

## DOUGLAS GOLLIN

Department of Economics  
Williams College

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### CURRENT POSITIONS

Professor, Department of Economics, Williams College, 2008-Present  
(Previously Assistant Professor, 1996-2002; Associate Professor, 2002-08)  
Visiting Fellow, Yale School of Forestry and Environmental Studies  
Associate Editor, *Journal of Development Economics* (Elsevier Publishing)  
Associate Editor, *Agricultural Economics* (Blackwell Publishing)  
Member, Agriculture Research Programme, International Growth Centre  
Member, CGIAR Science Council, Standing Panel on Impact Assessment  
Non-Resident Senior Fellow, Global Development Network

### EDUCATION

1991-96 University of Minnesota. Ph.D. 1996 in Economics. Fields of concentration: Economics of Agriculture, Growth and Technology, Development, Macroeconomics, Public Finance. Thesis title: "Self Employment, Small Enterprise, and Economic Development."  
1986-88 Yale University. M.A. 1988 in International Relations. Concentration in agriculture and economic development.  
1980-83 Harvard University, A.B. 1983, *magna cum laude* and *Phi Beta Kappa* in History and Literature.

### JOURNAL ARTICLES - ECONOMICS

"Global Climate Change and the Resurgence of Tropical Disease: An Economic Approach," joint with Christian Zimmermann. Forthcoming, *Mathematical Population Studies*.

"Nobody's Business but My Own: Self Employment and Small Enterprise in Economic Development." 2008. *Journal of Monetary Economics* 55(2): 219-233.

"The Food Problem and the Evolution of International Income Levels," with Stephen Parente and Richard Rogerson. 2007. *Journal of Monetary Economics* 54(4): 1230-1255.

"Technology Adoption in Intensive Post-Green Revolution Systems," with Michael Morris and Derek Byerlee. 2005. *American Journal of Agricultural Economics (Proceedings)* 87(5): 1310-1316.

"Farm Work, Home Work, and International Productivity Differences," with Stephen L. Parente and Richard Rogerson. 2004. *Review of Economic Dynamics* 7: 827-50.

"The Role of Agriculture in Development," with Stephen Parente and Richard Rogerson. 2002. *American Economic Review Papers and Proceedings* 92(2): 160-164.

"Getting Income Shares Right." 2002. *Journal of Political Economy* 110(2) April: 458-474.

“Searching an *Ex Situ* Collection of Wheat Genetic Resources,” with Melinda Smale and Bent Skovmand. 2000. *American Journal of Agricultural Economics* 82(4) November: 812-827.

"Genetic Resources, International Organizations, and Improvement in Rice Varieties," with Robert E. Evenson. 1997. *Economic Development and Cultural Change* 45(3) April: 471-500.

#### JOURNAL ARTICLES – SCIENCE

“Animal Genetic Resource Trade Flows: Economic Assessment,” with Eric Van Dusen and Harvey Blackburn. 2009. *Livestock Science* 120: 248-255.

“Animal Genetic Resource Trade Flows: The Utilization of Newly Imported Breeds and the Gene Flow of Individual Animals in the United States of America,” with Harvey Blackburn. 2009. *Livestock Science* 120: 240-247.

“Assessing the Impact of the Green Revolution, 1960-2000,” with Robert E. Evenson. 2003. *Science* 300 (2 May): 758-762.

“Valuing Animal Genetic Resources: Lessons from Plant Genetic Resources,” with Robert E. Evenson. 2003. *Ecological Economics* 45: 353-363.

#### ARTICLES AND CHAPTERS IN PROGRESS:

“Malaria: Disease Impacts and Long-Run Income Differences,” with Christian Zimmermann, January 2011. (Revise and resubmit for *International Economic Review*.)

“Migration Flows, Capital Movements, and Current Account Deficits: A Structural Approach,” joint with Fabian Lange. December 2010. (In submission, *Review of International Economics*.)

“The Agricultural Productivity Gap in Poor Countries,” with David Lagakos and Michael Waugh. April 2011.

“Do Taxes on Large Firms Impede Growth? Evidence from Ghana.” June 2010. (Revise and resubmit for *Berkeley Electronic Journal: Macro*.)

“Agriculture, Roads, and Economic Development: The Case of Uganda,” with Richard Rogerson. March 2010. NBER Working Paper No. 15863.

“Climate Change and Technological Innovation in Agriculture: Adaptation through Science.” December 2010. Chapter prepared for *Handbook of Climate Change and Agriculture*, ed. Ariel Dinar and Robert Mendelsohn (Edward Elgar).

