

## Sebnem Sahin

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### **PROFILE HIGHLIGHTS**

- Robust experience in evidence-based decision making and economy-wide analysis.
- Proven track record in analytical and advisory services to decision makers in South-East Asia; Eastern and Central Europe; Middle East; and Africa.

### **RELEVANT PROFESSIONAL EXPERIENCE**

***Lead Modelling Expert, International Consultant*** 7/2019-present  
***UNDP – Afghanistan***

Developing a regional Computable General Equilibrium (CGE) model to support financing Afghanistan SDGs. Supporting Ministries of Economy and Finance on evidence-based policy making.

***Founding Manager*** 2018-present

***Socio-Economic Research Applications and Projects LLC***

Developing a Regional CGE model for the Middle East to analyze creation of economic opportunities for Syrian Refugees in Jordan (World Bank Project).

Provided management consulting services to Turkish Radio Television (TRT) – World.

Led strategic policy research on climate change adaptation in Bulgaria (World Bank - EU funded).

Developed analysis for the World Bank – IFPRI project on the Economic Impact of War in Yemen.

Training professionals in DC area on project development and management.

***Lead Economist***

***The World Bank, Washington D.C. (Staff or consultancy assignments)***

Global Public Goods Unit, Environment, Global Practice 2016- 7/2018

Led strategic analytical work for investment decisions, evaluation of risk and impact related to exogenous shocks (i.e. World – Climate Change and Migration flagship, Bangladesh – Energy Subsidy Reforms). Led economy-wide analyses for the Bank projects “Economic Opportunities for Syrian Refugees in Jordan”; “Ethiopia Jobs Compact” and “Building for Peace in the Middle-East”.

South Asia Region, Environment, Climate Change, and Agriculture Units 2010-2016

Led strategic analytical work on green and resilient growth for India Bangladesh; Sri Lanka; and cross-border river basins in South Asia.

Europe and Central Asia Region, Agriculture Unit 2010

Developed inclusive green growth for Bulgaria, Georgia and Turkey Green Growth studies; and South Eastern Europe Climate Change Impact Assessment report for the Sava River Basin Countries.

Africa Region, Macro-Fiscal Management Unit 2009

Developed Growth Diagnostics analysis for Sao Tome and Principe as part of the Country Economic Memorandum.

Finance, Economics and Urban Department 2008-2019

Analyzed the economic impacts of exogenous shocks using valuation techniques and economy-wide analyses for resilience. Drafted papers and book chapters conducted joint research with the U.N., multiple research institutions and universities.

Latin America and the Caribbean Region, Urban unit 2007-2008

Developed an analytical tool to forecast the fiscal impact of extreme events, which was used by the WBG, IADB, and IMF staff and the Caribbean Catastrophe Insurance Facility in pricing catastrophic insurance premiums.

Development Economics, Prospects Group 2006

Member of the modelling team working on the Global Economic Prospects (2007) and Global Development Finance (2007).

**Economist** 2004-2006  
**OECD, Paris, Environment Directorate**  
Co-author of the OECD Environmental Outlook (2008). Member of the modelling team.

**Consultant** 2001  
**Centre for International Economics (CEPII), Paris**  
Member of the FEMISE (Forum Euro-Mediterranean des Instituts des Sciences Economiques) team who worked on industrial competitiveness in the Mediterranean countries.

### **EDUCATION**

**Université Sorbonne, Paris, PhD in Economics (with honors)** February 2004  
PhD Thesis: A Sustainable Development Policy Discussion for Turkey on GHG Emissions within a Regional Computable General Equilibrium Model (CGE)  
**Ecole Centrale Paris & Université Sorbonne Paris I, French Master's degree (DEA)** 1996  
Economic Modelling Applied to Environment, R&D  
**Université Paris II, French Master's degree (DEA)** September 1995  
International Trade & Development  
**Bosphorus University, Istanbul, BA in Economics** February 1994

### **TEACHING EXPERIENCE**

Bay Atlantic University (USA), *Adjunct Professor* 2018- 2019  
Université de Tours (France), *Assistant Professor (ATER)* 2001-2003  
ENSAI; Université Sorbonne and Ecole Centrale Paris (France), *Teaching Assistant* 1996-2004

**LANGUAGES:** Bilingual in English, French. Turkish (Native)

**COMPUTER SKILLS:** MS Office, GAMS, GEMPACK, EVIEWS, STATA, ADePT, GAUSS, ARCGIS

### **SELECT PUBLICATIONS**

How Much Would Bangladesh Gain from the Removal of Subsidies on Electricity and Natural Gas? With Marinos Tsigas, Govinda Tmilsina, Sheoli Pargal. World Bank Policy Research Working Paper No 8677. 2018.

Macroeconomic Implications of Climate Change-Analysis: Bulgaria Climate Change Adaptation Report with Badri Narayanang. The World Bank. August 17 2018.

