

CURRICULUM VITAE

ALLA A. GOLUB

Department of Agricultural Economics
Purdue University
403 West State Street
West Lafayette, IN, 47907
(765-586-0601)
golub@purdue.edu

Education

- Ph.D. Agricultural Economics Purdue University, West Lafayette, IN, USA, 2006
Thesis: “Projecting the Global Economy in the Long Run: a Dynamic General Equilibrium Approach”
- M.S. (Hon.) Economics State University – Higher School of Economics, Moscow, Russia, 1999
- B.S. (Hon.) Economics Moscow State University of Civil Engineering, Moscow, Russia, 1997

Professional Experience

- 08/08- Research Economist, Center for Global Trade Analysis, Department of Agricultural Economics, Purdue University
- 08/06- Post-doctoral Research Associate, Center for Global Trade Analysis, Department of
08/08 Agricultural Economics, Purdue University
- 09/04- Graduate Research Assistant, Center for Global Trade Analysis, Department of Agricultural
08/06 Economics, Purdue University
- 06/04- Consultant / Statistician Booz Allen Hamilton, Cleveland, USA (summer internship)
08/04
- 08/01- Graduate Research Assistant, Department of Agricultural Economics, Purdue University
05/04
- 01/01- Teaching Assistant, Department of Agricultural Economics, Purdue University
05/02

Research Grants and Awards

- 01/15 Award from Food and Agriculture Organization of the United Nations to analyse global economic impacts of Russian restrictions on food imports
- 01/15 Research Grant from USDA “Will Global Change Jeopardize the US Forest Carbon Sink?”

- 12/13 Award from Commonwealth Scientific Industrial Research Organization titled “Development of GHG Emissions Scenarios with Dynamic GTAP Model”
- 12/10 Award from US Department of Energy to Develop a Dynamic Version of GTAP-E Model to Analyse US and Global Carbon Pricing Policies
- 12/10 Award from Food and Agriculture Organization of United Nations to Analyze Effect of Climate Mitigation Policies on Livestock Sectors (Phase II)
- 12/10 Award from Electric Power Research Institute to Analyze Offsets Market Potential
- 12/10 Award from Electric Power Research Institute to Develop a Dynamic Global CGE Model to Analyze Interactions between Energy and Climate Change Policies
- 12/09 Award from Food and Agriculture Organization of United Nations to Analyze Effect of Climate Mitigation Policies on Livestock Sectors (Phase I)

Publications

1. Refereed Journal Articles

Plevin, R.J., J. Beckman, A. Golub, J. Witcover, and M. O’Hare. 2015. Carbon accounting and economic model uncertainty of emissions from biofuels-induced land use change. *Environmental Science & Technology*, 49(5):2656–2664.

Irfanoglu, B., J. Sesmero, and A. Golub. 2015. Potential of Border Tax Adjustments to Deter Free Riding in International Climate Agreements. *Environmental Research Letters*, 10(2):024009.

Hussein, Z., T. Hertel and A. Golub. 2013. Climate Change Mitigation Policies and Global Poverty. *Environmental Research Letters* doi:10.1088/1748-9326/8/3/035009.

Villoria, N., A. Golub, D. Byerlee, and J. Stevenson. 2013. Will Yield Improvements on the Forest Frontier Reduce Green House Gas Emissions? A Global Analysis of Oil Palm. *American Journal of Agricultural Economics* 95 (5): 1301-1308.

Rose, S., A. Golub, B. Sohngen. 2013. Total Factor and Relative Agricultural Productivity and Deforestation. *American Journal of Agricultural Economics* 95 (2): 426-434.

Golub, A., B. Henderson, T. Hertel, P. Gerber, S. Rose and B. Sohngen. 2012. Global Climate Policy Impacts on Livestock, Land Use, Livelihoods and Food Security. *Proceedings of the National Academy of Sciences* doi:10.1073/pnas.1108772109.

