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PROFESSIONAL EXPERIENCE

- 1996-present WORLD BANK
Lead Economist, Education Global Practice, 2010-present
Co-Director, World Development Report 2018, Development Economics, 2016-2018
Senior Economist, Development Research Group, 2002-2010
Senior Economist, Office of the Senior Vice President and Chief Economist, 2000-2002
Advisor to Chief Economist Nicholas Stern
Economist, Office of the Senior Vice President and Chief Economist, 1997-2000
Advisor to Chief Economist Joseph Stiglitz
Young Professional, EDI Macroeconomics and Trade Division, 1996-1997
- 1994-1995 COUNCIL OF ECONOMIC ADVISERS, White House, Washington, DC
Staff Economist
- 1991-1994 UNIVERSITY OF CALIFORNIA, BERKELEY, Berkeley, CA
Research Assistant to Professors George Akerlof, Paul Romer, and Laura Tyson
- 1989-1990 HARVARD INSTITUTE FOR INTERNATIONAL DEVELOPMENT, Jakarta, Indonesia
Project Assistant for Trade Policy at the Indonesian Ministry of Finance
- 1988-1989 HARVARD UNIVERSITY, Cambridge, MA
Research Assistant to Professor David Lindauer
- 1986-1987 KOREA DEVELOPMENT INSTITUTE, Seoul, Korea
Speechwriter and Editor

EDUCATION

- 1996 UNIVERSITY OF CALIFORNIA, BERKELEY
Ph.D. in Economics
Advisor: George Akerlof
- 1989 KENNEDY SCHOOL OF GOVERNMENT, Harvard University
Master of Public Policy
- 1986 PRINCETON UNIVERSITY
A. B. with High Honors in Public and International Affairs

PUBLICATIONS

REFEREED JOURNAL ARTICLES

"Learning-Adjusted Years of Schooling (LAYS): Defining a New Macro Measure of Education," with Deon Filmer, Noam Angrist, and Shwetlena Sabarwal. 2020. *Economics of Education Review* 77.

"Double for Nothing? Experimental Evidence on an Unconditional Teacher Salary Increase in Indonesia," with Joppe de Ree, Karthik Muralidharan, and Menno Pradhan. 2018. *Quarterly Journal of Economics* 133(2).

"The Decision to Invest in Child Quality over Quantity: Household Size and Household Investment in Education in Vietnam," with Hai-Anh Dang. 2016. *World Bank Economic Review* 30(1).

"International Aid and Financial Crises in Donor Countries," with Hai-Anh Dang and Steve Knack. 2013. *European Journal of Political Economy* 32.

"Crossing the Threshold: A Positive Analysis of IBRD Graduation Policy," with Jac Heckelman and Stephen Knack. 2012. *Review of International Organizations* 7(2).

"Aid Quality and Donor Rankings," with Stephen Knack and Nicholas Eubank. 2011. *World Development* 39(11).

"The Growing Phenomenon of Private Tutoring: Does It Deepen Human Capital, Increase Inequality, or Waste Resources?," with Hai-Anh Dang. 2008. *World Bank Research Observer* 23(2).

"Distributional Effects of Educational Improvements: Are We Using the Wrong Model?," with François Bourguignon. 2007. *Economics of Education Review* 26(6).

"Why Are Teachers Absent? Probing Service Delivery in Peruvian Primary Schools," with Lorena Alcázar, Nazmul Chaudhury, Jeffrey Hammer, Michael Kremer, and Karthik Muralidharan. 2006. *International Journal of Educational Research* 45(3).

"Improving Student Performance in Public Primary Schools in Developing Countries: Evidence from Indonesia." with Daniel Suryadarma, Asep Suryahadi, and Sudarno Sumarto. 2006. *Education Economics* 14(4).

"Missing in Action: Teacher and Health Worker Absence in Developing Countries," with Nazmul Chaudhury, Jeffrey Hammer, Michael Kremer, and Karthik Muralidharan. 2006. *Journal of Economic Perspectives* 20(1).

