

CURRICULUM VITAE

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Education

B.S. Mathematical Sciences Ohio State University, 1977
M.S. Operations Research Stanford University, 1979
Ph.D. Operations Research Stanford University, 1983
Thesis Title: Intertemporal Equilibrium Models, Development and Results

Employment

2/07- Faculty Director, State Utility Forecasting Group, Energy Center, Discovery Park,
Purdue University.

5/02- Associate Department Head, Department of Agricultural Economics, Purdue
1/07 University.

6/94- Professor, Department of Agricultural Economics, Purdue University.

6/89- Associate Professor, Department of Agricultural Economics, Purdue University.
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8/83- Assistant Professor, Department of Agricultural Economics, Purdue University.
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3/78- Research Assistant, Department of Operations Research, Stanford University.
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3/79- Teaching Assistant, Department of Operations Research, Stanford University.
6/81

Professional Development

2002 Pennsylvania State University Executive Leadership and Management Program, October 15-
18, Williamsport, Pennsylvania.

2004 ESCOP/ACOP Leadership Development Program, Class 14.

Refereed Journal Articles

Manne, A.S. and P.V. Preckel, 1985. "A Three-Region Intertemporal Model of Energy, International Trade and Capital Flows," Mathematical Programming Studies, 23:56-74.

Preckel, P.V., 1985. "Alternative Algorithms for Computing Economic Equilibria," Mathematical Programming Studies, 23:163-172.

Kaylen, M.S., P.V. Preckel, and E.T. Loehman, 1987. "Risk Modeling via Direct Utility Maximization Using Numerical Quadrature," American Journal of Agricultural Economics, 69(3):701-706.

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Nelson, C.H. and P.V. Preckel, 1989. "The Conditional Beta Distribution as a Stochastic Production Function," American Journal of Agricultural Economics, 71(2):370-378.

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Hertel, T.W., P.V. Preckel, and W. Huang, 1989. "The CARD Linear Programming Model of U.S. Agriculture," Agricultural Economics Research, 41(2):20-23.

Ehui, S.K., T.W. Hertel, and P.V. Preckel, 1990. "Forest Resource Depletion Soil Dynamics and Agricultural Productivity in the Tropics," Journal of Environmental Economics and Management, 18(2):136-154.

Krause, M.A., R.R. Deuson, T.G. Baker, P.V. Preckel, J. Lowenberg-Deboer, C. Reddy and K. Maliki, 1990. "Risk Sharing versus Low Cost Credit Systems for International Development," American Journal of Agricultural Economics, 72(4):911-922.

Featherstone, A.M., P.V. Preckel and T.G. Baker, 1990. "Modeling Farm Financial Decisions in a Dynamic and Stochastic Environment," Agricultural Finance Review 50:80-99.

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Preckel, P.V., M. Verma, T.W. Hertel and W. Martin, 2011. "Systematic Sensitivity Analysis for GTAP – Where We've Been and Where We're Going," presented at GTAP conference in Venice, Italy, June 16-18.

Verma, M., P.V. Preckel, T.W. Hertel and W. Martin, 2011. "Implications of Broader Sampling Strategy in the Context of the Special Safeguard Mechanism" presented at GTAP conference in Venice, Italy, June 16-18.

Preckel, P.V. and D.J. Gotham, "History and Activities of Indiana's State Utility Forecasting Group," invited presentation to members of Senator Coates staff, Energy Center, Discovery Park, Purdue University, July 6, 2011.

Preckel, P.V., "Professional Presentation Skills," presented to the Graduate Student Organization of the Department of Agricultural Economics, Purdue University, West Lafayette, Indiana, July 24, 2011.

Preckel, P.V., "Professional Presentation Skills," presented at the Early Career Development Workshop of the Northeast Agricultural and Resource Economics Association, Pittsburgh, Pennsylvania, July 24, 2011.

Presentations at Meetings of Professional Societies, Other Universities and Research Organizations

Preckel, P.V., "Intertemporal Competitive Equilibrium Models," invited lecture for the Department of Industrial Engineering, University of Toronto, Toronto, Canada, September 23, 1982.

Preckel, P.V. and A.S. Manne, "A Three-Region Intertemporal Model of Energy, International Trade and Capital Flows," paper presented at the National Bureau of Economic Research Workshop on Applied General Equilibrium Analysis, Stanford University, January 1983.

Preckel, P.V., "Intertemporal Computable Equilibrium Models: Alternative Solution Strategies," paper presented at the annual meetings of the Operations Research Society of America, Chicago, Illinois, April 25, 1983.

Preckel, P.V., served as discussant for a paper entitled "Computation of Economic Equilibria by a Sequence of Linear Complementarity Problems," by Lars Mathiesen presented at "The Workshop on the Application and Solution of Economic Equilibrium Models," in the Koret Conference Series sponsored by the Stanford Center for Economic Policy Research, Stanford, CA, June 26, 1984.

Preckel, P.V., "A Comparison of Algorithms for Solving General Equilibrium Models," paper presented at "The Workshop on the Application and Solution of Economic Equilibrium Models," in the Koret Conference Series sponsored by the Stanford Center for Economic Policy Research, Stanford, CA, June 26, 1984.

