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EDUCATION

Ph.D, Economics, University of Pittsburgh, Major Field: International Trade

M.A., Economics, University of Pittsburgh

B.A., Economics, *Magna Cum Laude*, Millersville University

PROFESSIONAL EMPLOYMENT HISTORY

Adjunct Professor of Economics, American University, Washington DC, January 2017 to the present.

May 2016 to the present, Senior Economist, Development Macroeconomics Division, Research Department, International Monetary Fund. My responsibilities include conducting research on issues in the field of international trade.

December 2014 to April 2016, Senior Economist, Economic Modeling Unit, Research Department, International Monetary Fund. Responsible for monitoring economic developments for a group of countries and developing forecasts for growth and inflation. Also, included identifying trends and developments in global trade.

December 2012 to December 2014, Senior Economist, Institute For Capacity Development, International Monetary Fund. Responsible for teaching courses on topics in macroeconomics and international economics. See teaching experience below.

February 2011 to December 2012, Senior Economist, Economic Modeling Unit, Research Department, International Monetary Fund. Responsible for monitoring economic developments for a group of countries and developing forecasts for growth and inflation.

November 2007 to February 2011, Senior Economist, Macroeconomic Studies Division, Research Department, International Monetary Fund. Major Responsibilities include research on issues related to low-income countries, such as developing methodologies to assess exchange rates of low-income countries.

October 2002 to November 2007, Senior Economist, Trade and Investment Division, International Monetary Fund, Research Department. Major responsibilities include research and analysis of issues in international trade policy, including agricultural trade policy.

December 2001 to October 2002, Senior Economist, International Monetary Fund, Research Department, World Economic Studies Division. Major responsibilities included contributing material to the *World Economic Outlook* and conducting research.

July 2001 to December 2001, Senior Economist, International Monetary Fund, Research Department, Commodities and Special Issues Division. Major responsibilities included following developments in commodity markets and conducting research.

May 2001-June 2001, Senior Economist, International Monetary Fund, Western Hemisphere Department, Caribbean II Division. Major work included country work on Jamaica.

September 1999-April 2001, Economist, International Monetary Fund, Western Hemisphere Department, Caribbean II Division. Major responsibilities included country work on Jamaica and St. Kitts and Nevis, and regional economic issues.

May 1997-September 1999, Economist, International Monetary Fund, Western Hemisphere Department, North American Division. Responsibilities included analysis of economic developments in Canada (external sector issues) and the United States.

May 1994-May 1997, Economist, International Monetary Fund, Western Hemisphere Department, Caribbean Division. Major responsibilities included country officer for Dominica and mission work on Grenada.

May 1993-April 1994, Economist, (Economist program) International Monetary Fund, Research Department, Economic Modeling and External Adjustment Division. Major activities included research on topics in international economics.

May 1992-April 1993, Economist, (Economist program) International Monetary Fund, Western Hemisphere Department, Atlantic Division. Major responsibilities included country work on Trinidad and Tobago and St. Kitts and Nevis.

July 1989-April 1992, International Economist, U.S. International Trade Commission, Office of Economics, Research Division, Washington, D.C. Major responsibilities included conducting research on the effects of changes in international trade policy, using partial and general equilibrium modeling techniques.

October 1988-July 1989, Economist, Economic Research Service, U.S. Department of Agriculture, Washington, D.C. Major responsibilities included using an applied general equilibrium model of the United States to analyze the effects of changes in agricultural and trade policies.

## TEACHING EXPERIENCE

January 2017 to the present, Adjunct Professor of Economics, American University. Taught (i) Intermediate Microeconomic Theory to undergraduates; and (ii) International Economics to Masters students and undergraduates in the School of International Service (SIS).

January 2013-October 2014, Instructor of various courses offered by the Institute for Capacity Development, International Monetary Fund. I taught seven courses during this period, most were two weeks in duration, one was four weeks. The courses included topics in macroeconomics, international economics, fiscal policy, natural resources, and interpreting and analyzing macroeconomic data. Courses were designed for economists working in central banks and ministries of finance. Courses were held in either Washington DC, Vienna Austria, or Kuwait.

September 1985-December 1987, Teaching Fellow, University of Pittsburgh. Responsibility for teaching both Principles of Macroeconomics and Microeconomics courses.

September 1983-September 1985, Teaching Assistant, University of Pittsburgh. Responsibility for teaching recitation sections and grading for Principles of Macroeconomics and Microeconomics courses.