"Teacher Absence in India: A Snapshot," with Michael Kremer, Karthik Muralidharan, Nazmul Chaudhury, and Jeffrey Hammer. 2005. *Journal of the European Economic Association* 3(2-3).

“Promoting Entrepreneurship in Eastern Europe,” with Laura d’Andrea Tyson and Tea Petrin. 1994. *Journal of Small Business Economics* 6(3).

“‘Man to Loan \$1500 and Serve as Clerk’: Trading Jobs for Loans in Mid-Nineteenth-Century San Francisco.” 1994. *Journal of Economic History* 54(1).

BOOKS

Growth and Empowerment: Making Development Happen, with Nicholas Stern and Jean-Jacques Dethier. 2005. Cambridge: MIT Press.

World Bank Economists’ Forum Volume 2, co-editor with Shantayanan Devarajan. 2002. Washington, DC: World Bank.

World Bank Economists’ Forum Volume 1, co-editor with Shantayanan Devarajan and Lyn Squire. 2001. Washington, DC: World Bank.

WORLD BANK FLAGSHIP REPORTS

The State of Global Learning Poverty: 2022 Update. 2022. Washington, DC: World Bank, UNESCO, UNICEF, UK FCDO, USAID, and the Bill & Melinda Gates Foundation. HD flagship report. Co-lead with Joao Pedro Azevedo.

World Development Report 2018: Learning to Realize Education’s Promise. 2018. Washington, DC: The World Bank and Oxford University Press. Co-director and co-lead author with Deon Filmer.

Out of School and Out of Work: Risk and Opportunities for Latin America’s Ninis, with Rafael de Hoyos Navarro and Miguel Székely. 2016. Regional flagship report; also published as *Ninis en América Latina: 20 millones de jóvenes en busca de oportunidades*.

Global Monitoring Report 2006: Millennium Development Goals: Strengthening Mutual Accountability, Aid, Trade, and Governance. 2006. Washington, DC: World Bank. Principal author of Ch. 1.

World Development Report 2004: Making Services Work for Poor People. 2003. Washington, DC: The World Bank and Oxford University Press. Background paper author and extended team member.

World Development Report 1998/99: Knowledge for Development. Washington, DC: The World Bank and Oxford University Press. 1999. Member of extended team.

OTHER WORLD BANK REPORTS (SELECTED)

The State of the Global Education Crisis: A Path to Recovery, co-lead with Joao Pedro Azevedo; also with Ellinore Ahlgren, Marie-Helene Cloutier, Borhene Chakroun, Gwang-Chol Chang, Suguru Mizunoya, Nicolas Reuge, Matt Brossard, Jessica Bergmann. 2021. Washington, DC: World Bank, UNESCO, and UNICEF.

Sahel Education White Paper: The Wealth of Today and Tomorrow, co-lead with Hamoud Abdel Wedoud Kamil and Melissa Ann Adelman; also with Shyam Srinivasan, Setou Diarra, Fatim Lahonri Diabagate, Mahugnon Stanislas Cedric Deguenonvo, and Jason Allen Weaver. 2021. Washington, DC: World Bank.

Realizing the Future of Learning: From Learning Poverty to Learning for Everyone, Everywhere, with Cristian Aedo, Omar Arias, Adelle Pushparatnam, and Marcela Gutierrez Bernal. 2020. Washington, DC: World Bank.

The COVID-19 Pandemic: Shocks to Education and Policy Responses, co-lead author with Shwetlena Sabarwal. 2020. Washington, DC: World Bank.

Ending Learning Poverty: What Will It Take?, with João Pedro Azevedo, Michael Crawford, Reema Nayar, Maria Rebeca Barron Rodriguez, Elaine Ding, and Marcela Gutierrez Bernal. 2020. Washington, DC: World Bank.

The What, Why, and How of the Systems Approach to Better Education Results (SABER), with Angela Demas. 2013. Washington, DC: World Bank.

