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CURRICULUM VITAE

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Birth Date: April 4, 1958
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EDUCATION

Ph.D. Economics, Stanford University, 1985
Doctoral Thesis: "An Analysis of Income Distribution and Labor Markets in Sri Lanka"

B.A. Economics, University of Chicago, 1979

PROFESSIONAL EXPERIENCE

Professor, Department of Applied Economics. University of Minnesota, 2006 - present.

Associate Professor, Department of Applied Economics. University of Minnesota, 2001-2006.

Visiting Researcher, Laboratoire d'Economie Appliquée, Fédération Paris-Jourdan, Sept.-Dec. 2004.

Assistant Professor, Department of Applied Economics. University of Minnesota, 1999-2001.

Senior Economist, The World Bank, Policy Research Department. 1994-1999.

Adjunct Professor, Department of Economics, George Washington University. 1996-97.

Economist, The World Bank, Population and Human Resources Department. 1988-1993.

Consultant, The World Bank, Welfare and Human Resources Division, Pop. and Human Resources Dept. (previously Living Standards Unit, Development Research Dept.). 1986-1988.

Assistant Professor, Dept. of Agricultural Economics, Pennsylvania State University. 1985-86.

Consultant, The World Bank, Development Research Department. 1984-85.

RESEARCH INTERESTS:

Economic Development
Empirical Microeconomics
Applied Econometrics
Economics of Education

TEACHING INTERESTS:

Microeconomics
Economic Development
Econometrics
Public Economics

PUBLICATIONS: Books, Authored or Edited

Household Welfare and Vietnam's Transition to a Market Economy (co-edited with David Dollar and Jennie Litvack). The World Bank, Washington D.C., 1998.

The Economics of School Quality Investments in Developing Countries: An Empirical Study of Ghana. MacMillan Press, U.K. 1999.

Designing Household Survey Questionnaires for Developing Countries: Lessons from 15 Years of the Living Standards Development Study (co-edited with Margaret Grosh). Oxford University Press (for the World Bank), 2000.

Economic Growth, Poverty, and Household Welfare in Vietnam (co-edited with Nisha Agrawal and David Dollar). The World Bank, Washington D.C., 2004.

PUBLICATIONS: Book Reviews

Review of *Basic Needs in Developing Countries*, by Frances Stewart. *Journal of Economic Literature*, September 1986.

Review of *The Earthist Challenge to Economism: A Theological Critique of the World Bank*, by John B. Cobb, Jr. *Faith and Economics*, Spring 2001.

Review of *World Development Report 2000/2001: Attacking Poverty*. *Agricultural Economics*, May, 2002. 27(1):85-87

Review of *Transforming the Asian Economy: The Unfinished Revolution*, by Mark W. Rosegrant and Peter B.R. Hazell. *American Journal of Agricultural Economics*, May 2003, 85(2):.514-515.

Review of *Poverty and Social Assistance in Transition Countries*, by Jeanine Braithwaite, Christiaan Grootaert and Branko Milanovic. *Journal of Economic Literature*, March 2003, 41(1):231-233.

Review of *The Economic Organization of the Household (2nd edition)*, by Bryant, W. Keith, and Cathleen D. Zick. *American Journal of Agricultural Economics*, August, 2007, 89(3):820-821.

PUBLICATIONS: Journal Articles and Book Chapters

“The Distribution of Income in Sri Lanka in 1969-70 and 1980-81: A Decomposition Analysis”. *Journal of Development Economics*, December 1986.

“Growth and Equity in Developing Countries - A Reinterpretation of the Sri Lankan Experience. (with Surjit Bhalla) *World Bank Economic Review*, September 1986. (Reprinted in Deepak Lal, ed., *Development Economics, Volume II*, International Library of Critical Writings in Economics. Edward Elgar. United Kingdom).

“Response to Comments by Pyatt and Isenman” (with Surjit Bhalla). *World Bank Economic Review*, May 1987.

“Unemployment in Developing Countries: Economist’s Models in Light of Evidence from Sri Lanka”, *International Economic Journal*. Winter 1987.

“Trends in Self-Employment Income in Sri Lanka: 1969-70 to 1981-82”. In van Ginneken, ed., *Trends in Employment and Labour Incomes: Case Studies on Developing Countries*, International Labour Office, Geneva, 1988.