Preckel, P.V. and T.W. Hertel, "Linear Program Summary Functions," paper presented at a seminar for the Economic Research Service of the U.S. Department of Agriculture (ERS-USDA), Washington, DC, April 22, 1985.

Preckel, P.V. and T.W. Hertel, "Applications of Summary Functions in Natural Resource Policy Analysis," paper presented at a seminar for the ERS-USDA, Washington, DC, October 7, 1985.

Preckel, P.V., "Piecewise Linear Summary Functions," paper presented at a seminar at Argonne National Laboratories, Chicago, IL, August 8, 1986.

Preckel, P.V., "A Modified Newton Method for the Nonlinear Complementarity Problem," paper presented at the annual meetings of the Operations Research Society of America, Miami, Florida, October 28, 1986.

Preckel, P.V. and T.W. Hertel, "The Conservation Reserve Program: A Summary Function Analysis," paper presented at a seminar for the ERS-USDA, Washington, DC, October 6, 1986.

Hertel, T.W. and P.V. Preckel, "Commodity Price Effects of the Conservation Reserve Program," paper presented at the NCR-111 Committee Meeting on the Conservation Title of the 1985 Farm Bill, St Louis, Missouri, June 9, 1987.

Baker, T.G., P.V. Preckel and A.M. Featherstone, "Incorporating Liquidity into the Financial Modeling of the Farm Firm," paper presented at the 1988 annual meetings of the Society for Economic Dynamics and Optimal Control, March 9-11, 1988, Tempe, Arizona.

Moskowitz, H., P.V. Preckel and A. Yang, "Robust Interactive Decision Analysis," presented at the Workshop on Bayesian Robustness sponsored by the Center for Statistical Decision Sciences, Department of Statistics, Purdue University West Lafayette, Indiana, March 11, 1989.

Sparrow, T.T., R. Cearley, O.C. Doering, F. Holland, L. McKinzie, P.V. Preckel, "Assessing Industrial Electrification and Economic Development Pricing Initiatives in the Context of Demand-Side Management Concerned," paper presented at the Conference on Demand Side Management Strategies for the 80's, The Fourth National Conference on Utilities Demand Side Management, Cincinnati, Ohio, May 2-4, 1989.

Preckel, P.V., "Equity and Efficiency Issues Involved in Incentive/Promotional Rates," paper presented at the Iron and Steel Industry Workshop on Electricity Consumption Workshop sponsored by the Indiana State Utilities Forecasting Group and the National Science Foundation, West Lafayette, Indiana, March 31, 1989.

Hertel, T.H., P.V. Preckel and M. Tsigas, "Decoupling the U.S. Grains Programs," paper presented at a seminar for the ERS-USDA, Washington, D.C., May 11, 1989.

Preckel, P.V., "B-2001: A Model for Designing Conservation-Oriented, Sustainable Farm Plans," presented to a representative of the USDA Extension Service and a Midwest committee of interested extension specialists, Purdue University, West Lafayette, Indiana, September 12, 1990.

Doster, D.H., C.L. Dobbins, P.V. Preckel, Y. Han, and S.D. Parsons, "Can You Find a Better Machinery Size?" presented at the 1990 International Winter Meeting of the American Society of Agricultural Engineers, Chicago, Illinois, December 19, 1990.

Moskowitz, H., P.V. Preckel, and A. Yang, "Decision Analysis with Incomplete Probability and Utility Information," presented by invitation at the Spring joint national meetings of the Institute for Management Sciences and the Operations Research Society of America, Nashville, Tennessee, May 15, 1991.

Peterson, E.B., P.V. Preckel, T.W. Hertel, and A.M. McGuirk, "Impacts of Biotechnology in the Domestic Livestock Sector," presented at the annual meetings of the Western Regional Coordinating Committee No. 72 on Agribusiness Research Emphasizing Competitiveness, Las Vegas, Nevada, June 11, 1991.

Preckel, P.V., "Research Methodologies That Work!," presented at the annual meetings of the Western Regional Coordinating Committee No. 72 on Agribusiness Research Emphasizing Competitiveness, Las Vegas, Nevada, June 11, 1991.

Martin, M.A., P.V. Preckel and A. Schinckel, "The Economics of Ractopamine," presented at Elanco Corporate Headquarters, Indianapolis, Indiana, July 25, 1991.

Preckel, P.V., "How Robust Are Model Results?," presented in a seminar to the Faculty of the Department of Agricultural Economics at Ohio State University, Columbus, Ohio, November 18, 1994.

Mwanaumo, A., W. Masters and Preckel, P.V., "Spatial Analysis of Maize Market Policy Reforms in Zambia," presented at "Symposium on Markets in Sub-Saharan Africa," Stanford University, Palo Alto, California, March 29-31, 1996.

DeVuyst, E., S. Liu and Preckel, P.V., "GE Sensitivity Analysis: Relations to Integration," presented at the 1996 GTAP Alumni Workshop, June 4, 1996.

Senatre, B.A., P.V. Preckel, and B. Stoneman, "Soil Selection for Use in EPIC Analysis," presented at the Fifty-first Annual Conference of the Soil and Water Conservation Society, Keystone, Colorado, July 7-10, 1996.

Preckel, P.V., "Gaussian Quadrature: What's Old, What's New, and What It's Good For," seminar presented to the faculty of Agricultural Economics at University of California at Davis, Davis, California, November 1, 1996.

