

DAVID ABLER

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Department of Agricultural Economics, Sociology, and Education
Penn State University
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Place of Birth and Citizenship

United States

Academic Employment

- 2017-Present Associate Head, Department of Agricultural Economics, Sociology, and Education, Penn State University
- 2007-Present J. Lossing Buck Visiting Professor, Nanjing Agricultural University, China
- 1999-Present Professor, Agricultural, Environmental & Regional Economics and Demography, Penn State University
- 1994 Visiting Research Professor, Wageningen University, Netherlands
- 1993-1999 Associate Professor, Agricultural Economics and Demography, Penn State University
- 1987-1993 Assistant Professor, Agricultural Economics and Demography, Penn State University
- 1982-1986 Research Assistant, Economics, University of Chicago
- 1980-1982 Teaching Assistant, Economics, Macalester College

Education

- 1987 Ph.D., Economics, University of Chicago
- 1982 B.A., Economics and Mathematics, Macalester College

Languages

Spanish (Reading=Fair; Spoken=Fair; Written=Fair)

Academic Publications

Global Food and Agricultural Markets

Abler, D. (2019). "The International Role in Agricultural Development." *Global Challenges for Future Food and Agricultural Policies*. Ed. D. Blandford and K. Hassapoyannes. Singapore: World Scientific.

Dong, Y., Y. Mu, and D. Abler (2019). "Do Farmer Professional Cooperatives Improve Technical Efficiency and Income? Evidence from Small Vegetable Farms in China." *Journal of Agricultural and Applied Economics*, doi:10.1017/aae.2019.22.

Nie, W., D. Abler, L. Zhu, T. Li, and G. Lin (2018). "Consumer Preferences and Welfare Evaluation under Current Food Inspection Measures in China: Evidence from Real Experiment Choice of Rice Labels." *Sustainability*, 10, 4003; doi:10.3390/su10114003.

Zhou, D., X. Yu, D. Abler, and D. Chen (2017). "Projecting Meat and Cereals Demand for China Based on a Meta-Analysis of Income Elasticities." *China Economic Review*, doi:10.1016/j.chieco.2017.12.002.

Yu, X., D. Abler, and S. Shimokawa (2017). "Introduction to the Special Issue on 'Sustainable Food Consumption in China'." *China Economic Review*, doi.org/10.1016/j.chieco.2017.12.005.

Yu, X., and D. Abler (2016). "Matching Food with Mouths: A Statistical Explanation to the Abnormal Decline of Per Capita Food Consumption in Rural China." *Food Policy* 63:36-43.

Chen, D., D. Abler, D. Zhou, X. Yu, and W. Thompson (2016). "A Meta-Analysis of Food Demand Elasticities for China." *Applied Economic Perspectives and Policy* 38:50-72.

Yu, X., and D. Abler (2014). "Where Have All the Pigs Gone? Inconsistencies in Pork Statistics in China." *China Economic Review* 30:469-484.

Chen, D., and D. Abler (2014). "Demand Growth for Animal Products in the BRIIC Countries." *Agribusiness: An International Journal* 30:85-97.

Fleming, D., and D. Abler (2013). "Does Agricultural Trade Affect Productivity? Evidence from Chilean Farms." *Food Policy* 41:11-17.

Abler, D., D. Blandford, D. Orden, J. Wainio, and C. Jabara (2011). *Transparency of Nontariff Measures in Food and Agricultural Trade*. Oak Brook, Illinois: Farm Foundation.

Abler, D. (2010). *Demand Growth in Developing Countries*. TAD/CA/APM/CFS/MD(2010)9. Paris: Organization for Economic Cooperation and Development.

Abler, D. (2009). "Where Does All the Money Go? Measuring Effects of Agricultural Policy Transfers on Farm Income." *American Journal of Agricultural Economics* 91:1302-1303.

Abler, D., M. Banse, M. Kuiper, P. Roza, and F. Santuccio (2009). *EU Agricultural Trade Relations with Asian Countries*. Seville, Spain: European Commission, Institute for Prospective Technological Studies.

