

# CURRICULUM VITAE

**Terrie L. Walmsley**

## **EDUCATION and QUALIFICATIONS**

Ph.D. in Economics, January 1999, Department of Economics, Monash University, Melbourne, Australia. Title: Steady-State Comparative Statics with the GTAP Model: The Long-Run Effects of Asia-Pacific Trade Liberalisation. Supervisor: Professor Alan Powell.

Master of Economic Studies, December 1993, Department of Economics, University of Queensland, Australia.

Bachelor of Commerce, December 1990, Department of Economics, University of Queensland, Brisbane, Australia.

## **PROFESSIONAL EXPERIENCE**

July 2014 – Director and Senior Economist, ImpactEcon LLC, Boulder, USA

Adapted the OECD trade model (METRO) to include mechanisms for modelling non-tariff measures and trade facilitation; and a method for measuring and decomposing welfare changes.

Organization of Economic Cooperation and Development (OECD).

Incorporated willingness-to-pay method into ImpactECON supply chain model for improved analysis of trade facilitation in CGE models.

Developed GTAP-based supply chain database, and comparative static and dynamic models.

European Commission support for Cyprus trade negotiations within the Context of the EU's external trade policy environment. Analysis of EU-US Transatlantic Trade and Investment Partnership (TTIP) agreement within a global CGE model. Developed online training materials and analysis of competitiveness.

Developed a methodology for linking supply of labor by education to supply by occupations for baseline development; and a

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compendium of capital, and capital labor substitution elasticities and methods employed in global CGE models. Organization of Economic Cooperation and Development (OECD).

Developed baseline and scenarios, and adapted global dynamic CGE model to estimate impacts on Vietnam of the Trans-Pacific Partnership Agreement (TPP) and a Free Trade Area of Asia and the Pacific (FTAAP) and state owned enterprise (SOE) reform. World Bank.

Development of the OECD Trade Model to include multiple labor types, migration and dynamics (with D. Flaig and S. Stone)

Developed R23 model and database, and course material

September 2003 – December 2013	Department of Agricultural Economics, Purdue University, USA  Research Associate Professor (April 2010-December 2013)  Research Assistant Professor (August 2005 – April 2010)  Director, Center for Global Trade Analysis (August 2005-December 2013)  Co-Director, Center for Global Trade Analysis (Sept 2004-August 2004)  Associate Director, Center for Global Trade Analysis (September 2003-September 2004)  Visiting Professor, Department of Agricultural Economics (September 2003-August 2005)
October 2000 – August 2003	Department of Economics, University of Sheffield, Sheffield, United Kingdom  Promoted to Lecturer B (equivalent to Assistant Professor, Tenured) (September 2002-August 2003)  Lecturer A (equivalent to Assistant Professor) (October 2000-September 2002)
June 1999 – August 2000	Research Fellow, Center for Global Trade Analysis, Department of Agricultural Economics, Purdue University, USA
October 1998 – May	Business Economics Tutor, Department of Economics, University of Salford,

1999	Manchester, United Kingdom
February 1995 – December 1997	Assistant Lecturer in Micro- and Macroeconomics, Department of Economics, Monash University, Melbourne, Australia
February 1993 – December 1994	Associate Lecturer in Statistics, Department of Statistics, Australian National University, Canberra, Australia
February 1992 – December 1992	Statistics Tutor, Department of Economics, University of Queensland, Brisbane, Australia

### **OTHER APPOINTMENTS**

January 2009 –	Honorary Principal Fellow, Associate Professor, Department of Economics, University of Melbourne, Melbourne, Australia
January 2003 – August 2003	Ph.D. Coordinator, University of Sheffield, United Kingdom
September 2000 – September 2003	Faculty Associate, Center for Global Trade Analysis, Department of Agricultural Economics, Purdue University, USA

### **AWARDS AND HONORS**

2015	Awarded GTAP Hall of Fame by GTAP Advisory Board
2014-2017	Awarded Research Fellowship by GTAP Advisory Board
2001	Awarded \$1000 from Journal of Economic Integration for paper “Dynamic Effects of the ‘New Age’ Free Trade Agreement between Japan and Singapore.” (with T. W. Hertel and K. Itakura)
2001	Thesis advisor to John Kwame Kotoku recipient of the 2001 Outstanding Master’s Thesis Award for “Cointegration Tests of Purchasing Power Parity”, University of Sheffield, United Kingdom
1996 – 1998	Australian Postgraduate Award, Monash University, Australia
1997	Overseas Grants in Aid Award, Monash University, Australia

### **PROFESSIONAL ASSOCIATIONS**

American Economic Association and International Association of Agricultural Economists

## **TEACHING AND SUPERVISION**

### ***Graduate Supervision***

#### *Ph.D Supervision: Major Professor*

Amer Ahmed, 2008. Placement: World Bank, Washington D.C, USA

Angel Aguiar, 2009. Placement: Center for Global Trade Analysis, Purdue University, USA

Csilla Lakatos, 2011. Placement: US International Trade Commission, Washington D.C., USA and European Commission, Brussels, Belgium

Zekarias Hussein, 2013. Placement: US Environmental Protection Agency, Washington D.C.

#### *Ph.D Supervision: Committee Member*

Lacina Balma, 2015. Placement:

Sascha Suessspeck, 2015. Placement:

(In the news: <https://theconversation.com/how-the-nbn-could-boost-australias-gdp-by-2-48587>)

Amanda Leister, 2010. Placement: US Department of Agriculture, Washington D.C., USA and Colorado State University, Fort Collins, USA

Tasneem Mirza, 2009. Placement: Asian Development Bank and United Nations, New York, USA

Alla Golub, 2006. Placement: Center for Global Trade Analysis, Purdue University, USA

Ken Itakura, 2004. Placement: Nagoya University, Japan

#### *Masters: Major Professor (10)*

#### *Honors: Major Professor (1)*

### ***Masters Teaching***

- Applied General Equilibrium Modeling Course, University of Melbourne, 2012. This course involved lectures held jointly with Purdue University over the internet, as well as additional lectures and computer lab sessions.
- Guest lecturer and advisor on paper assessment, Applied General Equilibrium Modeling, Purdue University, 2005-8.
- International Economics, University of Sheffield, 2001-2002.

### ***Undergraduate Teaching***

- International Trade (third year), University of Sheffield, 2002.
- Monetary Economics (third year), University of Sheffield, 2000-2003.

- Micro and Macroeconomics (first year), University of Sheffield, 2000-2003, University of Salford, 1998-1999, Monash University, 1995-1998, and University of Canberra, 1994.
- Economic Statistics (first year), Australian National University, Australia, 1993-1994, and University of Queensland, Australia, 1992.

### ***External Teaching***

*Short Course on MyGTAP Model, Ministry of Ministry of Energy, Commerce, Industry and Tourism, Cyprus, 2015*

- Developed web materials and one week on-site course for Ministerial staff.

*Annual Short course in Global Economic Analysis, 2002-2011*

- Led and further developed educational offerings of the Center for Global Trade Analysis, Purdue University including an annual 7 week web-based course and on-site course.
- Responsible for obtaining funding and increasing overseas course offerings: Ethiopia (funded by United Nations Economic Commission for Africa and the World Bank), Argentina (Inter-American Development Bank), Paraguay (Japan International Cooperation Agency), India (Ford Foundation), and Thailand (United Nations Economic and Social Commission for Asia and the Pacific).

*Short course in Dynamic Global Economic Analysis, 2000-2012*

- Led and developed short course on the Dynamic GTAP model, held in 2012 at the Institute of Food and Resource Economics, University of Copenhagen, Denmark, and in 2010, 2008, 2006 and 2000 at Purdue University.
- Led and developed web-based course for the Dynamic model in 2008, 2010 and 2012.

