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## **CURRENT POSITION**

**Economist, International Monetary Fund (IMF)** (September 2007 – Present)  
Middle East and Central Asia Department, Washington, D.C.

## **EDUCATION**

**Ph.D. Economics** (August 2005) The George Washington University (GWU). Dissertation title  
“Growth and Distributional Effects of trade Liberalization and Alternative Free Trade Agreements:  
A Macro-Micro Analysis with an Application to Egypt.”

**Master of Philosophy in Economics** (August 2001). GWU.

**Master of Arts in Economics** (August 1994) The American University in Cairo.

**Bachelor of Arts in Economics** (1997 – 1990) with a minor in Computer Science. The American  
University in Cairo (high honors).

## **IMF REPORTS AND PUBLICATIONS**

1. “FYR Macedonia: Options for Short-Term Expenditure Rationalization: Addressing Spending Inefficiencies” 2007 (with Marijn Verhoeven, Stephane Carcillo, Pablo Lopez Murphy, and Evgenij Najdov). Aide Memoire, Fiscal Affairs Department, International Monetary Fund.
2. “Central African Republic: Fiscal and Distributional Implications of Alternative Fuel Pricing Policies and Mitigating Measures” (with David Coady) 2007. Aide Memoire, Fiscal Affairs Department, International Monetary Fund.
3. “Gabon: Measures to Mitigate The Impact of the Elimination of Fuel Price Subsidies” (with Daniel Leigh) 2007. Aide Memoire, Fiscal Affairs Department, International Monetary Fund.
4. “Cameroon: Fiscal and Distributional Implications of Alternative Fuel Pricing Policies” (with David Coady) 2006. Aide Memoire, Fiscal Affairs Department, International Monetary Fund.
5. “The Magnitude and Distribution of Fuel Subsidies: Evidence from Bolivia, Ghana, Jordan, Mali, and Sri Lanka,” (with David Coady, Robert Gillingham, Roland Kpodar, Paulo Medas, and David Newhouse) IMF Working Paper No. 06/247 (Washington: International Monetary Fund).
6. “Fuel Price Subsidies in Gabon: Fiscal Cost and Distributional Impact” (with Daniel Leigh) IMF Working Paper No. 06/243 (Washington: International Monetary Fund). Also a selected issues paper.
7. “Moldova: Welfare and Distributional Effects of Energy Tariff Increases” (with Robert Gillingham) 2006. Technical Assistance Report, Fiscal Affairs Department, International Monetary Fund.
8. “A Note on the Approach for a PSIA on the Distributional Impact of Higher Petroleum Prices on Household Incomes: Steps and Implementation with STATA.” PSIA Review Paper, Fiscal Affairs Department, International Monetary Fund (IMF intranet; available upon request).

9. "Jordan: Distributional Effects of Eliminating Subsidies for Petroleum Products." (with Robert Gillingham) 2005. Technical Assistance Report, Fiscal Affairs Department, International Monetary Fund.
10. "Uganda: Distributional Effects of Alternative Indirect Tax Reforms." (with Robert Gillingham) 2005. Technical Assistance Report, Fiscal Affairs Department, International Monetary Fund.