- Abler, D., J.C. Beghin, D. Blandford, and A. Elobeid (2008). "Changing the U.S. Sugar Program into a Standard Crop Program: Consequences under NAFTA and Doha." *Review of Agricultural Economics* 30:82-102.
- Abler, D. (2007). "Approaches to Measuring the Effects of Trade Agreements." *Journal of International Agricultural Trade and Development* 3:155-171.
- Abler, D. (2006). "New Dimensions and Emerging Issues in Modeling Global Food and Agricultural Markets." *Journal of International Agricultural Trade and Development* 2:i.
- Abler, D., and D. Blandford (2006). "A Review of Empirical Studies of the Acreage and Production Response to US Production Flexibility Contract Payments under the Fair Act and Related Payments under Supplementary Legislation." *OECD Economic Papers* 5:259-290.
- Abler, D. (2001). "Elasticities of Substitution and Factor Supply in Canadian, Mexican and United States Agriculture." *Market Effects of Crop Support Measures*. Paris: Organization for Economic Cooperation and Development.
- Abler, D., and M. Hallberg (2001). *International User's Guide to Pennsylvania Agriculture*. State College, PA: Josten's Publishing.
- Abler, D.G., and J.S. Shortle (1997). "Modeling Environmental and Trade Policy Linkages: The Case of EU and US Agriculture." *Environmental Policy Modeling*. Ed. W. Martin and L. McDonald. New York: Kluwer.
- Abler, D.G., A.G. Rodríguez, and J.S. Shortle (1995). "Natural Resource Implications of Agricultural Trade Liberalization." *Agricultural Competitiveness: Market Forces and Policy Choice*. Ed. G. H. Peters and D. D. Hedley. Aldershot, UK: Dartmouth.
- Abler, D.G. (1995). "The European Union and Its Consequences for World Agriculture." *International Association of Agricultural Economists (IAAE) Members Bulletin*, no. 13. Oxford, UK: IAAE.
- Abler, D.G., and D. Pick (1993). "NAFTA, Agriculture and the Environment in Mexico." *American Journal of Agricultural Economics* 75:794-798.
- Abler, D.G. (1993). "NAFTA, Agriculture, and the Environment." *Tulsa Law Journal* 28:659-671.
- Abler, D.G., and J.S. Shortle (1992). "Potential for Environmental and Agricultural Policy Linkages and Reforms in the European Community." *American Journal of Agricultural Economics* 74:775-781.
- Abler, D.G., and J.S. Shortle (1992). "Environmental and Farm Commodity Policy Linkages in the US and EC." *European Review of Agricultural Economics* 19:197-217.
- Abler, D.G. (1991). "Campaign Contributions and House Voting on Sugar and Dairy Legislation." *American Journal of Agricultural Economics* 73:11-17.
- Abler, D.G. (1989). "Vote Trading on Farm Legislation in the U.S. House." *American Journal of Agricultural Economics* 71:583-591.

Environment and Natural Resources

Shortle, J., D. Abler, Z. Kaufman, and K. Zipp (2016). "Implications of Lags in Pollution Delivery for Efficient Agricultural Waste Load Allocations and the Design of Water Quality Trading Programs." *Agricultural and Resource Economics Review* 45:367-393.

Abler, D. (2015). "Economic Evaluation of Agricultural Pollution Control Options for China." *Journal of Integrative Agriculture* 14:1045-1056.

Shortle, J., D. Abler, S. Blumsack, K. Fang, A. Kemanian, P. Knight, M. McDill, R. Najjar, R. Ready, A. Ross, M. Rydzik, C. Shen, S. Wang and D. Wardrop (2015). *Pennsylvania Climate Impacts Assessment Update*. Harrisburg: Pennsylvania Department of Environmental Protection.

Kaufman, Z., D. Abler, J. Shortle, J. Harper, J. Hamlett, and P. Feather (2014). "Agricultural Costs of the Chesapeake Bay Total Maximum Daily Load." *Environmental Science & Technology* 48: 14131-14138.

Shortle, J., Z. Kaufman, D. Abler, J. Harper, J. Hamlett, and M. Royer (2013). *Building Capacity to Analyze the Economic Impacts of Nutrient Trading and Other Policy Approaches for Reducing Agriculture's Nutrient Discharge into the Chesapeake Bay Watershed*. Washington, DC: USDA.

Wilson, T., F. McNeal, S. Spatari, D.G. Abler, and P.R. Adler (2012). "Densified Biomass Can Cost-Effectively Mitigate Greenhouse Gas Emissions and Address Energy Security in Thermal Applications." *Environmental Science & Technology* 46: 1270-1277.

