

## ALAN KEITH FOX

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U.S. International Trade Commission  
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## RESEARCH FIELDS

International trade, trade and environment, computable general equilibrium (CGE) modeling

## EDUCATION

**Ph.D. Economics**, December 2000

*University of Michigan*  
Ann Arbor, MI

Research in international trade and computer-based economic simulation  
Prof. Robert M. Stern, chair

**M.A. Economics**, May 1993

*University of Michigan*  
Ann Arbor, MI

Fields: International Economics and Macroeconomics

**Independent Study in Economics**

October 1989–June 1990

Research in macroeconomics supervised by Prof. Bernard Schmitt

*University of Fribourg*  
Fribourg, Switzerland

**B.S. Economics**, December 1988

*Georgetown University*  
Washington, DC

Specialization in International Economic Theory

Certificate of German Studies; proficiency in German and French

## PROFESSIONAL EXPERIENCE

**International Economist**

Oct. 2000–present

*Research Division*  
*U.S. International Trade Commission*  
Washington, DC

Provide research support to the USITC, the U.S. Trade Representative and Congress on trade policy issues

**Adjunct Assistant Professor**

Fall 2004, Spring 2006, Fall 2007

*Department of Economics*  
*Georgetown University*  
Washington, DC

Econ-542, International Trade, Masters program, School of Foreign Service (Fall 2004)

Econ-243, International Trade, Undergraduate program (Spring 2006, Fall 2007)

**Adjunct Assistant Professor**

Fall 2005

*Department of Economics*  
*American University*  
Washington, DC

Econ-784, Seminar in International Trade and Finance, Ph.D. program

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### PROFESSIONAL EXPERIENCE, CONTINUED

**Consulting Economist**, Winter–Spring 2004

*Nathan Associates, Inc., Arlington, VA  
Washington, DC*

Conducted analysis of port inefficiencies on trade and welfare.

**Graduate Student Instructor**

Winter 1998

Introductory Macroeconomics.

*University of Michigan  
Ann Arbor, MI*

**Research Assistant**

1991–1999

Assisted Professors Alan Deardorff and Robert Stern in CGE modeling, including studies of the Uruguay Round, expansion of the EU, NAFTA expansion, Tunisia-EU liberalization, and trade liberalization in India.

*University of Michigan  
Ann Arbor, MI*

**Summer Assistant**

Summer 1996

Research Assistant in the International Economics, International Trade (IECIT) Division and in the Africa Technical Families, Macro 2 (AF2PE) Division.

*World Bank  
Washington, DC*

### PUBLICATIONS

“Is Puerto Limon a real lemon? Port inefficiency and its impact,” with Paul Kent, in *International Handbook of Maritime Economics*, Kevin Cullinane, ed., Edward Elgar, Cheltenham, UK, and Northampton, MA, June 2011.

“The role of trade and competitiveness measures in US climate policy,” with Carolyn Fischer, *American Economic Review: Papers & Proceedings*, May 2011.

“Why don’t foreign firms cooperate in antidumping investigations?: an empirical analysis,” with Michael O. Moore, *Review of World Economics*, published online at <http://dx.doi.org/10.1007/s10290-009-0035-0>, November 8, 2009.

“Textile and apparel barriers and rules of origin: what’s left to gain after the Agreement on Textiles and Clothing?”, with William Powers and Ashley Winston, *Journal of Economic Integration*, 23(3), September 2008.

“Output-based allocation of emissions permits for mitigating tax and trade interactions,” with Carolyn Fischer, *Land Economics*, 83(4), November 2007.

“Is there a rationale for output-based rebating of environmental levies?” with Alain L. Bernard and Carolyn Fischer, *Resource and Energy Economics*, 29(2), May 2007.

“Taste parameters and model residuals: assessing the ‘fit’ of an Armington trade model”, with Russell H. Hillberry, Michael A. Anderson, and Edward J. Balistreri, *Review of International Economics*, 13(5), November 2005.

**PUBLICATIONS, CONTINUED**

*Three essays on international trade policy*, dissertation, University of Michigan (2000), including: "Evaluating the Success of a CGE Model of the Canada-U.S. Free Trade Agreement"; "Internal and External Returns to Scale in a CGE Framework"; and "Child Labor Legislation: Altruism or Disguised Protectionism?"