“Crop Production in Ethiopia: Assessing the Evidence for a Green Revolution ,” with Rebecca Lee Funk, Irene Scher, and Claire Schlemme. May 2011.

“Crop Yields in East Africa: A Review of Recent Data,” with Rebecca Lee Funk, Irene Scher, and Claire Schlemme. March 2011.

“Malaria Policy: Alternative Prevention and Eradication Strategies in a Dynamic Model,” joint with Christian Zimmermann, September 2007.

“Agricultural Productivity and Cross-Country Income Differences.” November 2008. (Formerly “Miracle Seeds and Miracle Economies.”)

## BOOKS

R.E. Evenson and D. Gollin, eds. *Crop Variety Improvement and Its Effect on Productivity: The Impact of International Research* (Wallingford, UK: CAB International, 2003).

R.E. Evenson, D. Gollin, and V. Santaniello, eds., *Agricultural Values of Plant Genetic Resources*. (Wallingford, U.K.: CAB International, 1998).

## BOOK CHAPTERS

“Agricultural Productivity and Economic Growth,” in *Handbook of Agricultural Economics*, Vol. 4 (New York: North-Holland, 2009).

“Labor’s Share of Income,” entry for *The New Palgrave Dictionary of Economics*, 2<sup>nd</sup> edition. (New York: Palgrave MacMillan, 2008).

“Contributions of National Agricultural Research Systems to Crop Productivity,” with R. E. Evenson., in *Handbook of Agricultural Economics, Vol. 3a* (New York: North-Holland, 2007).

“Making an Economic Miracle: Agricultural Science, Technology, and Economic Growth,” in *Sunn Pest Management: A Decade of Progress, 1994-2004*. (Aleppo, Syria: Arab Society of Plant Protection, 2007).

“Study Design and Scope,” with R. E. Evenson, Chapter 1 in *Crop Variety Improvement and Its Effect on Productivity: The Impact of International Research*, ed. R. E. Evenson and D. Gollin (Wallingford, UK: CAB International, 2003).

“Crop Genetic Improvement in Developing Countries: Overview and Summary,” with R. E. Evenson, Chapter 2 in *Crop Variety Improvement and Its Effect on Productivity: The Impact of International Research*, ed. R. E. Evenson and D. Gollin (Wallingford, UK: CAB International, 2003).

“Objectives and Methodology: Crop Genetic Improvement Studies,” with R. E. Evenson, Chapter 3 in *Crop Variety Improvement and Its Effect on Productivity: The Impact of International Research*, ed. R. E. Evenson and D. Gollin (Wallingford, UK: CAB International, 2003).

“International Research and Genetic Improvement in Rice: Evidence from Asia and Latin America,” with M. Hossain, V. Cabanilla, E. Cabrera, N. Johnson, G.S. Khush, and G. McLaren, Chapter 5 in *Crop Variety Improvement and Its Effect on Productivity: The Impact of International Research*, ed. R. E. Evenson and D. Gollin (Wallingford, UK: CAB International, 2003).

“Setting Priorities for Agricultural Research: The Case of Biotechnology in Rice,” in *Proceedings of the 12th Toyota Conference : Challenge of Plant and Agricultural Sciences to the Crisis of Biosphere on the Earth in the 21<sup>st</sup> Century*, ed. Kazuo N. Watanabe (Austin, TX: Landes Biosciences 2000).

“Optimal Collection and Search for Crop Genetic Resources,” with Melinda Smale and Bent Skovmand, Chapter 4 in *Farmers, Gene Banks and Crop Breeding: Economic Analyses of Diversity in Wheat, Maize, and Rice*, ed. Melinda Smale (Boston: Kluwer Academic Publishers, 1998).

“Valuing Genetic Diversity: Crop Plants and Agroecosystems,” with Melinda Smale, Chapter 13 in *Biodiversity in Agroecosystems*, ed. Wanda W. Collins and Calvin O. Qualset (Boca Raton: CRC Press, 1998).

“Valuing Farmers’ Rights,” Chapter 17 in *Agricultural Values of Plant Genetic Resources*, eds. R.E. Evenson, D. Gollin, and V. Santaniello (Wallingford, U.K.: CAB International, 1998).

"An Application of Hedonic Pricing Methods to Value Rice Genetic Resources in India," with R. E. Evenson, Chapter 9 in *Agricultural Values of Plant Genetic Resources*, eds. R.E. Evenson, D. Gollin, and V. Santaniello (Wallingford, U.K.: CAB International, 1998).

