

Angelo Costa Gurgel, University of Sao Paulo Brazil

Dr. Angelo Gurgel is a Professor of University of Sao Paulo (USP) in Brazil and a Research Associate of the MIT Joint Program of the Science and Policy of Global Change. He has a Ph.D. in Applied Economics from the Federal University of Viçosa in Brazil and a B.A. in Agricultural Engineering from the same institution. During his Ph.D. Program he spent one year in the Department of Economics at University of Colorado at Boulder developing the Computable General Equilibrium (CGE) Model used in his Ph.D. Thesis. His professional experience includes some consulting projects for institutions as the World Bank, the Research Association of the Large Scale Experiment of Biosphere-Atmosphere in Amazon, and the Agency for Development of The Amazon Region. Also, a three year post-doc position at the MIT Joint Program on the Science and Policy of Global Change. He has reviewed the official letter from the Brazilian Sugarcane Industry Association to CARB about the sugarcane pathway under the LCFS.

Dr. Gurgel initiated his academic career working with CGE modeling applied to trade policy and poverty analysis and agricultural economics. Recently, he has been working with the representation of land use change in global CGE models and economic implication of biofuels, as also with recursive dynamic and forward-looking CGE modeling applied to cost effectiveness analysis of climate change policy. He is the coordinator of two projects founded by the Brazilian National Council for Scientific and Technological Development to study the impacts of policies to mitigate climate change on the Brazilian economy. He also collaborates in two projects in development at the MIT Joint Program on the Science and Policy of Global Change related to the economic and environmental trade-offs between food, forestry and fuel production, as also to the integration of economic models an biophysical-terrestrial systems to study climate change and design policies to help mitigation and adaptation. Dr. Gurgel expertise includes Agricultural Economics, Computable General Equilibrium Modeling, Land Use and Land Use Change Modeling, Climate Change Policy, Economics of Biofuels and Energy Markets Modeling.

For a review of selected papers Dr. Gurgel has published, visit http://works.bepress.com/angelo_gurgel/.

December - 2009

Angelo Costa Gurgel
Professor of Economics

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PERSONAL

Born: August 30th, 1974, Brasília - DF - Brazil

Social security number: 653-14-9196

EDUCATION

Ph.D. Applied Economics

Universidade Federal de Viçosa - MG - Brazil, 2002.

February 1997 to February 2002

Dissertation: *Economic and distributive impacts of changes in trade relations of Brazilian economy under economies of scale.* (available only in Portuguese)

Advisor: Prof. Dr. Antônio Carvalho Campos

Scholarship from CNPq (The National Council for Scientific and Technological Development)

Visiting Scholar

University of Colorado, Boulder, 2001.

September 2000 to August 2001

Concentrations: Applied General Equilibrium Modeling, International Trade.

Advisor: Prof. Dr. Thomas F. Rutherford

Scholarship from CAPES foundation

B.A. Agronomic Engineering

Universidade Federal de Viçosa - MG - Brazil, 1997.

February 1992 to February 1997

EXPERIENCE

Professor of Economics (full-time)

School of Economics, Business and Accounting of Ribeirão Preto, Department of Economics, University of São Paulo.

Courses: Developing Economics, International Economics, Microeconomic Theory.

Research fields: Economics of climate change and climate change policies,

Economics of Biofuels, Land use Change, Applied General Equilibrium Modeling,

Trade policy options for Brazil and Mercosur, Trade Impacts on Agriculture, Income

Distribution and Poverty

August 2004 - actual

Postdoctoral Associate (full-time)

Joint Program on the Science and Policy of Global Change, Massachusetts Institute of Technology. Economic modeling, Climate policy, Biofuels and land use change

January 2006 – December 2008

Professor of Economics (full-time)

College of Managerial Economics – UNA, Belo Horizonte - Brazil.

Courses: Macroeconomic Theory, Microeconomic Theory, Brazilian Contemporary Economy, Economy of Tourism. Research fields: Trade Integration impacts and the Brazilian Agribusiness; Economy of tourism.

August 2002 - July 2004

Professor of Economics (part-time)

School of Law of Leopoldina - FADIL.

Course: Introduction to Economics.

February - July 2002

CONSULTING AND ADVISORY EXPERIENCE

Consultant, Research Association of the Large Scale Experiment of Biosphere-Atmosphere in the Amazon - APLBA

Review of the study: "Economics of Climate Change in Brazil" coordinated by the University of Sao Paulo, Brazilian Research Institute of Applied Economics, The World Bank, and financed by the Global Opportunity Fund.