*Short course on GLOBE Model, 2010-2014*

- GLOBE modeling course, US Naval Academy, Annapolis, USA, 2010, 2013 and 2014.

*Short course on Contributing IO tables to the GTAP Database, 2007-2011*

- Led and developed short course on Contributing IO tables to the GTAP Database, held at the UNECA, Ethiopia in 2011, VATT/UNWIDER, Finland in 2008 and at Purdue University in 2008 and 2007.

## **COMPUTABLE GENERAL EQUILIBRIUM MODELS**

I am the co-author of the following CGE models. These have been used by and for a number of national and international organizations, some of whom are identified. They are under continuous development;

the technical documentation for these models is constantly evolving, but where technical documents are publicly available they are included in the publications list below.

***Global CGE Models in GEMPACK:***

*Global multi-sectoral and multi-regional Models: GTAP, MyGTAP, GTAP-SC, and ImpactECON supply chain model (IE-SC)*

The GTAP model is widely used for analysis of trade and domestic policy issues by many academics and institutions worldwide. According to google scholar there are 13,000 papers referring to the GTAP model worldwide.

The MyGTAP model is a new extension to the GTAP model, developed with Peter Minor, which allows for more detailed analysis of a particular country. It is currently being used in several policy papers related to Africa and the USA and has been incorporated by the LEI Wageningen UR, The Netherlands into their global model, LEITAP.

The GTAP-SC model was developed as part of a project for the Asian Development Bank to model global supply chains. A global supply chain database was also developed. This model has been further developed into the ImpactECON supply chain model (IE-SC)

*Dynamic Models: GDyn and various versions of ImpactECON dynamic model (IEDyn)*

The Dynamic GTAP model, developed with Robert McDougall and Elena Ianchovichina, can be used for analysis of foreign capital ownership and has being used extensively in the analysis of climate change and environmental issues.

The ImpactECON version includes unemployment, multiple labor categories, distinction between new and old capital and endogenous income elasticities. There is also a version that includes supply chains and willingness to pay theory.

*Migration Models: GMig2 and GMig2Dyn*

The GMig2 model developed with Amer Ahmed and Alan Winters has been used by the Inter-American Development Bank, the CATO Institute, the Japanese Cabinet Office (ESRI) to examine migration issues in the Americas and Asia. The dynamic version (GMig2Dyn) is a newly developed version with Angel Aguiar that has been used extensively to examine US immigration policy with regards to legal and illegal immigrants. Research using these models has been cited by The Economist, Washington Post, Manila Press, Radio Australia and in reports to the Australian and UK parliaments.

***Global CGE Models in GAMS:***

*Global multi-sectoral and multi-regional Models: GLOBE, GLOBE\_DYN and METRO*

The GLOBE models developed with Scott McDonald and Karen Theirfelder are currently being used

by the OECD and the Institute for Prospective Technological Studies, European Commission's Joint Research Centre (IPTS-JRC).

The METRO model is a supply chain model developed by the OECD. I have incorporated migration, dynamics modules and have incorporated iceberg and willingness to pay methodologies for assessment of non-tariff measures.

#### *Single sector Global Model: R23*

The R23 model, developed with Scott McDonald, Karen Thierfelder and Delfin Go, is a new extension to the original 1\*2\*3 model (by Devarajan, Lewis and Robinson) to cover multiple countries. The model is expected to be made available as part of the World Bank suite of models.

## **PROJECT MANAGEMENT EXPERIENCE**

### *Center for Global Trade Analysis*

Between 2004 and 2013 I was responsible for managing and leading the Global Trade Analysis Project. This project has an annual core budget of \$1 million, and employs approximately 8 permanent and 3 part time staff and interfaces with a network of 10,000 academic and other researchers. The activities involved include, *inter alia*:

- Managing all the activities, staff and budget of the Center for Global Trade Analysis. Membership of the GTAP network increased from 2,000 members in 2004 to 10,000 in 2013.
- The GTAP database, which is used by most of global models used for policy analysis worldwide, e.g., GTAP, GLOBE, MyGTAP, MIRAGE, Worldscan, Linkage, LEITAP (Over 12,000 papers/books that use or refer to the GTAP databases are listed by Google scholar):
  - managing the construction of versions 6-8 of the GTAP database, as well as two special African datasets;
  - overseeing significant improvements to include MacMaps protection data, OECD services trade data and 5 new labor categories;
  - managing the contribution of IO tables by individuals and organizations worldwide, leading to an expansion in country coverage of the GTAP database (from 45 in version 4 (when I first become involved in, 2000) to 134 in version 8); and
  - developing new components of the GTAP database – CO2 emissions, landuse, non-CO2 emissions, FDI, time to trade and intra-regional transfers.

- Organized and led the annual GTAP advisory board meeting between 2004 and 2013. The board has 29 members drawn from a wide range of national and international organisations (see <https://www.gtap.agecon.purdue.edu/about/consortium.asp>).
- Organized and led strategic planning meetings in 2003 (with Sandra Rivera), 2007, 2009 and 2012.
- Responsible for GTAP network educational and network activities, including an annual conference and multiple courses.

### ***Research Projects***

Responsible for obtaining additional research funding and managing large research projects. Specifically for: World Bank, European Commission and US International Trade Commission (see specific grants listed below).

### **OTHER SERVICE TO PROFESSION**

Co-editor of the GTAP Technical Paper Series, Purdue University, USA, 2003 – 2013. The impact factor of this series is 12.

Editorial board of the Journal of Economic Integration, 2003 –

Conference Organizing Committee, Annual Conference on Global Economic Analysis, 2001, 2004 – 2014, 2015-2016. Hosts include the World Bank, UNECA, UNESCAP, UNWIDER and FEEM.

Member of the Steering Committee of the African Growth and Development policy Modeling Consortium, led by IFPRI, Washington D.C, USA, 2011 – 2013.

Invited to attend expert meeting on developing a new Trade Model for the OECD, OECD, France, Nov 2012.

Reviewer of Australian Bureau of Agricultural and Resource Economics and Sciences (ABARES) Report on “A generic approach to investment allocation in dynamic CGE models”, 2012.

Organized GTAP Database pre-conference seminar and IO contributor’s course, 15<sup>th</sup> Annual Conferences on Global Economic Analysis, WTO, Geneva, Switzerland (2012).

Examiner of Ph.D. thesis for Government Institute for Economic Research, VATT, Finland (2008); Australian National University, Australia (2009); and Macquarie University, Australia (2011).

Invited to attend expert meeting on the development of global baselines, organized by USITC and held



in Shanghai, China, 2010.

Expert Reviewer of Study undertaken by the Australian Productivity Commission on Bilateral and Regional trade agreements, commissioned by the Australian Federal Government, 2010.

Organized GTAP Database pre-conference seminar, 12<sup>th</sup> Annual Conference on Global Economic Analysis, UN ECLAC/CEPAL, Santiago, Chile, June 2009.

Co-editor of special edition of the Journal of Economic Integration, 2008.

Advisor to the European Commission on construction of European IO tables, 2007.

8<sup>th</sup> Annual Conference on Global Economic Analysis, Lübeck, Germany, June 2005. Organized two sessions on “Dynamic Modeling Learning” and on “Labor Migration”.

Expert Reviewer of a Special Study on Migration and India, commissioned by the World Bank, 2003.

Reviewer for Economic Modelling, International Migration Review, Australian Journal of Agricultural and Resource Economics, The Australian Economic Review, Reinvention: an International Journal of Undergraduate Research, Economic Systems Research, World Trade Review, Food Policy, Journal of International Development, World Economy, Journal of Agricultural Economics, Pacific Economic Review, Contemporary Economic Policy, Journal of Economic Integration.