## PUBLICATIONS

1. "A Review of Macro\_Micro Approaches for Evaluating the Distributional Impacts of Macroeconomic Reforms" forthcoming, in R Gillingham and D. Coady, eds., *Poverty and Social Impact Analysis in the IMF: Review of Methodology and Selected Evidence* (Washington: IMF)
2. "Algeria's Macroeconomic Performance From 1962 to 2000" (co-authored with Mohamed Cheminigui) 2007, in J. Nugent and H. Pesaran, eds., *Explaining Growth in the Middle East, Contributions to Economic Analysis*, Vol. 278 (Amsterdam: Elsevier).
3. "Poverty and Inequality Analysis in a General Equilibrium Framework: The Representative Household Approach." (co-authored with Hans Lofgren and Sherman Robinson) 2003. In F. Bourguignon, L. Pereira Da Silva, and N. Stern, eds., *Toolkit for Evaluating the Poverty and Distributional Impact of Economic Policies*, (Washington: Oxford University Press and The World Bank)
4. "Trade Liberalization and the Poor: A Dynamic Rural-Urban General Equilibrium Analysis of Morocco," (co-authored with Hans Lofgren and Sherman Robinson) 2002. In *Towards Arab and Euro-Med Regional Integration* by Sébastien D., R. Safadi, and J. Devlin, editors, Paris: OECD, pp. 129-146.
5. "Updating and Estimating a Social Accounting Matrix Using Cross Entropy Methods," (co-authored with Sherman Robinson and Andrea Cattaneo) 2001. *Economic Systems Research*, Vol. 13, No. 1, pp.47-64, 2001.
6. "Food Subsidies in Egypt: Reform Options, Distribution and Welfare" (co-authored with Hans Lofgren) 2001. *Food Policy Journal*, 26 65-83.
7. "Alternative Industrial Development Paths for Indonesia: SAM and CGE Analyses," (co-authored with Romeo M. Bautista and Sherman Robinson) 2001. in Dutta M., Behrman, J., et.al. eds. *Restructuring Asian Economies for the New Millennium*, Elsevier/North-Holland.
8. "Trade Liberalization, Transfers and Skill Upgrading in Morocco: A Dynamic General Equilibrium Analysis," (co-authored with Hans Lofgren and Sherman Robinson). in *Topics in Middle Eastern and North African Economics: Proceedings of the Middle East Economic Association*. Selected condensed papers presented in the 18th Annual Meeting of the Middle East Economic Association as part of the Allied Social Sciences Association Meeting in New York, New York, U.S.A., January 3-5, 1999 ([www.luc.edu/depts/economics/meea/volume1](http://www.luc.edu/depts/economics/meea/volume1))
9. "Rice Policy, Trade, and Exchange Rate Changes in Indonesia: A General Equilibrium Analysis," (co-authored with Sherman Robinson and Nu Nu SAN) 1998. *Journal of Asian Economics*, Vol. 9, No. 3.
10. "Trade Liberalization and Egypt's Industry, A CGE Analysis," 1994. *L'Egypte Contemporaine*. Societe Egyptienne d'Economie Politique, de Statistique et de Legislation, no. 437-8, July-October, pp. 59-104.

## PREVIOUS WORK EXPERIENCE

### **Technical Assistance Advisor, International Monetary Fund (IMF)** (July 2004 – August 2007)

Poverty and Social Impact Analysis (PSIA) Section, Expenditure Policy Division (EP)  
Fiscal Affairs Department (FAD), Washington, D.C.

Carry out poverty and social impact analysis (PSIAs) to evaluate the distributional impact of IMF country program measures. The PSIA section at the IMF is part of the expenditure policy division of the Fiscal Affairs Department and began its operations in July 2004 with the objective of ensuring that poverty and social impacts are taken into consideration in the design of the IMF's reform programs. The issues underlying most of the group's work emphasize the distributional consequences of price reforms (e.g., removal of energy price subsidies and changes in VAT rates). In this context, I participate in missions to countries (e.g., *Cameroon, Jordan, Moldova and Uganda*) to evaluate the distributional impacts of such reforms. In addition, I review IMF country documents and provide comments on expenditure policy aspects (countries involved include *Bosnia, Rep. of Congo, Gabon, Jordan, and Lebanon*)

### **Research Analyst, International Food Policy Research Institute (IFPRI)** (April 2003 – June 2004)

Development Strategy and Governance Division, Washington, D.C.

The division work focus on developing strategies to achieve pro-poor economic growth and poverty reduction in an economy-wide context. Building on my past work experience at the Trade and Macroeconomics division (see below), my responsibilities included the application of conceptual frameworks and methods for strategic analysis with a focus on the best mixes of policies for achieving growth and policy goals in low income agriculture-based countries. In addition, my responsibilities included training and local capacity building to transfer and implement these frameworks and methods.

### **Research Analyst, IFPRI** (March 1998 – March 2003)

Trade and Macroeconomics Division, Washington, D.C.

In charge of developing analytical techniques to assess the impact of trade policy, structural adjustment programs, and other macroeconomic policies on agriculture performance, food security, natural resource use, poverty, and income distribution. My responsibilities included:

- writing research reports, a number of which have been published in academic journals, and books;
- economic modeling, especially multisector economy-wide general equilibrium models with a focus on analyzing the links through which macroeconomic policies affects households;
- updating and estimating social accounting matrices using new methods developed at IFPRI. Methods, which I contributed to their development (like the Cross Entropy technique);
- capacity building in a number of research and training workshops with the objective of sustaining the impact of policy research as part of IFPRI's capacity strengthening program;
- country experience include *Bangladesh, Indonesia, Yemen, Kuwait, Morocco, Egypt, and Uganda*.