March - June 2009

Advisor, Brazilian Sugar Cane Industry Association - UNICA

Advisor on the UNICA's letter to the California Air Resource Board about the "Low Carbon Fuel Standard", regarding its methodology to assess land use changes.

February - June 2009

Short Term consultant, The World Bank, Washington DC

Project to assess the impacts of investments in the Brazilian transportation sector.

January 2007- March 2007

Consultant, Agency for Development of The Amazon Region and Federal University of Viçosa, Brazil

Economics Impacts of the Export Promotion at the Amazon Region

July 2005 - February 2006

Consultant, Brazilian Cooperative Organization

Program for strengthens of the incidence of the Brazilian cooperatives in the process of regional integration.

April - August 2005

Consultant, Fundação João Pinheiro (Minas Gerais State Agency of Development)

Tourism at the Jequitinhonha Valley: profile, expenses, actual and potential demand.

July 2003 - February 2004.

Consultant, Fundação João Pinheiro (Minas Gerais Sate Agency of Development) and SEBRAE-MG (Brazilian Micro and Small Business Support Service)

Complemental analyses in the project: "Employment and income in the tourism and leisure sector of Minas Gerais".

November - December 2003

Short Term Consultant, The World Bank, Washington DC

Project to assess the impacts of Brazilian trade policies.

September 2001- June 2002

PUBLICATIONS

▪ Scientific Papers Published at Reviews and Journals

Year	Description
2010	GURGEL, A. C., Impacts of American biofuels policy on the agricultural production and land use. Revista de Economia e Agronegócio (<i>Review of Economics and Agribusiness</i>), 2010. (available only in Portuguese) (in press)
2010	GURGEL, Â. C., BIALOSKORSKI NETO, S., BRAGA, M. B., Impacts of commercial agreements on soya beans, coffee, poultry and pork meats export of the Brazilian agricultural cooperatives. Revista de Economia e Agronegócio (<i>Review of Economics and Agribusiness</i>), 2010. (available only in Portuguese) (in press)
2009	MELILLO, J. M., REILLY, J. M., KICKLIGHTER, D. W., GURGEL, A. C., CRONIN, T.W., PALTSEV, S., FELZER, B. S., WANG, X., SOKOLOV, A. P., SCHLOSSER, C. A. Indirect Emissions from Biofuels: How Important? Science , v. 326, p. 1397 - 1399, 2009.
2009	BABIKER, M., GURGEL, A., PALTSEV, S., REILLY, J. Forward-looking versus recursive-dynamic modeling in climate policy analysis: a comparison. Economic Modelling , v. 26, p. 1341 - 1354, 2009.
2009	TYLER, W., GURGEL, A. C. Brazilian trade policies: some observed and estimated effects of the 1990's. Estudos Econômicos (<i>Economic Studies</i>), v.39, p.59 - 88, 2009.
2008	PALTSEV, S., REILLY, J. M., JACOBY, H. D., GURGEL, A. C., METCALF, G. E., SOKOLOV, A. P., HOLAK, J. F. Assessment of US GHG cap-and-trade proposals. Climate Policy , v.8, p.395 - 420, 2008.
2008	ANTOINE, B., GURGEL, A., REILLY, J. M. Will Recreation Demand for Land Limit Biofuels Production?. Journal of Agricultural & Food Industrial Organization , v.6, Article 5, 2008.
2007	GURGEL, A. C. Impacts of trade integration on the familiar agriculture in Brazil. Pesquisa e Planejamento Econômico (<i>Economic Research and Planning</i>), v.37, p.21 - 74, 2007. (available only in Portuguese)
2007	GURGEL, A. C., REILLY, J. M., PALTSEV, S. Potential land use implications of a global biofuels industry. Journal of Agricultural & Food Industrial Organization , v.5, Article 9, 2007.
2006	GURGEL, A. C. Impacts of agriculture trade liberalization in the Doha Round. Revista Brasileira de Economia (<i>Brazilian Review of Economics</i>), v. 60, p. 133-151, 2006. (available only in Portuguese)
2006	GURGEL, A. C., CAMPOS, A. C. Evaluation of trade policies under alternative assumptions about returns to scale in general equilibrium models. Estudos Econômicos (<i>Economic Studies</i>), v. 36, n. 2, 2006. (available only in Portuguese)

