, vol. 8, no. 1, January 2017, 17-26, doi:10.3945/an.116.013474.
- “Moving Beyond Traditional Valuation of Vaccination: Needs and Opportunities,” with Logan Brenzel, Daniel Cadarette, and Jessica Sullivan. *Vaccine*, vol. 35, supplement 1, January 2017, A29-A35, doi: 10.1016/j.vaccine.2016.12.001.
- “Misaligned Stakeholders and Health System Underperformance,” with Daniel Cadarette, Jonty Roland, Jessica Sullivan, and members of the World Economic Forum’s Industry Agenda Council on the Future of the Health Sector. World Economic Forum, Geneva (Switzerland),

December 2016, [www.weforum.org/whitepapers/misaligned-stakeholders-and-health-system-underperformance](http://www.weforum.org/whitepapers/misaligned-stakeholders-and-health-system-underperformance).

“Looking Back on the Lessons of ‘Higher Education and Developing Countries: Peril and Promise’—Perspectives on China and India,” with Philip G. Altbach and Henry Rosovsky. *Journal of African Higher Education*, “Peril and Promise Fifteen Years on: Analysis and Critique” (Special Issue), vol. 3, no.1, 2016.

“Human Resources for Treating HIV/AIDS: Are the Preventive Effects of Antiretroviral Treatment a Game Changer?” with Till Bärnighausen and Salal Humair. *PLOS One*, vol.11, no. 10, 2016, <http://dx.doi.org/10.1371/journal.pone.0163960>, 1-24, <http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0163960>.

“Global Demography of Ageing: Facts, Explanations, Future,” with Dara Lee Luca. *Handbook of the Economics of Population Aging*, edited by John Piggott and Alan Woodland, Elsevier, Amsterdam, 2016, 3-56.

“Supporting Girls Today for the Collective Well-Being of Tomorrow,” with Alyssa Lubet, Johanne Helene Iversen, Michael Kuhn, Dara Lee Luca, Kristine Husøy Onarheim, and Klaus Prettner. *State of World Population 2016*, Chapter 4, UNFPA, New York, 47-61.

“Demographic Influences on U.S. Economic Prospects,” with Jay W. Lorsch. *The Good Crisis: How Population Stabilization Can Foster a Healthy U.S. Economy*, Population Connection, 2016, 1 -11.

“Human Capital and Aging: Introduction,” with Alfonso Sousa-Poza. *Journal of the Economics of Ageing*, vol.7, April 2016, 61-3.

“The Effect of HIV and the Modifying Effect of Anti-Retroviral Therapy (ART) on Body Mass Index (BMI) and Blood Pressure Levels in Rural South Africa,” with Andrea Feigl, Goodarz Danaei, Deenan Pillay, Joshua Salomon, Frank Tanser, and Till Bärnighausen. *PLOS One*, vol. 11, no. 8, 2016, e0158264, doi:10.1371/journal.pone.0158264.

“Economic Benefits of Investing in Women's Health: A Systematic Review,” with Kristine Husøy Onarheim and Johanne Helene Iversen. *PLOS One*, vol. 11, no. 3, 2016, e0150120, <http://dx.doi.org/10.1371/journal.pone.0150120>.

“Global Demographic Upheaval.” *Finance & Development*, vol. 53, no. 1, March 2016, 6-11.

“Biological Markers and the Health of Older Indians: Results from the 2010 LASI Pilot,” with Perianayagam Arokiasamy, Jinkook Lee, J. O’Brien, S. Parasuraman, and Uttam Acharya. *Economic and Political Weekly*, vol. LI, no. 1, January 2, 2016, 47-58.

“Global Health: Past Progress, Current Situation, and Future Prospects,” with Alyssa Lubet and Elizabeth Mitgang. *Ministers Reference Book: Commonwealth 2015*, f2015, 122-8.

- “The Contribution of Female Health to Economic Development,” with Michael Kuhn and Klaus Prettner. *VoxEU*, October 9, 2015, [www.voxeu.org/article/women-s-health-and-economic-development](http://www.voxeu.org/article/women-s-health-and-economic-development).
- “Feature Interview with Lord Adair Turner.” *Journal of the Economics of Ageing*, vol. 6, December 2015, 1-4.
- “Education, Gender, and State-Level Gradients in the Health of Older Indians: Evidence from Biomarker Data,” with Jinkook Lee, Mark McGovern, Perianayagam Arokiasamy, Arun Risbud, Varsha Kale, Jennifer O’Brien, and Peifeng Hu. *Economics and Human Biology*, vol. 19, December 2015, 145-56.
- “Rheumatic Heart Disease-Attributable Mortality at Ages 5–69 Years in Fiji: A Five-Year, National, Population-Based Record-Linkage Cohort Study,” with Tom Parks, Joseph Kado, Anne E. Miller, Brenton Ward, Rachel Heenan, Samantha M. Colquhoun, Till W. Bärnighausen, Mariana Mirabel, Robin L. Bailey, Isimeli Tukana, and Andrew C. Steer. *PLOS Neglected Tropical Diseases*, vol. 9, no. 9, <http://dx.doi.org/10.1371/journal.pntd.0004033>.
- “Prospects for Reaping a Demographic Dividend in Pakistan,” with Simiao Chen and Zeba Sathar. World Economic Forum, Geneva, June 2015.
- “Multidimensional Measurement of Household Water Poverty in a Mumbai Slum: Looking beyond Water Quality,” with Ramnath Subbaraman, Laura Nolan, Kiran Sawant, Shrutika Shitole, Tejal Shitole, Mahesh Nanarkar, and Anita Patil-Deshmukh. *PLOS One*, vol. 10, no. 7, e0133241, <http://dx.doi.org/10.1371/journal.pone.0133241>.
- “External Quality Control for Dried Blood Spot Based C-Reactive Protein Assay: Experience from the Indonesia Family Life Survey and the Longitudinal Aging Study in India,” with Peifeng Hu, Elizabeth H. Herningtyas, Varsha Kale, Eileen M. Crimmins, Arun R. Risbud, Heather McCreath, Jinkook Lee, John Strauss, Jennifer C. O’Brien, and Teresa E. Seeman. *Journal of Biodemography and Social Biology*, vol. 61, no. 1, 2015, 111-20.
- “The Economics of Non-Communicable Diseases in Indonesia,” with Simiao Chen, Mark McGovern, Klaus Prettner, Arnaud Bernaert, Vanessa Candeias, and Stephanie Cristin. World Economic Forum, April 2015, [www3.weforum.org/docs/WEF\\_The\\_Economics\\_of\\_non\\_Disease\\_Indonesia\\_2015.pdf](http://www3.weforum.org/docs/WEF_The_Economics_of_non_Disease_Indonesia_2015.pdf).
- “Economic Threats Posed by the Graying of Europe,” June 16, 2015, <https://globalconnections.hsbc.com/us/en/special-features/hsbc-presents/the-bullwhip-effect-atlanta/economic-threats-posed-by-the-graying-of-europe>.
- “A Short History of Vaccines,” with Jessica Sullivan, *RoosterGNN*, March 2015, <http://rgnn.org/2015/03/09/a-brief-history-of-vaccines/>.
- “Valuing Vaccines: Deficiencies and Remedies.” *Vaccine*, vol. 33, Supplement 2, 2015, B29-B33.