Golub, A., and T. Hertel. 2012. Modeling Land Use Change Impacts of Biofuels in the GTAP-BIO Framework. *Climate Change Economics* doi: 10.1142/S2010007812500157

Avetisyan, M., A. Golub, T. Hertel, S. Rose, B. Henderson. 2011. Why a Global Carbon Policy Could Have a Dramatic Impact on the Pattern of the Worldwide Livestock Production. *Applied Economic Perspectives and Policy* 33(4):584-605.

Hertel, T.W., A. Golub, A.D. Jones, M. O'Hare, R.J. Plevin, D.M. Kammen. 2010. Global Land Use and Greenhouse Gas Emissions Impacts of U.S. Maize Ethanol: Estimating Market-Mediated Responses. *BioScience* 60(3):223-231.

Golub, A., T.W. Hertel, H-L. Lee, S. Rose and B. Sohngen. 2009. The Opportunity Cost of Land Use and the Global Potential for Greenhouse Gas Mitigation in Agriculture and Forestry. *Resource and Energy Economics* 31(4): 299-319.

Golub, A., and T.W. Hertel. 2008. Global Economic Integration and Land Use Change. *Journal of Economic Integration* 23(3):463-488.

Binkley, J., and A. Golub. 2011. Consumer Demand for Nutrition versus Taste in Four Major Food Categories, *Agricultural Economics* 42(1):65-74.

Binkley, J., and A. Golub. 2007. Comparison of Grocery Purchase Patterns of Diet Soda Buyers to Those of Regular Soda Buyers. *Appetite* 49(3):561-571.

2. Book Chapters

Golub, A., T. Hertel, and S. Rose. "Global Land Use Impacts of US Ethanol: Revised Analysis Using Dynamic GTAP-BIO framework". Book chapter prepared for inclusion in Handbook of Bioenergy Economics and Policy: Modeling Land use and Greenhouse Gas Emissions Implications, edited by Madhu Khanna and David Zilberman (forthcoming).

Golub, A., and R. McDougall. 2012. Behavioral and Entropy Parameters in the Dynamic GTAP Model, in Ianchovichina, E. and T. Walmsley (eds), *Global Economic Analysis: Dynamic Modeling and Applications*. Cambridge University Press, 71-119.

Golub, A., and T. Hertel. 2012. Global Economic Integration and Land Use Change, in Ianchovichina, E. and T. Walmsley (eds), *Global Economic Analysis: Dynamic Modeling and Applications*. Cambridge University Press, 290-311.

Golub, A., and R.McDougall. 2012. Household Saving Behavior in GDyn: Evaluation and Revision, in Ianchovichina, E. and T. Walmsley (eds), *Global Economic Analysis: Dynamic Modeling and Applications*. Cambridge University Press, 379-405.

Golub, A., T W. Hertel, F. Taheripour and W. E. Tyner. 2010. Modeling Biofuels Policies in General Equilibrium: Insights, Pitfalls and Opportunities, in Gilbert, J. (ed), *Frontiers of Economics and Globalization*. Emerald Group Publishing, 7: 153-184.

Golub, A., T. Hertel, and B. Sohngen. 2009. Land Use Modelling in Recursively-Dynamic GTAP Framework, in Hertel, T., S. Rose, and R. Tol (eds), *Economic Analysis of Land Use in Global Climate Change Policy*. Routledge, 235-278.

Sohngen, B., A. Golub, and T. Hertel. 2009. The Role of Forestry in Carbon Sequestration in General Equilibrium Models, in Hertel, T., S. Rose, R. Tol (eds), *Economic Analysis of Land Use in Global Climate Change Policy*. Routledge, 279 – 303.

Hertel, T. W., C. E. Ludena, and A. Golub. 2009. Economic Growth, Technological Change and Patterns of Food and Agricultural Trade in Asia, in Zhai, F. (ed), *From Growth to Convergence: Asia's Next Two Decades*. Palgrave MacMillan, 175-204.