Year	Description
2004	HARRISON, G. W., RUTHERFORD, T. F., TARR, D. G., GURGEL, A. Trade policy and poverty reduction in Brazil. The World Bank Economic Review , v. 18, n.3, p.289-317, 2004.
2003	GURGEL, A. C., CAMPOS, A. C. FTAA impacts on Brazilian agribusiness under the presence of economies of scale and imperfect competition. Pesquisa e Planejamento Econômico (<i>Economic Research and Planning</i>), v. 33, n. 3, p. 435 a 480, 2003. (available only in Portuguese)
2003	GURGEL, A. C., CAMPOS, A. C. Trade policy alternatives for the Brazilian agribusiness under different assumptions about returns to scale. Revista de Economia e Agronegócio (<i>Review of Economics and Agribusiness</i>), v. 1, n. 2, p. 133 – 154, 2003. (available only in Portuguese)
2003	HARRISON, G. W., RUTHERFORD, T. F., TARR, D. G., GURGEL, A. Regional, multilateral and unilateral trade policies of MERCOSUR for economic growth and poverty reduction in Brazil. Pesquisa e Planejamento Econômico (<i>Economic Research and Planning</i>), v. 33, n. 3, p. 1 a 60, 2003. (Available only in Portuguese)
2002	GURGEL, A. C., BITENCOURT, M. B., TEIXEIRA, E. C. Impacts of trade liberalization agreements between economic blocks: FTAA and Mercosur-EU on member countries. Revista Brasileira de Economia (<i>Brazilian Review of Economics</i>), v. 56, n. 2, p. 335 - 369, 2002. (Available only in Portuguese)
2000	GURGEL, A. C., SANTOS, F. A. A. dos. Production Relationships in the Dairy Production of Minas Gerais – 1995. Brazilian Review of Agriculture Economics and Rural Sociology , v. 38, n. 4, p. 29 - 51, 2000.

▪ Chapters in Books

Year	Description
2009	PALTSEV, S., REILLY, J., GURGEL, A. Greenhouse Gas Markets, Carbon Dioxide Credits, and Biofuels. In: S. Zarrilli (ed.), The Biofuels Market: Current Situation and Alternative Scenarios , United Nations: Geneva and New York, 2009, p. 15-27.
2009	PALTSEV, S., REILLY, J., GURGEL, A. Commercial Viability of Second Generation Biofuel Technology. In: S. Zarrilli (ed.), The Biofuels Market: Current Situation and Alternative Scenarios , United Nations: Geneva and New York, 2009, p. 29-50.
2009	GURGEL, A. C., SANTOS, M. L. dos. Equilíbrio na produção e nos mercados. In: Santos, M. L. dos, Lírio, V. S., Vieira, W. da C. (eds.), Microeconomia Aplicada , Editora UFV: Viçosa, 2009, p. 485-516.
2008	GURGEL, A. C. Biocombustíveis: Solução ou Problema? In: Coelho, A. B., Teixeira, E. C., Braga, M. J. (eds.), Recursos Naturais e Crescimento Econômico , Editora UFV: Viçosa, 2008, p. 407-434.