Abler, D., K. Fisher-Vanden, M. McDill, R. Ready, J. Shortle, I. Sue Wing, and T. Wilson (2011). *Economic Impacts of Projected Climate Change in Pennsylvania*. Harrisburg: Pennsylvania Department of Environmental Protection.

Yu, X. and D. Abler (2010). "Incorporating Zero and Missing Responses into CVM with Open-Ended Bidding: Willingness to Pay for Blue Skies in Beijing." *Environment and Development Economics* 15:535-556.

Shortle, J., D. Abler, S. Blumsack, R. Crane, Z. Kaufman, M. McDill, R. Najjar, R. Ready, T. Wagener, and D. Wardrop (2009). *Pennsylvania Climate Impact Assessment Report*. Harrisburg: Pennsylvania Department of Environmental Protection.

Celikkol, B., and D.G. Abler (2008). "Environmental Policy with Endogenous Technology from a Game Theoretic Perspective: The Case of the US Pulp and Paper Industry." *Environmental and Resource Economics* 40:424-444.

Abler, D. (2008). "Multifunctionality in Agriculture: Evaluating the Degree of Jointness, Policy Implications." *Multifunctionality in Agriculture: Evaluating the Degree of Jointness, Policy Implications*. Paris: OECD.

Abler, D. (2007). "Do Price and Income Support Policies Promote Multifunctional Agriculture in an Efficient Manner?" In H. Tsujii (ed.), *Proceedings of the 57th Annual Meeting of the Association of Regional Agriculture and Forestry Economics (ARFE)*, pp. 158-172. Kanazawa, Japan: ARFE.

- Abler, D. (2005). "Multifunctionality, Land Use and Agricultural Policy." *Land Use Problems and Conflicts: Causes, Consequences and Solutions*. Ed. S.J. Goetz, J.S. Shortle, and J.C. Bergstrom. New York: Routledge.
- Borisova, T., J. Shortle, R.D. Horan, and D. Abler (2005). "Value of Information for Water Quality Management." *Water Resources Research* 41:41:W06004, doi:10.1029/2004WR003576.
- Abler, D. (2004). "Multifunctionality, Agricultural Policy, and Environmental Policy." *Agricultural and Resource Economics Review* 33:8-17.
- Abler, D., J. Shortle, and A. Fisher (2004). "Climate Change and Pennsylvania Agriculture." *Penn State Environmental Law Review* 12:117-125.
- Horan, R., J. Shortle, and D. Abler (2004). "The Coordination and Design of Point-Nonpoint Trading Programs and Agri-Environmental Policies." *Agricultural and Resource Economics Review* 33:61-78.
- Reilly, J., F. Tubiello, B. McCarl, D. Abler, R. Darwin, K. Fuglie, S. Hollinger, C. Izaurrealde, S. Jagtap, J. Jones, L. Mearns, D. Ojima, E. Paul, K. Paustian, S. Riha, N. Rosenberg, and C. Rosenzweig (2003). "U.S. Agriculture and Climate Change: New Results." *Climatic Change* 57:43-69.
- Reilly, J., J. Hrubovcak, J. Graham, D. Abler, R. Darwin, S. Hollinger, C. Izaurrealde, S. Jagtap, J. Jones, J. Kimble, B. McCarl, L. Mearns, D. Ojima, E. A. Paul, K. Paustian, S. Riha, N. Rosenberg, C. Rosenzweig, and F. Tubiello (2002). *Agriculture: The Potential Consequences of Climate Variability and Change for the United States*. Cambridge: Cambridge University Press.
- Abler, D., J. Shortle, J. Carmichael, and R. Horan (2002). "Climate Change, Agriculture, and Water Quality in the Chesapeake Bay Region." *Climatic Change* 55:339-359.
- Horan, R.D., J.S. Shortle, and D.G. Abler (2002). "Point-Nonpoint Nutrient Trading in the Susquehanna River Basin." *Water Resources Research* 38:1-12.
- Horan, R., J. Shortle, and D. Abler (2002). "Ambient Taxes Under m -Dimensional Choice Sets, Heterogeneous Expectations, and Risk Aversion." *Environmental and Resource Economics* 21:189-202.
- Horan, R.D., D.G. Abler, J.S. Shortle, and J. Carmichael (2002). "Cost-Effective Point-Nonpoint Trading: An Application to the Susquehanna River Basin." *Journal of the American Water Resources Association* 38:467-477.
- Shortle, J.S., and D.G. Abler, eds. (2001). *Environmental Policies for Agricultural Pollution Control*. Walingford, UK: CAB International.
- Abler, D.G., and J.S. Shortle (2001). "Agriculture." *Preparing for a Changing Climate: The Potential Consequences of Climate Variability and Change*. Ed. A. Fisher. University Park, Pennsylvania: Penn State University.
- Abler, D., J. Shortle, A. Rose, and G. Oladosu (2000). "Characterizing Regional Economic Impacts and Responses to Climate Change." *Global and Planetary Change* 25:67-81.