### **Sr. Research Assistant, IFPRI** (February 96 – March 1998)

Trade and Macroeconomics Division, Washington, D.C.

Worked on a number projects where I provided research support ranging from simple estimation to advanced modeling, with emphasis on computable general equilibrium models. In addition, I maintained a database on selected countries national accounts, a task that involved updating as well as estimation.

## Academic Teaching Positions

- **Lecturer, Economics Department, Cairo University** (Aug 2005—on leave)
- **Assistant Lecturer, Economics Department, Cairo University** (August 1994 – January 1996)  
Taught a year-long course at the undergraduate level in introductory economic theory during 1994/95 academic year.
- **Teaching Assistant Economics Department, Cairo University** (July 1992 - July 1994)  
Assisted in teaching two courses at the undergraduate level in introductory and intermediate economic theory during the 1993/94 academic year.

- **Teaching Assistant, Department of Economics, the American University in Cairo** (October 1991 - June 1993)  
Assistant to a graduate macroeconomic course.

### **Economic Analyst, Ministry of Administrative Development** (July 1990 - January 1991)

The Management Development Center for Industry (MDCI), Cairo, Egypt.

Member of a team of 10 researchers involved in an intensive 6-month training program, involving a 3 month period of basic orientation with the Egyptian government structure and functions, and a second 3-month training at the World Bank in Washington, D.C. that culminated in writing a research report on the Egyptian public sector.

### **DISCUSSION/WORKING PAPERS**

1. “Subsidies, Public Spending, and Prospects for Growth and Poverty Reduction in Egypt” (co-authored with Perrihan Al-Riffai) 2005. Paper prepared for the IFPRI/API workshop on “Public Policy and Poverty Reduction in the Arab Region”, Cairo, September 26-27.
2. “Public Spending, Growth, and Poverty Reduction in Egypt: A Dynamic General Equilibrium Analysis,” (co-authored with Perrihan Al-Riffai and Hans Lofgren) 2005. Paper prepared for presentation at the 25<sup>th</sup> Annual Conference of the Middle East Economic Association (MEEA) in conjunction with the Allied Social Sciences Association (ASSA) meetings in Philadelphia, January 7-9.
3. “Oil Price Shocks and Tax Policy in Kuwait: results from a general equilibrium analysis” (co-authored with Hans Lofgren, Sherman Robinson, and Mohamed Chemingui). Mimeo. IFPRI and Kuwait Institute for Scientific Research, Kuwait. April 2004.
4. “A Standard Computable General Equilibrium Model for Kuwait” (co-authored with Hans Lofgren, Sherman Robinson, and Mohamed Chemingui). Mimeo. IFPRI and Kuwait Institute for Scientific Research, Kuwait. March 2004.
5. “A 1999 Social Accounting Matrix (SAM) for Uganda” (co-authored with Paul Dorosh). IFPRI. March 2004 (<http://www.ifpri.org/data/Uganda04.htm>).
6. “A Social Accounting Matrix for Kuwait – 2001” (co-authored with Hans Lofgren, and Mohamed Chemingui). Mimeo. IFPRI and Kuwait Institute for Scientific Research, Kuwait. December 2003.
7. “An Input-Output Table for Kuwait – 2001” (co-authored with Hans Lofgren, and Mohamed Chemingui). Mimeo. IFPRI and Kuwait Institute for Scientific Research, Kuwait. October 2003.
8. “The High Dam at Aswan: An Assessment of its Economic and Distributional Impacts” (co-authored with Sherman Robinson, Ken Strzepek, and Hans Lofgren) IFPRI, March 2003.
9. “Implications of External Shocks, Technical Change and Reductions in Marketing Costs on Agriculture and Household Incomes: A CGE Analysis of Uganda” (co-authored with Paul Dorosh and Hans Lofgren) IFPRI, December 2002.
10. “Technical Change, Market Incentives And Rural Incomes: A CGE Analysis Of Uganda’s Agriculture” (co-authored with Paul Dorosh and Hans Lofgren) IFPRI, November 2002.
11. “The Textile Industry in Egypt: Opportunities and Challenges.” (co-authored with Ahmed Tolba). Paper prepared for the Middle East Economic Association 36<sup>th</sup> Annual Meeting; Washington, D.C., November 23-26, 2002.