## TEACHING AND RESEARCH INTERESTS

International Trade Theory and Policy, Applied General Equilibrium Models, issues related to external competitiveness, tax policy, political economy of trade policy, welfare effects of globalization, agricultural trade policy.

## ACADEMIC HONORS AND AWARDS

Recipient of Alumni Association Scholarship, Millersville University

Membership in Pi Gamma Mu, International Social Science Honor Society

Recipient of teaching assistantships and fellowships from the University of Pittsburgh, Department of Economics, 1983-1988.

Invited Participant, Scholar-In-Residence Program, Millersville University, April 1995.

Recipient of award given by the Research Department, IMF, 2012, for “Exceptional Efforts and Innovation in GPM Work,” \$500.

## RESEARCH ACTIVITIES

### Working Papers:

“Endogenous Tariff Formation in a Computable General Equilibrium Model,” Paper Presented at the Eastern Economic Association Meetings, March 1989, Baltimore Maryland.

“Competitiveness Indicators: A Theoretical and Empirical Assessment,” (with Ian Marsh), International Monetary Fund, Working Paper 94/29, 1994.

“The Welfare Consequences of U.S. Export-Enhancing Tax Provisions,” (with Don Rousslang), International Monetary Fund, Working Paper 94/50, 1994.

“External Shocks, the Real Exchange Rate, and Tax Policy,” International Monetary Fund, Working Paper 94/88, 1994.

“Considerations in Reducing Inflation From Low to Lower Levels,” International

Monetary Fund, Working Paper 98/109, 1998.

“Why Has Inflation in the United States remained So Low? Reassessing the Importance of Labor Costs and the Price of Imports,” International Monetary Fund, Working Paper 99/149, 1999.

“Quantifying the Impact of Trade on Wages: The Role of Nontraded Goods,” International Monetary Fund, Working Paper 02/191. This paper was presented at the Third Annual European Trade Study Group Conference, Brussels Belgium, September 2001.

“Measuring the Impact of Distortions in Agricultural Trade,” International Monetary Fund, Working Paper 03/110. Results were quoted in the *Wall Street Journal* and discussed in the Economic Focus section of the *Economist*, March 2005.

“What Do We Know About Tariff Incidence?”, International Monetary Fund, Working Paper 04/182, paper presented at the Canadian Economics Association Meetings, May 2004.

“Trade and Growth in the Presence of Distortions,” International Monetary Fund, Working Paper 05/12, paper presented at the Midwest International Economics Meetings, April 2005.

“Immiserizing Foreign Aid: The Roles of Tariffs and Nontraded Goods,” International Monetary Fund, Working Paper 06/129.

“Does Import Protection Discourage Exports?” note prepared for WTO, International Monetary Fund, Working Paper 06/20, 2006. Results quoted in the *Financial Times*.

“Estimating the Robustness of Trade Restrictiveness Indices”, Working Paper 2006.

“The Macroeconomic Effects of Trade Liberalization,” with Ehsan Choudhri and Hamid Faruquee, International Monetary Fund, Working Paper 06/304.

“Outsourcing and Competitiveness in Southern Europe,” background paper prepared for IMF consultations with France, Greece, Italy, Portugal, and Spain, 2007.

“Should Developing Countries Worry About Immiserizing Growth?” This paper Examines the conditions under which a country could be harmed by factor accumulation. Also, contains empirical estimates.

“Real Exchange Rates and the Terms of Trade: Some Theory and Evidence” This

paper points out that although there is a presumption that a terms-of-trade improvement leads to a real appreciation, the effect is ambiguous in theory. The paper examines the empirical evidence.

“A Method For Calculating Export Supply and Import Demand Elasticities.” This paper discusses a method for estimating elasticities without using econometrics. International Monetary Fund Working Paper 10/180, July 2010.

“The Implications of China’s Pattern of Growth for the Rest of the World,” in progress.

#### Articles in Refereed Journals:

“United States Adjustment in the 1990s: A CGE Analysis of Alternative Trade Strategies,” (with Ken Hanson and Sherman Robinson), *International Economic Journal*, vol. 7, number 2, Summer 1993, pp. 27-49.

“The Welfare Consequences of U.S. Export-Enhancing Tax Provisions,” (with Don Rousslang), *IMF Staff Papers*, vol. 41, no. 4, December 1994, pp. 675-683.

“Estimating the Welfare Cost of Tariffs: The Roles of Leisure and Domestic Taxes” (with Don Rousslang), *Oxford Economic Papers*, vol. 47, no. 1, January 1995, pp. 83-97.