"Introduction and Overview: Agricultural Values of Plant Genetic Resources," in *Agricultural Values of Plant Genetic Resources*, eds. R.E. Evenson, D. Gollin, and V. Santaniello (Wallingford, U.K.: CAB International, 1998).

"Genetic Resources, International Organizations, and Rice Varietal Improvement," with Robert E. Evenson. In *Easing Barriers to Movement of Plant Varieties for Agricultural Development*, ed. David Gisselquist and Jitendra Srivastava. World Bank Discussion Paper No. 367, July 1997.

#### BOOK REVIEWS

"A Hopeful Vision of Food in Africa," Review of "A New Harvest," by Calestous Juma. *Science* 331(6022): 1267-68.

"Farmers' Bounty," by Stephen B. Brush. *Journal of Agricultural History* 54(2) 2006: 360.

"States of Nature: Science, Agriculture, and Environment in the Spanish Caribbean," by Stuart McCook. *Regional Science* 43(3) August 2003: 617-619

#### OTHER PUBLICATIONS

"Agriculture as an Engine of Growth and Poverty Reduction," commissioned paper for African Economic Research Consortium, Project on Understanding Links between Growth and Poverty Reduction in Africa. June 2009.

"Impact of International Research on Intertemporal Yield Stability in Wheat and Maize: An Economic Assessment," (Mexico, D.F.: CIMMYT, 2006).

"Optimal Search in *Ex situ* Collections of Wheat Genetic Resources," with Melinda Smale and Bent Skovmand. CIMMYT Economics Working Paper 98-03. Mexico, DF: CIMMYT. 1998.

"Conserving Genetic Resources for Agriculture: Local Farmers, International Organizations, and Intellectual Property Rights," Manuscript, Department of Economics, Williams College, Williamstown, Mass. April 1997.

"The Value of Genetic Resources for Crop Improvement: Evidence from Rice," with Robert E. Evenson. Manuscript. Departments of Economics, University of Minnesota and Yale University. Minneapolis, Minn. December 1994.

"Status, Trends, and Directions of Animal Agriculture in sub-Saharan Africa," Winrock International, Morrilton, Ark., 1991.

"Agricultural Potential of Mid-Africa: A Technological Assessment," with David Seckler and Pierre Antoine, in *Agricultural Technology in Sub-Saharan Africa: A Workshop on Research Issues*, ed. Suzanne Gnaegy and Jock R. Anderson, World Bank Discussion Paper, Number 126, Washington, DC: The World Bank, 1991.

"Priority Setting for Genetic Improvement Research," with Robert E. Evenson. Conference paper, International Rice Research Institute Workshop on Rice Research Prioritization, 13-15 August 1991, Los Baños, Philippines.

"Dubious Crusade: The Push for Agricultural Laissez Faire," with David Seckler, in *The American Prospect*, Number 3 (Fall 1990), pp. 65-73.

"Genetic Resources and Rice Varietal Improvement in India," with Robert E. Evenson. Manuscript. Department of Economics, Yale University. New Haven, Conn. September 1990.

"Agricultural Research Policy in Nepal: Strategy and Management Guidelines," with Wayne Freeman and David Seckler, a consultancy report submitted to the Agricultural Research and Production Project, National Agricultural Research Center, and the Ministry of Agriculture, His Majesty's Government of Nepal, August 1990.

"Data Collection for Analysis of Agricultural Productivity Change in Pakistan," unpublished consultancy report for USAID/MART Project, Islamabad, Pakistan, 1988.

In addition to these technical publications and reports, over 100 bylined articles for The Omaha World-Herald in 1985-87.

#### RESEARCH GRANTS

- 2011- Received grant from the International Growth Centre, with Christopher Adam (Oxford University), David Bevan (Oxford University), and Beatrice Mkenda (University of Dar es Salaam) for research on "Transportation Costs, Food Markets, and Structural Transformation in Tanzania."
- 2010- Received grant from the International Growth Centre, with Francesco Caselli (London School of Economics) and Richard Rogerson (Arizona State University and Princeton University), for research on "Agricultural Productivity Growth and Economic Development in an Open Economy: The Case of Ghana."
- 2008-09 Received grant from the National Bureau for Economic Research, African Successes Program, with Richard Rogerson (Arizona State University) for research on "Agriculture in Africa: An Exploration of Macro Factors."
- 2005-2007 Received grant from U.S. Department of Agriculture, National Center for Genetic Resources Preservation, for research on "Economic Evaluation of the Exchange of Animal Genetic Resources."