## **GRANTS AND CONTRACTS**

*Total value of research grants (of which 75% are as Principal Investigator) \$US2M*

### ***World Bank, USA and World Bank and Netherlands Partnership Program, USA***

2013-2015: Development of R23 Model and Database for examining impact of Asian Growth on Resource Rich Africa (with Scott McDonald, Karen Thierfelder and Delfin Go)

2011-2013: PREM Growth and Equity: Quantitative Analysis of Vulnerability Reduction and Diversification in Africa. Included Capacity Building, Model development, development of an Africa GTAP database and policy papers (with Peter Minor, Anna Strutt, Mary Burfisher, Angel Aguiar, Maros Ivanic, Khalid Siddig, Amin Abdella, Brian Mureverwi, Christopher Onyango Godfrey Mahofa and Scott McDonald)

2010: Examining the Impact of Migration within Asia (with Angel Aguiar and Amer Ahmed)

2009: Development of a Time Series Database on Migration by Gender (with Chris Parsons, Caglar Ozden and Maurice Schiff)

2006-2009: Development of tools for African Economists for analyzing African Economies within the Global context (with Badri Narayanan, Robert McDougall, Nelson Villoria, Christian Emini, Yousouf Kone, Guyslain Ngeleza, Charles Adjasi, Belay Fekadu, Eliud Moyi, Khalid Siddig)

2005: Labor Migration Research for use in 2006 Global Economic Prospects (with Dominique van der Mensbrugghe and Dileep Ratha)

2002: Development of Baseline forecasts (with Will Martin)

2002: Assessment of the Regional Impact of China's Accession to the WTO (with Elena Ianchovichina).

***OECD, France***

2014-2015: Development of the OECD Trade Model to include multiple Labor types, migration and dynamics (with Susan Stone and Dorethee Flaig)

2003-2004: Analysis of Russia's Accession to the WTO (with Vitaly Kharitonov, Sergey Kiselev and Roman Romashkin)

***Asian Development Bank, Philippines***

2013: Two papers on the development of a GTAP-SC model and database to analyze the vulnerability of Asia to negative supply chain shocks (with Thomas Hertel and David Hummels)

2007-2008: Analysis of the Prospects for Asia of increased Migration (with Amer Ahmed).

***US International Trade Commission, USA***

2012-2013: Analysis of the Impact of the Trans-Pacific Partnership on US households and Labor (with Marinos Tsigas, Angel Aguiar and Caitlyn Carrico)

2010-2013: Development of a modelling framework for analyzing FDI and Multinational Firms (with Csilla Lakatos and Tani Fukui)

***US International Trade commission, USA; OECD, France; UN Food and Agricultural Organization, Italy; Australian Productivity Commission, Australia; Electric Power Research Institute, USA; and Economic Research Service, US Department of Agriculture, USA***

2012-2013: Development of landuse, CO2 and non-CO2 Datasets (with Thomas Hertel, Amer Ahmed, Burcu Irfanoglu and Steve Rose)

***European Commission, Belgium and Institute for Prospective Technological Studies, European Commission's Joint Research Centre (IPTS-JRC), Spain***

2011-2012: Development of the Dynamic GLOBE Model (with Scott McDonald and Karen Thierfelder)

2011: Analysis of the PE-GE effects of EU's FTAs with the Andean Pact and Central America (with

Angel Aguiar, Badri Narayanan and Joe Francois)

2006-2008: Development of an African Database (with Badri Narayanan and Robert McDougall)

2002: Development of new IO Tables for Central Eastern Europe (with Martin Banse and Robert McDougall)

***United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP), Thailand***

2009: Analysis of the Impacts of the Financial Crisis (with Anna Strutt)

***Japan International Cooperation Agency, Japan***

2007-2008: Dynamic Analysis of Trade agreements involving Paraguay on the Paraguayan Economy and Capacity Building (with Carlos Ludena, Horatio Santander, Edgar Gómez Leiva, Jose Cuevas and Nathalia Arévalo)

***Monterey Institute of International Studies, USA***

2006: Analysis of impact of Migration between the USA and Mexico on North American Competitiveness (with Raul Hinojosa Ojeda, Robert McCleery, and Fernando De Paolis)

***Commonwealth Secretariat, UK***

2005: Analysis of the Temporary Movement of Labour in the Pacific (with Chris Parsons and Amer Ahmed)

2001: Assessment of the Economic Effects of Liberalizing the Movement of Natural Persons (with Alan Winters, Roman Grynberg and Zhen Kun Wang)

***Department for International Development (DfID), United Kingdom***

2004-2005: Analysis of the Impact of Bilateral Labor Migration (with Alan Winters, Chris Parsons, and Ronald Skeldon)

***COMESA, Zambia***

2002: Assessing the Impact of the Internet on International Trade for the selected COMESA & SADC Countries (with Caesar Cheelo and Themba Munalula)

***Ministry of Trade and Industry and Mitsubishi Research Institute, Japan***

2000-2001: An Analysis of Japan's Free Trade Agreements (with Ken Itakura and Thomas Hertel)

**PUBLICATIONS**

***Summary of Publications***

***Completed***

***In Press/  
Submitted***

<i>Journal Articles</i>	19	2
<i>Books</i>	2	-
<i>Book Chapters</i>	25	-
<i>Other Technical and Working Papers</i>	28	1
<i>Other Papers, Models, Training Documents and Reports</i>	35	-

### ***Journal Articles in Press (2)***

"Reconciling the GTAP Data Base: Where are the Big Changes?" Economic Systems Research, forthcoming, accepted with revisions (with A. Aguiar, B. Narayanan and R. A. McDougall)

"The Global MRIO Lab – charting the world economy", Economic Systems Research, forthcoming, accepted with revisions (with Manfred Lenzen, Arne Geschke, Muhammad Daaniyall Abd Rahman, Yanyan Xiao, Erik Dietzenbacher, Satoshi Inomata, Keiichiro Kanemoto, Daniel Moran, Hagen Schulte in den Bäumen, Arnold Tukker, Tommy Wiedmann)

### ***Journal Articles (19)***

"Labor Migration and Growth in East and South-East Asia." *World Economy*, 2015, (with A. Aguiar, and S. A. Ahmed)

"The Importance of Timing in the U.S. response to Illegal Immigrants: A Recursive Dynamic Approach." *Economic Modelling*, 41, 253-262, 2014, (with A. Aguiar)

"Impacts of Removing Refined Oil Import Subsidies in Nigeria on Poverty." *Energy Journal* 69, 165-178, 2014, (with K. A. Siddig, Aguiar, H. Grethe, and P. Minor)

"Dispute Settlement at the WTO: Impacts of a No Deal in the US-Brazil Cotton Dispute." *World Economy*, 2013, (with C. Lakatos)

"A Global Dataset of Input-Output Tables Linked by International Trade and Policy Data." *Journal of Life Cycle Assessment* April. 2013, (with A. Aguiar and B. Narayanan)

"Investment creation and diversion effects of the ASEAN–China Free Trade Agreement." *Economic Modelling* 29(3), 766-779, 2012, (with C. Lakatos)

"The Impact of the Movement of Labour: Results from a Model of Bilateral Migration Flows." *Global Economy Journal* 11(4), Article 2, 2011, (with L. A. Winters, and S. A. Ahmed)

"Implications of the Global Financial Crisis for China: A Dynamic CGE Analysis to 2020." *Economics*

*Research International* October, 9 pages, 2011, with A. Strutt)

“Where on Earth is Everybody? The Evolution of Global Bilateral Migration 1960-2000.” *World Bank Economic Review* June, 1-45, 2011, (with C. Özden, C. Parsons, and M. Schiff)

"Outsourcing and the US Labor Market." *World Economy* 34(2), 194-222, 2011, (with S. A. Ahmed and T. Hertel)

“Gains from the Liberalization of Temporary Migration.” *South Asia Economic Journal* 10(1), 2009, (with S. A. Ahmed)

“Bilateral Free Trade Agreements and Customs Unions: The Impact of the EU South Africa Free Trade Agreement on Botswana.” *World Economy* 31(8), 993-1028, 2008, (with S. McDonald)

“Assessing the Impact of China’s Accession to the WTO on Investment.” *Pacific Economic Review* 11(3), 315-339, 2006, (with T. W. Hertel and E. Ianchovichina)

“Relaxing Restrictions on the Temporary Movement of Natural Persons: A Simulation Analysis.” *Journal of Economic Integration* 20(4), 688-726, 2005, (with L. A. Winters)

“Impact of China’s Accession on East Asia.” *Contemporary Economic Policy* 23(2), 261-77, 2005 (with E. Ianchovichina)

“Liberalising Temporary Movement of Natural Persons: An Agenda for the Development Round.” *World Economy* 26(8), 1137-1161, 2003, (with L. A. Winters, Z. K. Wang, and R. Grynberg)

“Incorporating International Capital Ownership of Endowments into a Global Applied General Equilibrium Model.” *Economic Modelling* 19(5), 679-707, 2002.