- Abler, D.G., and J.S. Shortle (2000). "Climate Change and Agriculture in the Mid-Atlantic Region." *Climate Research* 14:185-194.
- Horan, R.D., J.S. Shortle, and D.G. Abler (1999). "Green Payments for Nonpoint Pollution Control." *American Journal of Agricultural Economics* 81:1210-1215.
- Abler, D.G., A. G. Rodríguez, and J.S. Shortle (1999). "Parameter Uncertainty in CGE Modeling of the Environmental Impacts of Economic Policies." *Environmental and Resource Economics* 14:75-94.
- Kamat, R., A. Rose, and D. Abler (1999). "The Impact of a Carbon Tax on the Susquehanna River Basin Economy." *Energy Economics* 21:363-384.
- Shortle, J.S., D.G. Abler, and A. Fisher (1999). "Developing Socioeconomic Scenarios: Mid-Atlantic Case." *Acclimations* 7:7-8.
- Shortle, J., and D. Abler (1999). "Agriculture and the Environment." *Handbook of Environmental and Resource Economics*. Ed. J. van der Bergh. Cheltenham UK: Edward Elgar.
- Shortle, J.S., R.D. Horan, and D.G. Abler (1998). "Ambient Taxes when Polluters Have Multiple Choices." *Journal of Environmental Economics and Management* 36:186-199.
- Shortle, J.S., R.D. Horan, and D.G. Abler (1998). "Research Issues in Nonpoint Pollution Control." *Environmental and Resource Economics* 11:571-585.
- Shortle, J.S., and D.G. Abler (1997). "Nonpoint Source Pollution." *International Yearbook of Environmental and Resource Economics*. Ed. H. Folmer and T. Tietenberg. London: Edward Elgar.
- Abler, D.G. (1996). "Environmental Policies and Induced Innovation: The Case of Agriculture." *Agricultural Markets: Mechanisms, Failures, and Regulations*. Ed. D. Martimort. Amsterdam: Elsevier.
- Abler, D.G. (1996). "Environmental Policies and Induced Innovation: The Case of Agriculture." *Agricultural Markets: Mechanisms, Failures, and Regulations*. Ed. D. Martimort. Amsterdam: Elsevier.
- Abler, D.G., and W.N. Musser (1995). "The Allocation of LISA Research and Extension Funding." *Agricultural and Resource Economics Review* 24:15-24.
- Abler, D.G., and J.S. Shortle (1995). "Technology as an Agricultural Pollution Control Policy." *American Journal of Agricultural Economics* 77:20-32.
- Abler, D.G., and J.S. Shortle (1995). "The Economic Performance of Alternative Agricultural Nonpoint Pollution Controls." *Oklahoma Law Review* 48:427-447.
- Shortle, J.S., and D.G. Abler (1994). "Incentives for Nonpoint Pollution Control." *Nonpoint Source Pollution Regulation: Issues and Analysis*. Ed. C. Dosi and T. Graham-Tomasi. New York: Kluwer.