“Economic Liberalization and Income Inequality: A Re-Examination of the Sri Lankan Experience”. *Journal of Development Economics*, March 1988.

“Response to Comments by Ravallion and Jayasuriya”. *Journal of Development Economics*, March 1988.

“The Poor During Adjustment: A Case Study of Cote d’Ivoire” (with Dennis de Tray). In *The Macroeconomic Policy Reforms, Poverty, and Nutrition: Analytical Methodologies*, Per Pistrup-Andersen, ed. Monograph No. 3. Cornell Food and Nutrition Policy Program, Cornell University. 1990.

“Measurement of Income Inequality Under Inflation: Correction Formulae for Three Inequality Measures”. *Journal of Development Economics*, January 1990.

“Identifying the Poor in Developing Countries: Definitions, Information and Policies” (with Jacques van der Gaag). *World Development*, June 1990.

“The Willingness to Pay for Education in Developing Countries: Evidence from Rural Peru” (with Paul Gertler). *Journal of Public Economics*, August 1990.

“World Bank Efforts at Poverty Measurement in the Third World: The Living Standards Measurement Study.” in R. Teekens and B. van Praag, eds., *Analyzing Poverty in the European Community*. Eurostat. Luxembourg. 1991.

“Household Equivalence Scales and the Measurement of Inequality: Transfers from the Poor to the Rich Could Decrease Inequality”. *Journal of Public Economics*, March 1991.

“Investigating the Determinants of Household Welfare in Cote d’Ivoire”. *Journal of Development Economics*, April 1991.

“The Poor in Latin America During Adjustment: A Case Study of Peru” (with Dennis de Tray). *Economic Development and Cultural Change*, October 1991.

“The Willingness to Pay for Education for Daughters versus Sons: Evidence from Rural Peru” (with Paul Gertler). *World Bank Economic Review*, January 1992.

“Targeting Assistance to the Poor: Efficient Allocation of Transfers When Household Income is not Observed”. *Journal of Development Economics*, April 1992.

“The Three-Choice Multinomial Probit with Selectivity Corrections”. *Econometric Theory*. (Problems and Solutions Series), June 1992 (Problem), and June, 1993 (Solution).

“Unorthodox Adjustment and Poverty in Peru (with Gillette Hall). *Finance and Development*, December, 1992.

“Using Nationally Representative Household Surveys for Food Policy Analysis: An Examination of the World Bank’s Living Standards Measurement Study Surveys (with Margaret Grosh). In J. von Braun and D. Puetz, eds., *Data Needs for Food Policy in Developing Countries: New Directions for Household Surveys*, International Food Policy Research Institute, Washington, D.C., 1993.

“Poverty, Inequality and Living Standards During Unorthodox Adjustment: The Case of Peru, 1985-1990” (with Gillette Hall). *Economic Development and Cultural Change*. July, 1994.

“Student Achievement and Schooling Choice in Low Income Countries: Evidence from Ghana” (with Hanan Jacoby). *Journal of Human Resources*, Summer, 1994.

“Poverty and Human Development: An Emerging Consensus?” (with Harsha Atarupane and Paul Isenman). *American Economic Review* (Papers and Proceedings), May, 1994.

“An Economic Analysis of Delayed Primary School Enrollment in a Low Income Country: The Role of Early Childhood Nutrition” (with Hanan Jacoby). *Review of Economics and Statistics*, February, 1995.

“An Eclectic Approach to Estimating the Determinants of Achievements in Jamaican Primary Education” (with Margaret Grosh, Hanan Jacoby and Marlaine Lockheed). *World Bank Economic Review*, May, 1995.

“Household Survey Data from Developing Countries: Progress and Prospects” (with Margaret Grosh). *American Economic Review* (Papers and Proceedings), May, 1996.

“The Determinants of School Attainment in Sub-Saharan Africa: A Case Study of Ghana” (with Nauman Ilias). *Journal of International Development*. May-June, 1996.

“The Relevance of Standard Estimates of Rates of Return to Schooling for Education Policy: A Critical Assessment”. *Journal of Development Economics*, December, 1996.

“Estimating the Impact of Peer Group Effects on Socio-Economic Outcomes: Does the Distribution of Peer Group Characteristics Matter?” *Economics of Education Review*, January, 1997.

“A Test of the Normality Assumption in the Ordered Probit Model”. *Econometric Reviews*, February, 1997.