“China’s Accession to the WTO: Timing is everything.” *World Economy* 24(8), 1019-49, 2001, (with T. W. Hertel)

“Dynamic Effects of the ‘New Age’ Free Trade Agreement between Japan and Singapore.” *Journal of Economic Integration* 16(4), 446-448, 2001, (with T. W. Hertel and K. Itakura)

## **Books (2)**

*Dynamic Modeling and Applications in Global Economic Analysis*, Cambridge: Cambridge University Press, 2012, (with E. Ianchovichina eds)

*Global Trade, Assistance, and Production: The GTAP 7 Data Base*, West Lafayette, IN: Center for Global Trade Analysis, 2008, (with B. Narayanan eds)

## **Book Chapters (25)**

- “Developing a Multi-regional IO framework from GTAP.” In Benno Ferrarini and David Hummels (eds). *Asia and Global Production Networks-Implications for Trade, Incomes and Economic Vulnerability*. Asian Development Bank and Edgar Elgar Publishing, 2014, (with T. W. Hertel and D. Hummels)
- “The Vulnerability of the Asian Supply Chain to Localized Disasters” in Asia and Global Production.” In Benno Ferrarini and David Hummels (eds). *Asia and Global Production Networks-Implications for Trade, Incomes and Economic Vulnerability*. Asian Development Bank and Edgar Elgar Publishing, 2014, (with T. W. Hertel and D. Hummels)
- “Liberalizing Temporary Movement of Natural Persons: An Agenda for the Development Round.” In K. Anderson (ed). *Measuring WTO’s contributions to Global Economic Welfare*, Edward Elgar Publishing’s Critical Perspectives on the Global Trading System Series, 2014, (with L. A. Winters, Z. K. Wang and R. Grynberg)
- "The Global Trade Analysis Project and the GTAP Data Base." In J. Murray and M. Lenzen (eds). *The Sustainability Practitioner’s guide to Multi-Regional Input-Output Analysis*, 2013, (with A. Aguiar and B. Narayanan)
- "The GMig2 Database: Extending GTAP 8 to Include Global Bilateral Migration, Wages and Remittances." In Narayanan, B., A. Aguiar and R. McDougall (eds). *Global Trade, Assistance, and Production: The GTAP 8 Data Base*, West Lafayette, IN: Center for Global Trade Analysis, 2012, (with A. Aguiar, Z. Hussein and C. Parsons)
- "Chapter 1: Introduction." In Narayanan, B., A. Aguiar, and R. A. McDougall (eds), *Global Trade, Assistance, and Production: The GTAP 8 Data Base*, West Lafayette, IN: Center for Global Trade Analysis, 2012, (with B. Narayanan and T. W. Hertel)
- "Chapter 7: Regional Input-Output Data." In Narayanan, B., A. Aguiar, and R. A. McDougall (eds), *Global Trade, Assistance, and Production: The GTAP 8 Data Base*, West Lafayette, IN: Center for Global Trade Analysis, 2012, (with A. Aguiar)
- “Relaxing Restrictions on the Temporary Movement of Natural Persons: A Simulation Analysis.” In Hoekman, B., *The WTO And Trade In Services*, Edward Elgar Publishing, 2012, (with L. A. Winters)
- “Chapter 4: An Overview of the Dynamic GTAP Data Base: The Data Base Construction and Aggregation Programs.” In Ianchovichina, E., and T. L. Walmsley (eds), *Dynamic Modeling and Applications in Global Economic Analysis*, Cambridge: Cambridge University Press,

- McDougall, 2012, (with R. A. McDougall, A. Golub, E. Ianchovichina, and K. Itakura)
- “Chapter 5: A Baseline Scenario for the Dynamic GTAP Model.” In Ianchovichina, E., and T. L. Walmsley (eds), *Dynamic Modeling and Applications in Global Economic Analysis*, Cambridge: Cambridge University Press, 2012, (with B. V. Dimaranan, and R. A. McDougall)
- “Chapter 6: Welfare Analysis in the Dynamic GTAP Model.” In Ianchovichina, E., and T. L. Walmsley (eds), *Dynamic Modeling and Applications in Global Economic Analysis*, Cambridge: Cambridge University Press, 2012, (with R. A. McDougall, and E. Ianchovichina)
- “Chapter 7: Implementing dynamic GTAP using GEMPACK and RunDynam.” In Ianchovichina, E., and T. L. Walmsley (eds), *Dynamic Modeling and Applications in Global Economic Analysis*, Cambridge: Cambridge University Press, 2012, (with K. Itakura, C. Lakatos, R. A. McDougall, and E. Ianchovichina)
- “Chapter 8: Assessing the Impact of China’s WTO Accession on Investment.” In Ianchovichina, E., and T. L. Walmsley (eds), *Dynamic Modeling and Applications in Global Economic Analysis*, Cambridge: Cambridge University Press, 2012, (with T. W. Hertel, and E. Ianchovichina)
- “Chapter 9: Dynamic Effects of the “New Age” Free Trade Agreement between Japan and Singapore.” In Ianchovichina, E., and T. L. Walmsley (eds), *Dynamic Modeling and Applications in Global Economic Analysis*, Cambridge: Cambridge University Press, 2012, (with T. W. Hertel and K. Itakura)
- “Chapter 15: Implications for global economic analysis.” In Ianchovichina, E., and T. L. Walmsley (eds), *Dynamic Modeling and Applications in Global Economic Analysis*, Cambridge: Cambridge University Press, (with E. Ianchovichina)
- “The Impact of Liberalizing Labour Mobility in the Pacific region.” In Razzaque, M. A. (ed), *Trade, Migration and Labour Mobility*, London, UK: Commonwealth Secretariat, 2009, (with S. A. Ahmed, and C. R. Parsons)
- “Liberalising Temporary Movement of Natural Persons: An Agenda for the Development Round.” In Razzaque, M. A. (ed), *Trade, Migration and Labour Mobility*, Commonwealth Secretariat, 2009, (with L. A. Winters, Z. K. Wang, and R. Grynberg)
- “Chapter 1: Introduction.” In Narayanan B. and T. L. Walmsley (eds), *Global Trade, Assistance and Production: The GTAP 7 Data Base*, West Lafayette, IN: Center for Global Trade Analysis, 2008, (with T. W. Hertel)

“Chapter 7: Regional Input-Output Data.” In Narayanan B. and T. L. Walmsley (eds), *Global Trade, Assistance and Production: The GTAP 7 Data Base*, West Lafayette, IN: Center for Global Trade Analysis, 2008, (with C. Lakatos)

“Liberalising Temporary Movement of Natural Persons: An Agenda for the Development Round.” In Collier P., and J. W. Gunning (eds), *Globalization and Poverty*, Edward Elgar Publishing Limited, 2008, (with L. A. Winters, Z. K. Wang, and R. Grynberg)