▪ **Scientific Papers Presented at Conferences, Meetings and Seminars**

Year	Description
2010	GURGEL, A., CRONIN, T., REILLY, J. M., PALTSEV, S., KICKLIGHTER, D. W., MELILLO, J. M. Food, Fuel, Forests and the Pricing of Ecosystem Services. In: <i>2010 Allied Social Sciences Association Annual Meeting</i> , 2010, Atlanta. (invited paper, forthcoming).
2009	GURGEL, A. C., Impacts of American biofuels policies on agricultural production and land use. In: <i>XXXIV Brazilian Meeting of Economics</i> , ANPEC, 2009, Foz do Iguaçu.
2009	ANTOINE, B., GURGEL, A., REILLY, J. M. Modelling Recreational Demand for Land. In: <i>12th Annual Conference on Global Economic Analysis</i> , GTAP, 2009, Santiago.
2009	PEREIRA, M. W. G., TEIXEIRA, E. C., GURGEL, A. C. Economic Loss to the Brazilian Regions Due to the Doha Round Failure. In: <i>12th Annual Conference on Global Economic Analysis</i> . GTAP, 2009, Santiago.
2008	REILLY, J. M., GURGEL, A. C, PALTSEV, S. Biofuels and Land Use Change, In Transition to a Bioeconomy In: <i>Transition to a Bioeconomy: Environmental and Rural Development Impacts</i> , 2008, St. Louis. <i>Transition to a Bioeconomy: Environmental and Rural Development Impacts, Proceedings of Farm Foundation/USDA Conference</i> . Oak Brook, Illinois: Farm Foundation, 2008.
2008	GURGEL, A., REILLY, J., WANG, X., MELILLO, J., KICKLIGHTER, D., PALTSEV, S., CRONIN, T., SOKOLOV, A., SCHLOSSER, A. Land use and carbon implications of a global biofuels industry in a cge model: implications of different land supply formulations. In: <i>11th Annual Conference on Global Economic Analysis</i> , Helsinki, Finland: GTAP, 2008.
2007	GURGEL, A. C. Trade agreements and their impacts on the familiar agriculture in Brazil. In: <i>10th Annual Conference on Global Economic Analysis</i> , West Lafayette: GTAP, 2007.
2007	TYLER, W., GURGEL, A. C. Responding to the Challenge of Globalization: The Case of Brazil. In: <i>XXVII International Congress of the Latin American Studies Association LASA</i> , Montreal Canada, 2007.
2006	BIALOSKORSKI NETO, S. ; GURGEL, A. C. ; BRAGA, M. B. ; BALLIEIRO, C. Impacts of international trade agreements on the exports of Brazilian agriculture cooperatives. In: <i>XLIV Brazilian Conference of Agriculture Economics and Rural Sociology</i> , 2006, Fortaleza, Annals... Fortaleza - CE: SOBER, 2006. (Available only in Portuguese)
2005	GURGEL, A. C. Potential impacts of agriculture trade liberalization and the Doha Round. In: <i>XLIII Brazilian Conference of Agriculture Economics and Rural Sociology</i> , 2005, Ribeirão Preto. Annals... Ribeirão Preto - SP: SOBER, 2005. (Available only in Portuguese)

Year	Description
2005	GURGEL, A. C. Brazilian interests on international negotiations: lessons from the general equilibrium models. In: XLIII Brazilian Conference of Agriculture Economics and Rural Sociology, 2005, Ribeirão Preto. Annals... Ribeirão Preto - SP: SOBER, 2005. (Available only in Portuguese)
2004	CAMPOS, A. C.; GURGEL, A. C. Trade policy evaluation in general equilibrium models with alternative assumptions about returns to scale. In: XXXII Brazilian Meeting of Economics, 2004, João Pessoa - PB. Annals... Belo Horizonte: Anpec, 2004. (Available only in Portuguese)
2003	GURGEL, A. C.; CAMPOS, A. C. Trade policies options to the Brazilian agribusiness under assumptions of economies of scale. In: XLI Brazilian Conference of Agriculture Economics and Rural Sociology, 2003, Juiz de Fora - MG. Annals... Juiz de Fora - MG: SOBER, 2003. (Available only in Portuguese)
2002	HARRISON, G. W; RUTHERFORD, T. F.; TARR, D.; GURGEL, A. Regional, multilateral and unilateral trade policies of MERCOSUR for growth and poverty reduction in Brazil. In: XXX Brazilian Meeting of Economics, 2002, Nova Friburgo - RJ. Annals... Nova Friburgo: Anpec, 2002. (Available only in Portuguese)
2002	GURGEL, A. C.; CAMPOS, A. C. Trade policies and its effects on agribusiness under alternative assumptions of returns to scale. In: XL Brazilian Conference of Agriculture Economics and Rural Sociology, 2002, Passo Fundo - RS. Annals... Passo Fundo: SOBER, 2002. (Available only in Portuguese)
2002	HARRISON, G. W; RUTHERFORD, T. F; TARR, D. G; GURGEL, A. Regional, multilateral and unilateral trade policies of MERCOSUR for growth and poverty reduction in Brazil. In: Fifth Annual Conference on Global Economic Analysis, 2002, Taipei - Taiwan. 2002. [http://www.gtap.agecon.purdue.edu/events/Conferences/2002/program.asp]
2002	HARRISON, G. W., RUTHERFORD, T. F., TARR, D. G., GURGEL, A. Regional, multilateral and unilateral trade policies of MERCOSUR for growth and poverty reduction in Brazil. In: DIMAC Seminar –IPEA. Rio de Janeiro, May 2002. (Available only in Portuguese)
2002	HARRISON, G. W; RUTHERFORD, T. F; TARR, D.; GURGEL, A. Pitfalls in the Evaluation of Trade Policy and Poverty. Paris: OECD, 2002. (OECD Seminar).
1999	BITENCOURT, M. B., GURGEL, A. C. and TEIXEIRA, E. C. Impacts of trade liberalization agreements on Brazilian wheat production – application of a computable general equilibrium model. In: XXVII Brazilian Meeting of Economics, 1999, Belém - PA. 1999 Annals... Belém: ANPEC, 1999, Vol. 1, p.229-246. (Available only in Portuguese)
1999	GURGEL, A. C., BITENCOURT, M. B. and TEIXEIRA, E. C. Impacts of trade liberalization agreements between economic blocks: FTAA and Mercosur-EU. In: XXVII Brazilian Meeting of Economics, 1999, Belém - PA. 1999. (Available only in Portuguese)