- “Vaccines: From Valuation to Resource Allocation,” with Guru Madhavan. *Vaccine*, vol. 33, Supplement 2, 2015, B52-B54.
- “Immunization, Health, and Wealth: Mexico’s Potential,” with Jessica Sullivan. *Consultoria*, March 2015.
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- Educating All Children: A Global Agenda*, with Joel E. Cohen and Martin Malin, editors, American Academy of Arts and Sciences and MIT Press, Cambridge, Massachusetts, 2006.
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*The Quality of Life in Rural Asia*, with Patricia Craig and Pia Malaney. Oxford University Press, Hong Kong, 2001.

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*The Economics of HIV and AIDS: The Case of South and South East Asia*, co-edited with Peter Godwin, United Nations Development Programme, Oxford University Press, New Delhi, 1997 (2<sup>nd</sup> ed., 1998).

“AIDS in Asia,” guest editor. *Current Science*, Special Issue, vol. 69, no. 10, November 1995.

*Economic Implications of AIDS in Asia*, co-edited with Joyce V. Lyons, United Nations Development Programme, New Delhi, January 1993.

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## **OTHER PAPERS**

“The Long-term Health, Cognitive, and Educational Benefits of Measles Vaccination: Retrospective Cohort Study using Young Lives Data in Ethiopia, India, and Vietnam”, with Arindam Nandi, Anita Shet, Jere R. Behrman, Maureen M. Black, and Ramanan Laxminarayan, March 2018, manuscript.

“Economic Evaluation of the Relative Priority of Vaccine and Non-Vaccine Strategies in Addressing AMR”, with JP Sevilla, Daniel Cadarette, Mark Jit, and Mark Lipsitch, submitted for publication, March 2018.

“Changing Health and Cognition of Women in China and India”, with Jinkook Lee, James P. Smith, P. Arokiasamy, Urvashi Jain, and Yaohui Zhao. Manuscript in preparation, February 2018.

- “The macroeconomic burden of non-communicable diseases associated with air pollution in China” with Simiao Chen. Manuscript in preparation, February 2018.
- “Introduction to Priority Setting in Global Health,” with Rashmi Dayalu, Daniel Cadarette, and Jessica Sullivan. *Priority Setting in Global Health*, special issue of *Cost Effectiveness and Resource Allocation*, edited by David E. Bloom, Rashmi Dayalu, Daniel Cadarette, and Jessica Sullivan. Manuscript in preparation, February 2018.
- “Macroeconomic impacts of non-communicable diseases in India,” with Arunika Agarwal, Simiao Chen, Alexander Khoury and Alyssa Lubet. To appear in *Health of the Nation: India Health report*, edited by Ali Mehdi and Irudaya Rajan, Oxford University Press. Manuscript in preparation, February 2018.
- “Valuing the New Generation of Oral Drugs for Hepatitis C Treatment in India: A DALY-based Approach,” with V. Srinivasan and Alexander Khoury. Manuscript in preparation, February 2018.
- “Health and Economic Growth: Reconciling the Micro and Macro Evidence”, with David Canning, Rainer Kotschy, Klaus Prettnner, and Johannes Schunemann. Manuscript, February 2018.
- “The macroeconomic burden of non-communicable diseases in the United States: estimates and projections,” with Simiao Chen, Michael Kuhn, and Klaus Prettnner. Manuscript, February 2018.
- “A DELPHI study to identify and address the knowledge gaps on the health burden attributable to serogroup B invasive meningococcal disease,” with Ole Marten, Florian Koerber, Monika Bullinger, Corinne Buysse, Hannah Christensen, Philippe De Wals, Christian Dohna-Schwake, Philipp Henneke, Markus Kirchner, Markus Knuf, Burkhard Lawrenz, Andrea Liborio, Joseph Patrick Sevilla, Nicolas Van de Velde, Robert Welte, Claire Wright, Wolfgang Greiner. Manuscript, February 2018.
- “Budget Analysis to Inform Policymaking for Sexual and Reproductive Health in the Asia-Pacific Region, Phase I,” with Rashmi Dayalu, Anubhav Agarwal, Shrvanthi Seshasayee, and Arunika Agarwal. Manuscript, February 2018.
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- “The Economics of an HIV Vaccine,” with Simiao Chen, Till Bärnighausen, and Salal Humair. Manuscript, February 2018.
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- “Long-Term Care Insurance Comes to China,” with Simiao Chen, with Simiao Chen, and Till Bärnighausen. Manuscript, February 2018.

