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## **EDUCATION**

B.A., with honors in Economics, June, 1976, University of North Carolina at Chapel Hill  
Masters in Public and International Affairs, June, 1978, Woodrow Wilson School, Princeton University  
Ph.D. in Applied Economics May, 1983, Cornell University

## **PROFESSIONAL EXPERIENCE**

- Present Distinguished Professor of Agricultural Economics and Adjunct Professor of Economics, Purdue University. Founder and Executive Director of Global Trade Analysis Project (GTAP).
- 8/11-8/12 Visiting Scholar, Center for Food Security and the Environment, Stanford University. Conducted interdisciplinary research and teaching on climate impacts and mitigation policies.
- 8/04-8/05 Principal Investigator, Trade-Poverty Project, World Bank. Commissioned 14 studies on the poverty implications of WTO trade reforms. Organized conference, edited book synthesizing this work, and presented as part of the World Bank's WTO/Doha dissemination effort.
- 7/92- Professor, Purdue University. Director, Global Trade Analysis Project (GTAP).
- 9/90-6/91 Fulbright Senior Research Fellow with the IMPACT Project in Melbourne, Australia. This project provided analytical support to the Industry Commission. Also worked with the Australian Industry Commission on a project to evaluate the effects of Asia-Pacific Economic Cooperation.
- 7/88-6/92 Associate Professor, Purdue University. Conducted research on economy-wide effects of farm and food policies.
- 1/83-6/88 Assistant Professor, Purdue University. Conducted research activities in the areas of energy pricing and demand as well as US agricultural policy.

## **PROFESSIONAL ASSOCIATIONS**

American Association for the Advancement of Science, Agricultural and Applied Economics Association, American Economic Association, American Geophysical Union, International Association of Agricultural Economists, International Agricultural Trade Research Consortium

## AWARDS AND HONORS

Fellow, American Association for the Advancement of Science (AAAS), 2018

Inaugural Recipient, Purdue University Research Award for the Humanities and Social Sciences, 2013

PI for winning 'Big Idea' competition run by Discovery Park, Purdue University (2017)

Sustainability Science Journal Article Award (2017), Ecological Society of America

Recipient, 2018/19 College of Agriculture Graduate Teaching and Mentoring Award

Science Advisory Board, US-EPA: Economy-wide Modeling of Environmental Regulations, 2015-17

Awards and recognition from the Agricultural and Applied Economics Association (AAEA):

- President, 2010-2011
- Distinguished Graduate Student Teacher and Mentor, 2019
- Publication of Enduring Quality, 2016, *Global Trade Analysis*
- Editor, AAEA Quality of Communication Award, 2007 *Poverty and the WTO*
- Distinguished Fellow of the Association, 2004
- Distinguished Policy Contribution Award of the AAEA, 1999
- Thesis Advisor to 1994 AAEA Outstanding M.S. Thesis Award Winner: Elena I. Ianchovichina
- Contributor to the AAEA Quality of Communication Award Winning Book, *Agricultural Policies in a New Decade*, 1990
- Outstanding Journal Article Award, American Agricultural Economics Association, "Negotiating Reductions in Agricultural Support: Implications of Technology and Factor Mobility," published in the *American Journal of Agricultural Economics*, 1989
- Thesis Advisor to 1989 AAEA Outstanding Ph.D. Thesis Award Winner: *The Farm - Retail Price Spread Revisited: A General Equilibrium Perspective*, by Everett B. Peterson.
- Founding Chairman, AAEA International Section: 2004-5

Outstanding journal article (one of four) (2017) *European Association of Env & Res Econ*

Best Journal Article, Australian Agricultural Economics Association, *Australian Journal of Agricultural Economics*, 1991

Policy Article Prize, Center for International Food and Agricultural Policy, University of Minnesota, 1990

Recipient of 2019 Outstanding Graduate Teacher and Mentor: Purdue School of Agriculture

Recipient of 1995 Outstanding Researcher Award: Purdue School of Agriculture

Bellagio Residency, Rockefeller Foundation, July, 2013

Editorial Board Member: Annual Review of Resource Economics

Founding Editor: Journal of Global Economic Analysis ([www.jgea.org](http://www.jgea.org))

International Research Fellow, Kiel Institute of World Economics: 2005-

Editorial Advisory Council, Journal of Economic Integration, 2000-

Editorial Advisory Council, Australian J. of Agricultural and Resource Economics, 1999 - 2016

Associate Editor, American Journal of Agricultural Economics, 1988-91 and 1994-97

## PUBLICATIONS

Citations (Google Scholar: 02/25/2020): total = 28,065; h-index = 82; i-10 = 300

### 1. Refereed Journal Articles

- Baldos, U.L.C, K.O. Fuglie, and T.W. Hertel (2020) “The Research Costs of Adapting Agriculture to Climate Change: A Global Analysis to 2050”, Agricultural Economics 51(2) <https://onlinelibrary.wiley.com/doi/epdf/10.1111/agec.12550> .
- Sun, Shanxia, Brayam Valqui Ordonez, Mort D. Webster, Jing Liu, Christopher J. Kucharik, and Thomas Hertel. 2020. “Fine-scale Analysis of the Energy-Land-Water Nexus: Water Quality Implications of Biomass Co-Firing in the Midwestern U.S.”, Environmental Science and Technology <https://doi.org/10.1021/acs.est.9b07458>.
- Taheripour, F., T.W. Hertel and N. Ramankutty (2019). “Market-mediated responses confound policies to limit deforestation from oil palm expansion in Malaysia and Indonesia” Proceedings of the National Academy of Sciences 116 (38) 19193-19199.
- Baldos, Uris L.C., Thomas W. Hertel, and Frances Moore, (2019). “Understanding the Spatial Distribution of Welfare Impacts of Global Warming on Agriculture and its Drivers”, American Journal of Agricultural Economics 101(5):1455–1472. <https://doi.org/10.1093/ajae/aaz027>
- Hertel, Thomas W., Thales West, Jan Boerner and Nelson Villoria, 2019. “A Review of Global-Local-Global Linkages in Economic Land-use/cover Change Models” Environmental Research Letters 14 053003, <https://iopscience.iop.org/article/10.1088/1748-9326/ab0d33>
- Yao, Guolin, Thomas W. Hertel and Farzad Taheripour, 2018. “Economic Drivers of Telecoupling and Terrestrial Carbon Fluxes in the Global Soybean Complex” Global Environmental Change, (50)190-200.
- Hertel, Thomas W. 2018. “Economic Perspectives on Land Use Change and Leakage” Environmental Research Letters 13 075012; <http://iopscience.iop.org/article/10.1088/1748-9326/aad2a4/pdf>
- Baldos, Uris L.C., Frederi G. Viens, Thomas W. Hertel, and Keith Fuglie (2019) “R&D Spending, Knowledge Capital and Agricultural Productivity Growth: A Bayesian Approach” American Journal of Agricultural Economics 101(1): 291-310: <https://doi.org/10.1093/ajae/aay039>
- McCarl, Bruce and Thomas W. Hertel, 2018. “Climate Change as an Agricultural Economics Research Topic” Applied Economics Perspectives and Policy.
- Moore, Frances C., Uris L.C. Baldos, Thomas W. Hertel, and Delavane Diaz, 2017. “New Science of Climate Change Impacts on Agriculture Implies Higher Social Cost of Carbon” Nature Communications, 18:1607.
- Liu, Jing, Thomas W. Hertel, Richard Lammers, Alexander Prusevich, Uris Baldos, Danielle Grogan and Steve Frolking, 2017. “Achieving Sustainable Irrigation Water Withdrawals: Global Impacts on Food Security and Land Use” Environmental Research Letters 12(10) <https://doi.org/10.1088/1748-9326/aa88db>.

- Cai, Yongyang, Alla A. Golub and Thomas W. Hertel, 2017. "Agricultural Spending Must Increase in Light of Future Uncertainties" Food Policy 70:71-83  
<http://www.sciencedirect.com/science/article/pii/S0306919216303426>
- Corong, Erwin, Thomas W. Hertel, Robert A. McDougall, Marinos E. Tsigas and Dominique van der Mensbrugge. 2017. "The Standard GTAP Model, Version 7" Journal of Global Economic Analysis 2(1): 1-122.
- Moore, Frances C., Uris L.C. Baldos and Thomas W. Hertel, 2017. "Economic Impacts of Climate Change on Agriculture: A Comparison of Process-Based and Statistical Yield Models" Environmental Research Letters 12(6) <http://iopscience.iop.org/article/10.1088/1748-9326/aa6eb2/meta> .
- Henderson, B., A. Golub, D. Pambudi, T. Hertel, C. Godde, M. Herrero, O. Cacho, and P. Gerber. 2017. "The Power and Pain of Market-Based Carbon Policies: A Global Application to Greenhouse Gases from Ruminant Livestock Production." Mitigation and Adaptation Strategies for Global Change, January, 1–21. doi:10.1007/s11027-017-9737-0.
- Hertel, Thomas W. 2016. "Land Use in the 21st Century: Contributing to the Global Public Good." Review of Development Economics, December. doi:10.1111/rode.12295.
- Hertel, T.W. and U.L.C. Baldos. (2016) "Attaining Food and Environmental Security in an Era of Globalization", Global Environmental Change, 41:195-205.
- Peters, J. C. and T. W. Hertel. (2016) "Achieving the Clean Power Plan 2030 CO2 Target with the New Normal in Natural Gas", Energy Journal 38 (5).
- Akgul, Z., N.B. Villoria and T.W. Hertel, (2016) "GTAP-HET: Introducing Firm Heterogeneity into the GTAP Model", Journal of Global Economic Analysis, (1):111-180.
- Baldos, U.L.C. and T.W. Hertel, (2016) "Debunking the 'New Normal': Why World Food Prices are Expected to Resume their Long run Downward Trend", Global Food Security, (8):27-38.
- Hertel, T., W., U.L.C. Baldos and D. van der Mensbrugge (2016) "Predicting Long Term Food Demand, Cropland Use and Prices", Annual Review of Resource Economics 8:417-441 doi:10.1146/annurev-resource-100815-095333.
- Liu, J., T.W. Hertel, and F. Taheripour (2016). "Analyzing Water Scarcity in Global CGE Models", Water Economics and Policy 2(4) DOI: 10.1142/S2382624X16500065.
- Hertel, T., W., J. Liu (2016) "Implications of Water Scarcity for Economic Growth", OECD Environment Working Paper No. 109: [http://www.oecd-ilibrary.org/environment/implications-of-water-scarcity-for-economic-growth\\_5jlssl611r32-en](http://www.oecd-ilibrary.org/environment/implications-of-water-scarcity-for-economic-growth_5jlssl611r32-en)
- Peters, J. C. and T. W. Hertel. (2016) "The Database-Modeling Nexus in Integrated Assessment Modeling of Electric Power Generation", Energy Economics 56:107-116.