Preckel, P.V., "Gaussian Quadrature: What's Old, What's New, and What It's Good For," seminar presented to the faculty of Agricultural Economics at University of Nevada at Reno, Reno, Nevada, November 4, 1996.

Preckel, P.V., "Sampling with Gaussian Quadrature," seminar presented to the staff of the Farm Business Economics Branch of the Rural Economics Division of the Economic Research Service of the United States Department of Agriculture, Washington, D.C., February 19, 1997.

Preckel, P.V., "Sampling with Gaussian Quadrature," seminar presented to the staff of the Natural Resource Conservation Service of the United States Department of Agriculture, Washington, D.C., February 20, 1997.

Preckel, P.V., and T.G. Baker, "Seed Corn Tournament Contracts: It's Not Easy Being Green," seminar presented to the faculty of the Department of Agricultural and Consumer Economics, University of Illinois, Champaign-Urbana, Illinois, March 12, 1997.

Preckel, P.V., "Least Squares and Entropy: A Mathematical Programming Perspective," paper presented to the faculty of the Department of Agricultural Economics, West Virginia University, Morgantown, West Virginia, August 10, 1999.

Edwards, C.R., J. Hyde, M.A. Martin, P.V. Preckel, and C.L. Dobbins, "Building an Economic Refuge: Profitably Extending the Life of Bt Corn," invited paper presented to the XX International Working Group on Ostrinia (IWGO) Conference, Adana, Turkey, September 4-10, 1999.

Preckel, P.V., M.M. Ahmed, and S. Ehui, "Non-parametric Cross-sectional Measurement of Risk Aversion," paper presented at the annual meetings of the American Agricultural Economics Association, Tampa, Florida, August 2, 2000.

Hertel, T.W., P.V. Preckel, and J.A.L. Cranfield, "Multilateral Trade Liberalization and Poverty Reduction," paper presented by invitation at a conference sponsored by GLOBCOM and the International Bank for Reconstruction and Development, Stockholm, Sweden, October 20, 2000.

Preckel, P.V., "Entropy Econometrics and Penalty Functions: Connections with Least Squares," paper presented by invitation to the faculty in the Department of Agricultural Economics at Kansas State University, Manhattan, Kansas, November 16, 2000.

Ahmed, M.M., P.V. Preckel, and S. Ehui, "Household Modeling for Subsistence Farms: The Holetta in Ethiopia," paper presented at a workshop sponsored by the International Food Policy Research Institute and International Livestock Research Institute in Addis Ababa, Ethiopia, January 23, 2001.

Hertel, T.W. and P.V. Preckel, "Poverty Impacts of Multilateral Trade Liberalization," presented by invitation at the Centre d'Etudes Prospectives et d'Informations Internationales/Inter-American Development Bank jointly sponsored Conference on Impacts of Trade Liberalization Agreements on Latin America and the Caribbean, November 5-6, 2001.

Dooley, F. and P.V. Preckel, "The Changing Face of Agriculture: Opportunities for the Application of Operations Research Methods," presented by invitation at the National Meetings of INFORMS, Miami, Florida, November 4-7, 2001.

Eskigun, E., R. Uzsoy, J.D. Tew, and P.V. Preckel, "General Motors Outbound Supply Chain Network Design," presented at the National Meetings of INFORMS, Miami, Florida, November 4-7, 2001.

Hertel, T.W., M. Ivanic, P.V. Preckel, and J.A.L. Cranfield, "Trade Liberalization and the Structure of Poverty in Developing Countries," presented at the Conference on Globalization, Agricultural Development and Rural Livelihoods, Cornell University, Ithaca, New York, April 11-12, 2003.

Poray, M., A.W. Gray, M. Boehlje, and P.V. Preckel, "Evaluating Alternative Coordination Systems in the Pork Industry," selected paper presented at the International Agribusiness Management Association Meetings, Cancun, Mexico, June 2003.

Nilsson, T., P. V. Preckel, B. Ohlmer and H. Andersson. "Revisiting the Role of Common Labeling in a Context of Asymmetric Information: Critique and Extensions," European Regional Science Association 2003 Congress, University of Jyväskylä, Finland, August 30, 2003.

Hertel, T.W., M. Ivanic, P.V. Preckel and J.A.L. Cranfield, "Multilateral Trade Liberalization and Poverty." Workshop on Agricultural Trade Liberalization and the Poor, Resources for the Future, Washington, D.C., November 2003.

Hertel, T.W., M. Ivanic, P.V. Preckel and J.A.L. Cranfield, "Short- vs. Long-run Impacts of Trade Liberalization on Poverty," OECD Global Agricultural Forum. Paris, France, December 2003.

Hertel, T.W., M. Ivanic, P.V. Preckel and J.A.L. Cranfield, "Quantifying the Impact of Rich Countries' Policies on Poor Countries. *Institute for International Economics*. Institute for International Economics. Washington, D.C., November 2003.

Hertel, T.W., M. Ivanic, P.V. Preckel and J.A.L. Cranfield, "Multilateral Trade Liberalization and Poverty in Indonesia," International Scientific Conference in Celebration of Jan Tinbergen, the first Nobel Laureate in Economics, The Tinbergen Institute, Erasmus University, Rotterdam, The Netherlands, December 2003.