- “The Full Economic Contributions of Older Adults in Europe: Estimation, Projection, and Expansion,” with Alexander Khoury and JP Sevilla. To be presented at April 2018 Annual Meeting of the Population Association of America in Denver, Colorado. Manuscript, February 2018.
- “Estimating the net value of treating hepatitis C virus using a newly available direct-acting antiviral in India”, with V. Srinivasan and Alexander Khoury. To be presented at March 2018 APASL meeting in New Delhi, India and June 2018 HTAi meeting in Vancouver, Canada. Manuscript, February 2018.
- “The Returns to Parental Health: Evidence from Indonesia” with Dara Lee Luca. Manuscript, January 2018.
- “The Market and Nonmarket Productivity-Related Costs of Adult Pneumococcal Disease in the UK,” with JP Sevilla, Andrew Stawasz, Daria Burnes, Dylan Jones, and Reiko Sato. Manuscript, December 2017.
- “Calculating the Indirect Costs of Adult Pneumococcal Disease and the Rate of Return to the 13-Valent Pneumococcal Vaccine (PCV13) in Older Adults, with an Application to Denmark,” with JP Sevilla, Andrew Stawasz, Daria Burnes, Peter Bo Poulsen, and Reiko Sato. Manuscript, December 2017.
- “Priority setting in health: Development and application of a multi-criteria algorithm for the population of New Zealand’s Waikato region,” with Rashmi Dayalu, Elizabeth Fonseca, Victoria Fan, and Heather Schofield. *Priority Setting in Global Health*, special issue of *Cost Effectiveness and Resource Allocation*, edited by David E. Bloom, Rashmi Dayalu, Daniel Cadarette, and Jessica Sullivan. Manuscript submitted for publication, March 2018.
- “Normative data for gait speed and grip strength of older Indians from the Longitudinal Ageing Study in India (LASI) pilot survey,” with Prashun Chatterjee, Venugopalan Gunashekar, Kanika Grover, Shyama Gupta, Deepaanil Kumar, Jinkook Lee, Perianayagam Arokiasamy, A. B. Dey. Manuscript submitted for publication, March 2018.
- “Health and Economic Growth,” with Michael Kuhn and Klaus Prettnner. *Oxford Research Encyclopedia of Economics and Finance*. Manuscript submitted for publication, February 2018.
- “The Demography of Aging in Low- and Middle-Income Countries: Chronological versus Functional Perspectives,” with Nikkil Sudharsanan. National Academy of Sciences, Engineering, and Medicine: *Future Directions for the Demography of Aging*. Manuscript, submitted for publication, February 2018.
- “The Contribution of Female Health to Economic Development,” with Michael Kuhn and Klaus Prettnner. Manuscript submitted for publication, December 2017.

- “The Economic Burden of Chronic Diseases: Estimates and Projections for China, Japan, and South Korea,” with Simiao Chen, Michael Kuhn, Mark E. McGovern, Les Oxley, and Klaus Prettnner. PGDA Working Paper no. 140. Manuscript, submitted for publication June 2017.
- “Human Papillomavirus vaccination in the Philippines: The impact on productivity, human capital, and the health system,” with Dara Lee Luca, Elizabeth Mitgang, and Till Bärnighausen, June 2017.
- “Fertility Transition and Economic Inequality in Districts of India,” with Sanjay K. Mohanty, Nikkil Sudarsahan, David Canning, Günther Fink, Elizabeth Mitgang, and Mamta Rajbhar. Manuscript, May 2016.
- “The Global Health and Economic Burden of Cancer,” with Sydney Johnson, Jessica Sullivan, and X. Zhao. International Atomic Energy Agency, Vienna, September 2015. Available from [www.iaea.org](http://www.iaea.org).
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- “The Impact of Dengue Incidence on International Tourist Flows: Evidence from Brazil,” with Till Bärnighausen, Laurent Coudeville, Elizabeth T. Cafiero-Fonseca, and Jennifer C. O’Brien. February 2015.
- “Prospects for Economic Growth in Nigeria: A Demographic Perspective,” with Jocelyn Finlay, Salal Humair, Andrew Mason, Olanrewaju Olaniyan, and Adedoyin Soyibo. Revised September 2015.
- “HIV/AIDS,” with Pascal Geldsetzer, Salal Humair, and Till Bärnighausen. Perspective paper for the Copenhagen Consensus Center, December 2014, [www.post2015consensus.com](http://www.post2015consensus.com).
- “Broad Economic Evaluation of Dengue Vaccination: A Predictive Modeling Approach,” with Till Bärnighausen, Elizabeth T. Cafiero, Laurent Coudeville, and Jennifer C. O’Brien. Manuscript, June 2014.
- “A Conceptual Model to Account for the Full Range of Benefits and Costs of Gardasil in the Developing World: Final Report to Merck and Co., Inc.,” with Till Bärnighausen, Elizabeth T. Cafiero, and Jennifer C. O’Brien, December 2012.
- “Population Ageing, Socioeconomic Development, and Health,” with John Beard. Manuscript, December 2011.
- “Global Population Ageing, Migration and European External Policies,” with Bo Malmberg, Kristof Tamas, Rainer Munz, and David Canning. 2012.
- “Micro Foundations of the Demographic Dividend,” with David Canning, Günther Fink, and Jocelyn Finlay. Paper presented at the International Union for the Scientific Study of Population Seminar on Demographics and Macroeconomic Performance, June 2010. Revision presented at the 2011 Annual Meetings of the Population Association of America.



- “Global Health Systems and Cooperation: A Concept Note,” with Barry Bloom, Daniel O’Farrell, Marija Ozolins, Larry Rosenberg, and Devi Sridhar. June 2010.
- “Reproductive Health Laws, Contraceptive Use, and Fertility Trends around the World,” with David Canning and Jocelyn Finlay. Paper presented at the 2010 annual meetings of the Population Association of America.
- “Modeling the Sustainability of Antiretroviral Treatment Programs, with an Application to South Africa,” with Till Bärnighausen and Salal Humair. Paper presented at the 11<sup>th</sup> International Congress for Behavioral Medicine, August 2010; International AIDS Economic Network (IAEN) 2010, Vienna, Austria, July 16-17, 2010; 4th INTEREST Workshop, Maputo, Mozambique, May 25-28, 2010, and at the UNAIDS/World Bank Economic Reference Group Meeting, December 16-17, 2009 Amsterdam, The Netherlands.
- “A Mathematical Model for Estimating the Number of Health Workers Required for Universal Antiretroviral Treatment.” NBER, Cambridge, Massachusetts, Working Paper 15517, November 2009.
- “Fertility, the Demographic Dividend, and Economic Growth,” with David Canning, Günther Fink, and Jocelyn Finlay. Paper presented at the 2010 annual meetings of the Population Association of America, December 2009.
- “Disease and Development Revisited,” with David Canning and Günther Fink. NBER Working Paper 15137, Cambridge, Massachusetts, July 2009, [www.nber.org/papers/w15137](http://www.nber.org/papers/w15137).
- “Nigeria: The Next Generation—Literature Review,” with Akochi Agunwamba, Abby Friedman, Marija Ozolins, Larry Rosenberg, David Steven, and Mark Weston. May 2009.
- “Social Interactions and Fertility in Developing Countries,” with David Canning, Isabel Guenther, and Sebastian Linnemayr. 2008.
- “Achieving the Health Millennium Development Goals: A Role for the Private Sector?” with Michael Chu. October 2008.
- “On the Determination of Global Health Priorities,” with Michael Chu and the Project Antares team. October 2008.
- “The Nature and Determinants of MSE Participation in Value Chains in Guatemala,” with Elizabeth Dunn, Philip Church, Cari Jo Clark, Shand Evans, and Yi-an Huang. August 2008.
- “Analyzing the Integration of Micro- and Small Enterprises into Value Chains (AIMVC): Evidence from Tanzanian Horticulture,” with Banu Akin, Shehnaz Atcha, Vikas Choudhary, Phillip Church, Elizabeth Dunn, Shand Evans, Victoria Fan, and Patrick Salyer. August 2008.
- “Respondent-Driven Sampling: A Useful Sampling Tool for Development Economics,” with Mieke J.J. Van Hemelrijck. August 2008.