“Data Watch: The World Bank’s Living Standards Measurement Study Household Surveys (with Margaret Grosh). *Journal of Economic Perspectives*, Winter, 1998.

“Who is Most Vulnerable to Macroeconomic Shocks: Hypothesis Tests Using Panel Data from Peru” (with Gillette Hall). *Journal of Development Economics*, June, 1998.

“Why Does Mother’s Schooling Raise Child Health in Developing Countries? Evidence from Morocco”. *Journal of Human Resources*, Winter, 1999.

“School Quality, Student Achievement and Fertility in Developing Countries: An Assessment of Current Knowledge and Recommendations for Future Research”, in G. Bledsoe, J. Casterline and J. Johnson-Kuhn, eds. *Education and Fertility in the Developing World*. National Academy of Sciences. Washington D.C. 1999.

“The Role of the Private Sector in Education in Vietnam: Evidence from the Vietnam Living Standards Survey” (with Harry Patrinos). *World Development*, May, 1999.

“A Guide to Living Standards Measurement Study Surveys” (with Margaret Grosh), in *Household Accounting: Experience and Concepts in Compilation*. Statistics Division. Department of Economic and Social Affairs. The United Nations. 2000.

“The Impact of Early Childhood Nutritional Status on Cognitive Development: Does the Timing of Malnutrition Matter?” (with Elizabeth King). *World Bank Economic Review*, September 2001.

“Early Childhood Nutrition and Academic Achievement: A Longitudinal Analysis” (with Hanan Jacoby and Elizabeth King). *Journal of Public Economics*. September, 2001.

"Markets, Human Capital, and Inequality: Evidence from China," (with Dwayne Benjamin, Loren Brandt and Guo Li), in *Inequality Around the World*, edited by Richard Freeman, Palgrave/Macmillan, 2002.

“Provision of Health Care and Education in Transitional Asia: Key Issues and Lessons from Viet Nam” (with Jennie Litvack), in A. Lu and M. Montes, eds., *Poverty, Income Distribution and Well-Being in Asia During the Transition*. Palgrave. 2002.

"Schools and Skills in Developing Countries: Education Policies and Socioeconomic Outcomes" *Journal of Economic Literature* 40(2):436-482. June, 2002.

“Who Gained from Vietnam’s Boom in the 1990’s (with Michele Gragnolati and Hassan Zaman). *Economic Development and Cultural Change* 50(4):773-792. July 2002

“Retrospective vs. Prospective Analyses of School Inputs: The Case of Flip Charts in Kenya” (with Michael Kremer, Sylvie Moulin and Eric Zitzewitz). *Journal of Development Economics* 74(1):251-268. June, 2004.

“Economic Growth and the Demand for Education: Is there a Wealth Effect?” (with Hanan Jacoby). *Journal of Development Economics* 74(1):33-51. June, 2004.

“The Impact of Child Health and Nutrition on Education in Developing Countries: Theory, Econometric Issues and Recent Empirical Evidence” *Food and Nutrition Bulletin* 26(2):S235-S250. June, 2005.

“Academic Research and Education Projects: Determining What Schools Need”, in Dean, Judith M., Julie Schaffner and Stephen L.S. Smith (eds.), *Attacking Poverty in the Developing World: Christian Practitioners and Academics in Collaboration*, World Vision and Authentic Media, 2005.

“An Overview of Questionnaire Design for Household Surveys in Developing Countries”, in *Household Sample Surveys in Developing and Transition Countries*. United Nations, Department of Economic and Social Affairs. 2005.

“Overview of the Implementation of Household Surveys in Developing Countries”, in *Household Sample Surveys in Developing and Transition Countries*. United Nations, Department of Economic and Social Affairs. 2005.

“Presenting Simple Descriptive Statistics from Household Survey Data” (with Michael Levin), in *Household Sample Surveys in Developing and Transition Countries*. United Nations, Department of Economic and Social Affairs. 2005.

“Using Multi-Topic Household Surveys to Improve Poverty Reduction Policies in Developing Countries”, in *Household Sample Surveys in Developing and Transition Countries*. United Nations, Department of Economic and Social Affairs. 2005.

“Schools, Teachers, and Education Outcomes in Developing Countries” (with Michael Kremer). in E Hanushek and F. Welch, eds., *Handbook of the Economics of Education, Volume 2*. North Holland. 2006.