- Peters, J. C. and T. W. Hertel. (2016) “Matrix Balancing with Unknown Total Costs: Preserving Economic Relationships in the Electric Power Sector”, Economic Systems Research <http://www.tandfonline.com/doi/full/10.1080/09535314.2015.1124068>
- Hertel, T., W. (2016) “Food Security Under Climate Change”, Nature Climate Change (6):10-13.
- Liu, J., H. Mooney, V. Hull, S. Davis, J. Gaskell, T. Hertel, J. Lubcheco, K. Seto, P. Gleick, C. Kremen and S. Li. (2015) “Systems Integration for Global Sustainability”, Science (347):6225. This paper won the 2017 outstanding paper award from the Ecological Society of America.
- Hertel, T., W., J. Steinbuks and W.E. Tyner, (2015) “What Is the Social Value of Second Generation Biofuels?”, Applied Economic Perspectives and Policy, September, doi: 10.1093/aep/ppv027.
- Liu, J., T.W. Hertel, N.S. Diffenbaugh, M.S. Delgado and M. Ashfaq (2015). “Future property damage from flooding: Sensitivities to Economy and Climate Change”, Climatic Change August, DOI 10.1007/s10584-015-1478-z
- Hertel, T., W. (2015) “The Challenges of Sustainably Feeding a Growing Planet”, Food Security (7):185-198. <http://link.springer.com/article/10.1007%2Fs12571-015-0440-2>
- Baldos, U.L.C. and T. W. Hertel (2015) “The Role of International Trade in Managing Food Security Risks from Climate Change”, Food Security (7):275-290. <http://link.springer.com/article/10.1007/s12571-015-0435-z#page-1>
- Steinbuks, J. and T. W. Hertel (2016) “Confronting the Food-Energy-Environment Trilemma: Global Land Use in the Long Run”, Environmental and Resource Economics, 63:545 doi:10.1007/s10640-014-9848-y. This paper was selected as one of four outstanding journal articles by the European Association of Environmental and Resource Economists, to be recognized at the Association’s annual meetings in Athens, 2017.
- Hertel, T., W., N. Ramankutty and U.L.C. Baldos, (2014) “Global market integration increases likelihood that a future African Green Revolution could increase crop land use and CO2 emissions”, Proceedings of the National Academy of Sciences 111(38): 13799–13804, doi: 10.1073/pnas.1403543111.
- Liu, J., T.W. Hertel, F. Taheripour, T. Zhu and C. Ringler (2014). “International Trade Buffers the Impact of Future Irrigation Shortfalls”, Global Environmental Change 29:22-31.
- Verma, M., T. W. Hertel and N.S. Diffenbaugh (2014). “Market-oriented Ethanol and Corn-trade Policies can Reduce Climate-induced US Corn Price Volatility”, Environmental Research Letters 9:064028 [doi:10.1088/1748-9326/9/6/064028](http://dx.doi.org/10.1088/1748-9326/9/6/064028)
- Hertel, T., W. and D. Lobell, (2014) “Agricultural Adaptation to Climate Change in Rich and Poor Countries: Current Modeling Practice and Potential for Empirical Contributions”, Energy Economics <http://dx.doi.org/10.1016/j.eneco.2014.04.014>

- Baldos, U. and T.W. Hertel, (2014) “Global food security in 2050: The role of agricultural productivity and climate change”, Australian Journal of Agricultural and Resource Economics, (58):1-18, doi:10.1111/1467-8489.12048
- Britz, W., T. W. Hertel, and J. Pelikan (2014). “How Green are Agricultural Set Asides? An Analysis at the Global and Regional Levels”, Journal of Agricultural Economics, doi:10.1111/1477-9552.12065
- Avetisyan, M., T.W. Hertel and G. Sampson (2014). “Is Local Food more Environmentally Friendly? The GHG Emissions Impacts of Consuming Imported vs. Domestically Produced Food”, Environmental and Resource Economics 58(3):415-462. <http://link.springer.com/article/10.1007%2Fs10640-013-9706-3>
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- Hertel, T., W. and W.E. Tyner (2013) “Market-mediated Environmental Impacts of Biofuels”, Global Food Security, <http://dx.doi.org/10.1016/j.gfs.2013.05.003>
- Hussein, Z., T.W. Hertel and A. Golub (2013). “Poverty Impacts of Climate Mitigation Policy”, Environmental Research Letters 8 (2013) 035009 (10pp): doi:10.1088/1748-9326/8/3/035009.
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- Meyfroidt, P., E.F. Lambin, K. Erb and T.W. Hertel (2013). “Globalization of land use: Distant drivers of land change and geographic displacement of land use”, Current Opinion in Environmental Sustainability <http://dx.doi.org/10.1016/j.cosust.2013.04.003>.
- Hertel, T. W., J. Steinbuks, and U.C. Baldos (2013). “Competition for Land in the Global Bioeconomy”, Agricultural Economics 44:129-138, <http://onlinelibrary.wiley.com/doi/10.1111/agec.12057/pdf>.
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- Steinbuks, J. and T.W. Hertel (2013). “Energy prices will play an important role in determining global land use in the twenty first century”, Environmental Research Letters doi:10.1088/1748-9326/8/1/014014.
- Lobell, D., U. C. Baldos and T.W. Hertel (2013). “Climate Adaptation as Mitigation: The Case of Agricultural Investments”, Environmental Research Letters 8:1-12, doi:10.1088/1748-9326/8/1/015012.
- Golub, A. and T. W. Hertel (2012). “Modeling Land Use Change Impacts of Biofuels in the GTAP-BIO Framework”, Climate Change Economics 3(3): doi: 10.1142/S2010007812500157

- Ahmed, S. A., N. Diffenbaugh, T. Hertel, and W. Martin (2012) "Agriculture and Trade Opportunities for Tanzania: Past Volatility and Future Climate Change", Review of Development Economics 16(3):429-447 <http://onlinelibrary.wiley.com/doi/10.1111/j.1467-9361.2012.00672.x/pdf>
- Golub, A.A., B.B. Henderson, T.W Hertel, P. Gerber, S.K. Rose and B. Sohngen (2012). "Global Climate Policy Impacts on Livestock, Land Use, Livelihoods and Food Security", Proceedings of the National Academy of Sciences <http://www.pnas.org/content/early/2012/09/26/1108772109>
- Diffenbaugh, N.S., T. W. Hertel, M. Scherer, and M. Verma (2012). "Implications of Climate Volatility for Agricultural Commodity Markets under Alternative Energy Futures", Nature Climate Change April 22, DOI: 10.1038/NCLIMATE1491.
- Avetisyan, M., A. Golub, T.W Hertel, S. Rose and B. Henderson (2011). "Why a global carbon policy could have a dramatic impact on the pattern of worldwide livestock production", Applied Economics Perspectives and Policy doi:10.1093/aep/pper026
- Beckman, J., T. W. Hertel, F. Taheripour and W.E. Tyner (2012). "Structural Change in the Biofuels Era", European Review of Agricultural Economics, 1(39):137-156.
- O'Hare, M., M. Delucchi, R. Edwards, U. Fritsche, H. Gibbs, T. Hertel, J. Hill, D. Kammen, D. Laborde, L. Marelli, D. Mulligan, R. Plevin and W. Tyner (2011). "Comment on 'Indirect land use change for biofuels: Testing predictions and improving analytical methodologies' by Kim and Dale: statistical reliability and the definition of the indirect land use change (iLUC) issue", Biomass and Bioenergy doi:10.1016/j.biombioe.2011.08.004.
- Verma, M., T.W Hertel and Paul V. Preckel (2011). "Predicting Within Country Household Food Expenditure Variation using International Cross-Section Estimates", Economics Letters 113:218-220, doi:10.1016/j.econlet.2011.07.004.
- Verma, M., T.W Hertel and E. Valenzuela (2011). "Are the Poverty Impacts of Trade Reforms Invisible?", forthcoming in World Bank Economic Review doi:10.1093/wber/lhr014.
- Hertel, T., W. (2011) "The Distributional Impacts of Climate Policy: Discussion", B.E. Journal of Economic Analysis and Policy (forthcoming).
- Villoria, N. and T.W. Hertel (2011). "Geography Matters: International Trade Patterns and the Indirect Land Use Effects of Biofuels", American Journal of Agricultural Economics 93(4):919-935.
- Beckman, J., T.W. Hertel, and W.E. Tyner (2011). "Validating Energy-Oriented CGE Models", Energy Economics 33:799-806.
- Ahmed, S.A., T.W. Hertel, and T.L. Walmsley (2011) "Outsourcing and the US Labour Market", World Economy 34(2):173-329, <http://onlinelibrary.wiley.com/doi/10.1111/j.1467-9701.2010.01297.x/pdf>.
- Hertel, T., W. (2011) "The Global Supply and Demand for Land in 2050: A Perfect Storm?", American Journal of Agricultural Economics 93(2):259-275.



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- Hertel, T., W., M. B. Burke and D. B. Lobell (2010) "The Poverty Implications of Climate-Induced Crop Yield Changes by 2030", Global Environmental Change doi:10.1016/j.gloenvcha.2010.07.001.
- Ahmed, S. A., N. Diffenbaugh, T. Hertel, D. Lobell, P. Rowhani, N. Ramankutty and A. R. Rios (2010) "Climate Volatility and Poverty Vulnerability in Tanzania", Global Environmental Change <http://dx.doi.org/10.1016/j.gloenvcha.2010.10.003>
- Hertel, T., W. and S. Rosch (2010) "Climate Change, Agriculture and Poverty", Applied Economic Perspectives and Policy 32(3): 355-385-31: doi: 10.1093/aep/ppq016. See also short version published in VoxEU: <http://www.voxeu.org/index.php?q=node/6233>
- Hertel, T., W. Martin and A. Leister (2010) "Potential Implications of the Special Safeguard Mechanism (SSM): The Case of Wheat", World Bank Economic Review doi: 10.1093/wber/lhq010.
- Narayanan, B.G., T.W. Hertel, and J.M. Horridge (2010) "Disaggregated Data and Trade Policy Analysis: The Value of Linking Partial and General Equilibrium Models Economic Modelling", Economic Modelling 27:755-766.
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- Preckel, P.V., J.A.L. Cranfield and T. W. Hertel, (2010). "A Modified, Implicit Directly Additive Demand System", Applied Economics, 42(2):143-155.
- Reimer, J.J. and T.W. Hertel, 2010. "Non-Homothetic Demands and the Factor Content of Trade," The Review of International Economics 18(2):408-425.
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- Grant, J., T. W. Hertel and T. F. Rutherford (2009). "Dairy Tariff-Quota Liberalization: Contrasting Bilateral and Most Favored Nation Reform Options", American Journal of Agricultural Economics 91(3):673-684.
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- Ludena, C.E., T.W. Hertel, P.V. Preckel, K. Foster and A. Nin, 2007. "Productivity Growth and Convergence in Crop, Ruminant and Non-Ruminant Production: Measurement and Forecasts", Agricultural Economics 37:1-17.
- Hertel, T.W., R. Keeney, M. Ivanic and L.A. Winters, 2007. "Distributional Impacts of WTO Reforms in Rich and Poor Countries," Economic Policy 50(1):1-49 (April).
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- Valenzuela, E., Hertel, T.W., R. Keeney and J.J. Reimer. 2007. "Assessing Global CGE Model Validity using Agricultural Price Volatility." American Journal of Agricultural Economics 89(2) 383-397.
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- Walmsley, T., T. W. Hertel, and E.I. Ianchovichina 2006. "Assessing the Impact of China's WTO Accession on Investment," Pacific Economic Review 11(3):315-339.
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- Nin, A., T.W. Hertel, K. Foster and A. Rae, 2004. "Productivity Growth, Catching-up and Uncertainty in China's Meat Trade," Agricultural Economics, 31(1): 1-16.
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- Hertel, Thomas W., 1990. "The Impact of Trade Liberalization on Low-Income, Food Deficit Countries," Chapter 5 in The GATT, Agriculture, and the Developing Countries, N. Islam and A. Valdes (eds.), Washington, DC: IFPRI.
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## 5. Outreach Publications

- Hertel, T.W., 2018. “*Climate Change, Agricultural Trade and Global Food Security*, background paper for the FAO State of Agricultural Commodity Markets, 2018: <http://www.fao.org/3/CA1929EN/ca1929en.pdf>
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## 6. Book Reviews

- Hertel, Thomas W., 2007. Review of Kimberly Elliott, Delivering on Doha: Farm Trade and the Poor, in Journal of Economic Literature, 45(4):1085-1087.
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## 7. Research Bulletins



- Hertel, T.W., M. Verma, M. Ivanic, E. Magalhaes, C. Ludena, and A. Rios, 2015. *GTAP-POV: A Framework for Assessing the National Poverty Impacts of Global Economic and Environmental Policies*. GTAP Technical Paper No. 31, Center for Global Trade Analysis, Purdue University, [https://www.gtap.agecon.purdue.edu/resources/res\\_display.asp?RecordID=3731](https://www.gtap.agecon.purdue.edu/resources/res_display.asp?RecordID=3731)
- Lee, H-L., T. W. Hertel, B. Sohngen and N. Ramankutty, 2005. *Towards and Integrated Land Use Data Base for Assessing the Potential for Greenhouse Gas Mitigation*. GTAP Technical Paper No. 25, Center for Global Trade Analysis, Purdue University, [https://www.gtap.agecon.purdue.edu/resources/res\\_display.asp?RecordID=1900](https://www.gtap.agecon.purdue.edu/resources/res_display.asp?RecordID=1900)
- Hertel, Thomas W., Everett B. Peterson, Everett B., and James Stout, 1994. Adding Value to Traditional Models of International Agricultural Trade, ERS/USDA Technical Report No. 1833, 58 pages.
- Hertel, T.W., E. Ball, K.S. Huang and M.E. Tsigas, 1989. Computing General Equilibrium, Farm Level Demand Elasticities for Agricultural Commodities, Purdue University Agricultural Experiment Station Bulletin No. 988, 101 pages.
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## 8. Invited Lectures