#### PARTIAL LIST OF CONFERENCES AND INVITED PRESENTATIONS

- 2011 *World Bank -- Annual Bank Conference on Development Economics (ABCDE)*, Paris. "Agriculture and Structural Transformation."
- 2011 *CIRPEE -- Mini-Conference on Development*, Quebec City, Quebec. "Agriculture in General Equilibrium."
2011. *World Bank and Government of Mozambique -- Seminar on Growth, Technology, and Job Creation*, Maputo, Mozambique. "Removing Technology Constraints for Agricultural Development in Mozambique."
- 2010 *NSF-AERC-IGC Technical Session on Agriculture and Development*, Mombasa, Kenya. "Agricultural Productivity and Structural Change."
- 2010 *World Bank Pre-Conference on Structural Transformation*, Washington, DC. "Public Investments and Structural Transformation in Sub-Saharan Africa: Evidence from Uganda."
- 2010 *University of California at Berkeley -- Agriculture for Development Revisited*, Berkeley, CA. "Agricultural Productivity, Economic Growth, and Food Security."
- 2010 *International Growth Centre -- Growth Week 2010*, London. "Comparative Evidence on Yield Growth and Input Use in East African Agriculture."
- 2010 *International Growth Centre -- Growth Week 2010*, London. "Macroeconomic Dimensions of Agricultural Development."

- 2010 *International Growth Centre – Ghana Conference*, Accra, Ghana. “Macroeconomic Dimensions of Agricultural Development.”
- 2010 *U.S. Department of State -- Conference on “Africa’s Informal Economies: Overlooked Source of Resilience and Vulnerability.”* Washington, DC. “Life in the Informal Sector: Agriculture in Sub-Saharan Africa.”
- 2010 *Yale University Environmental Economics Seminar*, New Haven, CT. “Agriculture, Roads, and Economic Development in Africa: The Case of Uganda.”
- 2010 *Amherst College*, Amherst, Mass. “Agriculture, Roads, and Economic Development in Africa: The Case of Uganda.”
- 2010 *Arizona State University*, Tempe, AZ. “Agriculture, Roads, and Economic Development in Africa: The Case of Uganda.”
- 2010 *Yale University School of Forestry and Environmental Studies, FES Seminar Series*, New Haven, CT. Public lecture: “Agricultural Productivity in Sub-Saharan Africa: An Economist’s View.”
- 2009 *National Bureau for Economic Research*. Cambridge, Mass. “Roads, Agriculture, and Economic Development in Africa: The Case of Uganda.”
- 2009 *International Food Policy Research Institute*. Washington, DC. “The Greatest of All Improvements: Roads, Agriculture, and Development in Africa.”
- 2009 *University of Connecticut*, Storrs, CT. “The Greatest of All Improvements: Roads, Agriculture, and Development in Africa.”
- 2009 *African Economic Conference*. Addis Ababa, Ethiopia. “Agricultural Technology, Rural Transportation Infrastructure, and Economic Growth in Africa.”
- 2009 *Society for Economic Dynamics annual meeting*. Istanbul, Turkey. “The Greatest of All Improvements: Roads, Agriculture, and Development in Africa.”
- 2009 *North American Summer Meetings of the Econometric Society*. Boston University, Boston, Mass. “The Greatest of All Improvements: Roads, Agriculture, and Development in Africa.”
- 2009 *African Economic Research Consortium*. Accra, Ghana. “Agriculture as an Engine of Growth and Poverty Reduction in Africa.”
2008. *McGill University*, Montreal, Québec. “Agricultural Productivity and Cross-Country Income Differences.”
2008. *Tufts University*, Medford, MA. “Malaria: Disease Impacts and Long-Run Growth.”
- 2008 *Yale University*, New Haven, CT. “Malaria: Disease Impacts and Long-Run Growth.”
2008. *Penn State University*, State College, PA. “Malaria: Disease Impacts and Long-Run Growth.”
2008. *NBER Background Conference on Economic Research on African Development Successes*. Cambridge, Mass. “Agriculture and Rural Development in Africa: Some Researchable Questions.”
2007. *Conference on Infectious Diseases in Poor Countries, Cornell University*. Ithaca, NY. “Malaria Policy: Alternative Prevention and Eradication Strategies in a Dynamic Model.”