Aid Effectiveness in Education: Setting Priorities in a Time of Crisis. 2008. Washington, DC: World Bank.

BOOK CHAPTERS

"Education and Health for Inclusiveness," with Deon Filmer, Roberta Gatti, Nikola Spatafora, and Drilona Emrullahu. 2021. In Valerie Cerra, Barry Eichengreen, Asmaa El-Ganainy, and Martin Schindler, eds., *How to Achieve Inclusive Growth*. Washington, DC: Oxford University Press.

"Making Services Work: Indicators, Assessments, and Benchmarking of the Quality and Governance of Public Service Delivery in the Human Development Sectors," with Ariel Fiszbein and Dena Ringold. 2017. In Douglas J. Besharov, Karen J. Baehler, and Jacob Alex Klerman, eds., *Improving Public Services: International Experiences in Using Evaluation Tools to Measure Program Performance*. Oxford: Oxford University Press.

"Teachers in Developing Countries." 2010. In Eva Baker, Barry McGaw, and Penelope Peterson, eds., *International Encyclopedia of Education, 3rd Edition*. Oxford: Elsevier Limited (with Emiliana Vegas)

"Global Returns to Higher Education: Trends, Drivers, and Policy Responses," with François Bourguignon. 2008. In Justin Yifu Lin and Boris Pleskovic, eds., *Regional Bank Conference on Development Economics 2007: Higher Education and Development*. Washington, DC: World Bank.

"Teacher Absence and Incentives in Primary Education: Results from a National Teacher Tracking Survey in Ecuador," with José Lopez-Calix, Nazmul Chaudhury, Jeffrey Hammer, Nancy Córdoba, Michael Kremer, and Karthik Muralidharan. 2005. In *Ecuador: Creating Fiscal Space for Poverty Reduction: A Fiscal Management and Public Expenditure Review, Volume 2*.

"The Role and Effectiveness of Development Assistance," with Ian Goldin and Nicholas Stern. 2002. In *A Case for Aid: Building a Consensus for Development Assistance*, World Bank, Washington DC. Washington, DC: World Bank.

"Promoting Entrepreneurship in Eastern Europe," with Laura d'Andrea Tyson and Tea Petrin. 1996. In Acs, Zoltan J., ed., *Small Firms and Economic Growth, Volume 1*, Elgar Reference Collection, International Library of Critical Writings in Economics, Volume 61. Cheltenham, UK: Elgar.

WORKING PAPERS

"Learning Losses during COVID-19: Global Estimates of an Invisible and Unequal Crisis," with Joao Pedro Wagner De Azevedo, Maryam Akmal, Marie-Helene Cloutier, and Yi Ning Wong. 2022. World Bank Policy Research Working Paper 10218.

"Will Every Child Be Able to Read by 2030? Defining Learning Poverty and Mapping the Dimensions of the Challenge," with João Pedro Azevedo, Diana Goldemberg, Silvia Montoya, Reema Nayar, Jaime Saavedra, and Brian William Stacy. 2021. World Bank Policy Research Working Paper 9588.

"How to Improve Education Outcomes Most Efficiently? A Comparison of 150 Interventions Using the New Learning-Adjusted Years of Schooling Metric," with Noam Angrist, David K. Evans, Deon Filmer, Rachel Glennerster, and Shwetlena Sabarwal. 2020. World Bank Policy Research Working Paper 9450.

"Out of School and Out of Work: A Diagnostic of Nini in Latin America," with Rafael de Hoyos and Anna Popova. 2016. World Bank Policy Research Working Paper 7548.

"Intelligence, Personality, and Creativity: Unleashing the Power of Intelligence and Personality Traits to Build a Creative and Innovative Economy," with Elizabeth King. 2014. World Bank.

"Is There a Doctor in the House?," with Karthik Muralidharan, Nazmul Chaudhury, Jeffrey Hammer, and Michael Kremer. 2011. UC San Diego.