- Hertel, Thomas W. and Stephen Polasky. “Global Futures: Assessing the global economic impacts of environmental change to support policy-making”, presented to the Royal Society, London, UK, February 11, 2020.
- Hertel, Thomas W. “Technology, Trade, Climate, and Food Security in Africa”, presented to the Strategic Planning Meeting for Sustainability in Africa, The World Bank, Washington, DC, January 15, 2020.
- Hertel, Thomas W. “Technology and the Long Run Sustainability of US Agriculture”, presented to the Brazil-US Dialogue on Sustainable Food and Agriculture, Washington, DC, November 13, 2019.
- Hertel, Thomas W., Uris L.C. Baldos and Keith O. Fuglie, “Trade in Technology: A Potential Solution to the Food Security Challenges of the 21<sup>st</sup> Century”, presented in the Department of Agricultural Economics, Kansas State University, October 17, 2019.
- Hertel, Thomas W., “Global to Local to Global Analysis of Long Run Sustainability for US Agriculture”, Presented to the Food Security Workshop at Kansas State University, October 18, 2019.
- Chepeliev, Maksym, Alla Golub, Thomas Hertel and Wajiha Saeed, “GTAP-HS: Modeling Agricultural Trade Policy at the Tariff Line” Presented at ERS/USDA, Washington, DC, August 14, 2019.
- Hertel, Thomas W., “International Trade and Sustainability”, Presented to the Chicago Dialogue on Trade and Sustainability organized by the Farm Foundation and the Canadian Agri-Food Policy Institute, Oak Brook, IL, July 31, 2019.
- Hertel, Thomas W., Laura Bowling, Iman Haqiqi and Jing Liu, “Global to Local to Global Analysis of Long Run Sustainability of US Agriculture”, Presented to the Mellon Foundation Grand Challenges Conference, Purdue University, May 20, 2019.
- Hertel, Thomas W., based on joint work with Uris L.C. Baldos, “Managing the Global Commons: Sustainable Agriculture and the Use of the World’s Land and Water Resources in the 21<sup>st</sup> Century”, Presented at the American University of Beirut, Lebanon, March 11, 2019.
- Hertel, Thomas W., “Global to Local Analysis of the United Nations Sustainable Development Goals”, Presented at the AAAS annual meetings, Washington, D.C., February 17, 2019.
- Hertel, Thomas W., based on joint work with Uris L.C. Baldos, “Market integration and future food security in the context of spatially heterogeneous population and productivity growth”, Presented at a Symposium on the New Malthusianism, Jesus College, Cambridge University, UK, December 12, 2018.
- Emiliano Lopez-Barrera and T.W. Hertel, “Food Waste: A Global Perspective”, Presented at the National Academies of Science, Washington, D.C. October 17, 2018.

- Hertel, T.W., based on joint work with Uris L.C. Baldos and Frances Moore, “The Biophysical and Economic Geographies of Climate Impacts on Agriculture”, Presented at Renmin University, Beijing, China, September 28, 2018.
- Hertel, T.W., based on joint work with Uris Baldos, Laura Bowling, Iman Haqiqi, and Jing Liu, “Achieving Agricultural Sustainability in the presence of Globalization” Distinguished Agricultural Lecture, Peking University, Beijing, China, September 27, 2018.
- Hertel, T.W., “GLASS: Global to Local Analysis of Systems Sustainability”, presented at Hohai University, Nanjing, China, September 25, 2018.
- Hertel, T.W., “From Global to Local: Linking Global Drivers to Local Sustainability Stresses”, organized session presentation at the AAEA meetings, Washington, D.C., August 7, 2018.
- Hertel, T.W., “GLASS: Global to Local Analysis of Systems Sustainability”, organized session presentation at the ICAE meetings, Vancouver, Canada, July 29, 2018.
- Hertel, T.W., based on work with Shanxia Sun, Brayam Valqui and Mort Webster. “Fine-scale Analysis of the Energy-Land-Water Nexus: Water Quality Implications of Biomass Co-Firing in the MISO region”, organized session presentation at the ICAE meetings, Vancouver, Canada, July 29, 2018.
- Hertel, T.W., based on joint work with Iman Haqiqi and Jing Liu, “Driving the Frontier of Agricultural Economics Research through Geospatial Data: Implications for Long Run Sustainability”, Plenary talk to the Conference on Data-driven Innovations in Agricultural Research, National Agricultural Library, Washington, D.C., June 21, 2018.
- Hertel, T.W., based on joint work with Uris L.C. Baldos and Frances Moore, “The Biophysical and Economic Geographies of Climate Impacts on Agriculture”, Presented at the 21<sup>st</sup> Annual Conference on Global Economic Analysis, Cartagena, Colombia, June 13-15, 2018.
- Hertel, T.W., “Fine-Scale Analysis of the Energy-Water-Land System”, Presentation to a DOE Workshop on Integrated Assessment of Climate, Penn State University, May 21, 2018.
- Hertel, T.W., based on joint work with Uris L.C. Baldos and Frances Moore, “The Biophysical and Economic Geographies of Climate Impacts on Agriculture”, Presented at the NBER workshop on agricultural trade, Cambridge, MA, May 17-18, 2018.
- Hertel, T.W., “Economic Equilibrium Analysis of Food Security”, Presentation to a Workshop on Multi-scale, Multi-disciplinary Analysis of Food Security, Helmholtz Centre for Environmental Research, Leipzig, Germany, March 12, 2018.
- Hertel, T.W., “An Economic Perspective and Land Use and Leakage from Agricultural Technology and Climate Change Impacts and Mitigation Policies”, Opening plenary talk for the Conference on Global Land Use and Leakage, Robert Bosch Foundation, Berlin, Germany, November 9, 2017.
- Hertel, T.W., “GLASS: Global to Local Analysis of Systems Sustainability”, Presented at the IMPACTS-World Conference in Potsdam, Germany, October 13, 2017.

- Hertel, T.W., based on joint work with Uris L.C. Baldos and Frances Moore, “Assessing the Inter-regional Incidence of Climate Impacts on Agriculture”, Presented at the IMPACTS-World Conference in Potsdam, Germany, October 11, 2017.
- Hertel, T.W., based on joint work with Uris L.C. Baldos and Frances Moore, “Assessing the Inter-regional Incidence of Climate Impacts on Agriculture”, Presented as part of the ISEE Congress on Climate Change, University of Illinois, September 19, 2017.
- Hertel, T.W., based on joint work with Jing Liu, Uris Baldos, Christopher Kucharik, Larissa Jarvis and Navin Ramankutty, “From Global to Local: Understanding the Drivers of Nitrogen Fertilizer Use and Leaching in the United States”, AAEA Annual meetings, Chicago, August 1, 2017.
- Hertel, T.W., based on joint work with U.L.C. Baldos, “Food and Environmental Security in an Era of Globalization”, seminar presented at the University of Massachusetts at Amherst, April 28, 2017.
- Hertel, T.W., based on joint work with U.L.C. Baldos, “Food and Environmental Security in an Era of Globalization”, seminar presented at North Carolina State University, March 27, 2017.
- Hertel, T.W., based on work with Uris L.C. Baldos, “Global Change and the Challenges of Sustainably Feeding a Growing Planet”, IFPRI Policy Seminar, Washington, D.C., January 18, 2017.
- Hertel, T.W., based on work with Uris L.C. Baldos, “Global Change and the Challenges of Sustainably Feeding a Growing Planet”, National Conference on Food and Agri-business, Indianapolis, November 16, 2016.
- Hertel, T.W., based on work with Jing Liu, U.L.C. Baldos and others, “Water Scarcity and Climate Change”, OCP side meeting on Water and Climate Change, COP-22 meetings, Marrakech, Morocco, November 10, 2016.
- Hertel, T.W., based on work with Jing Liu, U.L.C. Baldos and others, “Sustainable Irrigation in the Global Food System”, plenary paper, UCL Conference on Water Sustainability, University College London, November 8, 2016.
- Hertel, T.W., based on work with U.L.C. Baldos, Jing Liu, Navin Ramankutty and Yoshi Wada, “Estimating the Real Cost of Food”, organized session contribution, Global Land Project meetings, Beijing, China, October 25, 2016.
- Hertel, T.W., based on work with Guolin Yao and Farzad Taheripour, “Economic Insights into Telecoupling”, symposium presentation, Global Land Project meetings, Beijing, China, October 25, 2016.
- Hertel, T.W., based on work with U.L.C. Baldos, “Food and Environmental Security in an Era of Globalization”, seminar presented at Renmin University, Beijing, China, October 24, 2016.
- Hertel, T.W., based on work with U.L.C. Baldos, “Food and Environmental Security in an Era of Globalization”, seminar presented at the IRI-THYS Center, Humboldt University, Berlin, March 17, 2016.

- Hertel, T.W., “Climate Change, Agricultural Trade and Food Security”, Presentation at the annual meetings of the American Association for the Advancement of Science, Washington, D.C., February 14, 2016.
- Hertel, T.W. in collaboration with Farzad Taheripour and Badri Narayanan, “Food Security, Irrigation, Climate Change and Water Scarcity in India”, invited presentation at the American Geophysical Union meetings, San Francisco, CA, December 14, 2015.
- Hertel, T.W. in collaboration with Uris Baldos and Jing Liu, “Exploring the Food-Land-Water Nexus with SIMPLE-on-a-global-grid”, presentation to the PIAMDDI meetings, Stanford University, December 15, 2015.
- Hertel, T.W., “Global Land use Modeling for the Food-Energy-Water Nexus”, presentation to the NSF workshop on Food Energy and Water Systems, Iowa State University, October 12, 2015.
- Hertel, T.W., based on work with U.L.C. Baldos and Keith Fuglie, “Food and Environmental Security in an Era of Globalization”, Opening plenary talk to the German Association of Agricultural Economists, Gewisola, in Giessen, Germany, September 23, 2015.
- Baldos, U.L.C., T.W. Hertel and Keith Fuglie, “Appraising the costs and benefits for R&D led climate adaptation”, invited panel presentation at the International Conference of Agricultural Economists, Milan, Italy, August 10, 2015.
- Hertel, T.W. and U.L.C. Baldos, “Green Revolutions Past and Future: Implications for Food Security and the Environment”, presentation to the EU-IATRC conference on Global Food Security Challenges, Milan, Italy, August 7-8, 2015.
- Hertel, T.W. “Climate Adaptation and Mitigation: An Economic Perspective on Land-based Policies and Food Security”, plenary talk to the IPCC Summit on Food Security, Dublin, Ireland, May 28, 2015.
- Hertel, T.W. “Agricultural Impacts of Climate Change: Adaptation and Mitigation”, presentation to the 21<sup>st</sup> annual meeting on Integrated Assessment of Climate Change, Snowmass, Colorado, July 28, 2015.
- Hertel, T.W. “Green Revolutions Past and Future: Implications for Food Security and the Environment”, presentation to the EAAE-IATRC Conference on Global Food Security, Milan, Italy, August 7-8, 2015.
- Hertel, T.W., based on a paper with Uris Baldos and Keith Fuglie “Appraising the gains from R&D-led climate adaptation in agriculture”, presentation at the International Conference of Agricultural Economists, Milan, Italy, August 10, 2015.
- Hertel, T.W. “Global Change and the Challenges of Sustainably Feeding a Growing Planet”, Filley-Geary Annual Lecture, Department of Agricultural Economics, University of Nebraska, Lincoln, March 6, 2015.
- Hertel, T.W. “Global Change and the Challenges of Sustainably Feeding a Growing Planet”, Opening plenary address to the meetings of the Australian Agriculture and Resource Economics Society, Rotorua, New Zealand, February 11, 2015.

