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CURRENT POSITION

Associate Professor, Department of Economics, Williams College.

EDUCATION

- 1991-96 University of Minnesota. Ph.D. 1996 in Economics. Fields of concentration: Development, Macroeconomics, Public Finance, Agricultural Economics.
- 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

“Valuing Animal Genetic Resources: Lessons from Plant Genetic Resources,” with Robert E. Evenson. Forthcoming, *Ecological Economics*.

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

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

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

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

JOURNAL ARTICLES IN PROGRESS:

“The Green Revolution: An End of Century Perspective,” joint with Robert Evenson, Yale University. Manuscript. (Revisions requested for *Science*.)

“Home Work, Farm Work, and International Differences in Productivity,” joint with Stephen Parente, University of Pennsylvania, and Richard Rogerson, University of Pennsylvania. Manuscript. (Submitted to *Review of Economic Dynamics*.)

“Nobody’s Business but My Own: Self Employment and Small Enterprise in Economic Development,” Manuscript, revised August 2002.

“Do Taxes on Large Firms Impede Growth? Evidence from Ghana.” Manuscript, revised August 2002.

OTHER PAPERS:

“Structural Transformation and the Cross-Country Income Distribution,” with Stephen Parente and Richard Rogerson. Presented at NBER Summer Institute 2002, Cambridge, Mass.; and at Society for Economic Dynamics annual meetings 2002, New York.

“Miracle Economies and Miracle Seeds,” joint with Stephen Parente, University of Illinois, and Richard Rogerson, University of Pennsylvania. Presented at 2001 SED meetings, Stockholm and 2001 NEUDC meetings, Boston University.

“Informal Employment, Human Capital, and Economic Growth,” joint with Jane Ihrig, University of Virginia, and Karine Moe, Macalester College. Presented at 1999 ASSA meetings, New York.

“Human Capital and Growth Revisited: The Experience of China’s Provinces,” joint with Ronald A. Edwards, University of Minnesota. Presented (by R. Edwards) at 1998 meetings of Society for Economic Dynamics, Philadelphia.

“The Dark Side of Family Insurance Mechanisms,” joint with Elizabeth Caucutt, University of Rochester. Presented at 2000 meetings of Society for Economic Dynamics, San Jose, Costa Rica.

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, forthcoming 2002).

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

BOOK CHAPTERS

“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, forthcoming 2002).

“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, forthcoming 2002).

“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, forthcoming 2002).

“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, forthcoming 2002).

“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 21st 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.

OTHER PUBLICATIONS

“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.

“Self Employment, Small Enterprise, and Economic Development.” Ph.D. Thesis, University of Minnesota, Department of Economics. Minneapolis, Minn. July 1996.

“Do Taxes on Large Firms Impede Growth? Evidence from Ghana.” Bulletin Number 95-9, Economic Development Center, University of Minnesota. Minneapolis, Minn. November 1995.

"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, paper presented at 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.

CONFERENCES AND INVITED PRESENTATIONS

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 12th Toyota Conference: Challenge of Plant and Agricultural Sciences to the Crisis of Biosphere on the Earth in the 21st 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

- 1996-present Assistant Professor, Department of Economics, Williams College. Taught principles of economics, development economics, intermediate microeconomics, public policy analysis, natural resource economics, and agricultural economics (nine different courses) to classes ranging from 10-50 students. Advised senior theses; served on numerous college committees.
- 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.

RESEARCH AND PROFESSIONAL EXPERIENCE

- 1999-present Consultant, International Rice Research Institute, Los Baños, Philippines. Assisted IRRI staff in preparation of impact assessment report.
- 1997-present Affiliate Scientist, Economics Program, International Center for Maize and Wheat Improvement, Mexico. Perform 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. Traveled to South and Southeast Asia for study of rice genetic resources.
- 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

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): Thailand, Kenya, Ethiopia, Côte d'Ivoire, Zimbabwe.

Membership: American Economics Association, Econometric Society, Society for Economic Dynamics, American Agricultural Economics Association, International Association for Agricultural Economics, American Association for the Advancement of Science.

Reviewer: *Journal of Political Economy*, *International Economic Review*, *Review of Economic Dynamics*, *American Journal of Agricultural Economics*, *Environment and Development Economics*, *Economic Inquiry*, *IMF Staff Papers*, *Journal of African Economies*, *Contemporary Economic Policy*, *Agricultural Economics*, *Ecological Economics*, National Science Foundation.

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