3. Other Publications

Golub, A., and B. Narayanan. 2015. "Analysis of Russian Imports Restrictions with GTAP model". Report submitted to Food and Agriculture Organization of the United Nations.

Golub, A. 2013. "Analysis of Climate Change Policies with GDyn-E". GTAP Technical Paper # 32, Purdue University, West Lafayette, IN, USA.

Golub, A. 2013. Impact of the expanded production of biofuels on non-CO2 GHG emissions. A note prepared for California Air Resource Board.

Taheripour, F., A. Golub, and W. Tyner. 2011. Calculation of Indirect Land Use Change (ILUC) Values for Low Carbon Fuel Standard (LCSF) Fuel Pathways. Interim report prepared for California Air Resource Board.

Witzke, P., Fabiosa, J., Gay, S. H., Golub, A., Havlik, P., Msangi, S., Tokgoz, S., and Searchinger, T. 2010. A Decomposition Approach to Assess ILUC Results from Global Modeling Efforts. Contributed Paper at the IATRC Public Trade Policy Research and Analysis Symposium, Stuttgart-Hohenheim, Germany (June).

Golub, A., B. Henderson, T. Hertel, S. Rose, M. Avetisyan, and B. Sohngen. 2010. Effects of GHG Mitigation Policies on Livestock Sectors. GTAP working paper 62, Purdue University, West Lafayette, IN, USA.

Hertel, T. W., C. E. Ludena, and A. Golub. 2006. Economic Growth, Technological Change and Patterns of Food and Agricultural Trade in Asia. ERD Working Paper No. 86, Asian Development Bank.

Golub, A., C. A. Wilson, and A. M. Featherstone. 2005. The Effects of Starlink Corn Food Safety Events on Returns and Risk of Agribusiness Firms. Staff Paper #05-08, Department of Agricultural Economics, Purdue University.

Detre, J. D., and A. Golub. 2004. A Reexamination of the Profitability of Price Fixing Using Stock Price Movement: Has New Antitrust Legislation Been a More Effective Deterrent of Price Fixing? Staff Paper #04-03, Department of Agricultural Economics, Purdue University.

Presentations

Cai, Y., A. Golub, T. Hertel, K. Judd. "Agricultural R&D Policy under Climate and Economic Uncertainty". Selected Paper, Agricultural and Applied Economics Association Annual Meeting, Boston, MA, USA, August 2016.

Golub, A., and B. Narayanan. "Global Economic Impacts of Russian Restrictions on Food Imports". Selected Paper, Agricultural and Applied Economics Association Annual Meeting, Boston, MA, USA, August 2016.

_____ Paper presented at the International Agricultural Trade Research Consortium, Clearwater Beach, FL, December 2015.

Golub, A., Y. Cai, T. Hertel, and J. Steinbuck. “Energy Price Uncertainty and Global Land Use”. Selected Poster, Agricultural and Applied Economics Association Annual Meeting, San Francisco, CA, USA, July 2015.

Golub, A., T. Hertel and S. Rose. “Global Land Use Impacts of U.S. Ethanol: Static vs. Dynamic Economic Modeling”. Selected Paper, Agricultural and Applied Economics Association Annual Meeting, Minneapolis, MN, USA, August 2014.

Golub, A., T. Hertel and S. Rose. “Effects of Environmental and Energy Policies on Long Run Patterns of Land Use”. 15th Annual Conference on Global Economic Analysis, Shanghai, China, June 2012.

Golub, A., T. Hertel and S. Rose. “Effects of Environmental and Energy Policies on Long Run Patterns of Land Use”. Selected Poster, Agricultural and Applied Economics Association Annual Meeting, Seattle, Washington, USA, August 2012.