"Computational analysis of goods and services liberalization in the Uruguay Round," with Drusilla Brown, Alan Deardorff, and Robert Stern, in Will Martin and L. Alan Winters (eds.), *The Uruguay Round and the Developing Economies* (New York: Cambridge University Press, 1996).

"A computational analysis of the effects of reductions in U.S. military expenditures," with Robert Stern, in Manas Chatterji, Henk Jager, and Annemarie Rima (eds.), *The Economics of International Security* (New York: St. Martin's Press, 1994).

"Effects of reductions in NATO military expenditures on U.S. employment by sector/occupation/region," with Robert Stern, *The World Economy*, 16(2), March 1993.

**WORKING PAPERS**

"Output-based allocation of emissions permits for mitigating the leakage and competitiveness issues for the Japanese economy," with Shiro Takeda, Toshi H. Arimura, Hanae Tamechika, and Carolyn Fischer, Resources for the Future Discussion Paper RFF DP 11-40, September 2011. Available at <http://www.rff.org/RFF/Documents/RFF-DP-11-40.pdf>.

"On the scope for output-based rebating in climate policy: when revenue recycling isn't enough (or isn't possible)," with Carolyn Fischer, Resources for the Future Discussion Paper 1069, December 2010. Available at <http://www.rff.org/RFF/Documents/RFF-DP-10-69.pdf>.

"Combining rebates with carbon taxes: optimal strategies for coping with emissions leakage and tax interactions," with Carolyn Fischer, Resources for the Future Discussion Paper RFF DP 09-12, May 2009. Available at <http://www.rff.org/RFF/Documents/RFF-DP-09-12.pdf>.

"Comparing policies to combat emissions leakage: border tax adjustments versus rebates," with Carolyn Fischer, Resources for the Future Discussion paper RFF DP 09-02, February 2009. Available at <http://www.rff.org/documents/RFF-DP-09-02.pdf>.

"When revenue recycling isn't enough: permit allocation strategies to minimize intra- and international emissions leakage," with Carolyn Fischer, working paper, June 2007.

"Evaluating the success of a CGE model of the U.S.-Canada and North American Free Trade Agreements," GTAP Resource 1561, May 2004. Available at [https://www.gtap.agecon.purdue.edu/access\\_member/resources/res\\_display.asp?RecordID=1561](https://www.gtap.agecon.purdue.edu/access_member/resources/res_display.asp?RecordID=1561).

"TSCAPE: A time series of consistent accounts for policy evaluation," with Edward Balistreri, USITC Working Paper 2003-05-A, May 2003. Available at [http://hotocs.usitc.gov/docs/pubs/research\\_working\\_papers/EC200305A.pdf](http://hotocs.usitc.gov/docs/pubs/research_working_papers/EC200305A.pdf).

## **WORKING PAPERS, CONTINUED**

“Measuring border crossing costs and their impact on trade flows: the United States-Mexican trucking case,” with Joseph Francois and Pilar Londoño-Kent, GTAP Resource 12182, May 2003. Available at [https://www.gtap.agecon.purdue.edu/resources/res\\_display.asp?RecordID=1282](https://www.gtap.agecon.purdue.edu/resources/res_display.asp?RecordID=1282).

“Large scale CGE modeling at the U.S. International Trade Commission,” with Robert Koopman, Hugh Arce, and Edward Balistreri, GTAP Resource 1051, April 2002. Available at [https://www.gtap.agecon.purdue.edu/resources/res\\_display.asp?RecordID=1051](https://www.gtap.agecon.purdue.edu/resources/res_display.asp?RecordID=1051).

“Incorporation of labor-leisure choice into a static general equilibrium model,” technical note, USITC, 2002.

## **TRADE POLICY STUDIES**

*The effects of H.R. 2454 on international competitiveness and emission leakage in energy-intensive trade-exposed industries: an interagency report responding to a request from Senators Bayh, Specter, Stabenow, McCaskill, and Brown*, U.S. interagency report published by the Environmental Protection Agency, December 2009. Served as modeler for the report. Available at [http://www.epa.gov/climatechange/economics/pdfs/InteragencyReport\\_Competitiveness-EmissionLeakage.pdf](http://www.epa.gov/climatechange/economics/pdfs/InteragencyReport_Competitiveness-EmissionLeakage.pdf).