“External Shocks, the Real Exchange Rate, and Tax Policy,” *IMF Staff Papers*, vol. 42, no. 1, March 1995, pp. 49-79.

“Friends, Enemies, and Factor Diversification: Implications for Protectionist Pressures,” *Journal of Economic Integration*, vol. 10, no.4, December 1995, pp. 434-443.

“Export Promotion: The Role of Transportation Subsidies,” *Journal of Economic Studies*, vol. 23, issue no. 4, December 1996, pp. 50-63. This paper received a citation of excellence from the editorial board.

“An Assessment of Three Measures of Competitiveness,” (with Ian Marsh), *Weltwirtschaftliches Archiv*, vol. 132(4), December 1996, pp. 700-722.

“Who Bears the Cost of Agricultural Support in OECD Countries?” *World Economy*, vol. 28, issue 4, April 2005, pp. 573-593.

“Quantifying the Impact of Trade on Wages: The Role of Nontraded Goods,” *Review of International Economics*, (lead article), vol. 13, issue 5, November, 2005 pp. 841-860.

“A Simple Rule For Assessing Tariff and Tax Incidence,” *Economics Letters*, Volume 93, issue 1, October 2006, pp. 116-120.

“How Large Is the Bias Against Exports From Import Tariffs?” *World Trade Review*, volume 6, issue 2, July 2007, pp. 193-212.

“Trade and Growth in the Presence of Distortions,” (with James Cassing), *Journal of International Trade and Economic Development*, vol. 16, no. 4, December 2007, pp. 475-504.

“Dispelling Some Misconceptions About Agricultural Trade Liberalization,” *Journal of Economic Perspectives*, volume 22, number 1, Winter 2008, pp. 199-216.

This paper will be included in a volume titled, *Macromarketing* edited by Stanley J. Shapiro (Simon Fraser University), Mark Tadajewski (University of Leicester) and Clifford J. Shultz (Arizona State University), which will be published by SAGE Publications in July 2009, as part of the Sage Library in Marketing. The work will be published as four reprinted volumes with an introduction by the editors.

This paper was also selected as one of the 50 best articles published in 2008 in management and has been awarded an Emerald Management Reviews Citation of Excellence.

“Commodity Currencies and the Real Exchange Rate,” *Economics Letters*, volume 101, October 2008, pp. 60-62.

“Welfare Worsening Aid Flows To Small Countries,” *Review of Development Economics*, volume 12, no. 4, November 2008, pp. 818-827.

“Trade Liberalization, Macroeconomic Adjustment, and Welfare: How Costly Are Nominal Rigidities,” with Ehsan Choudhri and Hamid Faruquee, *IMF Economic Review*, volume 59, number 3, August 2011, pp. 455-487.

“A Method For Calculating Export Supply and Import Demand Elasticities” *Journal of International Trade and Economic Development*, volume 23, no. 7, April 2014, pp. 1059-1087.

Other Publications and Book Reviews

“Aligning Trade With Aid,” *Finance and Development*, vol. 42, no. 1, March 2005 pp. 30-33.

“Trade Liberalization in the Caribbean,” (with Janet Stotsky and Esther Suss), *Finance and Development*, June 2000, pp. 22-25.

“Developments and Challenges in the Caribbean Region,” (with S. Itam, S. Cueva, E. Lundback, and J. Stotsky), *Occasional Paper No. 201*, International Monetary Fund, 2000.

Book review of “Measuring the Restrictiveness of International Trade Policy,” by James Anderson and J. Peter Neary, published in *World Trade Review*, volume 5, issue 3, November 2006, pp. 495-498.

“External Performance in Low-Income Countries,” (with Alessandro Prati, Luca Ricci, Lone Christiansen, and Thierry Tressel), *Occasional Paper 272*, International Monetary Fund, 2011. Drafted chapters 6 and 7 on trade elasticities.

“Large Gains, Small Losses,” *Finance and Development*, volume 53, number 4, December 2016.

#### Conference Presentations and Discussant Activities

Invited participant, NBER Applied General Equilibrium Workshop, September 1989, San Diego, California.

Discussant, "Exchange Rates and South Korean Exports to OECD Countries", by William Ross, American Economic Association Meetings, December 1989.

Discussant, "A Study of the Impact of a U.S.-Mexico Free Trade Agreement on Medium Term Employment, Wages, and Production in the United States: Are New Labor Market Policies Needed?" paper presented at a conference sponsored by the Center for Strategic and International Studies, Washington D.C., June 1991.

