# Greg Traxler

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## Professional Experience

Senior Lecturer. Daniel J. Evans School of Public Policy and Governance, University of Washington, Seattle, WA. December 2014 – present.

Visiting Scientist. International Center for Tropical Agriculture (CIAT). Cali, Colombia. June-July 2015.

Agricultural Policy Group Lead; Senior Program Officer; Interim Deputy Director. Agricultural Development Strategy, Bill & Melinda Gates Foundation. Seattle, WA. June 2008 – December 2014.

Assistant, Associate and Full Professor. Dept. of Agricultural Economics, Auburn University, Auburn, Alabama. 1990-2008.

Affiliate Scientist. Economics Program, International Maize and Wheat Improvement Center (CIMMYT). 1996 - 2003.

Visiting Scientist. CIMMYT, El Batán, Mexico. July - August, 1993 & June-August, 1996.

Pre-doctoral Research Fellow. Economics Program, CIMMYT, 1988 - 1990.

Research Assistant. Center for Agricultural and Rural Development, Iowa State University. 1985 - 1988.

Research Assistant. Dept. of Agricultural and Applied Economics, University of Minnesota. 1984 - 1985.

## Education

Ph.D. Iowa State University. Department of Economics. Minor in Statistics. 1990.

M.S. University of Minnesota. Department of Agricultural and Applied Economics. 1987.

B.B.A. University of Portland, Oregon. College of Business Administration. 1977.

## Publications

Traxler, G. (2017). Institutional constraints and options for expanding the biotechnology revolution in developing countries. In P. Pingali & G. Feder (Eds.), *Agriculture and rural development in a globalizing world*. London: Routledge.

Orazem, P. F., Traxler, G., & Kalaitzandonakes, N. (2015). Introduction: Essays in honor of Wallace Huffman. *Agbioforum, 18*(3), 239-242.

Traxler, G. (2011). Agricultural biotechnology in Latin America: Economic benefits, regional capacity, and policy options. In R. D. Christie & V. L. Bogan (Eds.), *Financial inclusion, innovation, and investments: Biotechnology and capital markets working for the poor* (pp. 129-159). Singapore: World Scientific Publishing Company.

Napasintuwong, O., & Traxler, G. (2009). Ex-ante impact assessment of GM papaya adoption in Thailand. *Agbioforum, 12*(2), 209-217.

Napasintuwong, O., & Traxler, G. (2008). Ex-ante economic evaluation of transgenic plants adoption in Thailand. *Kasetsart University Journal of Economics*. 14(2), 86-102.

Sriwatanapongse, S., Attathorn, S., Napasintuwong, O., Iamsupasit, N., & Traxler, G. (2007). *Agricultural biotechnology benefits in Thailand*. Bangkok: Biotechnology Alliance Association.

Traxler, G. (2007). US: Leading science, technology and commercialization. In S. Fukuda-Parr (Ed.), *The gene revolution: GM crops and unequal development* (pp. 36-50). London: Earthscan.

Huffman, W.E., Norton, G., Traxler, G. Frisvold, G., & Foltz, J. (2006). Winners and losers: Formula versus competitive funding of agricultural research. *Choices*, 21(4), 269-274.

Traxler, G. (2006). The GMO experience in North and South America. *International Journal of Technology and Globalisation, 2*(1-2), 46-64.

Acquaye, A. K. A., & Traxler, G. (2005). Monopoly power, price discrimination, and access to biotechnology innovations. *Agbioforum, 8*(2-3), 127-133.

Jefferson-Moore, K. Y., & Traxler, G. (2005). Second-generation GMOs: Where to from here? *Agbioforum, 8*(2-3), 143-150.

Jefferson-Moore, K. Y., Traxler, G., & Kinnucan, H. (2005). Value-enhanced genetically modified crops: Research incentives and implications for developing countries. *Quarterly Journal of International Agriculture, 44*(3), 311-326

Jolly, C., Jefferson-Moore, K., & Traxler, G. (2005). Consequences of biotechnology policy for competitiveness and trade of southern U.S. agriculture. *Journal of Agricultural and Applied Economics, 37*(02), 393-407.

Qaim, M., & Traxler, G. (2005). Roundup ready soybeans in Argentina: Farm level and aggregate welfare effects. *Agricultural Economics, 32*(1), 73-86.