- “Children and Development: The Effect of Fertility on Economic Growth,” with David Canning, Günther Fink, and Jocelyn E. Finlay. April 2008.
- “Economics of Needle Use and Reuse,” with Ajay Mahal and Brendan O’Flaherty. April 2008.
- “Childhood Immunization as Human Capital,” with David Canning and Erica Seiguer. 2008.
- “Optimal Retirement and Saving with Healthy Aging,” with David Canning and Michael Moore. September 2007.
- “Demographic Change, Institutional Settings, and Labor Supply,” with David Canning, Günther Fink, and Jocelyn E. Finlay. Paper prepared for Social Security Workshop of NBER Summer Institute 2007, Cambridge, Massachusetts, July 2007.
- “Economic Implications of Malaria Eradication in Zambia,” with David Canning, Günther Fink, and Jocelyn E. Finlay. May 2007.
- “The Effect of Subjective Survival Probabilities on Retirement and Wealth,” with David Canning, Michael Moore, and Younghwan Song. Paper presented at annual meetings of the Population Association of America, New York, New York, March 2007.
- “The Nature, Determinants, and Consequences of MSE Participation in Value Chains: Evidence from the Horticulture and Handicrafts Sectors in Guatemala,” with Elizabeth Dunn, Philip Church, Cari Jo Clark, Shand Evans, and Yi-an Huang. February 2006.
- “Vaccines Key to Economic Health of Developing Countries,” with David Canning and Jens Stoltenberg. Draft Op-ed piece, December 2004.
- “Globalisation, Liberalization and Sustainable Human Development: The Case of Jamaica,” with Ajay S. Mahal, Damien King, Fiorina Mugione, Aldrie Henry-Lee, Dillon Alleyne, Philip Castillo, and River Path Associates. Paper prepared for the UNCTAD/UNDP Programme on Globalisation, Liberalization, and Sustainable Human Development, Kingston and Montego Bay, Jamaica, revised December 2004.
- “Population Growth, Age Structure, and Economic Growth: What Have We Learned Since the 1986 NRC Study of Population and Development?” with David Canning and Andrew Mason. Paper presented at the 2004 annual meeting of the Population Association of America, Boston.
- “Beyond the Basics: Patterns, Trends and Issues in Secondary Education in Developing Countries.” Paper prepared for the World Bank, Washington, D.C., July 2004.
- “Reproductive Health and the Macroeconomy.” Paper presented at symposium in honor of the 50<sup>th</sup> anniversary of the International Planned Parenthood Federation, New Delhi, India, November 2002.

- “Rates of Return on Investments in Education: Reconciling Micro and Macro Estimates,” with David Canning. Paper presented at the American Academy of Arts and Sciences, Cambridge, Massachusetts, July 2002.
- “Demographic Change and Economic Growth in Jordan,” with David Canning, Kingka Huzarski, David Levy, A.K. Nandakumar, Jaypee Sevilla, and Manjiri Bhawalkar, Partners for Health Reform, Abt Associates Inc., Bethesda, Maryland, June 2002.
- “Technological Diffusion and Economic Growth,” with David Canning and Jaypee Sevilla. NBER, Cambridge, Massachusetts, Working Paper 8713, January 2002.
- “AIDS and Economics,” with Ajay Mahal, Jaypee Sevilla, and River Path Associates. Paper prepared for Working Group I of the WHO Commission on Macroeconomics and Health, Geneva, Switzerland, November 2001.
- “Universal Basic and Secondary Education,” with Joel Cohen. Paper prepared for seminar on Educational Strategies, Families, and Population Dynamics, Université de Ouagadougou, Burkina Faso, May 2001, revised.
- “Globalisation, Global Public ‘Bads,’ Rising Criminal Activity, and Growth,” with S. Mansoob Murshed. WIDER, Boston, Massachusetts, Discussion Paper 2001/50, August 2001.
- “Social Technology and Human Health,” with River Path Associates and Karen Fang. Background paper prepared for the UN Human Development Report, New York, New York, July 2001.
- “Population Change and Human Development in Latin America,” with David Canning, David Evans, Bryan Graham, Patrick Lynch, and Erin Murphy. Background paper prepared for the Inter-American Development Bank in connection with Economic and Social Progress in Latin America, 1999–2000 Report, Washington, DC, 2000.
- “The United States and Global Health,” with Jordan Kassalow and River Path Associates. June 2000.
- “Global Trends in the Financing of Higher Education: Prospects and Challenges for the Next Decade,” with Francisco L. Rivera-Batiz. Mimeo, May 1999.
- “Labor in the Emerging World Economy,” with Felicia Knaul and Geeta Singh. Paper prepared in connection with Harvard–International Labor Organization Transition Team Workshop, Center for International Development, Harvard University, Boston, January 21–22, 1999.
- “Basic Education and Competitiveness in Colombia and the Andean Region,” with Patricia Craig. Report on a dialogue held in collaboration IBM’s Latin America Advisory Board, Bogotá, Colombia, December 2, 1998.
- “Major Trends that May Affect Higher Education in Developing Countries.” Draft for the Geneva meeting of the Task Force on Higher Education, August 1998.