- Hertel, T.W., based on work with Uris Baldos, Noah Diffenbaugh, Monika Verma and others, “Climate Change, Agriculture, Land Use and Poverty”, Presentation to the Johns Hopkins School of Advanced International Studies (SAIS), February 5, 2015, Washington, DC.
- Hertel, T.W., based on work with Uris Baldos, Noah Diffenbaugh and Monika Verma, “Climate Change, Agriculture and Food Security”, Presentation to the Climate Change Group of the World Bank, February 5, 2015, Washington, DC.
- Hertel, T.W., written with Jing Liu and Farzad Taheriopur, “Modeling Water Scarcity in Global Economic Models”, presented to the fourth annual PIAMDDI workshop on Integrated Assessment Modeling, December 19, 2014.
- Hertel, Thomas W., written with Jevgenijs Steinbuks and Wallace E. Tynner, “What is the Social Value of Second Generation Biofuels?” presented at the meetings of the American Geophysical Union, December 18, 2014.
- Hertel, T.W., “Market Integration, Teleconnections and Global Land Use Change”, presented to the workshop *Operationalization of telecoupling concepts for land system science*, Aeschi Park, Switzerland, December 2, 2014.
- Hertel, T.W., based on work with Uris Baldos, Noah Diffenbaugh and Monika Verma, “Climate Change, Global Markets and Food Security”, Presentation to the RNRFC Congress on *Adapting Food Production to a Changing Climate*, December 9-10, 2014, hosted by the AGU in Washington, DC.
- Hertel, T.W., written with Jing Liu, “Water Scarcity and Economic Growth”, presented to the OECD workshop on environment and economic growth, Paris, October 2, 2014
- Hertel, T.W., written with Uris Baldos and Navin Ramankutty, “Global market integration increases likelihood that a future African Green Revolution could increase crop land use and CO2 emissions”, presented to the Dyson School, Cornell University, September 26, 2014.
- Hertel, T.W., “Global land use and the environment”, presented to a workshop on ecology and the environment, Cambridge University, UK, September 21, 2014.
- Hertel, T.W., written with Uris Baldos and Navin Ramankutty, “Global market integration increases likelihood that a future African Green Revolution could increase crop land use and CO2 emissions”, presented in an organized session at the AAEA meetings, Minneapolis, July 28, 2014.
- Hertel, T.W., written with Uris Baldos, “Bursting the Bubble: A Long Run Perspective on Food Prices”, presented at the Center for Food Security and the Environment, April 29, 2014.
- Hertel, T.W., written with Uris Baldos and Navin Ramankutty, “Does Agricultural Intensification Spare Land? Revisiting History and Exploring the Future”, presented to the Department of Earth and Environmental Systems Science, April 23, 2014.

- Hertel, T.W., written with Uris Baldos and Navin Ramankutty, “Does Agricultural Intensification Spare Land? Revisiting History and Exploring the Future”, presented to the Department of Applied Economics, University of Minnesota, April 4, 2014.
- Hertel, T.W. “Global Change and the Challenges of Sustainably Feeding a Growing Planet”, Plenary presentation to the Global Land Project Open Science Meetings, Berlin, March 20, 2014.
- Hertel, T.W., written with Uris Baldos and Navin Ramankutty, “Does Agricultural Intensification Spare Land? Revisiting History and Exploring the Future”, presented at the Global Land Project Open Science Meetings, Berlin, March 20, 2014.
- Hertel, T.W. “Environmental Sustainability and Food Security in an Integrated Global Economy”, presentation to the Global Land Project Open Science Meetings, Berlin, March 20, 2014.
- U.L.C. Baldos and T.W. Hertel, “Looking Back to Move Forward on Model Validation”, presentation to the Global Land Project Open Science Meetings, Berlin, March 21, 2014.
- Hertel, T.W. “Global Change and the Challenges of Sustainably Feeding a Growing Planet”, seminar presented at CEPII, Paris, March 18, 2014.
- Hertel, T.W. “Global Change and the Challenges of Sustainably Feeding a Growing Planet”, seminar presented at the United Nations Economic Commission for Latin America and the Caribbean, Santiago, Chile, December 17, 2013.
- Hertel, T.W., based on a paper with D. Lobell and U. C. Baldos. “Adaptation as Mitigation: Agricultural Productivity, Global Land Use and GHG Emissions”, presentation to the Department of Agricultural Economics, Universidad Catolica, Santiago, Chile, December 18, 2013.
- Hertel, T.W. and U. C. Baldos. “Global Commodity Markets and Food Security in the 21<sup>st</sup> Century”, presentation at the Symposium on ‘Feeding with World without Consuming the Planet, MIT, Cambridge, November 5, 2013.
- Hertel, T.W. “Global Change and the Challenges of Sustainably Feeding a Growing Planet”, Distinguished Lecture, College of Arts and Sciences, Ivy Tech, Lafayette, Indiana, October 14, 2013.
- Hertel, T.W. “Open Data for Sustainable Agriculture”, Panel discussion, ILSI Research Foundation, Washington, D.C., October 9, 2013.
- Hertel, T.W., based on work with Jevgenijs Steinbuks, “Optimal Global Land Use under Uncertainty”, University of Chicago, October 3, 2013.
- Hertel, T.W., based on work with Misak Avetisyan, “Is Local Food More Environmentally Friendly? The GHG Emissions Impacts of Consuming Imported vs. Domestic Foods”, Invited Presentation, the Ecological Society of America, Minneapolis, August 8, 2013.



- Hertel, T., W., based on work with Nelson Villoria, “GEOSHARE: Geospatial Open Source Hosting of Agriculture, Resource and Environmental Data”, presentation to the Bellagio Center Fellows, Rockefeller Foundation, Bellagio, Italy, July 15, 2013.
- Hertel, T.W. “Global Supply Chain Analysis of Natural Disasters”, Organized paper presentation at the Annual Conference on Global Economic Analysis, Shanghai, China.
- Hertel, T.W. “Land, Environment and Climate: Contributing to the Global Public Good”, plenary address to Meeting on Aid, Environment and Climate Change, organized by the United Nations University-WIDER, June 4, 2013, Stockholm.
- Hertel, T.W. “Validating Integrated Assessment Models of Global Land Use”, presented to the AMPERE-PIAMDDI Workshop on the Evaluation of Integrated Assessment Models, May 28-29, 2013: Seville, Spain.
- Hertel, T., W., based on work with Nelson Villoria, “GEOSHARE: Geospatial Open Source Hosting of Agriculture, Resource and Environmental Data”, presentation at the ILSI Research Foundation, Washington, D.C., May 14, 2013.
- Hertel, T.W. “Global Change and the Challenges of Sustainably Feeding a Growing Planet”, plenary address to the MIT-CSIS Energy Sustainability Challenge Forum, May 6-7, 2013: Washington, D.C.
- Hertel, T.W., based on a paper Z. Hussein and A. Golub. “The Poverty Impacts of Climate Change Mitigation Policies”, keynote address to the African Agriculture GIS Week, Addis Ababa, Ethiopia, March 13, 2013.
- Hertel, T.W., based on a paper Z. Hussein and A. Golub. “The Poverty Impacts of Climate Change Mitigation Policies”, plenary address to the World Bank conference on Land and Poverty, Washington, D.C., April 10, 2013.
- Hertel, T.W., based on a paper with D. Lobell and U. C. Baldos. “Adaptation as Mitigation: Agricultural Productivity, Global Land Use and GHG Emissions”, presentation to the National Center for Atmospheric Research (NCAR), Boulder, CO, February 19, 2013.
- Hertel, T.W., based on a paper with D. Lobell and U. C. Baldos. “Adaptation as Mitigation: Agricultural Productivity, Global Land Use and GHG Emissions”, presentation to the Department of Agricultural and Applied Economics, University of Wisconsin-Madison, October 26, 2012.
- Hertel, T.W., based on a paper with N.S. Diffenbaugh, M. Scherer, and M. Verma. “Implications of Climate Volatility for Corn Markets under Alternative Energy Futures”, presentation to the Department of Agricultural Economics, Purdue University, October 16, 2012.
- Hertel, T., W., based on work with Nelson Villoria, “GEOSHARE: Geospatial Open Source Hosting of Agriculture, Resource and Environmental Data”, presentation to the workshop on Integrated Assessment Modeling, Presentation to the ILSI meeting on Public-Private Partnership for Sustainable Agriculture, UN-FAO, Rome, October 8, 2012.

- Hertel, T.W., based on a paper with N.S. Diffenbaugh, M. Scherer, and M. Verma. “Implications of Climate Volatility for Corn Markets under Alternative Energy Futures”, presentation to United Nations Food and Agriculture Organization, October 8, 2012.
- Hertel, T.W., based on a paper with N.S. Diffenbaugh, M. Scherer, and M. Verma. “Implications of Climate Volatility for Corn Markets under Alternative Energy Futures”, presentation to Corn Growers Association, St. Louis, MO, September 10, 2012.
- Hertel, T., W., based on work with Jevgenijs Steinbuks and Uris Baldos, “Competition for Land in the Global Bioeconomy”, plenary presentation to the International Conference of Agricultural Economists, Foz do Igauzu, Brazil, August 23, 2012.
- Hertel, T., W., based on work with Uris Baldos, “Long Run Drivers of Global Land Use Change”, presented in an organized session at the International Conference of Agricultural Economists, Foz do Igauzu, Brazil, August 22, 2012.
- Baldos, U. and T.W. Hertel, “Food Security in the Long Run: Implications of Technological Progress and Climate Change”, presented in an organized session at the AAEA meetings, Seattle, August 14, 2012.
- Hertel, T., W., based on work with Nelson Villoria, “GEOSHARE: Geospatial Open Source Hosting of Agriculture, Resource and Environmental Data”, presentation to the workshop on Integrated Assessment Modeling, Snowmass, Colorado, July 24, 2012.
- Hertel, T., W., based on work with Farzad Taheripour and Jing Liu, “Incorporating Water into Integrated Assessment Models”, presentation to the workshop on Integrated Assessment Modeling, Snowmass, Colorado, July 23, 2012.
- Hertel, T., W., based on work with Nelson Villoria, “GEOSHARE: Geospatial Open Source Hosting of Agriculture, Resource and Environmental Data”, presentation to the Undersecretary of Agriculture, USDA, Washington, DC, July 6, 2012.
- Hertel, T.W., based on a paper with N.S. Diffenbaugh, M. Scherer, and M. Verma. “Implications of Climate Volatility for Corn Markets under Alternative Energy Futures”, presentation to the Annual Conference on Global Economic Analysis, Geneva, Switzerland, June 29, 2012.
- Hertel, T., W., “Implications of Agricultural Productivity for Global Land Use and GHG Emissions: Borlaug vs. Jevons”, presentation to the IAMO Conference on Land Use Transitions, Halle, Germany, June 21, 2012.
- Hertel, T., W., based on work with David Lobell, “Agricultural Adaptation to Climate Change in Rich and Poor Countries: Current Modeling Practice and Potential for Empirical Contributions”, paper presented at the NBER workshop on Adaptation to Climate Change, Cambridge, May 17, 2012
- Hertel, T., W., based on work with Nelson Villoria, “GEOSHARE: Geospatial Open Source Hosting of Agriculture, Resource and Environmental Data”, presentation to the Joint Working Party on Agriculture and the Environment, OECD, Paris, April 26, 2012.