“Quantifying the international bilateral movements of migrant.” In Ozden C., and M. Schiff (eds), *International Migration Policy and Economic Development: Studies Across the Globe*, Washington D.C.: World Bank and Macmillan Press, 2007, (with C. R. Parsons, R. Skeldon and L. A. Winters)

“Chapter 11A: Overview.” In Dimaranan, B. V., *Global Trade, Assistance and Production: The GTAP 6 Data Base*, West Lafayette, IN: Center for Global Trade Analysis, 2006, (with R. A. McDougall)

“Chapter 11B: The Central Eastern European Economies.” In Dimaranan, B. V., *Global Trade, Assistance and Production: The GTAP 6 Data Base*, West Lafayette, IN: Center for Global Trade Analysis, 2006, (with M. Banse)

“Chapter 11A: Overview.” In Dimaranan, B. V. and R. A. McDougall, *Global Trade, Assistance and Production: The GTAP 5 Data Base*, West Lafayette, IN: Center for Global Trade Analysis, 2001, (with R. A. McDougall)

“Chapter 18A: Macroeconomic Data.” In Dimaranan, B. V. and R. A. McDougall, *Global Trade, Assistance and Production: The GTAP 5 Data Base*, West Lafayette, IN: Center for Global Trade Analysis, 2001, (with Dimaranan, B. V.)

#### ***Other Technical and Working Papers in press (1)***

“Disaggregating Labor Payments in the GTAP Database.” *GTAP Technical Paper series*, West Lafayette, IN: Center for Global Trade Analysis, forthcoming, (with C. Carrico)

#### ***Other Technical and Working Papers (28)***

“Capital and labor Substitution in Computable General Equilibrium Models”, ImpactECON Working Paper No. 03, ImpactECON: Boulder, CO, USA, 2015 (with C. Lakatos and P. Minor).

“Willingness to Pay in CGE Models”, ImpactECON Working Paper No. 04, ImpactECON: Boulder, CO, USA, 2015 (with P. Minor)



- “Reconciling the GTAP Data Base: Where are the big changes?”, ImpactECON Working Paper No. 05, ImpactECON: Boulder, CO, USA, 2015 (with B. Narayanan, A. Aguiar and R. McDougall).
- “Impacts of Removing Refined Oil Import Subsidies in Nigeria on Poverty.” *World Bank Working Paper Series*, WPS 7376, 2015, (with K. A. Siddig, P. Minor, Aguiar, and H. Grethe)
- "Understanding the Slowdown in Foreign Investment in China" *GTAP Research Memorandum* 26, West Lafayette, IN: Center for Global Trade Analysis, 2014, (with E. Ianchovichina and T. W. Hertel)
- “MyGTAP Model: A Model for Employing Data from the MyGTAP Data Application—Multiple Households, Split Factors, Remittances, Foreign Aid and Transfers.” *GTAP Working Paper series* 78, West Lafayette, IN: Center for Global Trade Analysis, 2013, (with P. Minor)
- “MyGTAP: A Program for Customizing and Extending the GTAP Database for Multiple Households, Split Factors, Remittances, Foreign Aid and Transfers.” *GTAP Working Paper series* 79, West Lafayette, IN: Center for Global Trade Analysis, 2013, (with P. Minor)
- "Deport or Legalize? An Economic Analysis of US Immigration Reform." *GTAP Working Paper series* 74, West Lafayette, IN: Center for Global Trade Analysis, 2013, (with A. Aguiar)
- "The Importance of Timing in the U.S. response to Illegal Immigrants: A Recursive Dynamic Approach." *GTAP Working Paper series* 75, West Lafayette, IN: Center for Global Trade Analysis, 2013, (with A. Aguiar)
- “Introduction to the Global Trade Analysis Project and the GTAP Data Base.” *GTAP Working Paper series* 67, West Lafayette, IN: Center for Global Trade Analysis, 2012, (with A. Aguiar and B. Narayanan)
- “Projections for World CGE Model Baselines.” *GTAP Research Memorandum* 22, West Lafayette, IN: Center for Global Trade Analysis, 2011, (with T. C. Chappius)
- “Labor Migration and Growth in East and South-East Asia.” *World Bank Policy Research Working Paper* 6643, Washington DC, USA: World Bank, 2010, (with A. Aguiar, and S. A. Ahmed)
- “A Global Multi-sector Multi-region Foreign Direct Investment Database for GTAP.” *GTAP Research Memorandum* 18, West Lafayette, IN: Center for Global Trade Analysis, 2010, (with C. Lakatos)
- “Measuring the Impact of the Movement of Labour Using a Model of Bilateral Migration Flows.” *Institute of Public Policy Research Working Paper Series*, London: Institute of Public Policy Research, 2009, (with L. A. Winters, and S. A. Ahmed)
- “Measuring the Impact of the Movement of Labour Using a Model of Bilateral Migration Flows.” *GTAP*

- Technical Paper 28*, West Lafayette, IN: Center for Global Trade Analysis, 2007, (with L. A. Winters, and S. A. Ahmed)
- “Quantifying International Migration: A Database of Bilateral Migrant Stocks.” *World Bank Policy Research Working Papers* 4165, Washington DC, USA: World Bank, 2007, (with C. R. Parsons, R. Skeldon, and L. A. Winters)
- “The GMig2 Data Base: A Data Base of Bilateral Labor Migration, Wages and Remittances.” *GTAP Research Memorandum* 6, West Lafayette, IN: Center for Global Trade Analysis, 2005, (with S. A. Ahmed, and C. R. Parsons)
- “The Impact of Liberalizing Labour Mobility in the Pacific Region.” *Pacific Studies Series: Toward a New Pacific Regionalism, An Asian Development Bank-Commonwealth Secretariat Joint Report to the Pacific Islands Forum Secretariat Working Paper* 3(17), 2005, (with S. A. Ahmed, and C. R. Parsons)
- “Quantifying the international bilateral movements of migrants.” *Development Research Centre on Migration, Globalization and Poverty Working Paper* WP-T13, Sussex, United Kingdom: Sussex University, 2005, (with Parsons, C. R., R. Skeldon, and L. A. Winters)
- “The Impact of China’s WTO Accession on East Asia.” *World Bank Policy Research Working Paper Series* 3109, Washington DC, USA: World Bank, 2003, (with E. Ianchovichina)
- “Assessing the Impact of the Internet on International Trade for the Selected Eastern and African Countries.” *Regional Integration Research Network Papers*, Zambia: COMESA, 2003, (with C. Cheelo and T. Munalula)
- “Relaxing Restrictions on the Temporary Movement of Natural Persons: A Simulation Analysis.” *Centre for Economic Policy Research (CEPR) Discussion Paper* 3719, Sussex, United Kingdom: Sussex University, 2003, (with L. A. Winters)
- “Bilateral Free Trade Agreements and Customs Unions: The Impact of the EU Republic of South Africa Free Trade Agreement on Botswana.” *GTAP Working Paper* 29, West Lafayette, IN: Center for Global Trade Analysis, 2003, (with S. McDonald)
- “Liberalising Labor Mobility under the GATS.” *Commonwealth Economic Paper Series* 53, London, UK: Commonwealth Secretariat, 2002, (with L. A. Winters, Z. K. Wang, and R. Grynberg)
- “Contributing Input-Output Tables to the GTAP Data Base.” *GTAP Technical Paper* 1, West Lafayette, IN: Center for Global Trade Analysis, 2000, (with K. Huff, and R. A. McDougall)
- “Incorporating International Capital Ownership into the GTAP Model: Results for Asia-Pacific Trade Liberalisation.” *Impact Project Technical Paper* IP-72, Melbourne, Australia: Centre for

Policy Studies, 1999

“Long-Run Simulations with GTAP: Illustrative Results from APEC Trade Liberalisation.” *GTAP Technical Paper 9*, West Lafayette, IN: Center for Global Trade Analysis, 1998