“Attaining Universal Primary Completion by 2015: How Much Will It Cost?” (with Meng Zhao), in J. Cohen, D. Bloom and M. Malin, eds., *Educating All Children: A Global Agenda*. MIT Press. 2006.

“Over Two Hundred Million Children Fail to Reach their Developmental Potential in the First Five Years in Developing Countries” (with Sally Grantham-McGregor, Yin Bun Cheung, Santiago Cueto, Linda Richter and Barbara Strupp), *Lancet* 369:60-70. January, 2007.

“Measurement Error Bias in Estimates of Income and Income Growth among the Poor: Analytical Results and a Correction Formula”. *Economic Development and Cultural Change* 56(1):163-189. October, 2007.

“The Impact of Child Health and Nutrition on Education in Less Developed Countries” (with Edward Miguel), in T. P. Schultz and J. Strauss, eds., *Handbook of Development Economics, Volume 4*. North Holland. 2008.

“The Impact of Decentralized Data Entry on the Quality of Household Survey Data: Experimental Evidence from a Developing Country” (with Hai-Anh Dang). *World Bank Economic Review* 22(1):165-185. January, 2008.

“Nutrition in Developing Countries”, in L. Blume and S. Durlauf, eds., *The New Palgrave Dictionary of Economics, 2nd, Edition*. Palgrave/Macmillan (forthcoming).

“Education in Developing Countries”, in L. Blume and S. Durlauf, eds., *The New Palgrave Dictionary of Economics, 2nd, Edition*. Palgrave/Macmillan (forthcoming).

“Children and Development” (with Amy Damon). *International Handbook of Development Economics*. Edward Elgar (forthcoming).

“Many Children Left Behind? Textbooks and Test Scores in Kenya” (with Michael Kremer and Sylvie Moulin). *American Economic Journal: Applied Economics* (forthcoming).

CURRENT RESEARCH AND MANUSCRIPTS UNDER REVIEW

“Teacher Incentives” (with Michael Kremer and Nauman Ilias).

“How Much of Observed Economic Mobility is Measurement Error? A Method to Remove Measurement Error, with an Application to Vietnam”.

“Are Private Schools More Effective than Public Schools? Estimation Issues and Evidence from the Philippines” (with Azucena Derecho).

“Has Vietnam’s Economic Growth in the 1990’s Been Pro-Poor? An Analysis of Data from the Vietnam Living Standards Surveys” (with Hai-Anh Hoang Dang)

“Evaluating of the Impact of Conditional Cash Transfers on Schooling: An Experimental Analysis of Honduras’ PRAF Program” (with Pedro Olinto).

“Analysis of Poverty Dynamics” (with John Gibson).

“The Impact of Eyeglasses on the Academic Performance of Primary School Students: Evidence from a Randomized Trial in Rural China” (with Albert Park and Meng Zhao).

“Do Reductions in Class Size Raise Students’ Test Scores? Evidence from Population Variation in Minnesota’s Elementary Schools” (with Hyunkuk Cho and Melissa Whitley).

“The Impact of School Quality, Socio-Economic Factors and Child Health on Students’ Academic Performance: Evidence from Sri Lankan Primary Schools” (with Harsha Atarupane and Suzanne Wisniewski).

“Valuing the Public Benefits of the Education Provided by Public Universities: A Study of the University of Minnesota” (with Amy Damon).

“The Contribution of Education to Economic Growth in Sub-Saharan Africa: A Review of the Evidence” (with Eugénie Maiga Haochi Zheng).

“Incentives to Teach Badly? After-School Tutoring in Developing Countries” (with Seema Jayachandran).

“Three Proposals to Improve Education in Latin American and the Caribbean: Estimates of the Costs and Benefits of Each Strategy” (with Amy Damon).

Add paper on Education in Latin America (for Copenhagen consensus) and paper on education with Peter Orazem and Harry Patrinos.

MAJOR RESEARCH GRANTS (over \$100,000)

World Bank Research Committee Grant, “Assessing the Quality and Socioeconomic Impact of Education in Sub-Saharan Africa”. RPO 674-57. 1988.

National Academy of Sciences, Committee on Scholarly Communication with the People's Republic of China. Award to Study Household Behavior in Rural China (with Loren Brandt). 1991.