- “Basic Education and Competitiveness in Central America: Problems, Perspectives, Possibilities, and Plans,” with Patricia Craig. Report on a dialogue held in collaboration with IBM’s Latin America Advisory Board, General Business Machines (GBM), and Instituto Centroamericano de Administración de Empresas (INCAE), San José, Costa Rica, June 1998.
- “Population, Poverty, and the Environment,” with John Gallup and David Beede. Background paper for chapter on environment and natural resources, *Emerging Asia: Changes and Challenges*, Asian Development Bank, Manila, Philippines, 1997.
- “Labor Standards and the Emerging World Economy,” with Waseem Noor. Revision of background paper prepared for *World Employment Report 1995*, International Labour Organization, Geneva, Switzerland, 1996.
- “The Impact of the AIDS Epidemic on Human Development,” with Neil Bennett, Ajay Mahal, and Waseem Noor. December 1996.
- “Labor Economics in a Global Economy,” with Donald Davis and Carolyn Evans. Paper presented at the International Labor Organization, Geneva, Switzerland, March 1996.
- “Measuring and Explaining Cross-Establishment Variation in the Generation and Management of Industrial Waste,” with David Beede and David Wheeler. Paper presented at the annual meeting of the American Economic Association, New Orleans, Louisiana, December 1992.
- “Lawyers as Agents of the Devil in a Prisoner’s Dilemma Game,” with Orley Ashenfelter. NBER Working Paper No. 4447, Paper presented at the 1991 annual meeting of the American Economic Association.
- “Gender Differences in Consumer Spending,” with Sanders Korenman. Paper presented to the 1986 annual meeting of the American Economic Association and the 1987 annual meeting of the Population Association of America, Chicago, Illinois and New Orleans, Louisiana.
- “A Dynamic Analysis of the Fertility of U.S. Immigrants,” with Mark Killingsworth. Paper presented at the 1985 annual meetings of the Allied Social Sciences Association, New York City.
- “An Analysis of Alternative Mechanisms for Selecting Arbitrators,” with Chris Cavanagh. Harvard Institute for Economic Research Working Paper no. 1224, paper presented at the December 1984 meeting of the Econometric Society, Dallas, Texas.
- “Models of Firm Behavior Under Minimum Wage Legislation,” with Gilles Grenier. Harvard Institute for Economic Research, Cambridge, Massachusetts, Working Paper no. 1117, December 1984.

## **FUNDED RESEARCH AND OTHER PROJECTS**

- “Longitudinal Aging Study in India (LASI) Dried Blood Spot Assays and Analysis.” Principal Investigator with Perianayagam Arokiasamy, Jinkook Lee, and Peifeng Hu. Application to the National Institute on Aging, \$3,521,474 requested, December 1, 2016 – December 1, 2021, revision in preparation.
- “The Economic Impact of Non-Communicable Diseases and Mental Health Conditions: Estimates for South America and the Caribbean from a Macroeconomic Model.” Principal Investigator. Application to Pan American Health Organization, \$67,500 requested, proposal submitted.
- “The current and prospective economic and social value created by the global nursing workforce.” Principal Investigator, 2018–2021, proposal submitted.
- “Towards a diagnostic test for rheumatic fever.” Co-Chief Investigator with Andrew Steer, Jonathan Carapetis, Mark Walker, Alex Brown, Michael Good, Julie Bines, Glenn Pearson, Anna Ralph, and Nikki Moreland. Australian Streptococcus pyogenes Immunisation Centre for Research Excellence (ASPIRE) application to the National Health and Medical Research Council, \$2,117,967 requested, 2018–2023, proposal submitted.
- “A Global Perspective on Late-Life Cognition and Dementia.” Principal Investigator. Subaward to the University of Southern California, \$563,274 requested, December 1, 2017 - November 30, 2022, proposal submitted.
- “Modifiable Protective and Risk Factors of Late-Life Cognitive Health and Dementia.” Principal Investigator. Subaward to University of Southern California, \$339,964 requested, July 1, 2017 - June 30, 2022, proposal submitted.
- “Innovative low-cost technologies for promoting health in low-income contexts.” Brinson Foundation, \$35,000, January 1, 2018-December 31, 2018, proposal submitted.
- “Social Technology for Eldercare in China Initiative.” Co-PI with Arthur Kleinman and Hongtu Chen. Jiangsu Industrial Technology Research Institute, China, \$214,180, July 1, 2017–June 30, 2018, proposal submitted.
- “Funding Support for Results Dissemination of: Social and Economic Contributions of Older Adults in Europe.” Sanofi Pasteur, \$8,149, September 1, 2017– September 30, 2017, proposal submitted.
- “Modifiable Protective and Risk Factors of Late-Life Cognitive Health and Dementia.” Co-Principal Investigator with Jinkook Lee. Grant no. 1RF1AG055273-01A1, National Institute on Aging, \$3,953,395, September 15, 2017–June 30, 2022.
- “Creating a Value of Vaccination Research Community.” Principal Investigator with David Canning. Bill and Melinda Gates Foundation, \$4,800,001, November 18 2016-October 31, 2021.