2007. *Conference on Health Improvements for Economic Growth, Economic Growth Lab, Center for International Development, Harvard University*. Cambridge, MA. "Malaria: Disease Impacts and Long-Run Growth."
2007. *North American Winter Meeting of the Econometric Society*. Chicago. "Miracle Economies and Miracle Seeds: Quantifying Agricultural Sources of Economic Growth."
2006. *Keynote address, 27<sup>th</sup> Annual Crown Gall Conference*. Williamstown, MA: "Agrobacterium in a Flat World: An Economist's View on the Changing Landscape for Research on Agricultural Biotechnology."
2006. *Wesleyan University*, Middletown, CT. "Malaria: Disease Impacts and Long-Run Growth."
2006. *University of Houston*, Houston, TX. "Malaria: Disease Impacts and Long-Run Growth."
2006. *Rutgers University*, New Brunswick, NJ. "Malaria: Disease Impacts and Long-Run Growth."
2006. *Development Conference, Arizona State University*, Tempe, AZ. "Malaria: Disease Impacts and Long-Run Growth."
2005. *Northeast Universities Development Consortium annual conference*. Providence, RI. "Malaria: Disease Impacts and Long-Run Growth."
2005. *University of Essex*, Colchester, UK. "Malaria: Disease Impacts and Long-Run Growth."
2005. *Society for Economic Dynamics annual meeting*, Budapest, Hungary. "Malaria: Disease Impacts and Long-Run Growth."
2005. *Federal Reserve Bank of Dallas*, Dallas, TX. "The Food Problem and the Evolution of International Income Levels."
2005. *Columbia University, Barnard-Columbia Earth Coalition Earth Week Discussion*, New York, NY. "Agriculture and Development."
2005. *University of Western Ontario*, London, ON. "The Food Problem and the Evolution of International Income Levels."
2005. *University of Pittsburgh, Department Seminar*, Pittsburgh, PA. "The Food Problem and the Evolution of International Income Levels."
2005. *University of Connecticut, Department Seminar*, Storrs, CT. "The Food Problem and the Evolution of International Income Levels."
2004. *Columbia University, Development Seminar*, New York, NY. "The Food Problem and the Evolution of International Income Levels."
2004. *ADSA Discover Conference*, Cheyenne, WY. "Socio-Economic Valuation of Animal Genetic Resources."
2004. *Brown University, Macroeconomics Workshop*, Providence, R.I. "The Food Problem and the Evolution of International Income Levels."
2004. *Second International Conference on Sunn Pest*, Aleppo, Syria. Keynote address: "Making an Economic Miracle: Agricultural Science, Technology, and Economic Growth."
2004. *Society for Economic Dynamics annual meeting*, Florence, Italy. "Land Reform."

2004. *USAID SLO/Linkage Program conference*, UC Davis. "Impact of CIMMYT's Breeding Uses of Genetic Diversity."
2004. *Yale Rice Biotechnology Symposium – The Future of Rice Biotechnology: Scientific Advances and Policy Issues*. New Haven, CT. Panel discussion.
2004. *CSAE Annual Conference, Centre for Study of African Economies, Oxford University*, "Should Governments Finance Social Spending Through Taxes on Large Firms?"
2004. *University of Connecticut*, "Tax Rates and Informality: Some Cross-Country Evidence."
2004. *CIRPEE*, Montreal, "Structural Transformation and Economic Growth."
2003. *Vassar College*, "Structural Transformation and Economic Growth."
2003. *State University of New York at Albany*, "Structural Transformation and Economic Growth."
2003. *APEC Agricultural Technological Working Group on Research, Development, and Extension of Agricultural Biotechnology*. Mexico City. "Agricultural Biotechnology in Centers of Origin: Economic Impacts on Small Farms and Farm Communities."
2003. *International Association of Agricultural Economists, triennial meetings*. Durban, South Africa. "The Green Revolution: The First Forty Years."
2002. *University of Delaware*, "The Role of Agriculture in Development: A Dynamic Model."
2001. *Northeast Universities Development Consortium annual conference*. Boston, Mass. "Miracle Economies and Miracle Seeds."
2001. *Society for Economic Dynamics annual meetings*. Stockholm, Sweden. "Miracle Economies and Miracle Seeds."
2001. *American Association for the Advancement of Science annual conference*. San Francisco. "Public and Private Sector Roles in Agricultural Biotechnology for Developing Countries: Lessons from the Past Forty Years."
2000. *Northeast Universities Development Consortium annual conference*. Ithaca, NY. "Home Work, Farm Work, and International Productivity Differences."
2000. *Yale University, Trade and Development Workshop*. New Haven, CT. "Home Work, Farm Work, and International Productivity Differences."
2000. *International Association for Agricultural Economists*, Berlin, Germany. Panel speaker on "Assessing Economic Impacts: A Discussion of Methodologies, Consistency Checks, and Aggregate Data."
2000. *American Agricultural Economics Association annual meetings*. Tampa, FL. "Home Work, Farm Work, and International Productivity Differences."
2000. *Society for Economic Dynamics annual meetings*. San Jose, Costa Rica. "The Dark Side of Family Insurance Mechanisms."
2000. *Yale University, Workshop on Environment and Natural Resources*. New Haven, CT. "Searching an *Ex Situ* Collection of Genetic Resources: The Case of Wheat."