▪ **Other Publications**

Year	Description
2009	MELILLO, J. M., GURGEL, A. C., KICKLIGHTER, D. W., REILLY, J. M., CRONIN, T. W., FELZER, B. S., PALTSEV, S., SCHLOSSER, A., SOKOLOV, A. P., WANG, X. Unintended environmental consequences of a global biofuels program. Report n. 168. Cambridge:MIT Joint Program on the Science and Policy of Global Change, 2009.
2008	BABIKER, M., GURGEL, A. C., PALTSEV, S., REILLY, J. A Forward Looking Version of the MIT Emissions Prediction and Policy Analysis (EPPA) Model. Report n. 161. Cambridge - MA:Joint Program on the Science and Policy of Global Change, 2008.
2008	GURGEL, A. C., REILLY, J., PALTSEV, S. Potential land use implications of a global biofuels industry. Report n. 155. Cambridge:MIT Joint Program on the Science and Policy of Global Change, 2008.
2007	PALTSEV, S., REILLY, J., JACOBY, H., GURGEL, A. C., METCALF, G., SOKOLOV, A., HOLAK, J. Assessment of U.S. Cap-and-Trade Proposals. Report n. 146. Cambridge, MA, USA:MIT Joint Program on the Science and Policy of Global Change, 2007.
2007	GURGEL, A. C., PALTSEV, S., REILLY, J., METCALF, G. U.S. Greenhouse Gas Cap-and-Trade Proposals: Application of a Forward-Looking Computable General Equilibrium Model. Report n. 150. Cambridge, MA, USA:MIT Joint Program on the Science and Policy of Global Change, 2007.
2007	GURGEL, A. C., METCALF, G., OSOUF, N., REILLY, J. Computing Tax Rates for Economic Modeling: A Global Dataset Approach. Technical Note 11. Cambridge, MA, USA:Joint Program of the Science and Policy of Global Change, 2007.
2006	GURGEL, A. C. ; METCALF, G. ; REILLY, J. Comparing tax rates using OECD and GTAP6 data. Purdue: GTAP, 2006 (Joint Program on the Science and Policy of Global Change Technical Note 7 and GTAP Research Memorandum 7).
2005	HARRISON, Glenn W ; RUTHERFORD, Thomas F ; TARR, David G ; GURGEL, A. C. . Trade Policy and Poverty Reduction in Brazil. Santiago: Central Bank of Chile, Dec. 2005 (Central Bank of Chile Working Paper 348).
2003	HARRISON, G. W., RUTHERFORD, T. F., TARR, D. G., GURGEL, A. Regional, multilateral and unilateral trade policies of MERCOSUR for growth and poverty reduction in Brazil. Policy Research Working Paper 3051, 107p., May 2003.

OTHER RELEVANT ACTIVITIES AND INFORMATION

▪ Honors and Awards

Global Trade Analysis Project - GTAP - Research Fellow, 2009-2011

Ethos - Valor Award, 8^a edition, Category: professor, Sub-category: teaching plan, Instituto Ethos, UniEthos e Jornal Valor Econômico – Brazil. 2008.

Honored as the best academic performance at the B.A. course of Agronomic Engineering - Universidade Federal de Viçosa. 1997.

▪ Grants and Scholarships

Research Scholarship - Conselho Nacional de Desenvolvimento Científico e Tecnológico (The National Council for Scientific and Technological Development), “General Equilibrium Modeling to study climate change policies and its impacts on the Brazilian economy”, n. 304852/2008-2, R\$30,000.00. March 2009 - February 2011

Research Grant - Conselho Nacional de Desenvolvimento Científico e Tecnológico (The National Council for Scientific and Technological Development), “Economic Modeling to study climate change policies and its impacts on the Brazilian economy”, n. 475082/2008-7, R\$16,000.00. November 2008 – October 2010