Preckel, P.V., M.D. Boehlje, A.W. Gray, and S. Kim, "Risk and Value Chains: Participant Sharing of Risk and Rewards," presented at the 6th International Conference on Chain and Network Management in Agribusiness and the Food Industry, in Wageningen, The Netherlands, May 2004.

Preckel, P.V., "Teaching Tips," invited presentation at annual meetings of the American Agricultural Economics Association in Denver, Colorado, August 1-4, 2004.

Preckel, P.V., M.D. Boehlje, A.W. Gray, and S. Kim, "Vertically Aligned vs. Open Market Coordination: Dominance or Coexistence," selected paper presented at annual meetings of the American Agricultural Economics Association in Denver, Colorado, August 1-4, 2004.

Tanner, M., P.V. Preckel, and E.B. Peterson, "Consumers' Demand for Meat Before and After Fat Content Education," poster presented at annual meetings of the American Agricultural Economics Association in Denver, Colorado, August 1-4, 2004.

Schinckel, A. P., N. Li., P. Preckel, K. Foster, and B. Richert, "Using a Stochastic Model to Evaluate Swine Management with Paylean," 5th London Swine Conference. London, Ontario. April 6-7, 2005.

Cranfield, J.A.L., P.V. Preckel, and T.W. Hertel. "A Modified Implicit, Directly Additive Demand System" paper presented at the annual meetings of the Canadian Economics Association, Hamilton, Ontario, May 2005.

Ahmed M.M., P.V. Preckel, and S. Ehui, 2006. "Modeling the Impact of Credit on Intensification in Mixed Crop-livestock Systems: A case study from Ethiopia," presented at the International Association of Agricultural Economists meetings in Queensland, Australia, August 2006.

Yu, Z., A. Tuzuner, and P.V. Preckel, 2007. "The U.S. Coal to Clean Transportation Fuels Options: A Game Theory Assessment," presented at the Energy and Transportation Panel Meeting, Detroit, MI, April 25-26.

Ahmed, A., and P.V. Preckel, 2007. "RAS and Entropy in Updating I/O Tables – A Time Series Analysis," presented at the annual meetings of the American Agricultural Economics Association, Portland, Oregon, July.

Akiner Tuzuner, A., P.V. Preckel, Z. Yu, and T. Morin, 2007. "A Continuous-Time Stochastic Equilibrium Model of the Extended Crude Oil Market," presented at the INFORMS Midwest Regional Conference, Evanston, IL, August 24-26.

Cranfield, J.A.L., T.W. Hertel, and P.V. Preckel, 2007. "Poverty Analysis Using International Cross-Country Demand System," presented at the Tenth Annual Conference on Global Economic Analysis, GTAP, Purdue University, West Lafayette, June 7-9.

Preckel, P.V., Cranfield, J.A.L., and T.W. Hertel, 2007. "A Modified Implicit Directly Additive Demand System," presented at the Tenth Annual Conference on Global Economic Analysis, GTAP, Purdue University, West Lafayette, June 7-9.

Hertel, T.W., Cranfield, J.A.L., and P.V. Preckel, 2007. "Global Nutrition Impacts of Rapid Economic Growth in China and India," presented at the Tenth Annual Conference on Global Economic Analysis, GTAP, Purdue University, West Lafayette, June 7-9.

Preckel, P.V., Z. Yu and F.T. Sparrow, 2007. "Market Power in Electricity," presented to staff at Argonne National Laboratories, Argonne, IL, September 28, 2007.

Sparrow, F.T., P.V. Preckel and Z. Yu, 2007. "Stochastic Hydrothermal Scheduling with 'Run-of-River' Requirements," presented to staff at Argonne National Laboratories, Argonne, IL, September 28, 2007.

Bista, B., T. Hubbs, B.T. Richert, W.E. Tyner and P.V. Preckel, 2008. "Economic Value of Ethanol Co-Products in Swine Diets: Evaluating Profitability of Corn Fractionation Techniques," presented at the Transition to a Bio-economy: Integration of Agricultural and Energy Systems conference sponsored by the Farm Foundation and U.S. Department of Agriculture, Atlanta Georgia, February 12-13.

Yu, Z., P.V. Preckel, M. Irwin, and B.H. Bowen, 2008. "An Enhanced Model of Capacity Expansion with CO2 Cap-and-Trade and EOR CO2 Re-emergence," presented at the IEEE Power Energy Systems General Meeting, Pittsburgh, Pennsylvania, July 20-24.

Preckel, P.V., F.T. Sparrow, B.H. Bowen, Z. Yu, D.J. Gotham, and R.Z. Yang, 2008. "Preserving Low Cost Electricity While Improving the Riverine Environment: A Case Study of Ghana's Akosombo Dam Complex," presented at the IEEE Power Energy Systems General Meeting, Pittsburgh, Pennsylvania, July 20-24.

Hubbs, T., P.V. Preckel, A.P. Schinckel, J. Deen, K.A. Foster, S.E. Curtis and E.W. Johnson, 2008. "The New Economics of Livestock Production Management," selected paper presented at annual meetings of the American Agricultural Economics Association in Orlando, Florida, July 27-29, 2008.