- Hertel, T., W., and Nelson Villoria, “GEOSHARE: Geospatial Open Source Hosting of Agriculture, Resource and Environmental Data”, presentation to the Global Policy Research Institute Annual Meeting, April 18, 2012.
- Hertel, T.W., based on a paper with N.S. Diffenbaugh, M. Scherer, and M. Verma. “Implications of Climate Volatility for Corn Markets under Alternative Energy Futures”, presentation to Department of Agricultural and Resource Economics, University of California-Davis, May 11, 2012.
- Hertel, T.W., based on a paper with N.S. Diffenbaugh, M. Scherer, and M. Verma. “Implications of Climate Volatility for Corn Markets under Alternative Energy Futures”, presentation to the OECD Agriculture and Trade Directorate, April 25, 2012.
- Hertel, T.W., based on a paper with N.S. Diffenbaugh, M. Scherer, and M. Verma. “Implications of Climate Volatility for Corn Markets under Alternative Energy Futures”, presentation to Department of Economics Environmental Economics seminar series, Stanford University, February 2, 2012.
- Hertel, T., W. (2011) “The Global Supply and Demand for Land in 2050: A Perfect Storm?”, AAEA Presidential Address, American Journal of Agricultural Economics 93(2):259-275.
- Hertel, T.W., based on a paper with N.S. Diffenbaugh, M. Scherer, and M. Verma. “Implications of Climate Volatility for Agricultural Commodity Markets under Alternative Energy Futures”, theme day presentation to the International Agricultural Trade Research Consortium, St. Petersburg, Florida, December 11, 2011.
- Hertel, T.W., based on a paper with D. Lobell and M. Verma. “Biophysical vs. Economic Uncertainty in the Analysis of Climate Change Impacts on Poverty”, Invited Presentation, American Geophysical Union meetings, San Francisco, December 5, 2011.
- Hertel, T.W., based on a paper with U. Baldos. “Economic Factors Influencing the Food, Fuel, Environment Trilemma”, Invited Presentation, American Geophysical Union meetings, San Francisco, December 7, 2011.
- Hertel, T., W. and Uris Baldos. “Analyzing the Trilemma Facing World Agriculture: Food, Fuel and the Environment”, presentation to the School of Environmental and Earth Systems Science, Stanford University, November 2, 2011.
- Hertel, T., W., Uris Baldos and Jevgenijs Steinbuks. “Analyzing the Trilemma Facing World Agriculture: Food, Fuel and the Environment”, presentation to the Snowmass Conference on Integrated Assessment Modeling, July 27, 2011.
- Hertel, T., W., Noah Diffenbaugh, Monika Verma, Martin Scherer, and Jayson Beckman. “Implications of Climate Volatility for Agricultural Commodity Markets under Alternative Energy Futures”, presentation at the DOE annual meeting of PI’s working on climate change, Washington, DC, September 21, 2011.
- Hertel, T., W., “Recent Developments in the GTAP Data Base with Applications to Climate Change Impacts and Policies”, presentation to the Center on Decisionmaking under Uncertainty, University of Chicago, September 22, 2011.

- Hertel, T., W., “Some Lessons from 20 years of Multi-Institution Research Collaboration”, presentation to NAAEA organized symposium, AAEA annual meetings, Pittsburgh, July, 2011.
- Hertel, T., W., Noah Diffenbaugh, Monika Verma, and Jayson Beckman. “Implications of Climate Volatility for Agricultural Commodity Markets under Alternative Energy Futures”, presentation at the 14<sup>th</sup> Annual Conference on Global Economic Analysis, Venice, June 14, 2011.
- Hertel, T., W., and Nelson Villoria, “GEOSHARE: Geospatial Open Source Hosting of Agriculture, Resource and Environmental Data”, seminar and discussion at the World Bank, April 25, 2011.
- Hertel, T., W., based on work with Alla Golub and Ben Henderson, “The Effects of Greenhouse Gas Mitigation Policies on Global Agriculture and Food Security”, presented to the Workshop on CGE Analysis, Waikato University, Hamilton, New Zealand, February 2, 2011.
- Hertel, T., W. (2011) “Assessing the Extensive Margin: The Supply and Demand for Global Cropland in 2050”, Distinguished Fellows Address, presented to the Annual Meetings of the Australian Agricultural and Resource Economics Society, Melbourne, Australia, February 11, 2011.
- Hertel, T., W., M. Verma and D. Lobell (2010) “Biophysical and Economic Uncertainty in the Analysis of Climate Change Impacts on Agriculture”, presented at the American Geophysical Union meetings, San Francisco, December 14, 2010.
- Hertel, T., W. (2010) “Estimating the Gains from Trade due to Variety: Discussion”, presented at the 30<sup>th</sup> Anniversary celebration of the International Agricultural Trade Research Consortium, Berkeley, CA, December 12, 2010.
- Hertel, T., W. (2010) “A Spatially Explicit, Global, Open-Source Database for Analysis of Agriculture Forestry and the Environment”, presented to the Third Annual meeting of the Integrated Assessment Modeling Consortium, Washington, D.C., October 29, 2010.
- Hertel, T., W. (2010) “The Global Supply and Demand for Land in 2050: A Perfect Storm?”, presented at The World Bank, October 28, 2010.
- Hertel, T., W. and S. Rosch (2010) “Climate Change, Agriculture and Poverty”, presented to the Dyson School of Applied Economics and Management, Cornell University, September 22, 2010.
- Hertel, T., W. (2010) “The Global Supply and Demand for Land in 2050: A Perfect Storm?”, presented to the Cornell Institute for International Food and Agricultural Development, September 22, 2010.
- Hertel, T., W. and S. Rosch (2010) “Climate Change, Agriculture and Poverty”, presented on the theme day of the International Agricultural Research Consortium meetings, June 27, University of Hohenheim, Germany.
- Hertel, T., W. (2010) “The Global Supply and Demand for Land in 2050: A Perfect Storm?”, Presidential Address presented at the 100<sup>th</sup> annual meetings of the AAEA, July 26, Denver.

- Hertel, T.W. and J. Beckman “Biofuels, Structural Change and Commodity Market Volatility”, the EAAE Seminar on Structural Change in Agriculture, April 16, 2010.
- Hertel, T.W. and J. Beckman “Implications of Biofuels for Commodity Market Price Volatility”, presented to NBER Agricultural Economics Workshop, Cambridge, Mass., March 5, 2010.
- Hertel, T.W. “Climate Change, Agriculture and Poverty”, presented to Conference on the Future of Agriculture in Tanzania, Dar es Salaam, Tanzania, February 24, 2010.
- Hertel, T.W. “The Distributional Impact of Climate Policy: Discussion”, Conference on Climate Policy Impacts, Resources for the Future, January 20-21, 2010.
- Hertel, T.W. “Global Economic and Environmental Impacts of Biofuels”, Fanning Memorial Lecture, College of Agriculture, University of Georgia, November 13, 2009.
- Hertel, T.W. “Global Data Base Infrastructure for Long Run Analysis of Agriculture, Climate and the Environment”, Session organized for the second meeting of the UK Science Advisor’s Foresight Project, ERS/USDA, Washington, DC, November 9, 2009.
- Hertel, T.W. “Climate Volatility and Poverty Vulnerability: An Overview”, presented at the World Bank Workshop on Climate, Agriculture and Poverty, Washington, DC, October 19, 2009.
- Hertel, T.W. “Alan Deardorff’s Contributions to Computational Analysis of International Trade”, presented at the Alan Deardorff Festschrift, Ann Arbor, October 2, 2009.
- Hertel, T.W. “Climate Volatility and Poverty Vulnerability”, presented at the Inter-American Development Bank, Washington, DC, September 15, 2009.
- Hertel, T.W. “Analysis of Global Land Use Impacts of Corn Ethanol: Future Research Needs”, Presented to the USDA-USDOE Technical Advisory Committee on Biofuels, Washington, DC, September 15, 2009.
- Hertel, T.W. “Key Issues in Analyzing the Global Poverty Impacts of Biofuel Mandates”, presented in a Mini-Symposium on Biofuels and the Poor, IAAE meetings, Beijing, August 18, 2009.
- Hertel, T.W. and F. Taheripour. “Analyzing the Poverty Impacts of Biofuel Mandates”, presented in an Invited Panel Session on Biofuels, IAAE meetings, Beijing, August 21, 2009.
- Hertel, T.W. “Analyzing the Poverty Impacts of Biofuel Mandates”, presented at the 12<sup>th</sup> Annual Conference on Global Economic Analysis, Santiago, Chile, June 12, 2009.
- Hertel, T.W. “Assessing the Global Land Use Impacts of Biofuels: Strengths and Limitations of the GTAP Framework”, testimony presented to the California Air Resources Board, April 23, 2009.
- Hertel, T.W. “Climate Volatility and Poverty Vulnerability”, presented at the University of California-Berkeley, Berkeley, CA, April 22, 2009.

- Hertel, T.W. “Climate Volatility and Poverty Vulnerability”, presented at Stanford University, Palo Alto, CA, April 21, 2009.
- Hertel, T.W. “Modeling Competition for Land in the Context of Energy and Climate Policy”, presented to the EPA Forum on GHG Modeling for Forestry and Agriculture, Washington, D.C., April 6-8, 2009.
- Hertel, T.W. “Global Poverty Impacts of Biofuels”, presented to the Farm Foundation Conference on Trade and Policy Impacts of Biofuels, Washington, D.C., March 30, 2009.
- Hertel, Thomas W., “Long Run Projections of Global Agricultural Activity using GTAP”, presented to the UK Science Advisor’s Foresight Project on the Future of the Global Food System, London, UK, March 9, 2009.
- Hertel, Thomas W. (with Wolfgang Britz), “Impacts of EU Biofuel Directives on Global Markets and Environmental Quality”, presented to the Conference on Agriculture and Environmental Sustainability, Egmond aan See, The Netherlands, March 11, 2009.
- Hertel, T.W. “Global Land Use Impacts of Biofuels”, US-EPA modeling workshop on biofuels regulations, Washington, DC, January 6, 2009.
- Hertel, T.W. “Global Poverty Impacts of Biofuels”, presented to the International Agricultural Trade Research Consortium, Phoenix, Arizona, December 7, 2008.
- Hertel, T.W. “Future Directions for Agricultural Trade Modeling at the OECD”, OECD Agricultural Directorate, Paris, December 1, 2008.
- Hertel, T.W. “Lessons for Trade Policy Analysis Capacity Building: The GTAP Experience”, presented to the World Trade Organization Workshop on Trade Capacity Building, Geneva, Oct. 6, 2008.
- Hertel, T.W. “Global Land Use Impacts of Biofuels”, presented to Sciencetech, Indianapolis, IN, Sept. 22, 2008.
- Hertel, T.W. “Global Economic Analysis at Purdue: The Role of GTAP”, presented to West Lafayette Area Learning Association, Oct. 13, 2008.
- Hertel, T.W. “Determining the Effects of US Biofuels on Global Land Use”, based on joint work with D. Birur, F. Taheripour and W.E. Tyner, presented to the California Air Resources Board, Sacramento, California, June 30, 2008.
- Hertel, T.W. “Indirect Land Use Impacts of Biofuels Programs”, based on joint work with D. Birur, F. Taheripour and W.E. Tyner, presented to the Conference on Lifecycle Analysis of Biofuels, University of California at Berkeley, July 2, 2008.
- Hertel, T.W. “Implications of US and EU Biofuels for Global Land Use”, based on a joint paper with W.E. Tyner and D. Birur, presented to the Global Bio-Energy Partnership, The United Nations Foundation, Washington, D.C., March 7, 2008.