- “Harmonized Diagnostic Assessment of Dementia (DAD) for Longitudinal Aging Study of India (LASI).” Principal Investigator. Subaward to University of Southern California, \$118,906, Sep 15, 2015 - May 31, 2020.
- “Welfare Effects of Balancing the Federal Social Security and Health Care Budgets.” Co-Investigator. National Institutes of Health/National Institute on Aging, \$405,481 (year 1), 1R01AG048037-01, September 1, 2014-June 30, 2019.
- “Center for Global Demography of Aging: P30AG024409.” Principal Investigator. National Institute on Aging, \$4,253,257, Grant no. 2P30A-10, July 1, 2014-June 30, 2019.
- “Inclusive Social Protection for Chronic Health Problems—Measuring Health, Economic, and Social Impact of Correcting Impaired Visual Acuity among Mature Adults in India.” Co-Principal Investigator with P. Arokiasamy, Sanjay Mohanty, Jinkook Lee, and Jürgen Maurer. The Swiss National Science Foundation, CHF 247,300 (\$249,483), January 1, 2016-December 31, 2018.
- “LASI Administrative Supplement for Biomarkers Quality Control.” National Institute on Aging, \$158,579, October 1, 2017–September 30, 2018.
- “Prioritizing Social Spending.” Principal Investigator. Application to the Harvard Ministerial Leadership Program, \$66,590, January–June 2018.
- “The Longitudinal Aging Study in India (LASI).” Grant no. 3R01AG042778-04S2, National Institute on Aging, \$125,000, September 15, 2017–May 31, 2018.
- “Longitudinal Aging Study in India (LASI): R01AG042778.” National Institute on Aging, \$8,455,349, April 1, 2013-March 31, 2018.
- “Project Antares.” Roslyn Payne Innovation Fund, \$600,000, September 2009–ongoing.
- “Addressing Visual Impairment in India.” Anonymous donor, May 29, 2014–ongoing, \$20,000.
- “Budget Analysis and Advocacy for Maternal Health and Family Planning in the Asia-Pacific Region.” UNFPA, \$80,000, September 1, 2017–December 1, 2017.
- “Private Enterprise for Public Health.” Brinson Foundation, \$35,000, January 1, 2017-December 31, 2017.
- “Economic Value of Vaccines,” with Stephane Verguet. The Bill and Melinda Gates Foundation, \$478,503, November 2015-December 2017.
- “Andrew Carnegie Fellow.” Carnegie Corporation of New York, \$200,000, September 1, 2015-August 31, 2017.
- “Longitudinal Study of Aging in India, Genetics Pilot.” National Institutes of Health/National Institute on Aging, \$84,965, July 1, 2017–June 30, 2017.

- “The Longitudinal Aging Study in India (LASI): Administrative Supplement.” Grant no. 3R01AG042778-04S1, National Institute on Aging, \$152,000, September 15, 2016–May 31, 2017.
- “The Impact of Increased Caloric Intake on Cognitive Function, Labor Supply, and Earnings,” with Heather Schofield and Sendhil Mullainathan. Foundations of Human Behavior, \$39,860, February 1, 2015-January 31, 2017.
- “Assessing the Social and Economic Burdens and Contributions of Older Adults in European Societies.” Principal Investigator. Sanofi Pasteur, \$90,957, April-December 2016.
- “Private Enterprise for Public Health.” Brinson Foundation, \$35,000, January 1, 2016-December 31, 2016.
- “Optimizing the UNAIDS Investment Framework,” with Till Baernighausen. Harvard School of Public Health Consultant Agreement (15-03-141) with UNAIDS Technical Support Facility Eastern and Southern Africa, \$250,000, June 16, 2015-June 15, 2016.
- “Measuring and Correcting Visual Acuity among Older People in India and Measuring the Effects of Visual Improvement on Social and Economic Well-Being.” Program on the Global Demography of Aging, \$75,000, October 1, 2014-March 31, 2016.
- “The Economic Impact of Non-Communicable Diseases and Mental Health Conditions: Estimates for the Americas from a Macroeconomic Model.” Pan American Health Organization, \$75,000, 2015.
- “Private Enterprise for Public Health.” Brinson Foundation, \$35,000, January 1, 2015-December 31, 2015.
- “The Global Health & Economic Burden of Cancer.” Proposal to the International Atomic Energy Agency. Department of Technical Cooperation, \$40,375, February-September 2015.
- “Validating the Use of Dried Blood Spots (DBS) for Purposes of Collecting Genetic Data for the Longitudinal Aging Study in India.” Harvard University Program on the Global Demography of Aging, \$79,564, July 1, 2014-June 30, 2015.
- “The Longitudinal Aging Study in India—Administrative Supplement.” National Institute on Aging, \$150,490, Grant no. 3R01AG042778-02S1, June 15, 2014-April 30, 2015.
- “The Economics of Non-Communicable Diseases in Indonesia.” World Economic Forum, \$20,000, March-April 2015.
- “Workshop on Public Health in the Twenty-first Century: A Case Study of Dengue.” Sanofi Pasteur, \$219,564, October 1, 2014-March 31, 2015
- “Project Antares,” Brinson Foundation, \$35,000, January 1, 2014-December 31, 2014.

- “Longitudinal Aging Biomarker Study in India (LASI-Biomarker).” Principal Investigator. Submitted as R21 to National Institute on Aging, PAS-07-387, \$391,790, Sept 15, 2011-August 31, 2014.
- “Urban Planning, Design, and Public Health: Analyzing the Interplay in India’s Urban Slums.” Weatherhead Institute, Harvard University, \$6,400, July 1, 2013-June 30, 2014.
- “Center for Global Demography of Aging: P30AG024409.” Principal Investigator. National Institute on Aging, \$2,081,000, September 15, 2009-June 30, 2014.
- “Modeling Work Needed to Support CHAI’s Proposal to DFID: The Implications for National Health Systems of Expanding Treatment as Prevention Strategies,” with Till Baernighausen and Salal Humair. \$53,000, November 1, 2013-March 31, 2014.
- “Project Antares,” (a collaboration with Harvard Business School and the Harvard School of Public Health), donor gift, \$100,000, 2012-2013.
- “Project Antares,” with Michael Chu. Anonymous donor, July 1, 2008-December 2013.
- “Project Antares.” Brinson Foundation, \$37,000, January 1, 2013-December 31, 2013.
- “Economic Benefits of Investing in Women’s Health.” Government of Norway, \$380,000, July 1, 2012-December 31, 2013.
- “Implementation of the Conceptual Health Economic Model Accounting for Full Benefits and Costs of the Quadrivalent HPV Types 6,11,16,18 Vaccination in the Philippines.” Merck and Co., Inc., \$197,466, January 1-December 31, 2013.
- “Meeting Unmet Need, Family Planning, and the Demographic Dividend.” Gates Institute at Johns Hopkins School of Public Health, \$350,000, August 1, 2012-December 31, 2013.
- “Conference on the Economics of Population Ageing,” with John Piggott and Alan Woodland. Joint proposal to Harvard Australian Studies Committee, to be jointly coordinated by PGDA and the ARC Centre of Excellence in Population Ageing Research (CEPAR), University of New South Wales, Australia, \$39,000, October 2013.
- “Interim Funding to Support Research and Planning Activities for the Longitudinal Aging Study in India (LASI).” National Institute on Aging, \$50,000, August 2012-July 2013.
- “The Global Economic Burden of Noncommunicable Disease,” with Elizabeth Cafiero. World Economic Forum, \$328,935, March 1, 2011-March 31, 2013.
- “The Value of Life in Tanzania: A Contingent Valuation Study of Age and Health Effects,” with Till Bärnighausen, Noah Haber, and Wafaie Fawzi. Program on the Global Demography of Aging (pilot project), \$28,725, February 2013.
- “Project Antares.” Brinson Foundation, \$35,000, January 1, 2012-December 31, 2012.