Yigezu, Y. A., C.E. Alexander and P.V. Preckel, 2008. "Optimal Management of Molds in Stored Corn," selected paper presented in a poster session at the annual meetings of the American Agricultural Economics Association in Orlando, Florida, July 27-29.

http://agecon.lib.umn.edu/cgi-bin/pdf_view.pl?paperid=30243&ftype=.pdf.

Lu, L., D. Gotham, and P.V. Preckel, 2009. "Assessment of the Reliability of Indiana's Electricity Generation System," poster presented at the Snyder lecture poster competition March.

Lu, L., D. Gotham, and P.V. Preckel, 2009. "Assessment of the Reliability of Indiana's Electricity Generation System," poster presented at the North American Power Symposium, Mississippi State University, October.

Ruangpattana, S., P.V. Preckel, D. Gotham, K. Muthuraman, N. Uhan, T. Morin, 2009. "Optimal Division of the Load Duration Curve for Managing Fuel Diversification," paper presented at the Modeling and Optimization: Theory and Applications conference, Lehigh University, August.

Canchi, D.R., P.V. Preckel, D. Gotham, and F.T. Sparrow, 2009. "Easy Money in Auctions for Financial Transmission Rights," paper presented to Indiana Utility Regulatory Commission Staff and the Pennsylvania, Jersey, Maryland Independent Systems Operator Market Monitor, Indianapolis, Indiana, December.

Ruangpattana, S., P.V. Preckel, D. Gotham, K. Muthuraman, T. Morin, and N. Uhan, "Load Factor Analysis for Fuel Diversification: A Study for the State of Indiana," *2010 INFORMS Conference on O.R. Practice*, April 18-20, 2010, Orlando, FL.

Preckel, P.V., 2010. "Wind Energy: An Indiana Perspective," presented at an Interdisciplinary Workshop on Wind Energy Research in Indiana, April 29-30, Indiana University, Bloomington.

Canchi, D., P.V. Preckel, D.J. Gotham, and F.T. Sparrow, "Estimating the Inefficiency in Auctions for Congestion Contracts," poster presented at the annual meeting of the Agricultural and Applied Economics Association, July 25-27, 2010, Denver, CO.

Honors

Stanford Graduate Engineering Fellowship, 1977.

Award of Merit presented to Co-Major Professors (with Dr. E. Loehman) of Dr. Charles Nelson who received the award for Best Ph.D. Dissertation in the Department of Agricultural Economics at Purdue University, 1986.

Co-Major Professor (with Dr. L. Schrader) for Dr. Keith Menzie who received the Edwin G. Nourse Award from the American Institute of Cooperation for the best Ph.D. Dissertation on Cooperatives, 1987.

Award of Merit presented to Major Professor of Dr. Eric DeVuyst who received the award for Best Ph.D. Dissertation in the Department of Agricultural Economics at Purdue University, 1993.

Award of Merit presented to Co-Major Professors (with Dr. J. Eales) of Ms. Alice Harmon who received the award for Best M.S. Dissertation in the Department of Agricultural Economics at Purdue University, 1998.

Honorable Mention presented to advisee Ms. Alice Harmon (with Co-Major Professor Dr. J. Eales) in the Best M.S. Dissertation for 1998 by the American Agricultural Economics Association at the Associations Annual Meeting in Nashville, Tennessee, August 1998.

Award of Merit presented to Major Professor of Dr. John A.L. Cranfield who received the award for Best Ph.D. Dissertation in the Department of Agricultural Economics at Purdue University, 1999.

Major Professor of Dr. John A.L. Cranfield who received the Award for Best Ph.D. Dissertation for 1999 by the American Agricultural Economics Association at the Associations Annual Meeting in Tampa, Florida, August 2000.

Neville Clarke Award for Outstanding Teamwork received as a member of the team for the joint International Livestock Research Institute/International Food Policy Research Institute Project "Policies for Sustainable Land Management in the Highlands of East Africa," 2001.

Award of Merit for Graduate Teaching, Gamma Sigma Delta, Purdue Chapter, 2003.

Outstanding Graduate Educator, Department of Agricultural Economics, Purdue University, 2003.

Distinguished Teaching: Outstanding Graduate Teaching More than Ten Years, American Agricultural Economics Association, 2003.

2007 Seeds for Success Award, Purdue University.

2008 Millionaires' Club Member, College of Agriculture, Purdue University.

2009 Dean's Team Award for service as Agricultural Economics Coordinator for the DDGS Research Project, College of Agriculture, Purdue University.

2010 Millionaires' Club Member, College of Agriculture, Purdue University.

Award of Merit presented to Major Professor of Samuel V. Brown who received the award for Outstanding M.S. Thesis in the Department of Agricultural Economics at Purdue University, 2010.