- Hertel, T.W. “Working at the Extensive Margin of CGE Analysis”, Plenary paper presented to the EAAE Conference on Modeling Agriculture and Rural Development Policies, Sevilla, Spain, January 29, 2008.
- Hertel, T.W. “The Biofuels Boom: Implications for World Food Markets”, based on a joint paper with D. Birur and W.E. Tyner, presented at the IATRC meetings, Washington, D.C., January 9, 2008.
- Hertel, T.W. “The Biofuels Boom: Implications for World Food Markets”, based on a joint paper with D. Birur and W.E. Tyner, presented to a joint OECD/Netherlands Food Economy Conference, The Hague, October 18, 2007.
- Hertel, T.W. “Distributional Effects of WTO Agricultural Reforms in Rich and Poor Countries”, based on a joint paper with R. Keeney, M. Ivanic and L. A. Winters, presented to the United Nations Economic Commission on Latin America, Santiago, Chile, January 19, 2007.
- Hertel, T.W. “Asian Agricultural Production and Trade: Prospects for 2025”, based on a joint paper with A. Golub and C. Ludena, presented at the conference on *Shaping the Future: Prospects for Asia’s Long Term Development over the Next Two Decades*, Asian Development Bank, Bangkok, Thailand, December 11, 2006.
- Hertel, T.W. “The Role of Firms in International Trade: Implications for CGE Analysis”, presentation at a RIETI workshop, Tokyo, Japan, December 15, 2006.
- Hertel, T.W. “Analyzing the Long Run Supply and Demand for Land”, based on a joint paper with A. Golub and B. Sohngen, presented to the Energy Modeling Forum Annual Meetings on Climate Change Policy, Tsukuba, Japan, December 14.
- Hertel, T.W., H. Lee, S. Rose and B. Sohngen, “The Role of Global Land Use in Determining Green House Gas Mitigation Costs”, presented to the Energy Modeling Forum Annual Meetings on Climate Change Policy, Tsukuba, Japan, December 14.
- Hertel, T.W. “The Role of Firms in International Trade: Discussion”, Theme Day of the International Agricultural Trade Research Consortium, St. Petersburg, Florida, December 3, 2006.
- Hertel, T. W., based on a paper with J.H. Grant and T.F. Rutherford. “Disaggregated Analysis of US Dairy Liberalization: Options for Reforming Tariff Rate Quotas”, presented to the annual meetings of the International Agricultural Trade Research Consortium, St. Petersburg, Florida, December 4, 2006.
- Hertel, T.W. “Distributional Effects of WTO Agricultural Reforms in Rich and Poor Countries”, based on a joint paper with Roman Keeney, Maros Ivanic and L. Alan Winters, presented to the 44<sup>th</sup> Economic Policy Panel, Helsinki, Finland, October 21, 2006.
- Hertel, T.W. “Distributional Effects of WTO Agricultural Reforms in Rich and Poor Countries”, based on a joint paper with Roman Keeney, Maros Ivanic and L. Alan Winters, presented to the IFPRI Policy Seminar, Washington, DC, November 2, 2006.

- Hertel, T. W., based on a paper with J.H. Grant and T.F. Rutherford. “Disaggregated Analysis of US Dairy Liberalization: Options for Reforming Tariff Rate Quotas”, presented to ERS/USDA, Washington, DC, November 3, 2006.
- Grant, J.H., Hertel, T. W. and T.F. Rutherford. “Extending GE Analysis to the Tariff Line: Analyzing the Impacts Reforming Dairy Trade”, presented to the 9<sup>th</sup> Annual Conference on Global Economic Analysis, Addis Ababa, Ethiopia, June 15, 2006.
- Grant, J.H., Hertel, T. W. and T.F. Rutherford. “Extending GE Analysis to the Tariff Line: Analyzing the Impacts Reforming Dairy Trade”, presented to the Australian Productivity Commission, Melbourne, Australia, August 11, 2006.
- Grant, J.H., Hertel, T. W. and T.F. Rutherford. “Extending GE Analysis to the Tariff Line: Analyzing the Impacts Reforming Dairy Trade”, invited panel presentation at the meetings of the International Association of Agricultural Economists, Brisbane, Australia, August 14, 2006.
- Hertel, T.W. and M. Ivanic. “Understanding the Poverty Implications of the Doha Development Agenda”, presentation to the Poverty and Economic Policy Conference, Addis Ababa, Ethiopia June 19, 2006.
- Hertel, T.W. and M. Ivanic. “Understanding the Poverty Implications of the Doha Development Agenda”, presentation to the Centre of Policy Studies, Monash University, Melbourne, Australia, August 14, 2006.
- Hertel, T.W. “Four lectures on trade and poverty”, presented at the University of Copenhagen, June 9, 2006.
- Hertel, T. W., A. Golub, C. Ludena, H. Lee, N. Ramankutty and R. Thompson. “Economic Growth and Structural Change: Implications for Food, Agriculture and Poverty”, presented at the Asian Development Bank, Manila, Philippines, February 13, 2006.
- Hertel, T.W. “Poverty Impacts of a WTO Agreement”, presented at a seminar organized by UNCTAD-India, New Delhi, India, February 15, 2006.
- Ludena, C., T. W. Hertel, K. Foster and P.V. Preckel. 2005. “Productivity Growth and Convergence in Crop, Ruminant and Non-ruminant Production: Measurement and Forecasts”, presented at the Asian Development Bank meeting on Long Run Projections for Asia, Manila, Philippines, November 10- 11, 2005.
- Hertel, T.W., 2005. “Understanding the Poverty Implications of the Doha Development Agenda”, AEM Seminar, Cornell University, October 10.
- Hertel, T.W., 2005. “Twelve Propositions for Effective Policy Analysis”, presented at the 75<sup>th</sup> Anniversary celebration of the International Association of Agricultural Economists, October 8 – 9, Cornell University, Ithaca, N.Y.
- Hertel, T.W., 2005. “Poverty Impacts of a WTO Agreement”, organized session selected paper presented at the AAEEA meetings, Providence, Rhode Island.



Valenzuela, E., M. Ivanic, C. Ludena and T.W. Hertel, 2005. "Agricultural Productivity Growth: Is the Current Trend On-track for Poverty Reduction?", selected paper presented at the AAEA meetings, Providence, Rhode Island.

Hertel, T.W., 2005. "Poverty Impacts of a WTO Agreement", presented at Institute for World Economy, Kiel, Germany, June 14.

Hertel, T.W., 2005. "Poverty Impacts of a WTO Agreement", Organized session: Eighth Annual Conference on Global Economic Analysis, Lubeck, Germany.

Hertel, T.W., 2005. "Poverty Impacts of a WTO Agreement", presented at the German Marshall Fund, Washington, D.C., April 12.

Hertel, T.W., 2005. "Poverty Impacts of a WTO Agreement", presented at the Woodrow Wilson Center for International Scholars, Washington, D.C., April 15.

Hertel, T.W., 2005. "Poverty Impacts of a WTO Agreement", presented at the WTO during the World Bank's LDC Week, Geneva, April 8.

Hertel, T.W., 2005. "Poverty Impacts of a WTO Agreement", presented to a conference organized by the Trade and Industrial Policy Strategies think tank, Pretoria, South Africa, April 6.

Hertel, T.W., 2005. "Poverty Impacts of a WTO Agreement", presented to the UN Economic Commission for Africa's meeting in Maputo, Mozambique, April 5.

Hertel, T.W., 2005. "Poverty Impacts of a WTO Agreement", presented to the Third World Conference, Chicago, Illinois, March 25.

Hertel, T.W., and L. Alan Winters, 2005. "Poverty Impacts of a WTO Agreement", presented to members of the European Parliament and the European Commission, Brussels, March 14.

Hertel, T.W., 2005. "Poverty Impacts of a WTO Agreement", presented to the OECD Trade Committee, Paris, March 10.

Hertel, T.W., 2005. "Poverty Impacts of a WTO Agreement", presented to Science Po University, Paris, March 11.

Hertel, T.W., 2005. "Poverty Impacts of a WTO Agreement", presented to the US International Trade Commission, Washington, D.C., March 3.

Hertel, T.W. and L. Alan Winters, 2005. "Poverty Impacts of a WTO Agreement", presented at the World Bank, Washington, D.C., February 22.

The Balance between Domestic Support, Market Access and Export Competition: Where do Developing Country Interests Lie?" presented at a conference on Agricultural Trade Reform and the Doha Development Agenda, December 1.

- Hertel, T.W., and R. Keeney, 2004. "The Balance between Domestic Support, Market Access and Export Competition: Where do Developing Country Interests Lie?" presented at a conference on Agricultural Trade Reform and the Doha Development Agenda, December 1.
- Hertel, T.W., and R. Keeney, 2004. "The Balance between Domestic Support, Market Access and Export Competition: Where do Developing Country Interests Lie?" presented at a conference on Agricultural Trade Reform and the Doha Development Agenda, December 1.
- Hertel, Thomas W., 2004. "Future Prospects for Meat Products Trade with China" presented to the Indiana Soybean and Pork Associations, March 23.
- Hertel, Thomas W., Maros Ivanic, Paul V. Preckel and John Cranfield, 2003. "Short- vs. Long-run Impacts of Trade Liberalization on Poverty" presented at the OECD Global Agricultural Forum, Paris, December 10 – 11.
- Hertel, Thomas W., Maros Ivanic, Paul V. Preckel and John Cranfield, 2003. "Multilateral Trade Liberalization and Poverty" presented at the FAO, Rome, December 12.
- Hertel, Thomas W., 2003. "Multilateral Trade Liberalization and Poverty: Research Issues" presented at the Workshop on Agricultural Trade Liberalization and the Poor, Resources for the Future, Washington, D.C., November 3-4, 2003.
- Hertel, Thomas W., Maros Ivanic, Paul V. Preckel and John Cranfield, 2003. "Multilateral Trade Liberalization and Poverty" presented at the Center for Global Development/Global Development Network Conference on Quantifying the Impact of Rich Countries' Policies on Poor Countries, Institute for International Economics, Washington, D.C., October 23-24, 2003.
- Hertel, Thomas W. 2003. "Do US Trade Policies Affect Poverty in Developing Countries?" presentation to the "Town and Gown" seminar series, Lafayette Indiana, April 25, 2003.
- Hertel, Thomas W., Maros Ivanic, Paul V. Preckel and John Cranfield, 2003. "Multilateral Trade Liberalization and Poverty in Indonesia" presented as part of the International Scientific Conference in celebration of the Jan Tinbergen, the first Nobel Laureate in Economics, Erasmus University, April 10, 2003.
- Hertel, Thomas W., Maros Ivanic, Paul V. Preckel and John Cranfield, 2003. "Multilateral Trade Liberalization and the Structure of Poverty in Developing Countries" presented as part of the Conference on Globalization and Poverty, Cornell University, Ithaca, NY, April 11-12, 2003.
- Hertel, Thomas W., Terrie Walmsley and Ken Itakura, 2002. "Dynamic Effects of the 'New Age' Free Trade Agreements" presented to the Economic Research Department of the Central Bank of Chile, Santiago, July 5.
- Hertel, Thomas W., Paul V. Preckel, John Cranfield and Maros Ivanic, 2002. "Poverty Impacts of Multilateral Trade" presented at the OECD Global Agricultural Forum, Paris, May 24.

- Hertel, Thomas W., 2002. "Product Differentiation and Market Structure in CGE Models of International Trade" presented to the pre-conference Learning Workshop at the Fifth Annual Conference on Global Economic Analysis, Taipei, Taiwan, June 4.
- Hertel, Thomas W., Paul V. Preckel, John Cranfield and Maros Ivanic, 2002. "Poverty Impacts of Multilateral Trade" presented at the Fifth Annual Conference on Global Economic Analysis, Taipei, Taiwan, June 6.
- Hertel, Thomas W., Paul V. Preckel, John Cranfield and Maros Ivanic, 2002. "Poverty Impacts of Multilateral Trade" presented at the World Bank, Washington, D.C., May 6.
- Hertel, Thomas W., 2001. "Putting Trade Models on the Web: Experience from the Global Trade Analysis Project" presented to the International Agricultural Trade Research Consortium, Tucson Arizona, December, 2001.
- Hertel, Thomas W., Paul V. Preckel and Jeffrey J. Reimer, 2001. "Trade Policy, Food Price Variability and the Vulnerability of Low Income Households" presented to the International Agricultural Trade Research Consortium, Tucson Arizona, December, 2001.
- Hertel, Thomas W. 2001. "Comments on 'Globalization: Civil and Cultural Conflicts' by Ron Jones" presented to the International Agricultural Trade Research Consortium, Tucson Arizona, December, 2001.
- Hertel, Thomas W., Paul V. Preckel, John Cranfield and Maros Ivanic, 2001. "Poverty Impacts of Multilateral Trade Liberalization" presented to the Conference on Impacts of Trade Liberalization Agreements on Latin America and the Caribbean, Inter-American Development Bank, November 5, Washington, D.C.
- Hertel, Thomas W., Paul V. Preckel, John Cranfield and Maros Ivanic, 2001. "Poverty Impacts of Multilateral Trade Liberalization," Plenary Paper presented to the annual meetings of the German Agricultural Economics Society (GeWiSola), Braunschweig, Germany, October 8.
- Hertel, Thomas W., Paul V. Preckel, John Cranfield and Maros Ivanic, 2001. "Poverty Impacts of Multilateral Trade Liberalization" presented to a workshop in the Department of Managerial and Applied Economics, Cornell University, September 28.
- Sicular, Terry, Yaohui Zhao and Thomas W. Hertel, 2001. "Employment, Earnings and the Labor Market Impacts of China's WTO Accession" presented at a workshop on the Poverty Impacts of China's WTO Accession, The World Bank, Beijing, China, October 26.
- Hertel, Thomas W., Fan Zhai and Zhi Wang, 2001. "Implications of WTO Accession for Poverty in China" presented at a workshop on the Poverty Impacts of China's WTO Accession, The World Bank, Beijing, China, October 26.
- Hertel, Thomas W., Terrie Walmsley and Ken Itakura, 2001. "Dynamic Effects of the 'New Age' Free Trade Agreement between Japan and Singapore" presented to the Ministry of Economy, Trade and Industry, Tokyo, Japan, September 4.