- “Exploring the Broader Economic Benefits of Prospective Group-A Strep Vaccination: Phase I: A Cost-of-Illness Study of Rheumatic Heart Disease and Invasive Group-A Strep,” with Jennifer O’Brien and Andrew Steer. WHO Initiative for Vaccine Research, \$80,000, January-October 2012.
- “Research on the Value of a Dengue Vaccine.” Sanofi-Pasteur, \$350,000, July 1, 2011-July 31, 2012.
- “Project Antares.” Brinson Foundation, \$35,000, January 1, 2011-December 31, 2011.
- “Demographic Dividend, Phase I,” with Jocelyn Finlay. The Bill and Melinda Gates Foundation, \$23,100, December 14-31, 2011.
- “Exploring the Social and Physical Determinants of Urban Health.” Principal Investigator (with Arjun Appadurai and Anita Patil-Deshmukh). Rockefeller Foundation, \$761,000, January 2009-December 2011.
- “Creating Access through Mississippi Delta Health System Improvements,” with Art Cosby. The Delta Health Alliance, \$85,000, October 2010-October 2011.
- “Designing a Conceptual Model to Account for the Full Range of Benefits and Costs of Gardasil in the Developing World.” Merck and Co., Inc., \$103,693, July 1, 2010-September 30, 2011.
- “Optimal Allocation of Resources between HIV Treatments: Prevention and Other Options.” The World Bank, \$238,396, July 1, 2010-June 30, 2011.
- “Project Antares.” Brinson Foundation, \$180,000, January 1, 2007-December 31, 2010.
- “Administrative Supplement to R21 AG032572 01 Health and Retirement Survey for India.” National Institute on Aging, \$104,412, September 1, 2009-August 31, 2010.
- “Health and Retirement Survey for India: R21AG032572.” Principal Investigator. National Institute on Aging, \$362,439, September 15, 2008-August 31, 2010.
- “Enhancing Social Protection Initiatives in DMCs.” Asian Development Bank, \$267,000, September 21, 2009-July 31, 2010.
- “The Effect of the Global Financial Crisis on Antiretroviral Treatment Programs in South Africa,” with Till Bärnighausen and Salal Humair. The World Bank, \$42,000, August 20, 2009-June 30, 2010.
- “Investigation of Income Surveys in Developing Countries: A Sub-Study of the Longitudinal Aging Study in India.” Weatherhead Center for International Affairs, Harvard University, \$25,000, April 21, 2009-June 30, 2010.
- “Nigeria: The Next Generation.” The British Council, \$512,000, March 1, 2009-April 30, 2010.

- “TA-6502 (REG): Fiscal Space for Social Protection—Implications of the Global Economic Recession for Reforms in Asia.” Asian Development Bank, \$30,000, September 2, 2009-March 31, 2010.
- “Macroeconomic Policy, Poverty Alleviation and Economic Institutions and Analysis (MACRO II) Technical Assistance Services under the Support for Economic Growth and Institutional Reform (SEGIR) Project.” Subcontractor to The Louis Berger Group, Inc., GEG-I-00-04-00003-00, United States Agency for International Development, September 30, 2004-September 29, 2009, Indefinite Quantity Contract.
- “Center for Global Demography of Aging: P30AG024409.” Principal Investigator. National Institute on Aging, \$2,353,282, September 30, 2004-June 30, 2009.
- “Indo-US Planning Conference for Longitudinal Study of Aging in India (LASI),” with Perianayagam Arokiasamy and Jinkook Lee. Indo-US Science and Technology Forum, \$25,000, February 1, 2009-March 31, 2009.
- “Benefit-Cost Analyses for Vaccination against Pneumococcus, Rotavirus, Haemophilus Influenzae Type B, and Other Vaccine-Preventable Diseases.” Johns Hopkins Bloomberg School of Public Health, \$476,000, December 2007-March 2009.
- “Accelerated Microenterprise Advancement Project Support (AMAP) Business Development Services Sector (BDS).” Subcontract GG454-03-02 with The Louis Berger Group, Inc., (under Prime Contract GG454-03-02, United States Agency for International Development), \$326,716, January 1, 2004-October 31, 2008.
- “Administrative Increase to Center for Global Demography of Aging to Fund Steps in the Planning Process toward a Health and Retirement Survey (HRS) for India.” National Institute on Aging, \$72,802, September 30, 2007-June 30, 2008.
- “Business Response to Tuberculosis.” World Economic Forum, \$21,000, 2007.
- “Primary Health Care for the Poor: Creating Commercial, High-Impact Interventions in the Public Health of Developing Countries,” with Michael Chu. Anonymous donor, 2006.
- “The Impact of Reproductive Health and Population Dynamics on Economic Development.” The William and Flora Hewlett Foundation, Principal Investigator: David Canning, \$400,000, October 1, 2005-September 30, 2007.
- “Reproductive Health and Economic Well Being,” with David Canning. The John D. and Catherine T. MacArthur Foundation, 05-84134-000-GSS, \$125,000, July 1, 2005-January 31, 2007.
- “Higher Education and Economic Development in Africa.” \$30,000, March-June 2005.
- “Reproductive Health and Economic Well Being,” with David Canning. The John D. and Catherine T. MacArthur Foundation, no. 03-78745-000-GSS, \$110,000, October 1, 2003-June 30, 2005.