Research Grants Received

1984 "Development and Application of Summary Functions," \$49,000 USDA/ERS

1988 "Environmental Impacts of the Introduction of Bovine Somatotropin," \$37,000 Monsanto Corporation

1988 "Optimization of Swine Production Systems," \$35,000 Purdue Agricultural Experiment Station

1988 "Budgeting Hog Enterprises with Price Risk Analysis," \$3,500 Purdue Agricultural Experiment Station

1988 "Budgeting Feeder Cattle Enterprises with Price Risk," \$1,200 Indiana Beef Cattle Association

1990 "Introduction of BST: Environmental Effects," \$4,260 Monsanto Corporation

- 1990 “The Optimal Location of a P.E.T. Plastic Food Container Plant in the Eastern U.S.,” \$2,800 Indiana Value Added Research Center
- 1991 “Economic Analysis of TOBEC in a Pork Packing Plant,” \$13,951 National Pork Producers Council
- 1992 “Determining Producer Profit Maximizing Slaughter Weights for Three Swine Genotypes under Alternative Pricing Systems,” \$3,000 Indiana Pork Producers Association
- 1993 “Farm Policy in the Post-1995 Period: An Integrated Micro/Macro Approach,” \$19,800 Purdue Research Foundation
- 1994 “Pig 1.0 an Undergraduate Teaching Tool,” \$5,000 Purdue University
- 1994 “Evaluation of Conservation Technical Assistance and Watersheds Programs,” \$36,000 USDA/SCS. Renewed 10/95 for \$69,000. Renewed 10/95 for \$64,000. Renewed 10/96 for \$29,000
- 1996 “Analysis of Phytase Adoption by Pork Producers,” \$5,000 Indiana Pork Producers Association
- 1996 Purdue Research Foundation International Travel Grant, \$1,000, Purdue Research Foundation
- 1996 “Valuing Financial Derivatives: Key to the Future of World Financial Markets,” \$22,080, Purdue Research Foundation
- 1996 “Using Gaussian Quadrature for Selecting a Sample of Representative Farms,” \$5,000, United States Department of Agriculture, Economic Research Service
- 1997 “Global Food Demand in the Year 2020: Implications for U.S. Exports,” \$119,305, United States Department of Agriculture, National Research Initiative Competitive Grants Program
- 1998 “Analysis of the Consequences of Alternative Structural Arrangements on the Agricultural Sector,” \$26,000, United States Department of Agriculture, Economic Research Service, Cooperative Agreement
- 1998 “Economic Impact of Proposed Manure Management Guidelines on Indiana Swine Farms,” \$15,300, Purdue Cooperative Extension Service
- 1999 “Breaking the Curse of Aggregation: A Demand Systems Analysis of Indiana Welfare Reforms,” \$23,332, Purdue Research Foundation
- 1999 “Modeling the Impact of Policy and Technology Intervention in Crop-Livestock Production Systems,” \$25,500, International Livestock Research Institute, Addis Ababa, Ethiopia

- 1999 “Technological Progress in Livestock Production and Poverty,” \$13,855, International Livestock Research Institute, Addis Ababa, Ethiopia
- 1999 “Analysis of the Consequences of Alternative Structural Arrangements on the Agricultural Sector,” \$10,000, United States Department of Agriculture, Economic Research Service, Cooperative Agreement
- 2000 “Analysis of the Consequences of Alternative Structural Arrangements on the Agricultural Sector – Extension,” \$20,000, United States Department of Agriculture, Economic Research Service, Cooperative Agreement
- 2000 “Supply Chain Optimization and Protocol Environment (SCOPE): A Modeling Environment for Extended Enterprises,” \$100,000, National Science Foundation, Scalable Enterprise System Program
- 2000 “Productivity Convergence in Livestock Production,” \$35,000, United States Department of Agriculture, National Research Initiatives Competitive Grants Program
- 2001 “Bio-economic modeling of crop-livestock interactions in mixed farming systems for policy and technology evaluation in the East African Highlands,” \$25,000, International Livestock Research Institute, Addis Ababa, Ethiopia
- 2001 “Economic Analysis of Paylean™ Fed to Finishing Hogs,” \$36,036, Elanco Animal Health
- 2001 “Scalable Enterprises: Supply Chain Optimization and Protocol Environment (SCOPE): A Rapid Prototyping and Modeling Tool for Extended Enterprises,” \$620,000 National Science Foundation, Scalable Enterprise System Program
- 2002 “Productivity Convergence in Livestock and Crop Production: Implications for the Composition of World Food Trade,” \$96,000, United States Department of Agriculture, National Research Initiatives Competitive Grants Program
- 2002 “Management Strategies for Feeding Paylean™ to Finishing Hogs,” \$36,036, Elanco Animal Health
- 2002 “Graduate Recruitment Initiative Proposal,” \$9,000, Vice President for Research and Graduate Education, Purdue University
- 2003 “Evaluation of Potential Improvements in Management Using Automatic Weighing Systems,” \$8,150, Elanco Animal Health
- 2005 “Swine Production: Strategies for Managing Growth Variation,” \$14,915, Purdue Research Foundation

- 2007 “State Utility Forecasting Group,” \$1.3 million, Indiana Utility Regulatory Commission
- 2007 “Implementation of Synfuel Park,” \$37,000 Center for Coal Technology Research
- 2008 “Development of a Primer to Aid Rural Utilities in the Evaluation of Renewable Power Opportunities,” \$50,000, U.S. Department of Agriculture, Office of Energy Policy and New Uses; Renewed 9/2009 for \$18,000
- 2008 Purdue Research Foundation International Travel Grant, \$1,000, Purdue Research Foundation
- 2009 “Continuing the Work of the State Utility Forecasting Group,” \$1.3 million, Indiana Utility Regulatory Commission
- 2010 “Increasing Electricity Trading and Environmental Sustainability in Southeast Europe,” \$30,000, Purdue Global Policy Research Institute
- 2010 “Useful to Usable (U2U): Transforming Climate Variability and Change Information for Cereal Crop Producers,” \$5 million, USDA/NIFA (P.I. Prokopy)