- Abler, D.G. (1992). "Issues in Pesticide Policy." *Northeastern Journal of Agricultural and Resource Economics* 21:93-95.
- Shortle, J.S., and D.G. Abler (1992). "The Political Economy of Non-Point Pollution Control Policy Design for Agriculture." *The Environment and the Management of Natural Resources*. Ed. M. Loseby. Rome: Agrifutura Editrice Snc.
- Abler, D.G., and J.S. Shortle (1991). "The Political Economy of Water Quality Protection from Agricultural Chemicals." *Northeastern Journal of Agricultural and Resource Economics* 20:53-60.
- Abler, D.G., and J.S. Shortle (1991). "Innovation and Environmental Quality: The Case of EC and US Agriculture." *Environmental Policy and the Economy*. Ed. F. J. Dietz, F. van der Ploeg, and J. van der Straaten. Amsterdam: North-Holland.
- Shortle, J.S., D.G. Abler, and J.C. Becker (1990). "The Political Economy of Groundwater Protection." *Non-Point Water Quality Concerns: Legal and Regulatory Aspects*. Ed. C. E. Bouchard. St. Joseph, MI: American Society of Agricultural Engineers.
- Abler, D.G., and J.S. Shortle (1989). "Cross Compliance and Water Quality Protection." *Journal of Soil and Water Conservation* 44:453-454.
- Economic Growth and Development***
- Chen, D., D. Abler, X. Gao, and Q. Gao (2013). "Innovation in Chinese Agribusinesses: Internal Resources and External Networks." *Journal of Agricultural Science and Technology B* 3:635-647.
- Abler, D., and D. Chen (2012). "The Role of Contracts in Managing Risk in the Fresh Food Supply Chain." *Farm Policy Journal* 9(1):53-61.
- Fleming, D., D. Abler, and S. Goetz (2010). "The Impact of Agricultural Trade on Poverty: The Case of Chile." *Agricultural Economics* 41:545-553.
- Yu, X., and D. Abler (2010). "Interactions between Cigarette and Alcohol Consumption in Rural China." *European Journal of Health Economics* 11:151-160.
- Yu, X., and D.G. Abler (2009). "The Demand for Food Quality in Rural China." *American Journal of Agricultural Economics* 91:57-69.
- Karim, I.E., and D. Abler (2009). "Sudan's Proposal to Accede to the WTO: Impacts on Agricultural Markets." *Journal of International Agricultural Trade and Development* 5:209-226.
- Abler, D.G., and V.A. Sukhatme (2006). "The 'Efficient But Poor' Hypothesis." *Review of Agricultural Economics* 28:338-343.
- Larson, J.M., S.M. Smith, and D.G. Abler (2003). "An Economic Analysis of Land Titling in Peru." *Quarterly Journal of International Agriculture* 42:79-97.

- Robles Vásquez, H., and D. Abler (2002). "Perfil Laboral y Educativo de los Niños en México, 1984-2000 [Work and Educational Profile of Children in Mexico, 1984-2000]." *Papeles de Población* 8:239-273.
- Jensen, L., D. Abler, H. Robles-Vásquez, P. Muñoz-Salazar, and D. Post (2001). "A Multivariate Model of Child Labor and School Attendance." *Children's Work, Schooling, and Welfare in Latin America*. Ed. D. Post. Boulder, CO: Westview Press.
- Larson, J.M., S.M. Smith, D.G. Abler, and C. Trivelli (2001). "Titulación de Tierras en el Perú: ¿Se Está Cumpliendo la Promesa? [Land Titling in Peru: Is It Fulfilling Its Promise?]" *Debate Agrario* 32:49-66.
- Abler, D.G., A.G. Rodríguez, and J.S. Shortle (1999). "Trade Liberalization and the Environment in Costa Rica." *Environment and Development Economics* 4:357-373.
- Abler, D.G., A.G. Rodríguez, and J.S. Shortle (1998). "Labor Force Growth and the Environment in Costa Rica." *Economic Modelling* 15:477-499.
- Abler, D.G., and J. Das (1998). "The Determinants of the Speed of Convergence: The Case of India." *Applied Economics* 30:1595-1602.
- Abler, D.G., and V.A. Sukhatme (1998). "The Determinants of Wheat and Rice Policies: A Political Economy Model for India." *Journal of Economic Development* 23:195-215.
- Gardebroek, C., D.G. Abler, and G.J. Thijssen (1998). "Technical Change Incorporated in the Profit Function: An Empirical Assessment of an Exogenous and an Endogenous Approach." *Tijdschrift voor Sociaal Wetenschappelijk Onderzoek van de Landbouw* 13:41-53.
- Sukhatme, V.A., and D.G. Abler (1997). "Economists and Food Price Policy Distortions: The Case of India." *Economic Development and Cultural Change* 46:79-96.
- Trivelli, C., and D.G. Abler (1997). "El Impacto de la Desregulación en el Mercado de Tierras en el Perú [The Impact of Land Market Deregulation in Peru]." *Perú: El Problema Agrario en Debate/SEPIA VI*. Ed. E. González de Olarte, B. Revesz, and M. Tapia. Lima: SEPIA.
- Rodríguez, A.G., D.G. Abler, and J.S. Shortle (1997). "Indicadores Ambientales en un Modelo de Equilibrio General Computable para Costa Rica [Environmental Indicators in a Computable General Equilibrium Model for Costa Rica]." *Medio Ambiente en Latinoamérica: Desafíos y Propuestas*. Ed V. Calvo, E. Figueroa, and J. R. Vargas. San José, Costa Rica: University of Costa Rica.
- Abler, D.G., and V. Sukhatme (1996). "Indian Agricultural Price Policy Revisited." *The Economics of Agriculture*, vol. 2. *Essays on Agricultural Policy in Honor of D. Gale Johnson*. Ed. J. M. Antle and D. A. Sumner. Chicago: University of Chicago Press.
- Abler, D.G., G.S. Tolley, and G.K. Kripalani (1994). *Technical Change and Income Distribution in Indian Agriculture*. Boulder, CO: Westview Press.
- Kidane, A., and D.G. Abler (1994). "Production Technologies in Ethiopian Agriculture." *Agricultural Economics* 10:179-191.