Postdoctoral Scholarship - Conselho Nacional de Desenvolvimento Científico e Tecnológico (The National Council for Scientific and Technological Development), “Forward-Looking Modeling in Computable General Equilibrium Analysis of Environmental Policies”, n.210039/2006-0, U\$26,200.00. February 2007 - January 2008

Research Scholarship - Conselho Nacional de Desenvolvimento Científico e Tecnológico (The National Council for Scientific and Technological Development), “Impacts of trade agreements on the Brazilian Economy”, n. 300907/2004-4, R\$21,472.00. March 2005 - January 2007

Research Grant - Conselho Nacional de Desenvolvimento Científico e Tecnológico (The National Council for Scientific and Technological Development), “Impacts of trade integration on the Brazilian agriculture and economy”, n. 401478/2004-1 R\$18,000.00. April 2005 - March 2006

▪ Journal Referee

Economic Modelling (2009)

Agricultural Economics (2008)

Pesquisa e Planejamento Econômico (Economic Research and Planning), published by Instituto de Pesquisa Econômica Aplicada - IPEA (Institute for Applied Economic Research) (2002-2007)

Economia Aplicada (Applied Economics), published by the School of Economics, Business and Accounting of Ribeirão Preto, Department of Economics, University of São Paulo. (2005-2009)

▪ **Languages**

- Native language: Portuguese
- Fluent in English
- Can read and communicate in Spanish

▪ **Research Skills**

- Utilized GAMS program extensively for data handling and to build and apply Computable General Equilibrium models
- Utilized GTAP program and database extensively
- Utilized Eviews statistical program extensively

▪ **References**

The following persons are available to write letters of recommendation on my behalf:

John Reilly
Associate Director
Joint Program on the Science and Policy of Global Change
Massachusetts Institute of Technology
77 Massachusetts Ave
Bldg E19-429L
Cambridge MA 02139
Phone number: (617) 253-8040
jreilly@mit.edu

David Tarr
Lead Economist
Development Research Group
The World Bank
MSN MC 3-303
1818 H St., N.W.,
Washington D.C. 20433
Phone number: (202) 473-7677
dtarr@worldbank.org

Antônio Carvalho Campos
Professor of Economics
Departamento de Economia Rural
Universidade Federal de Viçosa
Viçosa – MG – Brazil, 36571-000
Phone number: (5531)3899-1312
accampos@ufv.br

topics close to that institution as a researcher collaborator.

I also have extensively worked with the GTAP model and the GTAP database.²

I am a co-author in a paper about impacts of biofuels on land use changes and emissions recently submitted to Science and accepted subject to some minor changes suggested by reviewers.³

At request of the Sugar Cane Industry Association (UNICA), I have simulated GTAP on Low Carbon Fuel Standard sugarcane pathways and contributed to the UNICA's letter to the California Air Resources Board with comments about the California LCFS.

Please return to:

Ms. Manisha Singh, Air Pollution Specialist
Alternative Fuels Section
Air Resources Board
1001 I Street, 6th floor
Sacramento, California 95814
or, email: mansingh@arb.ca.gov

- ANTOINE, B., GURGEL, A., REILLY, J. M. Will Recreation Demand for Land Limit Biofuels Production? *Journal of Agricultural & Food Industrial Organization*, v.6, Article 5, 2008.
- PALTSEV, S., REILLY, J. M., JACOBY, H. D., GURGEL, A. C., METCALF, G. E., SOKOLOV, A. P., HOLAK, J. F. Assessment of US GHG cap-and-trade proposals. *Climate Policy*, v.8, p.395 - 420, 2008.

² Some papers published using the GTAP model and GTAP database are:

- TYLER, W., GURGEL, A. C. Brazilian trade policies: some observed and estimated effects of the 1990's. *Estudos Econômicos*, v.39, p.59 - 88, 2009.
- HARRISON, G. W., RUTHERFORD, T. F., TARR, D. G., GURGEL, A. C. Trade policy and poverty reduction in Brazil. *The World Bank Economic Review*, v.18, p.289 - 317, 2004.

³ The paper submitted to *Science* is an extension of the report:

MELILLO, J. M., GURGEL, A. C., KICKLIGHTER, D. W., REILLY, J. M., CRONIN, T. W., FELZER, B. S., PALTSEV, S., SCHLOSSER, A., SOKOLOV, A. P., WANG, X. Unintended environmental consequences of a global biofuels program. MIT Joint Program on the Science and Policy of Global Change, Report n. 168. Cambridge - MA, 2009. (http://web.mit.edu/globalchange/www/MITJPSPGC_Rpt168.pdf)