Golub, A., B. Henderson, and T. Hertel. “GHG Mitigation Policies in Livestock Sectors: Competitiveness, Emission Leakage and Food Security”. Selected Paper, Agricultural and Applied Economics Association Annual Meeting, Pittsburgh, Pennsylvania, USA, July 2011.

_____ Selected Paper, 30th International Energy Workshop, Stanford, Palo Alto, July 2011.

Golub, A., T. Hertel, and K. Sarica. “Analysis of climate policies with GDyn-E”. Selected paper, 14th Annual Conference on Global Economic Analysis, Venice, Italy, June 2011.

Golub, A., B. Henderson, T. Hertel, S. Rose, B. Sohngen. “The Role of Agriculture and Forestry in Greenhouse Gas Mitigation Policy”. Presented at the INFORMS 2010 Annual Meeting, Austin, TX, November 2010. (Invited)

Golub, A., B. Henderson, T. Hertel, S. Rose, M. Avetisyan, and B. Sohngen. “Effects of GHG Mitigation Policies on Livestock Sectors”. Selected Paper, International Agricultural Trade Research Consortium Annual Meeting, Berkeley, CA, December 2010.

Golub, A., B. Henderson, T. Hertel, S. Rose, and B. Sohngen. “Modeling the Heterogeneous Effects of GHG Mitigation Policies on Global Agriculture and Forestry”. Presented at the American Geophysical Union Fall Meeting, San Francisco, CA, December 2010.

Golub, A., T. Hertel, S. Rose, B. Sohngen. “Global Interactions between Bioenergy and Climate Policies”. Selected Paper, Agricultural and Applied Economics Association Annual Meeting, Denver, Colorado, USA, July 2010.

Golub, A., B. Henderson, T. Hertel, S. Rose, B. Sohngen, M. Avetisyan. “Effects of GHG Mitigation Policies on Livestock Sectors”. Selected paper, 13th Annual Conference on Global Economic Analysis, Penang, Malaysia, June 2010.

Golub, A. “The combustion-based CO₂ emissions data for GTAP data base”. Presented at the Center for Global Trade Analysis Advisory Board Meeting, Penang, Malaysia, June 2010.

Golub, A., T. Hertel, S. Rose, B. Sohngen, M. Avetysian. "The Relative Role of Land in Climate Policy", Selected Paper, Agricultural and Applied Economics Association Annual Meeting, Milwaukee, Wisconsin, USA, July 2009.

Golub, A., T. Hertel, S. Rose and B. Sohngen. "Biofuel Growth: Global Greenhouse Gas Emissions Impacts from Changes in Forest Carbon Stocks", Selected Paper, American Agricultural Economics Association Annual Meeting, Florida, Orlando, USA, July 2008.

Golub, A., T. Hertel, S. Rose and B. Sohngen. "Biofuels Mandates, Land Use and Global Greenhouse Gas Emissions", Selected Paper, 11th Annual Conference on Global Economic Analysis, Helsinki, Finland, June 2008.

Golub, A., T. Hertel, and B. Sohngen. "Projecting Supply and Demand for Land in the Long Run", Selected Paper, American Agricultural Economics Association Annual Meeting, Portland, Oregon, USA, July 2007.

Golub, A., T. Hertel, and B. Sohngen. "Projecting Land-Use Change in the Dynamic GTAP Framework". Selected Paper, 10th Annual Conference on Global Economic Analysis, West Lafayette, Indiana, USA, June 2007.

Golub, A., and R. McDougall. "New Household Saving Behavior in the Dynamic GTAP Model". Selected Paper, 9th Annual Conference on Global Economic Analysis, Addis Ababa, Ethiopia, June 2006.

Golub, A., T. Hertel, H.-L. Lee, and N. Ramankutty. "Modeling Land Supply and Demand in the Long Run". Selected Paper, 9th Annual Conference on Global Economic Analysis, Addis Ababa, Ethiopia, June 2006.