University Teaching Experience

Courses Taught

- 1984- AGEC 652 – Application of Quantitative Analysis: Mathematical Programming
- 1988 AGEC 690E – Agricultural Applications of Linear Programming
- 1991,1993 AGEC 690Z – Mathematical Modeling in Agricultural Economics

Courses Supervised

- 1985-2001 AGEC 690B – Computer Usage in Agricultural Economics
- 1987 AGEC 452 – Quantitative Techniques for Farm Decision Making

Completed Graduate Theses Supervised

Nelson, Charles H., “Resource Allocation and Crop Insurance,” Ph.D. Thesis, May 1986.

Menzie, Keith L., “An Analysis of Factors Affecting the Organization of a Cooperative Food Manufacturing and Distribution System,” Ph.D. Thesis, May 1986.

Venkateswaran, Meenakshi, “Impact of Weather and Crop Price Information on Grain Marketing Decisions Under Risk and Uncertainty,” Ph.D. Thesis, December 1989.

Spinelli, Felix J., “A Dynamic Quarterly Multi-Stage Partial Equilibrium Model of the U.S. and Canadian Swine Industries,” Ph.D. Thesis, August 1991.

DeVuyst, Eric A., "Moment Preserving Approximations of Multivariate Probability Distributions for Decision and Policy Analysis: Theory and Applications," Ph.D. Thesis, December 1993.

Etyang, Martin N., "Improving Machinery Investment Decisions," Ph.D. Thesis, May 1994.

Mwanaumo, Anthony, "The Effects of Maize Marketing Policy Reforms in Zambia," Ph.D. Thesis, May 1994.

Boland, Michael A., "Economic Optimization of Animal Replacement, Ration Composition, and Nutrition Management: An Application to Pork Production," Ph.D. Thesis, August 1996.

Mdafri, Abdellah, "Profitability of Crops and Livestock Production in the Setatt Province of Morocco," Ph.D. Thesis, May, 1996.

Liu, Songquan, "Gaussian Quadrature and Its Applications," Ph.D. Thesis, August, 1997.

Harmon, Alice M., "Maximum Entropy-based Seemingly Unrelated Regression," M.S. Thesis, December, 1998.

Cranfield, John A.L., "Aggregating Non-linear Consumer Demands – A Maximum Entropy Approach," Ph.D. Thesis, August 1999.

Eskigun, Erdem, "Outbound Supply Chain Network Design for a Large-Scale Automotive Company," Ph.D. Thesis (Industrial Engineering), August 2002.

Lillywhite, Jay M., "Using Nonparametric Methods to Improve Parametric Demand Estimation in the Presence of Binding Non-negativity Constraints with Application to Agribusiness Management," Ph.D. Thesis, May 2003.

Settlage, Daniel M., "Robustness of Nonparametric Measurement of Efficiency and Risk Aversion: A Simulation Analysis with Applications to Agricultural Banking and Ethiopian Farming," Ph.D. Thesis, August 2003.

Li, Ning, "Economic Analysis of Optimal Production and Marketing Management Strategies for Swine Production and Operations with Paylean," Ph.D. Thesis, August 2003.

Winslow, Noah, "Reducing the Cost of Demand Uncertainty Through Postponed Processing in Seed Corn," M.S. Thesis, December 2003.

Ivanic, Rastislav, "Market Power and Welfare Effects in a Two-Stage Electricity Market with Transmission Constraints: A Stochastic Equilibrium Approach," Ph.D. Thesis, December 2004.

Lu, Liwei, "Assessment of the Reliability of Indiana's Electricity Generation System," M.S. Thesis, May 2009.

Bista, Bhawna, "Corn-to-Ethanol Dry Mill Plants: Economic Evaluation of Technology and Location Choice," Ph.D. Thesis, August, 2009.

Yigezu, Yigezu A., "Economics of Integrated Pest Management in Stored Corn," Ph.D. Thesis, December, 2009.

Ruangpatana, Suriya, "Analysis of Load Factor for Fuel Diversification," Ph.D. Thesis (Industrial Engineering), May 2010.

Brown, Samuel, "Rural Electric Cooperatives' Adoption of Renewable Energy Technology," M.S. Thesis, August 2010.

Canchi, Devendra, "Financial Transmission Rights Valuation and Auction Structure," Ph.D. Thesis, August 2010.

Tuzuner, Akiner, "A Stochastic Equilibrium Model of the World Crude Oil Market," Ph.D. Thesis (Industrial Engineering), December 2010.

Allen, B. "An Economic and Emissions Analysis of Electricity Generation Using Biomass Feedstock in Co-fired and Direct Fired Facilities," M.S. Thesis, August, 2011.