- Hertel, Thomas W., 2001. "Economic Analysis of Trade and Poverty" Plenary paper presented to the Development Economics Studies Group Conference, Nottingham, U.K., April 5.
- Hertel, Thomas W., 2000. "Current and Future Developments in Global Economic Analysis using GTAP" presented at the Mitsubishi Research Institute, Tokyo, Japan, December 15.
- Hertel, Thomas W., Terrie Walmsley and Ken Itakura, 2000. "Analysis of Japan's Potential Free Trade Agreements" presented to the Ministry of International Trade and Industry (MITI), Tokyo, Japan, December 14.
- Hertel, Thomas W., 2000. "Evolving Patterns of Integration in the North American Market and the Impact of NAFTA" presented to the conference on North American Integration and its Impact on the Food and Fiber System, Washington, D.C. November 6-7.
- Hertel, Thomas W., Paul V. Preckel, and John A. Cranfield, 2000. "Multilateral Trade Liberalization and Poverty Reduction" presented to the Conference on Trade Poverty, sponsored by GLOBKOM and the World Bank, Stockholm, Sweden, October 20-21.
- Nin, Alejandro and Thomas W. Hertel, 2000. "Likely Impacts of Technological Progress in Livestock Production on Global Patterns of Trade," panel paper presented at the meetings of the International Association of Agricultural Economists, Berlin, August 13.
- Walmsley, Terrie and Thomas W. Hertel, 2000. "China's Accession to the WTO: Timing is Everything" presented to the conference on Global Economic Transformation after the Asian Crisis, May 26-28, Chinese University of Hong Kong.
- Hertel, Thomas W., 2000. "Future Developments in Global Economic Analysis using GTAP" presented at the Department of Economics, Chinese University of Hong Kong, May 26.
- Hertel, Thomas W., 2000. "China's Accession to the WTO" presented at Guangdong University of Foreign Studies, Guangzhou, China, May 24.
- Hertel, Thomas W., 2000. AA Global Perspective on Regional Integration in North America@ presented to the Sixth Annual Mexico/Canada/US Conference on Trade Liberalization, San Diego, CA, February 16-18.
- Hertel, Thomas W., 1999. AGTAP: A tool for analyzing agricultural trade@ seminar presented to the Workshop on Modeling Agricultural Policy, Federal Agricultural Research Center, Braunschweig, Germany.
- Hertel, Thomas W., 1999. APotential Gains from Reducing Trade Barriers in Manufacturing, Agriculture and Services@ presented at the St. Louis Federal Reserve Bank=s Policy Conference on the Next WTO Round, St. Louis, October 21-22.
- Elbehri, Aziz, Merlinda Ingco, Thomas W. Hertel and Kenneth Pearson, 1999. "Agriculture and WTO2000: Quantitative Assessment of Multilateral Liberalization of Agricultural Policies" presented at the 1999 Global Conference on Agriculture and the New Trade Agenda from a Development Perspective, held at the World Trade Organization, Geneva, October 1-2.

Hertel, Thomas W., Kym Anderson, Joseph Francois and Will Martin, 1999. "Agriculture and Non-agricultural Liberalization in the Millennium Round" presented at the 1999 Global Conference on Agriculture and the New Trade Agenda from a Development Perspective, held at the World Trade Organization, Geneva, October 1-2.

Hertel, Thomas W. and Will Martin, 1999. "Would Developing Countries Gain from Inclusion of Manufactures in the WTO Negotiations?" presented at the Conference on WTO and the Millennium Round, held at the World Trade Organization, Geneva, September 20-21.

Hertel, Thomas W., Alejandro Nin-Pratt, Allan N. Rae and Simeon Ehui, 1999. "Productivity growth and catching-up: Implications for China's trade in livestock products" presented at the International Agricultural Trade Research Consortium Meetings on China, San Francisco, June 25-26.

Hertel, Thomas W. and Philip Paarlberg, 1999. "WTO Negotiations: A Global View" presented at the WTO listening session, held by the US Trade Representative's Office and the US Dept. of Agriculture, Indianapolis, June 24.

Hertel, Thomas W., Alejandro Nin-Pratt, Allan N. Rae and Simeon Ehui, 1999. "Productivity growth and catching-up: Implications for China's trade in livestock products" presented at the Second Annual Conference in Global Economic Analysis, Fuenen, Denmark, June 20-22.

Hertel, Thomas W., Melanie Bacou, and Channing Arndt, 1999. "Learning Applied General Equilibrium Analysis from a Distance: An Introduction to GTAP-Online" presented at poster session of the Second Annual Conference in Global Economic Analysis, Fuenen, Denmark, June 20-22.

Hertel, Thomas W., Elena Ianchovichina and Robert McDougall, 1999. "A Disequilibrium Model of International Capital Mobility" presented at the Second Annual Conference in Global Economic Analysis, Fuenen, Denmark, June 20-22.

Hertel, Thomas W. and Aziz Elbehri, 1999. "Economic Integration, Market Structure and Growth Dynamics: Implications for Morocco's Free Trade Agreement with the European Union" presented at the Second Annual Conference in Global Economic Analysis, Fuenen, Denmark, June 20-22.

Hertel, Thomas W. and Will Martin, 1999. "Developing Country Interests in Liberalizing Manufactures Trade" presented at the Second Annual Conference in Global Economic Analysis, Fuenen, Denmark, June 20-22.

Hertel, Thomas W., 1999. "Using GTAP to Analyze Agricultural Trade Liberalization in the Next WTO Round" presented to an UNCTAD workshop on agricultural trade modeling, Geneva, Switzerland, March 25.

Hertel, Thomas W., 1999. "Increasing Third World Involvement in the Analysis and Negotiation of International Trade Policies" presented at the 25<sup>th</sup> Third World Conference, Chicago, Illinois, March 20.

- Hertel, Thomas W. and Will Martin, 1999. ADeveloping Country Interests in Manufacturing Trade Liberalization@ presented at the Centre for Economic Policy Research (CEPR) Conference on WTO2000, London, England, February 19-20.
- Hertel, Thomas W. 1998. APreparation for the Next WTO Round: Discussant Comments@ presented at the annual meetings of the International Agricultural Research Consortium, St. Petersburg, December 14.
- Ianchovichina, E., Thomas W. Hertel and Robert A. McDougall 1998. AThe Asian Financial Crisis: Implications for North American Food and Agriculture@ presented at the annual meetings of the International Agricultural Research Consortium, St. Petersburg, December 14.
- Rae, Allan, and Thomas W. Hertel 1998. AAsia-Pacific Grains and Livestock Markets in 2005: The Influence of Livestock Productivity Convergence,@ presented at the annual meetings of the International Agricultural Research Consortium, St. Petersburg, December 14.
- Hertel, Thomas W. 1998. AGTAP: A Vehicle for Analysis of Global Trade and Environment Issues@ presented in Santiago, Chile at the Fifth Biannual Conference of Ecological Economics, November 17.
- Hertel, T.W., 1998. "Understanding the Determinants of Structural Change in World Food Markets" presentation at the LEI/DLO, The Hague, The Netherlands, July, 1998.
- Hertel, Thomas W., William A. Masters, and Aziz Elbehri, 1998. AThe Uruguay Round and Africa: A Global, General Equilibrium Analysis@ paper presented at the Global Bureau, USAID, Washington, D.C., May, 1998.
- Randhir, Timothy O. and Thomas W. Hertel, 1997. ATrade Liberalization as a Vehicle for Adapting to Global Warming@ presented at the annual meetings of the International Agricultural Trade Research Consortium in San Diego, CA, December 15.
- Hertel, Thomas W., William A. Masters, and Aziz Elbehri, 1997. AThe Uruguay Round and Africa: A Global, General Equilibrium Analysis@ presented in Paris at the DIAL/PARADI conference on general equilibrium modeling for development, September 3.
- Hertel, Thomas W., 1997. AApplied General Equilibrium Analysis of Agricultural and Resource Policies@ presented at the University of Illinois, April 3.
- Hertel, Thomas W., Kym Anderson, Betina Dimaranan, and Will Martin, 1996. AAsia-Pacific Food Markets and Trade in 2005: A Global Economy-wide Perspective@ presented at the New Zealand Institute for Economic Research, December 13.
- Arndt, Channing T., Thomas W. Hertel, Betina Dimaranan, Karen Huff, and Robert A. McDougall, 1996. AChina in 2005: Implications for the Rest of Asia@ presented at Massey University and the Institute of Policy Studies in Wellington, New Zealand, December 3 and 5, and at the Centre of Policy Studies, Monash University, Australia, December 12.

- Arndt, Channing T., Thomas W. Hertel, Betina Dimaranan, Karen Huff, and Robert A. McDougall, 1996. "China in 2005: Implications for the Rest of Asia" presented at the conference on Empirical Investigations in International Trade, Purdue University, November 17.
- Arndt, Channing T., Thomas W. Hertel, Betina Dimaranan, Karen M. Huff, and Robert A. McDougall, 1996. "Implications of China's Growth for the Rest of the World" presented at the European Association of Agricultural Economists Seminar in Giessen, Germany, October 15-17.
- Brockmeier, Martina, Thomas W. Hertel, and Padma Swaminathan, 1996. "Integration of the Central European Economies into the European Union" presented at the European Association of Agricultural Economists Seminar in Giessen, Germany, October 15-17.
- Hertel, Thomas W., Martina Brockmeier, and Padma Swaminathan, 1996. "Sectoral and Economy-wide Analysis of Integrating Central and East European (CEE) Countries into the European Union (EU): Implication of Alternative Strategies" presented at the Dutch Central Planning Bureau, The Hague, October 14.
- Hertel, Thomas W., Christian Bach, Betina Dimaranan, and Will Martin, 1995. "Growth, Globalization and the Gains from the Uruguay Round" paper presented at the fifth annual conference of CGE Modelers, Waterloo, Ontario, October 27.
- Hertel, Thomas W. and Channing Arndt, 1995. "The Impact of Macroeconomic Uncertainty on Projected Patterns of Trade and Welfare in the Year 2005" presented at the World Bank, October 16.
- Arndt, Channing, Thomas W. Hertel, Karen Huff and Robert McDougall, 1995. "China in 2005: Implications for the rest of Asia" presented at the Asian Development Bank, Manila, December 8, and at the East-West Center, Honolulu, January 10.
- Hertel, Thomas W., Betina Dimaranan, Will Martin, and Koji Yanagishima, 1995. "Liberalizing Manufactures Trade in a Changing World Economy" presented at the World Bank's conference on *The Uruguay Round and the Developing Economies*, January 26, 1995.
- Hertel, Thomas W., 1994. "Procompetitive Effects of Trade Policy Reform," National Chengchi University and Academia Sinica, Taipei, Taiwan, December 6.
- Hertel, Thomas W., 1994. "Geography and the Gains from Trade Policy Reform," (based on a paper coauthored with Steve McCorrison), National Chengchi University, Taipei, Taiwan, December 3.
- Hertel, Thomas W., 1994. "Economic Growth and Future Patterns of Trade and Production for Taiwan" presented at the Council of Agriculture, National Taiwan University, and the Council of Economic Planning and Development, Taipei, Taiwan, December 2-3.
- Hertel, Thomas W., 1994. "Geography and the Distribution of Gains from Trade Policy Reform" presented at the 1994 Conference on Empirical Methods in International Trade, Purdue University, November 12.