“Economic Contribution of the Fisheries Sector: Short- and Long-Term Perspectives for Sri Lanka”. With William Lane, Tolga Cebeci, Badri Narayanan, and Indu Hewawasam. Journal of Indian Ocean Rim Studies. Vol 1. Issue 2. pp 105-140. October 2018.

Chapter 2: Handbook of Sustainable Development in Asia. 2018. Routledge. New York.

Groundswell: Preparing the Way for Internal Climate Migration. The World Bank. 2017.

A Firm Level Decomposition of Energy Consumption in Turkish Manufacturing

Industry. World Bank Policy Research Working Paper No 8211. 2017.

Blue Print for Recovery and Reconstruction in Yemen. The World Bank. 2017. Low

Water High Growth in the South Asian Economies. The World Bank. 2017.

Managing Natural Coastal Natural Wealth in Sri Lanka for Resilient and Sustainable Livelihoods. The World Bank. 2017.

“Economic and Land Use Impacts of Improving Water Use Efficiency in Irrigation in South Asia”. 2016. With Farzad Taheripour, Tom Hertel, Badri Narayanan, Anil Markandya and Bijon Mitra, Journal of Environmental Protection. No, 7. pp 1571-1591. 2016.

Reforming Electricity Subsidies in Pakistan: Measures to Protect the Poor. With Thomas Walker and Kristy Mayer. The World Bank. 2015.

“How to Go Green: A General Equilibrium Investigation of Environmental Policies for Sustained Growth with an Application to Turkey's Economy”. With Erinc Yeldan and Aziz Bouzaher. Letters in Spatial and Resource Sciences, March 2015, Volume 8, Issue 1, pp 49–76.

Evaluation of the EU-Turkey Customs Union. The World Bank. 2014.

“Agricultural Policies and Trade Paths in Turkey”. With Don Larson, Will Martin, and Marinos Tsigas. World Bank Policy Research Working Paper, No 7059. 2014.

Turkey - Green Growth Policy Paper. The World Bank. 2012.

“Economic Growth and Environmental Sustainability in India: What Are the Tradeoffs?” With Anil Markandya, Mani Muthukumara, Aarsi Sagar, World Bank Policy Research Working Paper, No 6208. 2012.

Natural Hazards, Un-natural Disasters. UN-World Bank Joint Publication on the Economics of Effective Prevention. The World Bank. 2010.

“Impact Estimation of Disasters: A Global Aggregate during 1960 and 2007”, with Okuyama Yasuhide, World Bank Policy Research Working Paper, No 4363. 2009.

“Valuing Mortality and Morbidity in the Context of Disaster Risk”, with Maureen Cropper, World Bank Policy Research Working Paper, No 4832. 2009.

OECD Environmental Outlook to 2030. OECD. 2008.

“A Macroeconomic Baseline with Structural Change” with Philippe Bagnoli and Jean Chateau, OECD Working Paper ENV/EPOC/GSP (2005)2.

### **SELECT CONFERENCE PROCEEDINGS AND SEMINARS**

“Top Down and Bottom-Up Approaches to Climate Change Adaptation in Bulgaria”, with Badri Narayanan and Svetlana Aleksandrova. Presented at the 22nd Conference on Global Economic Analysis (GTAP), Warsaw, Poland. 2019.

“Water Resources in South Asia: An Assessment of Climate Related Vulnerabilities”, with Alexander Golub, Elena Golub, Bijon Kumer Mitra, Anil Markandya, Badri Narayanan and Farzad Taheripour. Presented at the 20th Conference on Global Economic Analysis (GTAP), Indianapolis, USA. 2017.

“Fulfilling Jordan's Potential Through Knowledge Enhancement: An Economy-wide Analysis”, with Abdallah Dardari. Presented at the World Science Forum in Jordan, November 2017.

“Land use and economy-wide impacts of improving water use efficiency in South Asia,” with Farzad Taheripour, and Tom Hertel. Presented at the Agricultural & Applied Economics Association Annual Meeting, Boston MA. 2016.

“Agricultural Production, Irrigation, Climate Change, and Water Scarcity in India” with Farzad Taheripour, Tom Hertel, Badri Narayanan and Jorge Escurra. Presented at the Agricultural & Applied Economics Association and Western Agricultural Economics Association Annual Meeting, San Francisco, CA. 2015.

“Water Scarcity in South Asia: A Dynamic CGE Analysis” with Farzad Taheripour, Tom Hertel, Badri Narayanan and Jorge Escurra. Presented at the 18<sup>th</sup> Annual Conference on Global Economic Analysis, Melbourne, Australia. Also presented at the Agricultural & Applied Economics Association and Western Agricultural Economics Association Annual Meeting, San Francisco, CA. 2015.

“Exploring the energy-water-food-climate nexus for the Indian Economy in 2030” with Farzad Taheripour, Tom Hertel, Badri Narayanan and Jorge Escurra. Presented at the 2014 AGU Fall meeting, San Francisco, CA, and PIAMDDI Project Meeting. 2014.

“An Economic Evaluation of Climate Change Impact on the Sava River Basin”. Presented at the UNECE Workshop on Water and Adaptation. 2012.