"The Global Financial Crisis and Development Thinking." 2010. World Bank Policy Research Working Paper 5353.

"No More Cutting Class? Reducing Teacher Absenteeism and Providing Incentives for Performance," with Emiliana Vegas. 2009. World Bank Policy Research Working Paper 4847.

"Roll Call: Teacher Absence in Bangladesh," with Nazmul Chaudhury, Jeffrey Hammer, Michael Kremer, and Karthik Muralidharan. 2004. World Bank.

OUTREACH PUBLICATIONS (SELECTED)

"Learning to Realize Education's Promise." 2018. *Seminar Magazine* (June). The Monthly Symposium. India.

"Realizing Education's Promise." 2017. *World Bank Research Digest* 12(1), Fall. The World Bank.

"International Aid and Financial Crises," with Hai-Anh Dang and Stephen Knack. 2010. *Commonwealth Finance Ministers Reference Report*. London: Henley Media Group, in association with the Commonwealth Secretariat.

"International Aid and Financial Crises in Donor Countries." 2010. *World Bank Research Digest* 4(3), Spring.

"No More Cutting Class?," with Emiliana Vegas. 2009. *World Bank Research Digest* 3(3), Spring.

"Strengthening Education: Approaches that Work." 2008. *World Bank Development Economics Research Brief* (October).

"Missing in Action: Addressing Teacher Absenteeism." 2007. *id21 Insights Education* (September).

"Comment," with Ian Goldin and Nicholas Stern. 2007. In Abhijit Banerjee, ed., *Making Aid Work*. Boston Review and MIT Press.

"We Must Tackle Development Problems at the Level of the Economy as a Whole," with Ian Goldin and Nicholas Stern. 2006. *Boston Review* 31(4).

"Missing in Action: Teacher and Health Worker Absence in Developing Countries." 2006. World Bank Research Department Website feature article (April).

"Education and the Poor: Eradicating the Plague of Illiteracy," with Josef Ritzen and Deon Filmer. 2000. Paper prepared for the European launch workshop for the World Development Report 2000 on *Attacking Poverty*.

HONORS AND AWARDS

World Bank

2023	VPU Team Award (<i>team leader</i>), "The State of Global Learning Poverty: 2022 Update"
2020	VPU Team Award (<i>team leader</i>), "New Global Learning Target and Learning Poverty Indicator," HD
2019	VPU Team Award, "Human Capital: A Project for the World," HD
2018	VPU Team Award (<i>team leader</i>), "World Development Report 2018," DEC
2016	VPU Team Award (<i>team leader</i>), "Out of School and Out of Work-Youth in Latin America," LAC
2014	VPU Team Award, "System Approach for Better Education Results," HDN
2013-14	VPU Team Awards, "Education Staff Development Program," HDN
2012	VPU Team Award (<i>team leader</i>), "Education Strategy Development," HDN
2011	VPU Team Award (<i>team leader</i>), "IBRD Graduation Paper", DEC
2010	VPU Team Award (<i>extended team</i>), "Colombia Education Quality AAA", LCR

2000 Performance Award, Development Economics VPU
1996 Selected as a Young Professional by the World Bank

Other

1995-96 Okun Fellowship in Economics (in residence), the Brookings Institution
1992-93 University Regents' Fellowship, U. C. Berkeley
1990-91 Departmental fellowship, U. C. Berkeley
1989 Selected as Presidential Management Intern, U. S. federal government
1987-88 Kennedy Fellowship, Harvard University
1986 Princeton-in-Asia Fellowship, Princeton University
1986 Passed U.S. Foreign Service written and oral exams
1986 Phi Beta Kappa, Princeton University
1985 Van de Velde Award for outstanding junior thesis work, Princeton University

LANGUAGES AND INTERNATIONAL EXPERIENCE

Languages: Spanish (excellent); French (good); Korean (basic); and Indonesian/Malay (basic)

International experience: Have worked in all major regions, traveling to 40+ countries for policy dialogue with governments, research, operational work, and dissemination