Traxler, G., & Godoy-Avila, S. (2004). Transgenic cotton in Mexico. *Agbioforum, 7*(1-2), 57-62.

Traxler, G. (2004). *The economic impacts of biotechnology-based technological innovations.* (ESA Working Paper No. 04-08). Rome: Agricultural and Development Economics Division, FAO.

Zohrabian, A., Traxler, G., Caudill, S., & Smale, M. (2004). The marginal value of an accession. *IFPRI Issue Brief*. International Food Policy Research Institute, Washington D.C.

Traxler, G., Godoy-Avila, S., Falck-Zepeda, J. B., & Espinoza-Arellano, J. (2003). Transgenic cotton in Mexico: Economic and environmental impacts. In N. Kalaitzandonakes (Ed.), *Economic and environmental impacts of first generation biotechnologies* (pp. 183-202). New York: Kluwer Academic.

Zohrabian, A., Traxler, G., Caudill, S., & Smale, M. (2003). Valuing pre-commercial genetic resources: A maximum entropy approach. *American Journal of Agricultural Economics, 85*(2), 429-436.

Pingali, P. L., & Traxler, G. (2002). Changing locus of agricultural research: Will the poor benefit from biotechnology and privatization trends? *Food Policy, 27*(3), 223-238.

Trigo, E. J., Traxler, G., Pray, C., & Echeverría, R. (2002). *Agricultural biotechnology and rural development in Latin America and the Caribbean: Implications for IDB lending.* (Technical Paper No. RUR-107). Washington, D.C.: Sustainable Development Department, Inter-American Development Bank.

Byerlee, D., & Traxler, G. (2001). The role of technology spillovers and economies of size in the efficient design of agricultural research systems. In J. M. Alston, P. G. Pardey & M. J. Taylor (Eds.), *Agricultural science policy: Changing global agendas* (pp. 161-186). Baltimore, Md.: Johns Hopkins University Press.

Falck-Zepeda, J. B., Traxler, G., & Nelson, R. G. (2001). Cotton GMO adoption and private profitability. In G. Nelson (Ed.), *Genetically modified organisms in agriculture: Economics and politics* (pp. 47-58). San Diego: Academic Press.

Traxler, G., & Byerlee, D. (2001). Linking technical change to research effort: An examination of aggregation and spillovers effects. *Agricultural Economics, 24*(3), 235-246.

Trigo, E. J., Traxler, G., Pray, C., & Echeverría, R. (2001). Agricultural biotechnology in Latin America and the Caribbean. In P. G. Pardey (Ed.), *The future of food: Agricultural biotechnology: Markets and policies in an international setting* (pp. 221-250). Washington, D.C.: International Food Policy Research Institute.

Falck-Zepeda, J. B., & Traxler, G. (2000). The role of federal, state, and private institutions in seed technology generation in the United States: The case of cotton. In K. Fuglie, & D. Schimmelpfenning (Eds.), *Public-private collaboration in agricultural research: New institutional arrangements and economic implications* (pp. 99-115). Ames, IA: Iowa State University Press.

Falck-Zepeda, J. B., Traxler, G., & Nelson, R. G. (2000). Surplus distribution from the introduction of a biotechnology innovation. *American Journal of Agricultural Economics, 82*(2), 360-369.

Falck-Zepeda, J., Traxler, G., & Nelson, R. (2000). Rent creation and distribution from biotechnology innovations: The case of bt cotton and Herbicide-Tolerant soybeans in 1997. *Agribusiness, 16*(1), 21-32.

Falck-Zepeda, J. B., Traxler, G., & Nelson, R. G. (2000). *Rent creation and distribution from the first three years of planting bt cotton.* (ISAAA Brief No. 14). Ithaca, NY: International Service for the Acquisition of Agri-biotech Applications.

Byerlee, D., & Traxler, G. (1999). Estimation of actual spillovers of national and international wheat improvement research. In M. K. Maredia, & D. Byerlee (Eds.), *Research efficiency in the presence of technology spillovers: The case of national and international wheat improvement research*. Mexico, D.F.: International Maize and Wheat Improvement Center (CIMMYT).

Traxler, G. (1999). Assessing the prospects for the transfer of genetically modified crop varieties to developing countries. *Agbioforum, 2*(3-4), 198-202.