Discussant, "Distributional Impacts of Alternative Proposals for Health Care Financing Reform," by Charles Ballard and John Goddeeris. This paper was presented at the Third CGE Modelling Conference on Applications and Methodology, Wilfrid Laurier University, Waterloo Canada, October 1992.

Invited participant, Fifth International CGE Modeling Conference, October 1994. Presentation on "Computation of Ramsey Taxes in the Presence of Collection Costs."



Discussant, "Growth, Globalization, and Gains From the Uruguay Round," by Tom Hertel, Christian Bach, Betina Dimaranan, and Will Martin. Paper presented at the Sixth CGE Modelling Conference, Waterloo University, Waterloo Canada, October 1995.

Discussant, "Trade, Migration, and Welfare: The Impact of Social Capital," by Maurice Schiff. Paper presented at the Canadian Economics Association Meetings, Toronto, May 1999.

Panelist, Conference on Trade Agreements and Migration, Fourth International Metropolis Conference, Washington D.C., December 1999.

Discussant, paper on growth, development, and agriculture, Eastern Economic Association Meetings, February 2003.

Interview for an article on reform of agricultural policies, published in *IFPRI Forum*, March 2003

Paper presentation, "Who Bears the Cost of Agricultural Support in OECD Countries?" at the European Workshop on International Trade, Bern Switzerland, June 2003.

Discussant, "Is Agricultural Liberalization Beneficial to Developing Countries?" Empirical Trade Analysis Conference, Washington D.C., January 2004.

Invited Participant, Experts Meeting on the Effects of Removing Support Applied to Cotton, Food and Agriculture Organization, Rome, May-June 2004.

Invited Participant, Meeting on Quantifying the Impact of Non-Tariff Barriers to International Trade, sponsored by the United Nations Conference on Trade and Development, Geneva Switzerland, November 2005.

Paper presented "Estimating the Robustness of Trade Restrictiveness Indices," at the Tenth Conference on Global Modeling, Purdue University, June 2007, and at the European Economic Association Meetings, Budapest, August 2007.

Invited participant, Workshop on the economic impact of agricultural trade policies, sponsored by the Food and Agriculture Organization (FAO), Rome May 2009.

Invited speaker, Penn Development Conference, delivered remarks on the implications of growth in China and policy responses by other countries, University of Pennsylvania, November 2011.

Presented paper titled, “Should Countries Worry About Immiserizing Growth?” Paper has been presented in the International Trade and Development Seminar Series, University of Pittsburgh, Department of Economics, April 2016; European Trade Study Group Conference Helsinki September 2016; and the Midwest International Trade Conference, Purdue University, December 2016. Also presented at the Conference of the European Economic and Finance Society Meetings June 2009, Warsaw Poland, and at the Canadian Economic Association Meetings, June 2008.

Presented various papers at annual conferences sponsored by the Global Trade Analysis Project (GTAP), 2005, 2007, 2011, and 2017.

Panelist, Session on trade policy, American Economic Association Meetings, January 2017. Offered views on current issues in trade policy.

Invited participant, panel discussion held at the U.S. International Trade Commission, Washington D.C., April 2017, on how international trade impacts labor markets

Served as Referee for the following journals:

*International Economic Journal, European Economic Review, Review of International Economics, Review of Development Economics, Review of Agricultural Economics, World Trade Review, Contemporary Economic Policy, Oxford Bulletin of Economics and Statistics, Journal of International Trade and Economic Development, Journal of International Economics, Journal of Asian Economics, Southern Economic Journal.*

## RESEARCH REPORTS

Drafted sections of two notes for the World Trade Organization that evaluated proposals by developing countries for special and differential treatment related to export financing and duty-drawback schemes, January 2003.

Drafted an essay titled, “How Do Industrial Country Agricultural Policies Affect Developing Countries?” *World Economic Outlook*, September 2002, pp. 81-91.

Drafted sections of a chapter titled, “Recessions and Recoveries” *World Economic Outlook*, April 2002, Chapter III, pp. 104-137.

Conducted analysis for a section of a USITC report on the likely impact of barriers to trade in services: the U.S. broadcast industry. This report was one of a series on the Economic Effects of Significant Import Restraints, Phase III: Services, 1991-92.

Designed methodology and constructed a partial equilibrium model to analyze the effects of transportation subsidies on agricultural products exported from Canada to the United States. The model and the analysis is contained in chapter 5 of USITC publication 2472, "Alfalfa Products: Conditions of Competition Between the U.S. and Canadian Industries," December 1991.