World Bank Research Committee Grant, "Improving Effectiveness and Efficiency in Developing Countries: The Case of Jamaica" (with Marlaine Lockheed). RPO 676-87. 1991.

World Bank Research Committee Grant, "Household Welfare during Viet Nam's Transition to a Market Economy" (with David Dollar and Jennie Litvack). RPO 678-83. 1991.

Asian Development Bank Grant, "The Impact of Children Health and Nutrition on Educational Outcomes in a Developing Country: An Analysis of Longitudinal Data from Cebu, Philippines" (with Elizabeth King). 1994.

World Bank Research Committee Grant, "Increasing the Policy Relevance of LSMS Household Survey Data" (with Margaret Grosh). 1994.

World Bank Research Committee Grant, "Improving Primary Education in Kenya: A Randomized Evaluation of Different Policy Options". 1996.

World Bank Research Committee Grant, "The Impact of Deworming Treatment on Primary School Performance in Busia, Kenya". 1998.

World Bank Research Committee Grant, "Economic Growth and Household Welfare – Policy Lessons from Vietnam" (with Nisha Agrawal and David Dollar). 2000.

World Bank Research Committee Grant, "The Interaction of Health, Education and Employment in Western China" (with Li Guo, Emily Hannum, Albert Park and Alan Piazza). 2003.

Economic and Social Research Council and Department for International Development (U.K.). "Gansu Survey of Families and Children, Wave 3" (with Emily Hannum and Albert Park). 2006.

OTHER RELEVANT EXPERIENCE

Implementation of Ghana Living Standards Survey, in cooperation with the Ghana Statistical Service. This includes: design of survey instruments, supervision of consultants, field testing, training of interviewers, supervisors and other survey staff, field visits to monitor the progress of the survey teams after data collection commenced, and advice on data management and subsequent analysis. 1986-1988.

Assistance to the Statistical Institute of Jamaica in the implementation of the Jamaican Survey of Living Conditions. Preparation of the preliminary reports on the survey. 1988-1990.

Implementation of the 1992-93 and 1997-98 Viet Nam Living Standards Survey, in cooperation with the General Statistical Office of Viet Nam. Funding was obtained from UNDP and the Swedish International Development Agency. 1991-1998. Currently working on plans for additional surveys from 2002 to 2010.

Travel to the following countries for World Bank operational and research work: Cambodia, China, Cote d'Ivoire, Ghana, Honduras, Jamaica, Jordan, Kenya, Laos, Malaysia, Morocco, Philippines,

Peru, Sri Lanka, Turkey and Viet Nam.

OTHER PROFESSIONAL ACTIVITIES:

Member of: American Economic Association
Econometric Society
Royal Economic Society

Referee for: *American Economic Review, American Journal of Agricultural Economics, Annales d'Economie et de Statistique, Cambridge University Press, Comparative Education Review, Demography, Eastern Economic Journal, Econometric Reviews, Econometrica, Economic Development and Cultural Change, Economic Journal, Economics and Human Biology, Economics Letters, Economics of Education Review, Education Economics, Educational Evaluation and Policy Analysis, European Economic Review, European Review of Agricultural Economics, Faith and Economics, Industrial Relations, International Economic Review, Journal of African Economies Journal of the Asia Pacific Economy, Journal of Business and Economic Statistics, Journal of Comparative Economics, Journal of Development Economics, Journal of Development Studies, Journal of Econometrics, Journal of Economic Literature, Journal of Economic Theory, Journal of the European Economic Association, Journal of Human Resources, Journal of International Development, Journal of International Economics, Journal of Political Economy, Journal of Population Economics, Journal of Public Economics, Journal of Royal Statistical Society (Series A), MIT Press, National Academy of Sciences, National Science Foundation, Oxford Economic Papers, Quarterly Journal of Economics, Review of Development Economics, Review of Economics and Statistics, Review of Income and Wealth, Social Science and Medicine, Sociology of Education, Southern Economic Journal, Spencer Foundation, World Bank Economic Review, World Bank Editorial Committee, World Development.*

Papers presented at numerous conferences, universities and research centers in North America, Europe, Africa, Asia and Latin America, including 1990 World Congress of the Econometric Society (Barcelona), 1992 World Congress of the International Economic Association (Moscow), and 1995 World Congress of Econometric Society (Tokyo).