2000. *American Association for the Advancement of Science annual meetings*. Washington, DC. “International Research and Genetic Improvement in Rice.”
1999. Workshop on *Economic Impact of Genetic Resources Enhancement*. Bulawayo, Zimbabwe. “International Research and Genetic Improvement in Rice.”
1999. *National Bureau of Economic Research: Summer Institute*. Cambridge, Mass. Discussant for “The Optimal Timing of Evaluation of Genebank Accessions and the Effects of Biotechnology,” by Brian Wright and Bonwoo Koo.
1999. *International Consortium on Agricultural Biotechnology Research*, University of Rome Tor Vergata. “Public Research and the Biotechnology Revolution: The Case of Rice.”
1999. *University of California at Davis, Department of Agricultural and Resource Economics*. “Home Work, Farm Work, and International Differences in Productivity.”
1999. *American Economics Association annual meetings*. New York, NY. Session organizer and chair, “Human Capital, Entrepreneurship, and Economic Development.” Discussant for “Endogenous Scale Effects vs. Schumpeterian Forces: Accounting for the Growth Patterns,” by Diego Comin.
1998. *The 12<sup>th</sup> Toyota Conference: Challenge of Plant and Agricultural Sciences to the Crisis of Biosphere on the Earth in the 21<sup>st</sup> Century*. Mikkabi, Japan. “Setting Priorities for Agricultural Research: Theory and Experience.” (Conference to be held in November.)
1998. *Federal Reserve Bank of Minneapolis Productivity Conference*. Minneapolis. Discussant of “Structural Change and Economic Growth,” by John Laitner.
1998. *American Agricultural Economics Association annual meetings*. Salt Lake City. “Searching an *Ex Situ* of Wheat Genetic Resources.” Also moderator and discussant for other sessions.
1998. *American Economics Association annual meetings*. Chicago. Discussion of “Textbooks and Test Scores: Evidence from a Prospective Evaluation in Kenya,” by Paul Glewwe, Michael Kremer, and Sylvie Moulin.
1997. *University of Virginia, Department of Economics*. Charlottesville, Virginia. “Nobody’s Business but My Own: Self Employment and Small Enterprise in Economic Development.”
1997. *Northeastern Universities Development Conference annual meetings*. Williams College, Williamstown, Massachusetts. Discussion of “Setting Standards: Information Accumulation in Development,” by Daron Acemoglu and Fabrizio Zilibotti.
1997. International Workshop on *Building the Basis for Economic Analysis of Genetic Resources in Crop Plants*, organized by International Maize and Wheat Improvement Center (CIMMYT) and Stanford University. Palo Alto, Calif. “The Empirical Economics of *Ex Situ* Conservation: A Search Theoretic Approach for the Case of Wheat.”
1997. *Society for Economic Dynamics*. Keble College, Oxford. “Nobody’s Business but My Own: Self Employment and Small Enterprise in Economic Development.”
1997. *North American Summer Meeting of the Econometric Society*. Caltech, Pasadena, California. “Nobody’s Business but My Own: Self Employment and Small Enterprise in Economic Development.”