- “Business Response to HIV/AIDS Epidemics.” The World Economic Forum, \$25,100, 2005.
- “Age Transitions and Socioeconomic Change,” with Bo Malmberg and Lene Sommestad. Swedish Research Council, \$130,000, January 2002-December 2004.
- “The Economic Benefits of Immunization,” with David Canning. UNICEF & the Global Alliance for Vaccines and Immunization (GAVI), \$119,930, December 1, 2002-August 31, 2004.
- “Universal Basic and Secondary Education,” with Joel Cohen. American Academy of Arts and Sciences, \$1,050,000 (Harvard School of Public Health subcontract \$174,960), September 1, 2001-August 31, 2004.
- “Study of Computers and Education in Bolivia.” Subcontractor to Universidad Católica Boliviana, \$28,000, March 1, 2004-June 30, 2004.
- “Assessing the Role of the Private Sector in Combating HIV/AIDS.” UNAIDS, \$18,300, July 1, 2002-March 31, 2004.
- “Support to the 6<sup>th</sup> International Congress on AIDS in Asia and the Pacific.” Asian Development Bank, TA 5982-REG, \$75,000, June 15, 2001-March 31, 2004.
- “Business Response to the Global HIV/AIDS Epidemic.” The World Economic Forum, \$15,000, 2004.
- “Research on Secondary Education.” The World Bank, Human Development Network, \$31,500, May-August 2003.
- “Impact of AIDS on Private Enterprise in Africa.” UNAIDS, \$15,000, January-June 2003.
- “Business Response to the Global HIV/AIDS Epidemic.” World Economic Forum and UNAIDS, \$43,000, 2003.
- “Enhancing the Care of People with HIV Disease and Other Related Health Issues in Developing Countries: Needs, New Approaches, Impacts, and Costs.” Co-Investigator. Harvard AIDS Institute, Harvard School of Public Health, Merck Corporation Foundation, approximately \$3 million, January 1998-December 2002.
- “Population Dynamics, Health Status, and Economic Performance in Jordan.” USAID (Partnership for Health Project), \$45,000, January-June 2001.
- “Liberalization, Globalization, and Sustainable Human Development in Jamaica.” UNCTAD/UNDP, \$96,000, March 1, 2000-January 31, 2001.
- “The Economics of Investing in Health,” with David Canning. World Health Organization, \$130,000, December 1999-December 2000.

- “Demographic Transitions and Economic Miracles,” with David Canning and Jaypee Sevilla. The Rand Corporation, \$43,000, December 1999-August 2000.
- “Health, Fertility, Human Capital, and Economic Growth.” USAID Consulting Assistance on Economic Reform II, \$75,000, July 1998-June 2000.
- “Human Development in Latin America,” with David Canning. Inter-American Development Bank, \$40,000, April 1, 1999-December 31, 1999.
- “Task Force on Higher Education,” convened by the United Nations Educational, Scientific and Cultural Organization and the World Bank. Director of Secretariat, Funding from CIDA, Ford Foundation, Hewlett Foundation, NORAD, Novartis, Rockefeller Foundation, SIDA, Tetra Laval Corporation, and the World Bank, approximately \$825,000, December 1997-December 1999.
- “The Effect of the Pension System in South Africa.” Principal Investigator. National Institutes of Health grant to National Bureau of Economic Research for pilot study, \$54,000, September 1997-September 1999.
- “Quality of Life in Rural Asia.” Asian Development Bank, \$215,000, June 1998-June 1999.
- “The Demographic Crisis in the Former Soviet Union.” USAID Consulting Assistance on Economic Reform II, \$54,000, September 1997-April 1998.
- “Emerging Asia Study.” Overall Academic Coordinator, with Jeffrey Sachs. Asian Development Bank, \$642,000; also thematic leader with Jeffrey Williamson for section on Demography and Human Resource Development, 1996-1997.
- “Economic Implications of AIDS in Asia.” Principal Resource Person. UNDP/ADB, \$600,000 (for overall project), 1994-1996.
- “Program in Economic Policy Management,” with Michael Gavin. World Bank, about \$4,500,000, June 1992-December 1995.
- “Economic Research on the Generation and Management of Industrial Toxic Waste.” Environmental Protection Agency, \$215,000, September 1, 1992-August 31, 1995.
- “Development of Case Studies in Economic Policy Management.” Economic Development Institute of the World Bank, \$26,000, 1995.
- “Development of Case Studies in Economic Policy Management.” Economic Development Institute of the World Bank, \$24,570, 1994.
- Journal of Labor Economics*, Special Issue in Honor of Jacob Mincer. Sloan Foundation, \$23,913, 1993.
- “Graduate Fellowships for Economists Developing Area Specialties.” Mellon Foundation, \$125,000, 1991-1993.

- “Economics of AIDS in Asia.” United Nations Development Programme, approximately \$150,000 overall, November 1992-October 1994; also Principal Resource Person for UNDP Regional Project on HIV/AIDS in Asia, November 1991-December 1993.
- “Program in Transportation and Urban Economics.” United Parcel Service Foundation, \$80,000 1992.
- “Labor Market Impacts of the AIDS Epidemic.” National Institutes of Health, \$181,000, October 1, 1989-September 30, 1991.
- “The Widening of Earnings Differentials in the U.S.,” with McKinley Blackburn and Richard Freeman. The Levy Institute, \$20,500, July 1, 1990-June 30, 1991.
- “Determinants and Consequences of Changes in Marital Status and Family Formation,” with Neil Bennett. Rockefeller Foundation, \$61,440, September 1, 1987-June 30, 1990.
- General Research Grant. Alfred P. Sloan Foundation, \$25,000, September 16, 1986-September 15, 1988.
- “Research on the Distribution of Income in the United States, 1967–1984.” Economic Development Administration, \$114,500, October 1, 1986-December 31, 1987.
- “Research on the Employment, Earnings, and Fertility of Immigrants to the United States,” with Mark Killingsworth. National Institutes of Health, \$141,719, April 1, 1984-March 30, 1986.
- “Theoretical and Empirical Research on Arbitration.” National Science Foundation, Economics Division and Law and Social Sciences Division, \$50,530, July 1, 1983-December 31, 1985.
- “Research on Delayed Childbearing.” National Institutes of Health, \$53,294, August 31, 1981-August 31, 1983.