Abler, D.G., G. Rauniyar, and F.M. Goode (1992). "Field Trials as an Extension Technique: The Case of Swaziland." *Northeastern Journal of Agricultural and Resource Economics* 21:30-35.

Abler, D.G. (1991). "Differential Returns to Labor in Indian Agriculture." *Northeastern Journal of Agricultural and Resource Economics* 20:24-32.

Funded Grants and Contracts

Global Food and Agricultural Markets

Co-PI, *Manurefest Destiny: Opportunities for Animal Agriculture in Western Pennsylvania*. Pennsylvania Department of Agriculture, 1/10/2017-12/31/2017, \$145,000.

Co-PI, *Nontariff Measures in Food and Agricultural Trade*. Farm Foundation, 7/1/2010-6/30/2011, \$10,000.

Co-PI, *Agricultural Trade Policy Modeling*. US Department of Agriculture, Economic Research Service, 10/1/2004-11/30/2007, \$42,000.

Co-PI, *Agtrade.org: A Website on Current Issues and Policies in International Agricultural Trade*. US Department of Agriculture, Economic Research Service, 9/30/2003-9/30/2004, \$8,000.

Co-PI, *Agtrade.org: A Website on Current Issues and Policies in International Agricultural Trade*. Farm Foundation, 1/1/2003-12/31/2003, \$15,000.

Co-PI, *Quantitative Models for the Analysis of Agricultural Trade Liberalization under the World Trade Organization (WTO)*. US Department of Agriculture, Economic Research Service, 10/1/1998-9/30/2003, \$254,000.

Co-PI, *International Marketing of Pennsylvania Food and Livestock Products*. Pennsylvania Department of Agriculture, 1/1/1999-12/31/2001, \$219,000.

PI, *Agriculture and the Environment in Developing Countries: Impacts of Free Trade*. US Department of Agriculture, Economic Research Service, 8/27/1991-3/31/1993, \$12,000.

Environment and Natural Resources

PI, *Thriving Agricultural Systems in Urbanized Landscapes*. US Department of Agriculture, National Institute of Food and Agriculture, 9/1/2019-8/31/2024, \$8,975,000.

Co-PI, *Pennsylvania 2019 Climate Change Impact Assessment*. Pennsylvania Department of Environmental Protection, 2/1/2019-9/30/2019, \$134,000.

Co-PI, *Pennsylvania Climate Impacts Assessment 2014*. Pennsylvania Department of Environmental Protection, 7/1/2014-6/30/2015, \$98,000.

Co-PI, *Implications of Lags in Pollution Delivery Efficient Agricultural Waste Load Allocations and the Design of Water Quality Trading Programs*. US Department of Agriculture, 9/30/2013-9/30/2014, \$151,000.