1997. *National Bureau of Economic Research: Universities Consortium Workshop on Innovation and Accumulation in Firms, Industries, and Nations*. Cambridge, Mass. "Nobody's Business but My Own: Self Employment and Small Enterprise in Economic Development."
1997. Workshop on *Globalization and Sustainable Livelihood Systems*. Institute for Social, Economic and Ecological Sustainability, University of Minnesota, Minneapolis, Minn. "Conserving Genetic Resources for Agriculture: Local Farmers, International Organizations, and Intellectual Property Rights."
1997. *CIMMYT Economics Program*. CIMMYT, Mexico. "Valuing an *Ex Situ* Collection of Genetic Resources: The Case of Wheat."
1996. Workshop on *Biodiversity: Perspectives and Technological Opportunities*, organized by Fundação Tropical de Pesquisas e Tecnologia 'Andre Tosello'. Campinas, Brazil. "Valuation of *Ex Situ* Plant Genetic Resources."
1996. Symposium on *The Economics of Valuation and Conservation of Genetic Resources for Agriculture*. University of Rome Tor Vergata, Rome. "Valuing Genetic Resources for Breeding Use: The Case of Rice."
1996. *University of Southern California, Department of Business Economics*. Los Angeles, Calif. "Do Taxes on Large Firms Impede Growth? Evidence from Ghana."
1996. *University of Tennessee, Department of Economics*. Knoxville, Tenn. "Do Taxes on Large Firms Impede Growth? Evidence from Ghana."
1995. Technical Consultation on *Economic and Policy Research for Genetic Resources*. International Food Policy Research Institute, Washington, DC. "Analyzing Policy Options for National and International Genetic Resource Programs."
1995. Workshop on *Easing Barriers to Movement of Plant Varieties for Agricultural Development*. World Bank, Washington, DC. "International Flows of Genetic Resources and Productivity Gains in Rice."
1995. MacArthur Consortium Workshop on *Social Networks, Organizations and Informal Institutions*. University of Minnesota, Minneapolis, Minn. "Small Business and the Informal Sector: A Reappraisal."
1991. Workshop on *Rice Research Prioritization*. International Rice Research Institute, Los Baños, Philippines. "Priority Setting for Genetic Improvement Research."

#### TEACHING EXPERIENCE

- 2009-11 Visiting Professor, Yale School of Forestry and Environmental Studies. Taught *Agriculture and the Environment; Environment and Development*. Advised master's projects.
- 1996-present Department of Economics, Williams College. Courses taught include: principles of economics, principles of microeconomics, development economics, growth theory, intermediate microeconomics, public policy analysis, history of economic thought, international political economy, natural resource economics, and agricultural economics, to classes ranging from 10-50 students, undergraduate and master's students. Advised senior theses; served on numerous college committees.
- 2004-06 Visiting Associate Professor, Department of Economics, Yale University. Taught intermediate microeconomics; macroeconomics for master's students in international development economics; and senior seminar on economic growth.

- 2000 Visiting Assistant Professor, Yale School of Forestry and Environmental Studies. Taught *Economics of Natural Resource Management*.
- 1993-96 Instructor, Department of Economics, University of Minnesota. Taught large lectures of principles of microeconomic theory. Prepared lectures, homework, and exams for classes of 200-400 students. Managed staff of teaching assistants and graders.
- 1993 Teaching Assistant, College of Liberal Arts Honors Program, University of Minnesota. Assisted in honors seminar on food security.
- 1992-93 Teaching Assistant, Department of Economics, University of Minnesota. Led sections on principles of microeconomics.
- 1988 Teaching Assistant, Yale University, International Relations Program. Led sections on international economic relations.
- 1987 Teaching Assistant, Yale University, School of Management. Led sections on international economic development.

#### HONORS AND AWARDS

- 1999-2001 Gaylord Donnelley Fellow, Yale Institute for Biospheric Studies, Yale University.
- 1995-96 Walter Heller Award for Outstanding Teaching of Principles of Economics, University of Minnesota, Department of Economics.
- 1995-96 Distinguished Instructor, University of Minnesota, Department of Economics.
- 1994-95 Walter Heller Award for Outstanding Teaching of Principles of Economics, University of Minnesota, Department of Economics.
- 1991-96 MacArthur Scholar, MacArthur Interdisciplinary Program for Peace and International Cooperation, University of Minnesota.
- 1995 Awarded travel fellowship from MacArthur Program for Peace and International Cooperation, University of Minnesota, for travel to Ghana in connection with dissertation research.
- 1994-95 Distinguished Instructor, University of Minnesota, Department of Economics.
- 1991-92 Graduate School Fellowship, University of Minnesota.
- 1986-88 University Fellowship, Yale University.
- 1987 Travel grant, Southeast Asia Area Studies Council, Yale University, for research in Thailand.
- 1982-83 John Harvard Scholarship, Harvard University.
- 1980-82 Harvard College Scholarships, Harvard University.

#### PREVIOUS AFFILIATIONS AND OTHER PROFESSIONAL EXPERIENCE

- 2008-10 Affiliate Scientist, Makerere Institute of Social Research, Makerere University, Kampala, Uganda.