***Other Papers, Models, Training documents and Reports (35)***

*ImpactECON Supply Chain Database: Documentation of data sources and the construction process of IE-SC\_v2.0*, ImpactECON Supply Chain Package, ImpactEcon Data and Model documentation No. 02, ImpactECON: Boulder, CO, USA, 2016 (with P. Minor)

*ImpactECON Supply Chain Model: Documentation of model changes*, ImpactECON Supply Chain Package, ImpactEcon Data and Model documentation No. 03, ImpactECON: Boulder, CO, USA, 2016 (with P. Minor)

*ImpactECON Supply Chain Operating Manual: Data and Model Programs*, ImpactECON Supply Chain Package, ImpactEcon Data and Model documentation No. 04, ImpactECON: Boulder, CO, USA, 2016 (with P. Minor)

*Vietnam 2035: The Vietnamese Economy through 2035: Alternative Baseline Growth, State-Owned Enterprise Reform, a Trans-Pacific Partnership and a Free Trade Area of Asia and the Pacific*, Report for Project Vietnam 2035, Vietnam-World Bank, 2015 (with P. Minor and A. Strutt)

*Globe v2: A SAM Based Global CGE Model using GTAP Data*, Report to Institute for Prospective Technological Studies, European Commission's Joint Research Centre (IPTS-JRC), Spain 2013, <http://www.cgemod.org.uk/globe2.html>, (with S. McDonald and K. Thierfelder)

*Globe: A User Guide*, Report to Institute for Prospective Technological Studies, European Commission's Joint Research Centre (IPTS-JRC), Spain, 2013, (with S. McDonald and K. Thierfelder)

*Improving the Representation of the U.S. in the MyGTAP Model with the disaggregation of Labor and Households*, Report to US International Trade Commission, 2013, (with A. Aguiar and C. Carrico)

*The Global Trade Analysis Project: Report, Issues and Future Directions*. GTAP Advisory Board Meeting, Shanghai, China: Center for Global Trade Analysis, 2013, (with Badri Narayanan and Angel Aguiar)

*Analysis of EU's Free Trade Agreements with the Andean Pact, and with Central America: A GTAP PE-GE Approach*. Report to the European commission, 2012

*The Global Trade Analysis Project: Report, Issues and Future Directions*. GTAP Advisory Board

- Meeting, Geneva, Switzerland: Center for Global Trade Analysis, 2012
- “Where on Earth is Everybody? The Evolution of Global Bilateral Migration 1960-2000.”* VoxEU: August 2011, <http://www.voxeu.org/article/where-earth-everybody-global-migration-1960-2000>, (with C. Özden, C. Parsons, and M. Schiff)
- The Global Trade Analysis Project: Report, Issues and Future Directions.* GTAP Advisory Board Meeting, Venice, Italy: Center for Global Trade Analysis, 2011
- Trade and Sectoral Impacts of the Global Financial Crisis: A Dynamic CGE Analysis*, Report for UNESCAP, Bangkok, Thailand: UNESCAP, 2010, (with A. Strutt)
- The Global Trade Analysis Project: Report, Issues and Future Directions.* GTAP Advisory Board Meeting, Penang, Malaysia: Center for Global Trade Analysis, 2010
- The Global Trade Analysis Project: Report, Issues and Future Directions.* GTAP Advisory Board Meeting, Santiago, Chile: Center for Global Trade Analysis, 2009
- Regional I-O Tables and the GTAP Data Base.* GTAP Advisory Board Meeting, Santiago, Chile: Center for Global Trade Analysis, 2009, (with C. Lakatos)
- The Global Trade Analysis Project: Report, Issues and Future Directions.* GTAP Advisory Board Meeting, Helsinki, Finland: Center for Global Trade Analysis, 2008
- Regional I-O Tables and the GTAP Data Base.* GTAP Advisory Board Meeting, Helsinki, Finland: Center for Global Trade Analysis, 2008, (with T. Mirza)
- Exercises in Contributing I-O Tables to the GTAP Data Base.* Teaching Documentation produced for Short Course on Contributing I-O tables to the GTAP Data Base, West Lafayette, IN: Center for Global Trade Analysis, 2008, (with M. Horridge, R. A. McDougall, and B. Narayanan) [https://www.gtap.agecon.purdue.edu/resources/res\\_display.asp?RecordID=2850](https://www.gtap.agecon.purdue.edu/resources/res_display.asp?RecordID=2850)
- GTAP Model Version 6.2a*, West Lafayette, IN: Center for Global Trade Analysis, 2007, [https://www.gtap.agecon.purdue.edu/resources/res\\_display.asp?RecordID=2458](https://www.gtap.agecon.purdue.edu/resources/res_display.asp?RecordID=2458), (with T. W. Hertel and R. A. McDougall)
- North American Competitiveness and Labor Market Interdependence*, Report to Monterey Institute of International Studies, 2007, (with Raul Hinojosa Ojeda, R. McCleery, and F. De Paolis)
- Asian Migration Prospects: 2007-2012.* Report to Asian Development Bank, Manila: Asian Development Bank, 2007, (with S. A. Ahmed)
- The Global Trade Analysis Project: Report, Issues and Future Directions.* GTAP Advisory Board Meeting, West Lafayette, IN: Center for Global Trade Analysis, 2007

*The Global Trade Analysis Project: Report, Issues and Future Directions.* GTAP Advisory Board Meeting, Addis Ababa, Ethiopia: Center for Global Trade Analysis, 2006

*Regional I-O Tables and the GTAP Data Base.* GTAP Advisory Board Meeting, Addis Ababa, Ethiopia: Center for Global Trade Analysis, 2006, (with T. Mirza)

*A Cross-Country Examination of I-O Shares using Entropy.* GTAP Advisory Board Meeting, Addis Ababa, Ethiopia: Center for Global Trade Analysis, 2006, (with T. Mirza)

*The Global Trade Analysis Project: Report, Issues and Future Directions.* GTAP Advisory Board Meeting, Lübeck, Germany: Center for Global Trade Analysis, 2005

*Regional I-O Tables and the GTAP Data Base.* GTAP Advisory Board Meeting, Lübeck, Germany: Center for Global Trade Analysis, 2005, (with S. Ahmed)

*Impact of Russia's WTO Accession on the Structure of the Russian Economy,* Report to the Organisation for Economic Cooperation and Development (OECD), 2004 (with Vitaly Kharitonov, Sergey Kiselev and Roman Romashkin)

*The Global Trade Analysis Project: Report, Issues and Future Directions.* GTAP Advisory Board Meeting, Washington D.C, USA: Center for Global Trade Analysis, 2004, (with T. W. Hertel)

Gempack version of SAM extraction program, in McDonald S. and K. Thierfelder, "Deriving a Global Social Accounting Matrix from GTAP Versions 5 and 6 Data", *GTAP Technical Paper* 22, West Lafayette, IN: Center for Global Trade Analysis, 2004, (with V. Kharitonov and T. Mirza)

*Using Entropy to Compare Shares.* GTAP Advisory Board Meeting, Washington D.C, USA: Center for Global Trade Analysis, 2004, (with R. A. McDougall).

*Modelling the Movement of Natural Persons.* West Lafayette, IN: Center for Global Trade Analysis, 2002.

*Hands-on Computing with RunGDYN: An Introduction to GTAP-Dyn.* Teaching Documentation produced for the Dynamic GTAP Short Course, West Lafayette, IN: Center for Global Trade Analysis, 2000, (with K. Itakura, E. Ianchovichina, and R. A. McDougall)

*A Baseline Scenario for the Dynamic GTAP Model.* GTAP Advisory Board meeting, West Lafayette, IN: Center for Global Trade Analysis, 2000, (with B. V. Dimaranan, and R. A. McDougall)

## PRESENTATIONS

<i>Summary of Presentations</i>	<i>Number</i>
<i>Invited Presentations</i>	35
<i>Conference Papers</i>	22
<i>Seminars and other</i>	44

### ***Invited Presentations at Conferences/Meetings/Seminar Series (35)***

“Knowledge Sharing and the CGE experience”, Third High-Level Meeting on Country-Led Knowledge Sharing, held at the World Bank, March 30-31 2016, Washington, DC.