Golub, A., and J. Binkley. "Determinants of Household Choice of Breakfast Cereals: Healthy or Unhealthy?" Selected Paper, American Agricultural Economics Association Annual Meeting, Providence, Rhode Island, USA, July 2005.

Golub, A., T. Walmsley, T. W. Hertel and E. Ianchovichina. "Capital Mobility Parameters in the Dynamic GTAP Model", Selected Paper, 8th Annual Conference on Global Economic Analysis, Lubeck, Germany, June 2005.

Detre, J. D., and A. Golub. "The Profitability of Price-fixing: Have Stronger Antitrust Sanctions Deterred?" Presented at the 2005 International Industrial Organization Conference in Atlanta, Georgia, USA, April 2005.

Golub, A., J. Henderson and K. Foster. "Does Rural Job Growth Lead the Economy out of Recession?" Selected Paper, American Agricultural Economics Association Annual Meeting, Denver, Colorado, USA, August 2004.

Tanner Ehmke, M., A. Golub, A. L. Harbor and M. D. Boehlje. "Real Option Analysis for Investment in Organic Wheat and Barley Production in South Central North Dakota Using Precision Agriculture Technology". Selected Paper, American Agricultural Economics Association Annual Meeting, Denver, Colorado, USA, August 2004.

Golub, A., C. A. Wilson and A. M. Featherstone. "Who Cares about GMO Foods? Not Wall Street." Selected Paper, IAMA World Food and Agribusiness Conference in Montreux, Switzerland, June 2004.

Seminars

"Global Climate Policy Impacts on Livestock, Land Use, Livelihoods and Food Security". Based on joint work with Benjamin Henderson (FAO), Thomas Hertel (Purdue), Pierre Gerber (FAO), Steve Rose (EPRI) and Brent Sohngen (OSU). Presented at the Food Security and Environment seminar series, Stanford University, Palo Alto, CA, October 2011.

"Modeling Biofuels Policies in General Equilibrium: Insights, Pitfalls and Opportunities". Based on joint work with Thomas Hertel, Farzad Taheripour and Wallace Tyner. Presented at workshop "Economic Models of Land Use and Biofuels" at University of Illinois, Champaign, IL, September 2010.

"Effects of GHG Mitigation Policies on Livestock Sectors". Based on joint work with Thomas Hertel (Purdue), Benjamin Henderson (FAO), Steve Rose (EPRI) and Misak Avetisyan (Purdue). Presented at the Food and Agricultural Organization of United Nations, Rome, Italy, April 2010.

"Calculation of the Effects of Increased Demand for Biofuel Feedstock on the World Agricultural Markets: Intermediate Results and Characteristics of the GTAP model". Presented at the workshop organized by European Commission Joint Research Centre, Ispra, Italy, February 2010.

"The Opportunity Cost of Land Use and the Global Potential for Greenhouse Gas Mitigation in Agriculture and Forestry". Based on joint work with Thomas Hertel, Huey-Lin Lee, Steve Rose and Brent Sohngen. Presented at Purdue University, USA, November 2009.

"Global Land Use and Greenhouse Gas Emissions Impacts of U.S. Corn Ethanol: The Role of Market-Mediated Responses". Based on joint work with Thomas Hertel (Purdue), Andrew Jones, Michael O'Hare, Richard Plevin and Daniel Kammen (UC Berkeley). Presented at Massey University, New Zealand, August 2009, and at Ohio State University, USA, September 2009.

Professional Activities

2009- Expert consultation provided to US and EU regulatory agencies on the indirect land use change current (ILUC) effects from increased biofuels production

Peer reviewer for the following journals: *Land, Energy Economics, Journal of Global Economic Analysis, Wiley Interdisciplinary Reviews: Energy and Environment, Agricultural Economics.*

Teach static and dynamic GTAP model short courses offered by the Center for Global Trade Analysis, Department of Agricultural Economics, Purdue University.

Professional Membership

Agricultural and Applied Economics Association (AAEA)