12. "Welfare And Production Effects Of Technical Change, Market Incentives And Rural Incomes: A CGE Analysis Of Uganda's Agriculture" (co-authored with Paul Dorosh and Hans Lofgren) IFPRI, August 2002.
13. "Poverty and Inequality Analysis in a General Equilibrium Framework: The Representative Household Approach" (co-authored Hans Lofgren and Sherman Robinson) IFPRI, June 2002.
14. "The Impact of Alternative Development Strategies on Growth and Distribution: Simulations with a Dynamic Model for Egypt" (co-authored with Hans Lofgren and Sherman Robinson) Discussion Paper no. 78, Trade and Macroeconomics Division, IFPRI, September 2001 ([www.ifpri.org/divs/tmd/dp.htm](http://www.ifpri.org/divs/tmd/dp.htm)).
15. "GAMS Code for Estimating A Social Accounting Matrix (SAM) Using Cross Entropy (CE) Methods," (co-authored with Sherman Robinson) Discussion Paper no. 64, Trade and Macroeconomics Division, IFPRI, December 2000 ([www.ifpri.org/divs/tmd/dp.htm](http://www.ifpri.org/divs/tmd/dp.htm)).
16. "Updating and Estimating a Social Accounting Matrix Using Cross Entropy Methods," (co-authored with Sherman Robinson and Andrea Cattaneo) Discussion Paper no. 58, Trade and Macroeconomics Division, IFPRI, August 2000 ([www.ifpri.org/divs/tmd/dp.htm](http://www.ifpri.org/divs/tmd/dp.htm)).
17. "Growth, and Equity: A Dynamic CGE Analysis of Alternative Development Paths For Egypt," (co-authored with Hans Lofgren and Sherman Robinson) 2000. Paper prepared for the annual meeting of the Allied Social Science Associations and the Middle East Economic Association in Boston.
18. "A General Equilibrium Analysis of Alternative Scenarios for Food Subsidy Reform in Egypt" (co-authored with Hans Lofgren). Discussion Paper no. 48, Trade and Macroeconomics Division, IFPRI, October 1999 ([www.ifpri.org/divs/tmd/dp.htm](http://www.ifpri.org/divs/tmd/dp.htm)).
19. "Impact of the WTO Agreement on MENA Agriculture," (co-authored with Nabil Chaherli). Working Paper 2007. Economic Research Forum for the Arab Countries, Iran & Turkey, Cairo, Egypt, July 1999 ([www.erf.org.eg](http://www.erf.org.eg)).
20. "A Dynamic CGE Analysis of Alternative Development Paths for Indonesia." (co-authored with Sherman Robinson and Romeo M. Bautista) 1999. Paper prepared for the Second Annual Conference on Global Economic Analysis, Denmark, June 20-22, 1999.
21. "Alternative Industrial Development Paths for Indonesia: SAM and CGE Analyses," (co-authored with Romeo M. Bautista and Sherman Robinson). Discussion Paper no. 42, Trade and Macroeconomics Division, IFPRI, June 1999 ([www.ifpri.org/divs/tmd/dp.htm](http://www.ifpri.org/divs/tmd/dp.htm)).
22. "Trade Liberalization and Complementary Domestic Policies: A Rural-Urban General Equilibrium Analysis of Morocco," (co-authored with Hans Lofgren and Sherman Robinson) Discussion Paper no. 41, Trade and Macroeconomics Division, IFPRI, May 1999 ([www.ifpri.org/divs/tmd/dp.htm](http://www.ifpri.org/divs/tmd/dp.htm)).
23. "Estimating a Social Accounting Matrix Using Cross Entropy Methods," (co-authored with Sherman Robinson and Andrea Cattaneo) Discussion Paper no. 33, Trade and Macroeconomics Division, IFPRI, October 1998 ([www.ifpri.org/divs/tmd/dp.htm](http://www.ifpri.org/divs/tmd/dp.htm)).
24. "Rice Policy, Trade, and Exchange Rate Changes in Indonesia: A General Equilibrium Analysis," (co-authored with Sherman Robinson and Nu Nu San) Discussion Paper no. 27, Trade and Macroeconomics Division, IFPRI, June 1998 ([www.ifpri.org/divs/tmd/dp.htm](http://www.ifpri.org/divs/tmd/dp.htm)).