"The Use of ILO Labour Statistics in GTAP datasets", Meeting on Potential Collaboration between the International Labour Office (ILO) and the Global Trade Analysis Project (GTAP), International Labor Office, Geneva, Switzerland, May 3, 2013

“Long term modelling: Projections for World Baselines”, Institute for Technological prospective Studies (ITPS), European Commission, Seville, Spain, November 15, 2012

“MyGTAP”, Institute for Technological prospective Studies (ITPS), European Commission, Seville, Spain, November 15, 2012

“The Global Trade Analysis Project”, Input-Output Users group workshop, Australian Bureau of Statistics, March 16, 2012

“The Global Trade Analysis Project”, IDE-JETRO International Workshop on “Frontier of International Input-Output Analyses”, Tokyo, Japan, February 1, 2012

"The Global Trade Analysis Project and Data Base", The first meeting of the Reunion Project, L'Hermitage-les-Bains, Réunion, 27-29 March 2011

“Migration and Growth in East Asia and the Pacific”, World Bank and IPS Conference on “Cross-Border Labor Mobility and Development in the East Asia and Pacific Region”, 1-2 June, Singapore, 2010

“The GTAP 7.1 Data Base: How the EU IO Tables were Incorporated”, WIOD Conference on Industry-Level Analyses of Globalization and its Consequences, Vienna, Austria, May 26-28, 2010

“Review of Productivity Commission Report: A CGE Analysis of some economic effects of trade agreements by Jomini, Zhang, Osborne, Thompson and Hone”, Productivity Commission Workshop on the Economic Effects of Trade Agreements, Canberra, May 17, 2010

- “Data Base Developments”, Workshop on the Development and Use of AGE Model Dynamic Baselines for Policy Analysis, USITC, Shanghai, China, June 14-15, 2010
- “Building and Applying Dynamic Baselines: The GTAP Approach “, Workshop on the Development and Use of AGE Model Dynamic Baselines for Policy Analysis, USITC, Shanghai, China, June 14-15, 2010
- “The Implementation of General Equilibrium Models for Paraguay”, Meeting and Book Launch on the Implementation of General Equilibrium Models for Paraguay, Asuncion, Paraguay, March 16-17, 2009. This speech was attended by several Paraguayan and MERCOSUR Ministers and Policy makers and was reported in the Paraguay press
- “The Global Trade Analysis Project”, United Nations Economic and Social Commission for Asia and the Pacific (UN ESCAP), Bangkok, Thailand, August 13, 2009
- “Lessons from using Historical Data to build a Macro Baseline for the Dynamic GTAP Model”, Organized session, 12th Annual Conference on Global Economic Analysis, UN Economic Commission for Latin America and the Caribbean, Santiago, Chile, June 10-12, 2009
- “The Dynamic GTAP Model and Current Research”, Australian Bureau of Agricultural and Research Economics (ABARE), Canberra, Australia, May 22, 2009
- “Operating a Modeling Consortium, Lessons and Initiatives for AGRODEP, and Areas for Possible Partnership with GTAP”, Planning Workshop on the African Growth and Development Policy (AGRODEP) Modeling Consortium, Dakar, Senegal, November 6-8, 2008
- “The Global Trade Analysis Project”, plenary speech at the Conference on Trade Liberalization and SAFTA: Opportunities, Concerns and Challenges, Rawalpindi, Pakistan, March 29-31, 2007. This speech was attended by the former Chief Economist of Pakistan and was reported in the Pakistani press (Dawn Islamabad).
- “The Liberalization of Temporary Migration: India’s Story”, Conference on Trade Liberalization and SAFTA: Opportunities, Concerns and Challenges, Rawalpindi, Pakistan, March 29-31, 2007
- “The GTAP Model”, Conference on Trade Liberalization and SAFTA: Opportunities, Concerns and Challenges, Rawalpindi, Pakistan, March 29-31, 2007
- “The Impact of Liberalizing Labor Mobility in the Pacific region”, Radio Australia, March, 2006
- “Measuring the Impact of the Movement of Labor Using a Model of Bilateral Migration Flows”, World Bank, Washington D.C., USA, May 6, 2005.
- Department for International Development (DfID), London, United Kingdom, July 1, 2005.

Fifth Poverty and Economic Policy (PEP) Annual General Meeting, Addis Ababa, Ethiopia, June 18-22, 2006.

Economic and Social Research Council (ESRC) seminar series on 'Trade in Services', Sussex University, United Kingdom, December, 1-2, 2005.

“Impact of Russia’s WTO Accession on the Structure of the Russian Economy”, Organisation for Economic Cooperation and Development (OECD) Regional Trade Forum on Economic and Trade Implications of WTO Accession, 3-4 June 2004, Almaty, Kazakhstan, 2004.

“Dynamic Effects of the “New Age” Free Trade Agreement between Japan and Singapore”, Asia-Pacific Economic Cooperation Capacity-Building Workshop on Quantification of Non-Tariff Measures and Trade Facilitation, Bangkok, Thailand, 8-10 October, 2003.

“Improving Communication with I-O Contributors”, Center for Global Trade Analysis Advisory Board Meeting, The Hague, The Netherlands, June, 2003.

“Implications of Relaxing Restrictions on the Temporary movement of Natural Persons”, Center for Global Trade Analysis Advisory Board Meeting, The Hague, The Netherlands, June, 2003.

“A Common Baseline for GTAP”, Center for Global Trade Analysis Advisory Board Meeting, Taipei, June, 2002.

“Graduate Seminar on the Dynamic GTAP Model”, 2 seminars

2002 ESRC Development Economics Study Group Annual Conference, University of Nottingham, United Kingdom, April, 2002.

2001 ESRC Development Economics Study Group Annual Conference, University of Nottingham, United Kingdom, April, 2001.

“Sharing Baseline Inputs”, Center for Global Trade Analysis Advisory Board Meeting, Purdue University, USA, June, 2001.

“Assessing the Impact of China’s Accession to the WTO on Foreign Ownership”, Conference on Greater China, Hong Kong University, Hong Kong, March, 2001.



### ***Conference Papers Presented (22)***

"Willingness to Pay in CGE models", 19<sup>th</sup> Annual Conference in Global Economic Analysis, World Bank, Washington D.C., June 15-17, 2016.

"Reconciling the GTAP Data Base: Where are the Big Changes?", 18<sup>th</sup> Annual Conference in Global Economic Analysis, Melbourne, Australia, June 17-19, 2015.

"The Dynamic GTAP Model", 16<sup>th</sup> Annual Conference in Global Economic Analysis, Shanghai, China, June 12-14, 2013.

"The Dynamic GTAP Model", 16<sup>th</sup> Annual Conference in Global Economic Analysis, Shanghai, China, June 12-14, 2013.

"An updated global baseline for the Dynamic GTAP model", 14<sup>th</sup> Annual Conference in Global Economic Analysis, Venice, Italy, June 16-18, 2011.

"Trade and Sectoral Impacts of the Global Financial Crisis: A Dynamic CGE Analysis", 13<sup>th</sup> Annual Conference in Global Economic Analysis, Penang, Malaysia, June 9-11, 2010.

"Training and Education: Progress and Future Directions for GTAP", Round Table on Education and Capacity Building, 12th Annual Conference on Global Economic Analysis, UN Economic Commission for Latin America and the Caribbean, Santiago, Chile, June 10-12, 2009.