Designed methodology and constructed a linked computable general equilibrium model of the U.S and Mexican economies (with Kyle Johnson) to assess the likely impact of a U.S.-Mexico free trade agreement on real wages in the United States.

Designed methodology (with Richard Boltuck) and authored one chapter for USITC publication 2314, "The Economic Effects of Significant Import Restraints, Phase II: Agricultural Products and Natural Resources", Report to the Committee on Finance of the U.S. Senate, September 1990.

Contributed economic analysis and authored a section of USITC Publication 2276, "Estimated Tariff Equivalents of U.S. Quotas on Agricultural Imports and Analysis of Competitive Conditions in U.S. and Foreign Markets for Sugar, Meat, Peanuts, Cotton, and Dairy Products", Report to the President, April 1990.

## IMF MISSION EXPERIENCE

Participant in three IMF missions to Jamaica. Areas of responsibility included analyzing developments in the real sector (GDP, prices, and employment) and the external sector (balance of payments, exchange rates, and external debt). Also, I completed a background paper on the issue of external competitiveness. In April 2000, I participated in a mission that worked out a two-year staff-monitored program.

Participant in two IMF missions to Canada. Major areas of responsibility included completing background papers on tax reform, the brain drain, and inflation targeting. Also, responsibility for developing WEO forecasts for the current account.

Participant in two IMF missions to the United States. Major areas of responsibility included completing background papers on Social Security reform and income tax reform. Responsibility also for recent developments in trade policy.

Participant in five IMF missions to Dominica. Major areas of responsibility included analyzing issues related to the operations of the public sector (central government and the public enterprises). Also, provided inputs to country reports.

Participant in three IMF missions to Grenada. Major areas of responsibility included compiling and analyzing data on aggregate output, prices, the balance of payments, and monetary aggregates.

Participant in two IMF missions to Trinidad and Tobago. Major areas of responsibility included analyzing developments in output, prices, and employment. Also, I constructed an applied general equilibrium model of the economy to assess the effects of proposed changes in trade policy on the real exchange rate and the fiscal position of the central government. Special attention was paid to the issue of how to replace revenue lost from trade liberalization with other taxes.

Participant in two IMF Article IV missions to St. Kitts and Nevis. Major areas of responsibility included analyzing developments in national output, prices, and the monetary sector. During the 2000 Article IV consultation mission, I had responsibility for analysis of public sector issues (taxation and spending), as well as editing the recent economic developments paper.

## RESEARCH GRANTS

Received funding from the U.K. Department For International Development (DFID) in the amount of £89,835 in support of a joint project with UNCTAD to construct a database containing historical information on tariff and other trade barriers across countries. Project contains various indicators of protection, including trade restrictiveness indices (TRIs). Project was completed in summer 2012.

## COMPUTER SKILLS

Knowledge of GAMS, and some exposure to GEMPACK. Completed GTAP short modeling course, Purdue University, August 2003. Familiar with Microsoft Office applications, e.g. Word and Excel.

## REFERENCES

Dr. James Cassing, Retired Professor of Economics, University of Pittsburgh, Pittsburgh, Pa. 15260. E-mail: [jcassing@pitt.edu](mailto:jcassing@pitt.edu). Phone: 412-606-9666.

Dr. Gene Gruver, Retired Professor of Economics, University of Pittsburgh, Pittsburgh Pa. 15260. E-mail: [gruvergm@gmail.com](mailto:gruvergm@gmail.com). Phone: 412-760-3670.

Dr. Hamid Faruqee, Assistant Director, Western Hemisphere Department, International Monetary Fund, 700 19<sup>th</sup> Street NW, Washington DC, 20431. E-mail: [hfaruqee@imf.org](mailto:hfaruqee@imf.org). Phone: 202-623-7332.

References Regarding Teaching:

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Mr. Suman Basu, Economist, Research Department, International Monetary Fund, 700 19<sup>th</sup> Street NW, Washington DC, 20431. E-mail: [sbasu2@imf.org](mailto:sbasu2@imf.org). Phone: 202-623-8543.

Mr. Juan Jose Fernandez-Ansola, Senior Consultant, Independent Evaluation Group, World Bank, 1818 H Street NW, Washington DC and Member of Teaching Team, International Monetary Fund, Institute for Capacity Development, Washington DC, 20431. E-mail: [jfernandezansola@worldbank.org](mailto:jfernandezansola@worldbank.org) or [jfernandezansola@gmail.com](mailto:jfernandezansola@gmail.com). Phone: 202-473-0915.