- Hertel, Thomas W., 1994 "Overview of the Global Trade Analysis Project" presented at the fourth annual Conference on Applied General Equilibrium Analysis, Waterloo, Ontario, Canada, October 27.
- Ianchovichina, E.I., Thomas W. Hertel, and James Binkley, 1994. "Estimating the Procompetitive Effects of Foreign Capitalization" paper presented at the fourth annual Conference on Applied General Equilibrium Analysis, Waterloo, Ontario, Canada, October 27.
- Hertel, Thomas W., 1994. "Economic Growth and the Prospects for Trade in the Pacific Rim" seminar presented at IFPRI, Washington, D.C., October 12.
- Hertel, Thomas W., 1994. "Taking IMPACT Abroad: The Global Trade Analysis Project" presented at the IFAC meetings, Amsterdam, June 8.
- Hertel, Thomas W., 1994 "Geography and the Distribution of Gains from Trade Policy Reform" seminar presented at the Ohio State University on May 19.
- Hertel, Thomas W., 1994. "Economywide Analysis of the GATT Agreement" seminar presented at Kansas State University, March 29.
- Hertel, Thomas W., 1993. "Structure of the Standard GTAP Model," based on a paper coauthored Marinos Tsigas, presented at the International Agricultural Trade Research Consortium Meetings, San Diego, CA, December 12.
- Hertel, Thomas W., 1993. "Endogenous Product Differentiation and Trade Policy: Implications for the US Food Industry," based on a paper with Kent Lanclos, presented at the Institut d'Economie Industrielle's Conference on Agricultural Markets: Mechanisms, Failures and Regulations, Toulouse, France, October 21.
- Hertel, Thomas W., 1993. "Geography and the Gains from Trade Policy Reform," the European Commission, Brussels, October 19.
- Hertel, Thomas W., 1993. "The Competitiveness of US Food Exports in the Japanese Market," NC-194 Conference on New Developments in Industrial Organization of the Food Industry, Indianapolis, April 7, 1993, also presented at ERS/USDA, Washington, D.C., September 1.
- Hertel, Thomas W., 1993. "Nitrogen-Land Substitution in Corn Production," based on a paper with Kyle Stiegert and Harry Vroomen, RTD/ERS/USDA, May 12.
- Hertel, Thomas W., 1993. "Applied General Equilibrium Analysis of Agriculture, the Environment and Natural Resources," Cornell University, April 22.
- Hertel, Thomas W., 1992. "Trade Policy Reform in the Presence of Product Differentiation and Imperfect Competition: Implications for Food Processing Activity," based on a paper with Kent Lanclos, presented to the 31st European Association of Agricultural Economists Seminar, Frankfurt, Germany, December 7, 1992, subsequently also presented at the annual meetings of the International Agricultural Trade Research Consortium, Tampa, December 15.



- Hertel, Thomas W., 1991. "Applied General Equilibrium Analysis of International Agricultural Trade: A Primer," introductory/overview paper presented at the CGE theme day of the International Agricultural Trade Research Consortium, New Orleans, December 12.
- Hertel, Thomas W., 1992. "Multilateral Trade Liberalization in the Presence of Imperfect Competition: Are We Understating the Gains?," University of Wisconsin at Madison, August 31.
- Hertel, Thomas W., 1992. "Towards a Common Framework for Applied General Equilibrium Analysis of Global Issues," Economic Research Service agency-wide seminar, July 15.
- Hertel, Thomas W., 1992. "Procompetitive Effects of Trade Policy Liberalization in a Small, Open Economy," presented at North Carolina State University, February 10.
- Hertel, Thomas W., 1991. "Reforming the European Community's Common Agricultural Policy: Who Stands to Gain?" (based on a paper with Mark Gehlhar and Robert McDougall), presented at the conference entitled: "Analytical and Negotiating Issues in GATT," Ann Arbor, Michigan, October 31, also presented at the University of Minnesota, January 15, 1992.
- Hertel, Thomas W., 1991. "Assessing the Effects of Trade Policy in the Presence of Imperfect Competition," University of Melbourne, CGE Workshop, May 2 and 8, also presented to the Australian National University, Department of Economics, May 16, and to The World Bank, Washington, DC, June 28.
- Hertel, Thomas W., 1991. "Mending the Family Tree: A Reconciliation of the Linearization and Levels Schools of Applied General Equilibrium Analysis," (based on a paper with J. Mark Horridge and Kenneth R. Pearson), presented at the Economic Research Service, USDA, Washington, DC, June 27.
- Hertel, Thomas W., 1991. "Trading Off Agricultural and Nonagricultural Protection: Results from the SALTER Model of World Trade," presented at the University of Sydney, Department of Agricultural Economics, May 30.
- Hertel, Thomas W., 1991. "Mending the Family Tree: A Reconciliation of the Linearization and Levels Schools of Applied General Equilibrium Analysis," (based on a paper with J. Mark Horridge and Kenneth R. Pearson), presented at the Australian Conference on AGE Modeling, May 27.
- Hertel, Thomas W., 1991. "Global Implications of Agricultural Trade Liberalization," Department of Agricultural Economics, University of New South Wales, Armidale, February 15, 1991, also presented to the Australian Agricultural Economics Society, Canberra Branch, Canberra, February 20.
- Hertel, Thomas W., 1991. "Adding Value to Traditional Models of International Agricultural Trade," (based on a paper with Everett B. Peterson and Marinos E. Tsigas), presented at the annual meetings of the Australia Agricultural Economics Society, Armidale, N.S.W., February 13.
- Hertel, Thomas W., 1990. "Voluntary Program Participation with Heterogeneous Endowments: A Model of the U.S. Wheat Sector," (based on a paper with Marinos E. Tsigas and Paul V. Preckel), given in the Economics Departmental Seminar, La Tribe University, October 12.

- Hertel, Thomas W., 1990, "Modeling the U.S. Sugar Program," (based on a paper with C. Mathew Rendleman), presented at the CGE Modeling Workshop, University of Melbourne, October 4.
- Hertel, Thomas W., 1990. "The U.N. Bilateral Trade Data Set: Can It Be Saved?," (based on a paper co-authored with Marinos E. Tsigas and James Binkley), presented at the Conference of Economists in Sydney, Australia, September 26.
- Hertel, Thomas W., 1990. "Implications of OECD Agricultural Trade Liberalization," Economic Policy Workshop, University of Melbourne, September 21.
- Hertel, Thomas W., 1990. Marinos E. Tsigas, and Paul V. Preckel, paper entitled "Unfreezing Program Payment Yields: Consequences and Alternatives," presented at Purdue University, February 14; ERS/USDA, March 6; Virginia Polytechnic and State University, March 8.
- Hertel, Thomas W., 1990. "Global Implications of Reforming Agricultural Trade," presented at Wabash College, January 23.
- Hertel, Thomas W., Trien Nguyen, Carlo Perroni, Marinos E. Tsigas, and Randall Wigle, 1989. "Developing a Data Base for Multilateral, General Equilibrium Analysis," presented at the meetings of the International Agricultural Trade Research Consortium, Clearwater Beach, FL, December.
- Hertel, Thomas W., Marinos E. Tsigas, and Paul V. Preckel, 1989. "Program Yields and U.S. Crop Production: How Important is the Freeze?," presented at the University of Chicago, December 7.
- Hertel, Thomas W., 1989. "Agricultural Trade Liberalization and the LDCs: A Survey of Models and Results," presented at the World Bank/OECD conference on Agricultural Trade Liberalization and The Developing Countries, Paris, October 5.
- Hertel, Thomas W., 1989. "Applied General Equilibrium Analysis of Agricultural Policies," presented at the NBER conference on Applied General Equilibrium Modeling, San Diego, September 9.
- Hertel, Thomas W., 1989. "Twelve Truths About Supply Control," presented to the Food and Agriculture Committee of the National Planning Association, April 28.
- Hertel, Thomas W., 1989. "General Equilibrium Analysis of U.S. Agriculture: What Have We Learned and How Can We Teach It?," presented at ERS/USDA, January 18, 1989, also presented at the University of Missouri, March 21, 1989.
- Hertel, Thomas W., 1989. "Policy Modeling for U.S. Agriculture: The Virtues of Neoclassical Theory," presented at Cornell University, January 13.
- Hertel, Thomas W., 1988. "General Equilibrium Analysis of Policies Affecting U.S. Agriculture: What Have We Learned?," presented at Purdue University, November 25.

- Hertel, Thomas W., 1988. Poster paper entitled "Reducing Agricultural Support: Long Run Implications for Output, Exports, Employment and Land Rents," presented at the meetings of the International Association of Agricultural Economists, Buenos Aires, Argentina, August 26.
- Hertel, Thomas W., 1988. "Negotiating Reductions in Agricultural Support Under the GATT: Implications of Technology and Factor Mobility," presented at the Federal University of Vicosa, Vicosa, Brazil, August 18.
- Hertel, Thomas W., Robert L. Thompson and Marinos E. Tsigas, 1988. "Economywide Effects of Unilateral Trade and Policy Liberalization in U.S. Agriculture," presented at a conference titled "Agricultural Policies and the Non-farm Economy" at the American Enterprise Institute, Washington, DC, May 26.
- Hertel, Thomas W. and Marinos E. Tsigas, 1988. "Factor Market Implications of Trade Policy Liberalization," presented at the University of Western Ontario, London, Ontario, May 6.
- Hertel, Thomas W., 1988. "Changing the Level and Mix of Subsidies to U.S. Agriculture: Implications for Output, Employment, and Land Rents," presented at ERS/USDA, Washington, DC, January 20.
- Hertel, Thomas W. and Paul V. Preckel, 1987. "Commodity Price Effects of the Conservation Reserve Program," presented at the NCR-111 Committee Meeting on the Conservation Title of the 1985 Farm Bill, St. Louis, MO, June 9.
- Hertel, Thomas W., 1987. "Policy Liberalization in U.S. Agriculture," presented at the GATT Agricultural Policy Modeling Workshop, Centre for the Study of International Economic Relations, University of Western Ontario, Canada, May 8.
- Hertel, Thomas W. and Marinos E. Tsigas, 1987. "Tax Policy and U.S. Agriculture: A General Equilibrium Analysis," presented at the National Bureau of Economic Research Conference on Applied General Equilibrium Modeling, Stanford, CA, May 2.
- Hertel, Thomas W. and Marinos E. Tsigas, 1987. "General Equilibrium Analysis of Supply Control in U.S. Agriculture," presented at ERS/USDA, Washington, DC, February 17.
- Hertel, Thomas W. and Paul V. Preckel, 1986. "Summary Functions in Resource Economics: Application to the Conservation Reserve Program," presented for the Economic Research Service, U.S. Department of Agriculture, Washington, DC, October 6.
- Hertel, Thomas W., 1985. "General Equilibrium Aspects of Resource Adjustment," presented to NCR-111 Committee on Natural Resource Policy, Chicago, IL, June 13.
- Hertel, Thomas W., 1985. "General Equilibrium Analysis of Agricultural Policy," presented at a seminar for the Economic Research Service, U.S. Department of Agriculture, Washington, DC, April 23.
- Hertel, Thomas W., and Paul V. Preckel, 1985. "The Application of Summary Functions in Natural Resource Policy Analysis," presented at a seminar for the Economic Research Service, U.S. Department of Agriculture, Washington, D.C., April 22.

## **8. Poster Presentations**

Sriver, Ryan, Iman Haqiqi, Thomas Hertel, and Wolfram Schlenker 2018. “Assessing the Suitability of NASA Earth Exchange Global Daily Downscaled Projections (NEX-GDDP) Dataset for Coupled Human-Environment Analysis,” poster presented at the US-DOE, Office of Science/BER PI workshop, Washington, D.C., November 6.

Haqiqi, Iman, Thomas Hertel, Wolfram Schlenker and Danielle Grogan, 2018. “Climate, Soil Moisture, and Yield: A Fine-Scale Analysis of Climate and Land Interactions,” poster presented at the US-DOE, Office of Science/BER PI workshop, Washington, D.C., November 6.

Valqui, Brayam, Mort Webster, Shanxia Sun, Thomas Hertel and Jing Liu, 2018. “Coupled Energy-Water-Agriculture Dynamics: Biomass Co-Firing in the MISO region,” poster presented at the US-DOE, Office of Science/BER PI workshop, Washington, D.C., November 6.