- Co-PI, *Building Capacity to Analyze the Economic Impacts of Nutrient Trading and other Policy Approaches for Reducing Agriculture's Nutrient Discharge into the Chesapeake Bay Watershed*. US Department of Agriculture, 9/30/2011- 9/30/2013, \$350,000.
- Co-PI, *Pennsylvania Climate Impact Assessment Update*. Pennsylvania Department of Environmental Protection, 9/19/2011-3/31/2012, \$99,000.
- Investigator, *A Regional Approach to Climate Change Planning for Dairy and Beef Production Systems*. US Department of Agriculture, National Institute of Food and Agriculture, 9/1/2010-8/31/2011, \$50,000.
- Investigator, *Energy Sector Planning and Analysis*. US Department of Energy, 11/15/2009-10/31/2012, \$3,000,000.
- Co-PI, *Pennsylvania Climate Impact Assessment*. Pennsylvania Department of Environmental Protection, 1/1/2009-12/31/2009, \$193,000.
- Co-PI, *Consortium for Atlantic Regional Assessment*. US Environmental Protection Agency, 10/1/2002-12/31/2006, \$2,225,000.
- Co-PI, *NAREA Workshop on Trade and the Environment*. US Environmental Protection Agency, 5/1/2004-7/29/2006, \$20,000.
- Co-PI, *Agricultural Nonpoint Pollution Control: Environmental Policy Options and the Value of Information*. US Department of Agriculture, Economic Research Service, 7/22/1998-6/30/2000, \$62,000.
- Co-PI, *Mid-Atlantic Regional Assessment*. US Environmental Protection Agency, 5/15/1998-5/14/2000, \$947,000.
- Co-PI, *Climate Change, Agriculture, and the Environment*. University Corporation for Atmospheric Research, 8/1/1999-12/31/1999, \$30,000.
- Co-PI, *Methods for Integrated Regional Assessment*. National Science Foundation, 11/1/1995-10/31/1999, \$1,625,000.
- PI, *The Environmental Impacts of Agricultural Policies: An International Comparison*. US Department of Agriculture, Economic Research Service, 6/1/1994-6/30/1996, \$29,000.
- Co-PI, *Public Policies to Facilitate Sustained Economic Growth with Protection of Natural Resources and the Environment in Costa Rica*. Resources for the Future, 7/1/1992-6/30/1994, \$19,000.
- Co-PI, *Water Quality and Induced Agricultural Research*. US. Department of Agriculture, Economic Research Service, 1/1/1991-6/30/1993, \$13,000.

Economic Growth and Development

Investigator, *Population Research Center Core Grant*. National Institute of Child Health and Human Development, 7/1/2006-5/31/2011, \$3,224,000.

Investigator, *Training and Research in International Populations*. Hewlett Foundation, 9/1/2002-7/31/2005, \$423,000.

Investigator, *Population Research Center Core Grant*. National Institute of Child Health and Human Development, 7/5/2001-6/30/2006, \$3,003,000.

Investigator, *Training and Research in International Demography*. Hewlett Foundation, 7/1/1993-6/30/2002, \$1,100,000.

Investigator, *Population Research Center Core Grant*. National Institute of Child Health and Human Development, 8/1/1991-6/30/2001, \$4,506,000.

Co-PI, *Land Titling in Peru: Is It Fulfilling Its Promise?* Tinker Foundation, 8/1/1998-7/31/2000, \$54,000.

Co-PI, *Developing a Community and Water Resource Interactions Perspective for Kathmandu University's Planned Human and Natural Resource Studies Center*. Ford Foundation, 7/1/1998-6/30/2000, \$60,000.

Co-PI, *Family Welfare and Children's Schooling: An International Comparison*. Ford Foundation, 1/1/1995-6/30/2000, \$336,000.

Co-PI, *Family Welfare and Children's Schooling: An International Comparison*. Spencer Foundation, 1/1/1995-6/30/1999, \$269,000.

PI, *A Strengthening Grant Proposal for Travel to India*, 5/1/1990-5/30/1990. US Agency for International Development, \$3,000.

PI, *A Strengthening Grant Proposal for Travel to India*, 3/1/1988-3/31/1988. US Agency for International Development, \$4,000.