"North American Competitiveness and Labor Market Interdependence", 10th Annual Conference on Global Economic Analysis, Purdue University, West Lafayette, IN, USA, June 7-9, 2007.

"The Liberalization of Temporary Migration: India's Story," 9th Annual Conference on Global Economic Analysis, Addis Ababa, Ethiopia, June 15-17, 2006.

"Measuring the Impact of the Movement of Labor Using a Model of Bilateral Migration Flows,"  
Annual General Meeting of the Association of American Geographers, Chicago, IL, USA, March 7-11, 2006.

8th Annual Conference on Global Economic Analysis, Lübeck, Germany, 9-11 June, 2005.

"The Impact of ROO on Africa's Textiles and Clothing Trade under AGOA," 7th Annual Conference on Global Economic Analysis, World Bank, Washington D. C., 17-19 June, 2004.

"Preferential Trade Agreements and the Optimal Liberalisation of Agriculture?",  
25th International Conference of Agricultural Economists, Durban, South Africa, 16-22 August. 2003.

6th Annual Conference on Global Economic Analysis, Scheveningen, The Hague, The

Netherlands, 12-14 June, 2003.

“Relaxing the Restrictions on the Temporary Movement of Natural Persons: A Simulation Analysis,” Fifth Annual Conference on Global Economic Analysis, Taipei, June, 2002.

“Assessing the Impact of China’s Accession to the WTO on Foreign Ownership,”

2002 Economic and Social Research Council (ESRC) Development Economics Study Group Annual Conference, Nottingham, UK, April, 2002.

Fourth Annual Conference on Global Economic Analysis, Purdue University, USA, June, 2001.

2001 Economic and Social Research Council (ESRC) Development Economics Study Group Annual Conference, Nottingham, United Kingdom, April, 2001.

“China’s Accession to the WTO: Timing is everything,”

Third Annual Conference on Global Economic Analysis, Melbourne, Australia, June, 2000.

2000 Economic and Social Research Council (ESRC) Development Economics Study Group Annual Conference, Nottingham, United Kingdom, April, 2000.

“Incorporating International Capital Ownership into the GTAP Model: Results for Asia-Pacific Trade Liberalisation,” Second Annual Conference on Global Economic Analysis, Denmark, June, 1999.

“Long-Run Simulations with GTAP: Illustrative Results from APEC Trade Liberalisation,” First Annual Conference on Global Economic Analysis, Purdue University, USA, June, 1998.

### ***Other Presentations (44)***

- “GTAP Advisory Board Meeting: Overview and Issues”, Center for Global Trade Analysis Advisory Board Meeting, ITC-Geneva, Switzerland, June 25-26, 2012
- “Budget and Staffing”, Center for Global Trade Analysis Advisory Board Meeting, ITC-Geneva, Switzerland, June 25-26, 2012
- “Africa Project”, Center for Global Trade Analysis Advisory Board Meeting, ITC-Geneva, Switzerland, June 25-26, 2012
- “GTAP Advisory Board Meeting: Overview and Issues”, Center for Global Trade Analysis Advisory Board Meeting, FEEM, Venice, Italy, June 13-14, 2011
- “Budget and Staffing”, Center for Global Trade Analysis Advisory Board Meeting, FEEM, Venice, Italy, June 13-14, 2011
- “Trade and Sectoral Impacts of the Global Financial Crisis: A Dynamic CGE Analysis”, University of Adelaide, Adelaide, Australia, September, 6, 2010
- “Measuring the Impact of the Movement of Labor Using a Model of Bilateral Migration Flows,” University of Melbourne, April, 2010
- “GTAP Advisory Board Meeting: Overview and Issues”, Center for Global Trade Analysis Advisory Board Meeting, UNESCAP, Malaysia, Penang, June 7-8, 2010
- “Commodity Taxes in the GTAP Data Base”, Center for Global Trade Analysis Advisory Board Meeting, UNESCAP, Malaysia, Penang, June 7-8, 2010
- “Data Base: Progress and Future Directions”, Center for Global Trade Analysis Advisory Board Meeting, UNESCAP, Malaysia, Penang, June 7-8, 2010
- “The Dynamic GTAP Model,” Monash University, Melbourne, Australia, May, 2009
- “Overview and Issues”, Center for Global Trade Analysis Advisory Board Meeting, UNECLAC, Santiago, Chile, 2009
- “Training and Education: Progress and Future Directions”, Center for Global Trade Analysis Advisory Board Meeting, UNECLAC, Santiago, Chile, 2009
- “Budget and Staffing”, Center for Global Trade Analysis Advisory Board Meeting, UNECLAC, Santiago, Chile, 2009
- “Revisit Priorities for Forthcoming Year”, Center for Global Trade Analysis Advisory Board Meeting, UNECLAC, Santiago, Chile, 2009
- “Measuring the Impact of the Movement of Labor Using a Model of Bilateral Migration Flows,”

- Monash University, Melbourne, Australia, November, 2008
- Macquarie University, Sydney, Australia, March, 2008
- “Overview of Agenda and Last Year’s Action Plan”, Center for Global Trade Analysis Advisory Board Meeting, VATT and WIDER, Helsinki, Finland, 2008
- “Regional Data Bases”, Center for Global Trade Analysis Advisory Board Meeting, VATT and WIDER, Helsinki, Finland, 2008
- “Budget, Policies and Staff Plan”, Center for Global Trade Analysis Advisory Board Meeting, VATT and WIDER, Helsinki, Finland, 2008
- “Revisit Priorities for Forthcoming Year”, Center for Global Trade Analysis Advisory Board Meeting, VATT and WIDER, Helsinki, Finland, 2008
- “Overview of Agenda and Last Year’s Action Plan”, Center for Global Trade Analysis Advisory Board Meeting, Purdue University, West Lafayette, USA, 2007
- “Budget, Policies and Staff Plan”, Center for Global Trade Analysis Advisory Board Meeting, Purdue University, West Lafayette, USA, 2007
- “Revisit Priorities for Forthcoming Year”, Center for Global Trade Analysis Advisory Board Meeting, Purdue University, West Lafayette, USA, 2007
- “Dynamic Modeling Learning Session,” 8th Annual Conference on Global Economic Analysis, Lübeck, Germany, June, 2005
- “The Global Trade Analysis Project,” Industrial College of the Armed Forces (ICAF) Agribusiness Industry Study, Purdue University, April, 2004
- “Seminar on the Dynamic GTAP Model,” GTAP Seminar Series, Purdue University, USA, March, 2004
- “Relaxing the Restrictions on the Temporary Movement of Natural Persons: A Simulation Analysis,” 2 seminars:
- Agricultural Economics Departmental Seminar Series, Purdue University, USA, May, 2003
- Department of Economics Seminar Series, University of Sheffield, United Kingdom, February, 2003
- “Relaxing the Restrictions on the Temporary Movement of Natural Persons: A Simulation Analysis”, Department of Economics Seminar Series, Sussex University, United Kingdom, October, 2002
- “China’s Accession to the WTO: Timing is everything,” 2 seminars:

Department of Economics Seminar Series, University of Sheffield, United Kingdom, 2000

Department of Agricultural Economics Seminar Series, Reading University, United Kingdom,  
2000

“Overview of Dynamic GTAP Model”, Center for Global Trade Analysis Advisory Board

Meeting, Melbourne, Australia, June, 2000

“Long-Run Simulations of GTAP: Initial results for APEC in a Horridge Style Closure,” 2 seminars:

1997 Advanced Global Trade Analysis Course, Purdue University, USA, June 8-14, 1997

Centre of Policy Studies Seminar Series, Monash University, Melbourne, Australia, 1997

## **PROGRAMMING EXPERIENCE**

Mathematical programming languages: Gempack, GAMS

Econometric/Statistical languages: R

Programming languages: Fortran, MS-DOS, AWK, BASH.

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