*The Economic effects of significant U.S. import restraints, sixth update*, USITC Publication 4094, August 2009. Served as Deputy Project Leader. Available at <http://hotdocs.usitc.gov/docs/pubs/332/pub4094.pdf>.

*Caribbean region: review of economic growth and development*, USITC Publication 4000, May 2008. Available at <http://hotdocs.usitc.gov/docs/pubs/332/pub4000.pdf>.

*U.S.-Korea Free Trade Agreement: potential economy-wide and selected sectoral effects*, USITC Publication 3949, September 2007. Available at <http://hotdocs.usitc.gov/docs/publications/pub3949.pdf>.

*The economic effects of significant U.S. import restraints, fifth update*, USITC Publication 3906, February 2007. Served as Project Leader. Available at <http://hotdocs.usitc.gov/docs/pubs/332/pub3096.pdf>.

*The impact of trade agreements implemented under Trade Promotion Authority*, USITC Publication 3780, June 2005. Served as Deputy Project Leader. <http://hotdocs.usitc.gov/docs/pubs/332/pub3780.pdf>.

*The Broad Economic Impact of Port Inefficiency: A Comparative Study of Two Ports*, with Paul E. Kent, Ph.D. Nathan Associates, Inc., for USAID, December 2004. Available at [http://pdf.usaid.gov/pdf\\_docs/PNADC612.pdf](http://pdf.usaid.gov/pdf_docs/PNADC612.pdf)

*U.S.-Central America-Dominican Republic Free Trade Agreement: potential economywide and selected sectoral effects*, USITC Publication 3717, August 2004. Available at <http://hotdocs.usitc.gov/docs/pubs/2104f/pub3717.pdf>.

**TRADE POLICY STUDIES, CONTINUED**

*U.S.-Morocco Free Trade Agreement: potential economywide and selected sectoral effects*, USITC Publication 3704, June 2004. Available at <http://hotdocs.usitc.gov/docs/pubs/2104f/pub3704.pdf>.

*The economic effects of significant U.S. import restraints: fourth update*, USITC Publication 3701, June 2004. Available at <http://hotdocs.usitc.gov/docs/pubs/332/pub3701.pdf>.

*U.S.-Australia FTA: potential economywide and selected sectoral effects*, USITC Publication 3697, May 2004. Available at <http://hotdocs.usitc.gov/docs/pubs/2104f/pub3697.pdf>.

*The impact of trade agreements: effect of the Tokyo Round, U.S.-Israel FTA, U.S.-Canada FTA, NAFTA, and the Uruguay Round on the U.S. economy*, USITC Publication 3621, August 2003. Available at <http://hotdocs.usitc.gov/docs/pubs/2111/pub3621/pub3621.pdf>.

*U.S.-Singapore Free Trade Agreement: potential economywide and selected sectoral effects*, USITC Publication 3603, June 2003. Available at <http://hotdocs.usitc.gov/docs/pubs/2104f/pub3603.pdf>.

*U.S.-Australia Free Trade Agreement: advice concerning the probable economic effect*, USITC Investigations TA-131-24 and TA-2104-4, confidential report issued to requester, June 2003.

*U.S.-Central America Free Trade Agreement: advice concerning the probable economic effect*, USITC Investigations TA-131-22 TA-2104-2, confidential report issued to requester, December 2002.

*The economic effects of significant U.S. import restraints: third update*, USITC Publication 3519, June 2002. Served as Deputy Project Leader. Available at <http://hotdocs.usitc.gov/docs/pubs/332/pub3519.pdf>.

*U.S.-Korea FTA: the economic impact of establishing a free trade agreement (FTA) between the United States and the Republic of Korea*, USITC Publication 3452, September 2001. Served as Deputy Project Leader. Available at <http://hotdocs.usitc.gov/docs/pubs/332/pub3452.pdf>.

*Advice concerning possible modifications to the U.S. Generalized System of Preferences with respect to certain products imported from India*, USITC Publication 3397, February 2001. Available at <http://hotdocs.usitc.gov/docs/pubs/332/pub3397.pdf>.

**PRESENTATIONS**

“Using CGE models to analyze the interaction of trade and climate policy,” Energy Lecture Series, Johns Hopkins University School for Advanced International Studies, Washington, DC (September 19, 2011).

“On the scope for output-based rebating in climate policy: when revenue recycling isn’t enough (or isn’t possible),” invited paper at 16th World Congress of the International Economic Association, Beijing, China (July 5, 2011).