25. "Estimating a Social Accounting Matrix Using Entropy Difference Methods," (co-authored with Sherman Robinson) 1998. Paper presented at the Twelfth International Conference on Input-Output Techniques, New York, 18-22 May.
26. "Rice Price Policies in Indonesia: A Computable General Equilibrium (CGE) Analysis," (co-authored with Sherman Robinson and Nu Nu SAN) Discussion Paper no. 19. Trade and Macroeconomics Division, IFPRI, September 1997 ([www.ifpri.org/divs/tmd/dp.htm](http://www.ifpri.org/divs/tmd/dp.htm)).

### **CAPACITY STRENGTHENING AND TEACHING ACTIVITIES**

- Damascus, Syria, May 2007, carried out a one day training session as part of an introductory training course on PSIA organized by the UNDP for participants selected from the Syrian government.
- Kuwait City, Kuwait, May 2004; taught a one-week course titled "Use of GAMS in CGE Modeling and a CGE Model for Kuwait"
- Kuwait City, Kuwait, January 2003; taught with Sherman Robinson and Hans Lofgren a course titled "Introduction to General Equilibrium Modeling for Policy Analysis"
- Washington, D.C., Spring 1998; assisted in designing, preparing for and teaching a graduate course "General Equilibrium Models for Policy Analysis," taught by Sherman Robinson at the Economics Department, the George Washington University.
- Bogor, Indonesia, May 1996; taught with Sherman Robinson a course on Computable General Equilibrium modeling and the use of the GAMS software as part of the capacity building component of a project on "Modeling the Future of Indonesian Agriculture" at CASER, Ministry of Agriculture, Indonesia.
- Cairo, Egypt, 1992-1994; teaching undergraduate and graduate courses at Cairo University and the American University in Cairo (introductory and intermediate micro and macroeconomics)

### **SELECTED PRESENTATIONS AND SEMINARS**

- Washington, D.C., September 21, 2006; Fiscal Affairs Department Professional Development Program-Seminar VIII, IMF. Presentation titled "Fuel Subsidy Reform (with Dave Coady)"
- Washington, D.C., May 9, 2006; Fiscal Affairs Department Seminar Series, IMF. Presentation titled "Fuel Price Subsidies in Gabon: Fiscal Cost And Social Impact," Based on the paper "same title" (with Daniel Leigh)
- Philadelphia, USA, January 7-9, 2005; 25<sup>th</sup> Annual Conference of the Middle East Economic Association (MEEA) in conjunction with the Allied Social Sciences Association (ASSA) meetings. Presentation titled "Public Spending, Growth, and Poverty Reduction in Egypt: A Dynamic General Equilibrium Analysis,". Based on the paper "same title" (with Perrihan Al-Riffai and Hans Lofgren)
- Beirut, Lebanon, May 27-29, 2004; the Sixth International Conference on the Economics and Finance of the Middle East and North Africa organized by the Middle East Economic Association (MEEA) and the Lebanese American University. Presentation titled "The High Dam at Aswan: An Assessment of its Economic and Distributional Impacts for the Egyptian Economy". Based on the paper "The High Dam at Aswan: An Assessment of its Economic and Distributional Impacts" (with Sherman Robinson, Ken Strzepek, and Hans Lofgren).
- (Numerous other presentations--workshops and seminars)

## OTHER

Fluent in English and Arabic (native). Working knowledge of French.

Skillful in various computer software packages.

Specialized Packages:

- GAMS (General Algebraic Modeling System)
- STATA

Youth Soccer Coach

Soccer Referee

Nationality: Egyptian

## REFERENCES

**Gerd Schwartz** Advisor, Office of Deputy Managing Director (previously Division Chief, Expenditure Policy, FAD), phone 202-623-7308 email [gschwartz@imf.org](mailto:gschwartz@imf.org)

**Robert Gillingham** Section Chief—PSIA, Expenditure Policy, FAD, phone 202-623-6359 email [rgillingham@imf.org](mailto:rgillingham@imf.org)

**Stephen Smith** Stephen C. Smith, Professor of Economics, Economics Department, the George Washington University, phone 202-994-8086, email [ssmith@gwu.edu](mailto:ssmith@gwu.edu)

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