Traxler, G. (1999). Balancing basic, genetic enhancement and cultivar development research in an evolving us plant germplasm system. *Agbioforum, 2*(1), 43-47.

Traxler, G., & Falck-Zepeda, J. (1999). The distribution of benefits from the introduction of transgenic cotton varieties. *Agbioforum, 2*(2), 94-98.

Traxler, G., & Pingali, P. (1999). *Economic incentives and the roles of research partners in genetic improvement research.* (Working Paper). Mexico, D.F.: International Maize and Wheat Improvement Center.

Traxler, G., & Pingali, P. L. (1998). Enhancing the diversity of modern germplasm through the international coordination of research roles. In M. Smale (Ed.), *Farmers, gene banks and crop breeding: Economic analyses of diversity in rice, wheat and maize* (pp. 205-216). Boston: Kluwer Academic.

Babu, S. C., Nivas, B. T., & Traxler, G. J. (1996). Irrigation development and environmental degradation in developing countries - a dynamic model of investment decisions and policy options. *Water Resources Management, 10*(2), 129-146.

Mitchell, C. C., Traxler, G., & Novak, J. L. (1996). Measuring sustainable cotton production using total factor productivity. *Journal of Production Agriculture, 9*(2), 289-297.
Byerlee, D., & Traxler, G. (1995). National and international wheat improvement research in the post-green revolution period: Evolution and impacts. *American Journal of Agricultural Economics, 77*(2), 268-278.
Novak, J. L., Traxler, G., Runge, M., & Mitchell Jr, C. (1995). The effect of mechanical harvesting technology on southern piedmont cotton production, 1896-1991. *Agricultural History, 69*(2), 349-366.
Traxler, G., Falck-Zepeda, J. B., Ortiz-Monasterio, I., & Sayre, K. (1995). Production risk and the evolution of varietal technology. *American Journal of Agricultural Economics, 77*(1), 1-7.
Traxler, G., Novak, J., Mitchell, C., & Runge, M. (1995). Long-term cotton productivity: Alabama old rotation study. In V. Barnett, T. Payne & R. Steiner (Eds.), *Agricultural sustainability in economic, environmental and statistical terms*. Chichester: John Wiley and Sons.
Kee, D., Novak, J., Traxler, G., Shelby, R., & Dalrymple, L. (1994). Endophyte infection found to increase over time, *American Forages and Grasslands Council News*, 5:3-5.
Kinnucan, H., & Traxler, G. (1994). Ranking agricultural economics departments by *AJAE* page counts: A Reappraisal and Extension. *Agricultural and Resource Economics Review*, 23(2), 194-99.
Traxler, G., & Byerlee, D. (1993). A joint-product analysis of the adoption of modern cereal varieties in developing countries. *American Journal of Agricultural Economics, 75*(4), 981-989.
Traxler, G., & Byerlee, D. (1992). Economic returns to crop management research in a post-green revolution setting. *American Journal of Agricultural Economics*, 74(4), 573-82.
Traxler, G., & Byerlee, D. (1992). *Crop management research: The products and their impacts on productivity.* (CIMMYT Economics Paper No. 5). Mexico, D.F.: International Maize and Wheat Improvement Center.
Molnar, J. J., & Traxler, G. (1991). People left behind: Transitions of the rural poor. *Southern Journal of Agricultural Economics, 23*(1), 75-87.
Traxler, G., Renkow, M., & Harrington, L. (1991). Assessing the impact of new technology: Three levels of analysis, *Journal of the Asian Farming Systems Association*, 1(2), 227-44.
Hussain, S.S., Longmire, L. Ali, M. M., & Traxler, G. (1990). The yield gap for wheat in Pakistan, *Pakistan Journal of Agricultural Social Sciences*, 5:56-85.
Traxler, G., & Ruttan, V.W. (1986). Assistance for water resource development in Pakistan. *Pakistan Journal of Agricultural Social Sciences*, 1:72-91.