Graduate Committee Service

Chair or Co-chair, Ph.D. Advisory Committees for: Menzie, Nelson, Venkateswaran, Spinelli, DeVuyst, Etyang, Mwanaumo, Liu (Songquan), Boland, Mdafri, Cranfield, Settlege, Eskigun, Ivanic (Rastislav), Lillywhite, Li (Ning), Canchi, Tuzuner, Ruanpattana, Yigezu, Bista, Lu, Ozkaya, Davis

Chair, Master's Advisory Committee for: Nixon, Harmon, Winslow, Lu, Brown, Allen
Member, Ph.D. Advisory Committees for: Andresen, Roth, Featherstone, Moss, Ehui, Sukhum, Turvey, Peterson, Rendleman, Langemeier, Yang, Habash, Lopez, Bever, Holloway, Haley, Dai, Foltz, Kim, Choi, Farhangi, Katepa, Kwack, Lanclos, Gu, Adesina, Vandever, Nixon, Brown, Chyc, Coulibali, M'Ahmed, Senatré, Liang, Arndt, Dalton, Dimaranan, Ianchovichina, Kallio, Sidibe, Hutchinson, Al-Khal, Liu (Jing), Hyde, Luo, Gloy, Swaminathan, Maung, Karky, Davis, Johnson, Nin-Pratt, Langyintuo, Williams, Hyde, Walter, Yu, Poray, Slinsky, Asmundson, Pascual, Naidoo, Uluca, Wu (Jianghua), Ivanic (Maros), Aouam, Ludena, Wubeneh, Golub, Sourirajan, Upasani, Valenzuela, Diabat, Alenezi, Delbecq, Villoria, Verma, Martcho, Coulibaly, Ibrahim, Li
Member, Master's Advisory Committees for: Boyd, Mwanaumo, Merz, Tsigas, Ensink, Millar, M'Ahmed, Al-Essa, Han, Maddux, Estes, Luo, Allen, Nydene, Howard, Hallman, Stair, Ndungu, Ivanic (Maros), Smardo, Kozlitina, West, Ngeleza, Paredes, Tran, Viteri

Service – National Program Reviews

University of Delaware, 2001

University of Nevada – Reno, 2008

Service – Regional Research Committees

Risk Management Strategies for Agricultural Production Firms (S-180), Participant 1987-1989
Quantifying Long Run Agricultural Risks and Evaluating Farmer Responses to Risk (S-232), Participant 1988-93
Adjustments to a Dynamic Livestock-Meat Sector (S-227), Representative 1988-94
Ecology and Management of European Corn Borer and Other Stalk-Boring Lepidoptera (NC-205), Participant 1998, Representative 1999-, Annual Meeting Host (Indianapolis) 2002

Service – Honor Society

Assistant Secretary, Purdue Chapter of Phi Kappa Phi Honor Society, 1983-1984
Executive Council Member, Purdue Chapter of Phi Kappa Phi Honor Society, 1984-1987

Service – Departmental/University Committees

Departmental Computer, Member, 1983-1990, 1993-97, Chair 1997-2001
Departmental Graduate Admissions, Member 1987-1990, Chair 2001-
Departmental Preliminary Examinations, Chair 1995-7
Departmental Preliminary Examination Areas (Computational Science and Engineering, Operations Research, Production, Risk), Member or Chair 1985-
Departmental Seminar, Chair 1986-1988
Departmental Space, Member 1989-
University Grade Appeals, Member 1990-96
University Staff Appeals Board for Traffic Regulations, Member 1998-2001
Departmental Awards, Chair 2005-

Service – Reviewer

Operations Research

American Journal of Agricultural Economics

Mathematical Programming

Journal of Agricultural and Resource Economics (formerly Western Journal of Agricultural Economics)

Review of Agricultural Economics (formerly North Central Journal of Agricultural Economics)

Journal of Agricultural and Applied Economics (formerly Southern Journal of Agricultural Economics)

European Review of Agricultural Economics

Journal of Production Agriculture

International Economic Review

Agricultural Finance Review

Cahiers d'Economie et Sociologie Rurales

National Science Foundation

United States Department of Agriculture

Consortium for Plant Biotechnology Research
University of Delaware, External Reviewer for the Department of Food and Resource Economics
Swiss Center for International Agriculture
Manufacturing and Service Operations Management
Management Science
Journal of Animal Science
The Energy Journal
Journal of Environmental Economics and Management
Entropy

Service – Editorial

Associate Editor, American Journal of Agricultural Economics, 1990-1993
Guest Editor, Manufacturing and Service Operations Management, 2002-2003
Editorial Staff, Manufacturing and Service Operations Management, 2003-2005
Co-editor, American Journal of Agricultural Economics, 2005-2010

Service – Community

Wabash River Cycle Club, Vice President 1999-2000
West Lafayette Library Foundation Board, Vice President 2000-2001, President 2001-2004

Memberships in Professional Societies

American Agricultural Economics Association
American Economics Association
Institute for Operations Research and Management Science (INFORMS)
Stanford Operations Research Society (Chairman and Founder, 1980-81)

Consulting

Electric Power Research Institute in Palo Alto, California during 3/80-3/83
Control Analysis Corporation in Palo Alto, California during 9/80-7/81
Hudson Institute in Croton-on-Hudson, New York during 9/82-11/82
University of Delaware during 1/95
U.S. Agency for International Development in Rabat, Morocco during 5/95-9/95
Consortium for Plant Biotechnology Research during 7/96-6/98
World Bank during 10/00-1/05
Land O' Lakes during 7/03-9/03
Chemonics International during 12/06 and 11/07
U.S. Department of Agriculture 2/09-11/09

October 2011