- 2006 Visiting scholar, University of New South Wales, Sydney, Australia.
- 2005 Academic Visitor, Centre for Study of African Economies, Oxford, England.
- 2004 Academic Visitor, Centre for Study of African Economies, Oxford, England.
- 2004 Consultant, Economics Program, International Center for Maize and Wheat Improvement, Mexico. Examined impacts of wheat and maize research on yield stability.
- 2001-2003 Consultant, International Plant Genetic Resources Institute, Rome. Performed research on valuation of gene banks.
- 1999-2002 Consultant, International Rice Research Institute, Los Baños, Philippines. Assisted IRRI staff in impact assessment of rice technologies.
- 1997-2001 Affiliate Scientist, Economics Program, International Center for Maize and Wheat Improvement, Mexico. Performed research relating to management and impact of agricultural research.
- 1995 Consultant, World Bank, AGRTN division. Participated in workshop on national seed policy.
- 1994 Research Assistant for Professor Timothy J. Kehoe, Department of Economics, University of Minnesota. Conducted research documenting factor shares across countries.
- 1993 Consultant, Environmental Policy and Training Project, Washington, DC. Prepared papers on methodologies for evaluating natural resource programs in sub-Saharan Africa.
- 1991, 1992 Visiting Assistant Scientist and Consultant, International Rice Research Institute, Los Baños, Philippines. Analyzed and evaluated international flows of rice germplasm.
- 1989-91 Program Associate, Winrock International Institute for Agricultural Development, Morrilton, Ark. Prepared policy papers and research surveys on agricultural technology and research policy; managed projects.
- 1988 Monrovia, Liberia. Conducted preliminary research for a study of rice retailing.
- 1988 Consultant, Winrock International Institute for Agricultural Development, Islamabad, Pakistan. Collected and prepared data for evaluation of agricultural research in Pakistan.
- 1988 Research Assistant to Professor Colin I. Bradford, Department of Economics, Yale University. Prepared spreadsheet models of Central American economies.
- 1987-88 Research Assistant to Professor Robert E. Evenson, Department of Economics, Yale University.
- 1985-86 Copy editor and reporter, The Omaha World-Herald, Omaha, Neb. (metropolitan daily newspaper, circulation 225,000). Contributed to award-winning series "Growing Pains" on international competition with U.S. agriculture.

#### GENERAL

President (2005-2008), and Past President (2008-), New Haven Youth Soccer, a volunteer organization serving approximately 900 children annually in New Haven, Conn., and surrounding towns. With an annual budget of \$100,000, NHYS serves a large and diverse population, providing safe and fun opportunities for children to play soccer. Responsibilities include: recruiting and managing volunteers, writing and

administering grants, fundraising, scheduling, supervising paid coaches, and serving as liaison to city government, schools, and other community organizations.

Languages: French (semi-fluent), Italian (elementary).

International professional experience (more than six weeks): Philippines, Nepal, Pakistan, Mexico, Ghana, Liberia.

International professional experience (less than six weeks): Uganda, Thailand, Kenya, Ethiopia, Côte d'Ivoire, Mozambique, Zimbabwe, South Africa, Syria.

Membership: American Economics Association, Econometric Society, Society for Economic Dynamics, American Agricultural Economics Association, International Association for Agricultural Economics.

Reviewer: *American Economic Review; Journal of Political Economy; Review of Economic Studies; Review of Economics and Statistics; Quarterly Journal of Economics; Journal of Economic Theory; Journal of Monetary Economics; Journal of Development Economics; Journal of Public Economics; Journal of International Economics; International Economic Review; Journal of Money, Credit and Banking; American Economic Journal: Macro; Economic Theory; Journal of Economic Growth; Review of Economic Dynamics; Macroeconomic Dynamics; Journal of Health Economics; American Journal of Agricultural Economics; Economic Development and Cultural Change; Journal of Economic Dynamics and Control; Environment and Development Economics; Economic Inquiry; IMF Staff Papers; Journal of Macroeconomics; Science; Proceedings of the National Academy of Sciences; Journal of African Economies; Feminist Economics; Contemporary Economic Policy; Agricultural Economics; Ecological Economics; Food Policy; B.E. Journal of Macroeconomics; Review of Agricultural Economics; World Development; Journal of International Development; Gastronomica; Industrial Ecology; National Science Foundation; Social Sciences and Humanities Research Council of Canada.*

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