**Recent Presentations**

Institutional constraints and options for expanding the biotechnology revolution in developing countries. Presentated at the 20th ICABR Conference *Transforming the bioeconomy: behavior, innovation and science*, Ravello, Italy, June 26 - 29, 2016.
R&D and seed delivery in SSA. Presented at agricultural initiatives forum, Global Good Headquarters, Bellevue, Washington, October 21, 2015.
Tendencias, desafíos y oportunidades para la investigación agropecuaria en América Latina y el Caribe. Webinar hosted by International Center for Tropical Agriculture, September 11, 2015.
Using DNA fingerprinting to estimate the diffusion of improved crop varieties in Ethiopia. Presented at symposium *Improving the methods of measuring varietal adoption by farmers in developing countries*, 29th international conference of agricultural economists, Milan, Italy, August 9-14, 2015.
Biotechnology and the developing country agricultural productivity frontier: is the institutional structure in place? Presented at *Agriculture & rural development in a transforming world*, University of Milan, August 7, 2015.
Monitoring, evaluation and impact assessment. Presented at International Center for Tropical Agriculture, July 23, 2015.
Smallholder agricultural transformation: markets and policy. Presented at *Technical convening on smallholder agricultural transformation*, Arlington, VA, May 7-8, 2015.
The Bill & Melinda Gates Foundation experience with human and institutional capacity development programs. Presented at the symposium *Creating future leaders: BIFAD and USAID dialogue on human and institutional capacity development*, World Food Prize and Borlaug dialogue, DesMoines, October 15, 2014.
Agricultural development, nutrition and health. Presented at Agricultural & Applied Economics Association annual meeting, Washington DC, August 4-6, 2013.
CGIAR reforms: donor's perspective. Presented at Agricultural & Applied Economics Association annual meeting, Washington DC, August 4-6, 2013.
The emergence of a new tool to fight hunger: biotechnology in agriculture. Asuncion, Paraguay, August 23, 2012.

Why are metrics and monitoring important? Presented at *Science forum 2011, metrics, monitoring and certification to support sustainable intensification of small-holder agriculture*, Beijing, China, 17-19 October, 2011.

Changing trends in the demand and supply of aid for agriculture development and the quest for coordination. Presented at Agricultural & Applied Economics Association annual meeting, Pittsburgh, July 24–26, 2011.

Key drivers of food security. Presented at the Australian Bureau of Agricultural and Resource Economics and sciences outlook 2011 conference, Canberra Australia March 1-2, 2011.

Enhancing productivity and growth in agriculture. Presented at *Investing in a knowledge base for African agriculture*, Zurich, Switzerland January 31 – February 4, 2011.

How to make agriculture for development into a reality. Presented at *Agriculture for development – revisited,* University of California, Berkeley, October 1 and 2, 2010.

African development and capacity building through the lens of a donor. Michigan State University, April 8, 2010.

**Service and Honors**

African Association of Agricultural Economics Distinguished Fellow, elected 2016

International Consortium on Applied Bioeconomy Research, Steering Committee, 2016- present.

Mexican Inter-Secretarial Commission of Biosafety of Genetically Modified Organisms, Study Group on GMO Cotton in Mexico, March 2015 – present.

Genome Canada. Research Oversight Committee for Application of Genomics to Innovation in the Lentil Economy, August 2015 – present.

AgEcon Search Advisory Board, 2014 – present.

University of Portland, Pamplin School of Business Dean's Advisory Board, 2011 - present.

FamilyWorks Resource Center & Food Bank, Board President, 2014 - present

International Food Policy Research Institute (IFPRI), Advisory Committee, 2020 Vision Initiative conference *Building Resilience for Food and Nutrition Security.* 2014.

African Growth and Development Policy (AGRODEP) Modeling Consortium, Steering Committee, 2010-2014.

International Center for Tropical Agriculture (CIAT), Strategy 2014-20, External Advisers panel, 2013.

National Academies of Sciences committee, *Global Challenges and Directions for Agricultural Biotechnology: Mapping the Course,* 2004-06.

Genome Canada, Scientific Advisory Board for *Translating Science: Genomics and Health Systems*, 2005 - 2008.

Alabama Agricultural Experiment Station, Director's Research Award, 2001

Southern Agricultural Economics Association, Outstanding Professional Contribution in Teaching, 1994.

**Courses Taught**

Graduate:

Food and Agricultural Policy in Developing Countries;
Science, Technology and Public Policy;
Quantitative Methods I;
Capstone Seminar;
Introduction to Econometrics;
Advanced Agricultural Finance;
Production Economics

Undergraduate:

Agricultural Finance;
Principles of Agribusiness Management;
Farm Management;
Principles of Microeconomics

**Other**

Speaking proficiency in Spanish