**PRESENTATIONS, CONTINUED**

“The role of trade and competitiveness measures in US climate Policy,” with Carolyn Fischer, presented at the Allied Social Science Associations (ASSA) annual meeting, Denver, CO (January 9, 2011).

“The effects of H.R. 2454 on production and trade in agriculture”, presented at the 2010 Summer Symposium, “Climate change in world agriculture: mitigation, adaptation, trade and food security”, of the International Agricultural Trade Research Consortium, Stuttgart, Germany (June 29, 2010).

“National and global CGE models: complementary tools for the analysis of climate change policy,” keynote presentation, *Workshop on Computable General Equilibrium Analysis*, Center for the Environment and Trade Research,, Sophia University, Tokyo, Japan (November 21, 2009).

“Using CGE models to analyze the interaction of trade and climate policy,” Energy Modeling Guest Lecture Series, Johns Hopkins University School for Advanced International Studies, Washington, DC (October 26, 2009).

“The U.S.-Korea Free Trade Agreement: assessment and sensitivity,” with Robert Koopman, presented at the 2008 Summer Symposium, “Globalization and the rural-urban divide,” of the International Agricultural Trade Research Consortium, Seoul, Korea (July 1, 2008).

“When revenue recycling isn’t enough: permit allocation strategies to minimize intra- and international emissions leakage,” with Carolyn Fischer, presented at the 10th Annual Conference on Global Economic Analysis, W. Lafayette, IN (June 7, 2007), and at the ASSA annual meeting, Chicago, IL (January 5, 2007).

“Output-based allocation of emissions permits for mitigating tax and trade interactions”, seminar, Washington and Lee University, Lexington, VA (December 9, 2005).

“Why don’t foreign firms cooperate in antidumping investigations?: an empirical analysis”, seminar, George Washington University, Washington, DC (October 31, 2005).

“Minimizing carbon leakage under open trade: strategies for the allocation of pollution permits”, 8th Annual Conference on Global Economic Analysis, Lübeck, Germany (June 9-11, 2005).

“Output-based allocations of emissions permits: efficiency and distributional effects in a general equilibrium setting,” Western Economic Association, 79th Annual Conference, Vancouver, Canada (June 29-July 3, 2004).

“Evaluating the success of a CGE Model of the U.S.-Canada and North American Free Trade Agreements,” 7th Annual Conference on Global Economic Analysis, Washington, DC (June 17-19, 2004); at the Empirical Trade Analysis Conference: Strengthening Analytical Capabilities to Support Trade Negotiations, Woodrow Wilson Center, Washington, DC (January 2004); and at the European Trade Study Group Fifth Annual Conference, Madrid (September 2003).

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### PRESENTATIONS, CONT'D

"Measuring border costs and their impact on trade flows: The United States-Mexican trucking case," Sixth Annual Conference on Global Economic Analysis, The Hague (June 2003).

"TSCAPE: a time series of consistent accounts for policy evaluation," Sixth Annual Conference on Global Economic Analysis, The Hague (June 2003).

"Incorporation of labor-leisure choice into a static general equilibrium model," Fifth Annual Conference on Global Economic Analysis, Taipei (June 2002).

"Output-based allocations of emissions permits: efficiency and distributional effects in a general equilibrium setting," Fifth Annual Conference on Global Economic Analysis, Taipei (June 2002).

"Evaluating the success of a CGE Model of the Canada-U.S. Free Trade Agreement," Second Annual Conference on Global Economic Analysis, Denmark (June, 1999).

### FELLOWSHIPS AND AWARDS

#### Summer Research Fellowship

1992, 1993

Stipends to support summer research.

University of Michigan

Ann Arbor, MI

#### Swiss Universities Grant

1989–1990

Tuition waiver and monthly stipend for independent study in macroeconomics with Prof. Bernard Schmitt.

University of Fribourg

Fribourg, Switzerland

### OTHER

Member, American Economic Association

Proficient in French and German; basic skills in Spanish and Dutch

Referee, *World Development*

### REFERENCES

Dr. Hugh Arce  
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U.S. International Trade  
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John W. Sweetland Professor  
of International Economics  
University of Michigan  
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Dr. Robert M. Stern  
Professor Emeritus of Eco-  
nomics and Public Policy  
University of Michigan  
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