Courses Taught (Penn State University)

2014-Present EEFE 512/AEREC 597, *Applied Microeconomic Theory* (taught annually)

2002-2019 AGBM 338, *Agribusiness in the Global Economy* (taught annually)

1988-2016 AEREC/AG EC 550, *International Economic Development and Agriculture* (generally taught every other year)

1991-2015 CED/AG EC 450, *International Development, Renewable Resources, and the Environment* (taught annually)

2011 BIOL 497, *Global Environmental Sustainability* (co-instructor)

2005-2006	AEREC 597, <i>Applied Microeconomic Theory</i> (taught annually)
1993-1995	AG EC 590, <i>Colloquium</i> (taught annually)
1992	AG EC 350, <i>International Agricultural Trade</i>
1988-1990	INTAG 100, <i>Introduction to International Agriculture</i> (taught annually)

Selected Professional Service

Service to Penn State

2017-Present	Member (ex officio), Faculty Advisory Committee to Department Head, Department of Agricultural Economics, Sociology, and Education
2015-Present	Agribusiness Management Program Coordinator and Chair, Agribusiness Management Program Committee
2018-2019	Chair, Search Committee, Assistant Professor Positions in Food, Health and Agricultural Policy, and in Food and Behavioral Economics
2015-2018	Member, Development & Alumni Relations Committee, Department of Agricultural Economics, Sociology, and Education
1990-2014	Member, AEREC/Agricultural Economics Graduate Program Committee (Committee Chair, 1992-1996 and 1999-2005)
2003-2004	Member, Agricultural Economics and Rural Sociology Department Head Search Committee
1999-2005	Graduate Officer, AEREC/Agricultural Economics Graduate Program
1999-2002	Member, P&T Committee, Department of Energy, Environmental and Mineral Economics
1999-2000	Member, Consumer Economics Assistant Professor Search Committee, Department of Agricultural Economics and Rural Sociology
1997-1998	Member, Agricultural Economics and Rural Sociology Department Head Search Committee
1994-1995	Member, Promotion Committee, Population Research Institute
1992-1996	Graduate Officer, Agricultural Economics Graduate Program

Service to the Profession

- 2019-2022 President-Elect (2019-2020), President (2020-2021), and Past-President (2021-2022), Northeastern Agricultural and Resource Economics Association
- 2020-2021 Guest Editor, Special Issue on Sustainable Food Products Consumption in China, *Sustainability*
- 2015-2018 Editor, *Agricultural and Resource Economics Review*
- 2015-2017 Guest Editor, Special Issue on Sustainable Food Consumption in China, *China Economic Review*
- 2013-2016 Member, T.W. Schultz Lecture Committee, Agricultural & Applied Economics Association (Committee Chair, 2015-2016)
- 2012-2015 Member, Nominating Committee, Agricultural & Applied Economics Association
- 2011-2014 Chair-Elect (2011-2012), Chair (2012-2013), and Past Chair (2013-2014), China Section, Agricultural & Applied Economics Association
- 2006-2010 Mentor, Hewlett Foundation/International Agricultural Trade Research Consortium Capacity Building Program in Agricultural Trade Policy
- 2006 Guest Editor, Special Issue on Modeling Global Food and Agricultural Markets, *Journal of International Agricultural Trade and Development*
- 2005-2006 Organizer, Invited Paper Session in Memory of Nobel Laureate T.W. Schultz, Agricultural & Applied Economics Association
- 1995-1999 Vice-President (1995-1996) and President (1996-1999), Penn State Chapter of Sigma Xi (The Scientific Research Society)
- 1994-1996 Associate Editor, *Agricultural and Resource Economics Review*

Honors and Awards

- 2017 Fellow, *Agricultural and Resource Economics Review*
- 2017 Best Article of Year Award, *Agricultural and Resource Economics Review*
- 2005 Best Article of Year Award, *Agricultural and Resource Economics Review*
- 2003 Outstanding Research Award, Gamma Sigma Delta (Honor Society for Agriculture)
- 1985-1986 Olin Research Fellowship, University of Chicago
- 1982-1985 Prince Research Fellowship, University of Chicago

- 1982 H. B. Earhart Fellowship, University of Chicago
- 1982 Phi Beta Kappa
- 1982 Magna Cum Laude and Highest Honors, Macalester College