

**FRANCESCO NICOLA TUBIELLO**

*francesco.tubiello@fao.org*

**BIOGRAPHICAL SKETCH**

Climate change and environment professional. Thirty-years-experience in academia, private sector and international agencies and the UN system, in formulating, managing and implementing policy-relevant climate programs, projects and research.

**EDUCATION**

1995 Ph. D., Earth Systems and Agriculture. New York University, New York, NY, USA.  
1992 M.S., Agriculture and Environment, New York University, New York, NY, USA.  
1989 M.S. and B.S. (Italian Laurea) in Physics, *summa cum laude*, University of Turin, Italy.

**PROFESSIONAL EXPERIENCE**

2015-present Senior Statistician and Team Leader, Environment Statistics, FAO, Italy  
2011-2015 Natural Resources Officer and Project Coordinator, FAO, Italy  
2010-2011 Chief of Science & Technology, *GET-Carbon LLC, USA*  
2009-2010 Senior Climate Change Scientist, *European Commission Joint Research Center*  
2002-2008 Research Scientist, *Center for Climate Systems Research, Columbia University and NASA Goddard Institute for Space Studies, USA*  
2004-2008 Visiting Research Scholar, *International Institute for Applied Systems Analysis, Austria*  
1996-2002 Associate Research Scientist, *CCSR, NASA and Columbia University, USA*  
1995-1996 Postdoctoral Research Sc., *CCSR, NASA and Columbia University, USA*  
1990-1995 Staff Scientist, *Environmental Defense Fund, USA*

**AWARDS**

Kavli Foundation Speaker, 2008  
Nobel Peace Prize (IPCC), 2007  
NASA Land Cover/Land Use Change Research Award, 2004-2007  
US National Science Foundation Research Award, 2002-2004  
US National Science Foundation International Fellow, 2002

**CURRENT POSITION**

**2015-Present. Senior Statistician and Team Leader, Environment.** Statistics Division, FAO, Italy.  
Responsibilities include: Oversight, maintenance and development of FAO corporate agri-environmental databases, including Fertilizers, Pesticides, Land, greenhouse gas emissions, agri-environmental indicators and climate change relevant statistics. Data and methodological support to 2030 SDGs and UNFCCC monitoring and reporting processes. Oversight and development of capacity development activities in member countries aimed at strengthening evidence-based decision making through better data, in support of FAO's strategic objectives. Development and implementation of the System of Environmental and Economic Accounting for Agriculture, Forestry and Fisheries (SEEA-AFF), in collaboration with UNSD, EUROSTAT, OECD and World Bank and member countries. Development of Climate Change relevant statistics, in collaboration with UNECE, UNSD, UNFCCC and member countries.

**PREVIOUS POSITIONS**

**2011-2105 Natural Resources Officer and MAGHG Project Coordinator.** Climate, Energy and Tenure Division, *FAO, Italy*.  
Coordinator of a multi-disciplinary, multi-departmental Trust fund project (US\$ 7 million) aimed at improving the capacity of developing countries to assess and report their greenhouse gas (GHG) emissions and mitigation potential, in the context of sustainable natural resource management and food security. Led a team of three professional officers

and over 10 international consultants, in coordination across FAO departments, relevant international agencies and research institutes. Results achieved: design, implementation and dissemination, including international recognition at IPCC and UNFCCC levels, of the FAOSTAT GHG emission database for agriculture and land use; capacity building delivered to over 100 countries worldwide, especially developing and least-developed countries; built robust cooperation between FAO, IPCC, UNFCCC, as well as strengthened cooperation with many additional international partners active in climate change issues. Other duties included team management, budgeting and reporting to donors; organization of regional meetings and workshops; implementation of pilot case studies in the field; linkages to relevant international policy and science processes.

**2006-2011**

**Chief of Science & Technology, *GET-CARBON, LLC, New York USA***

International project development, management and capacity building, focusing on policy advice and technical support to developing countries in climate change risk assessment, adaptation and mitigation solutions, with a focus on agriculture and climate change mitigation solutions. Managed a team of senior and junior consultants for optimal implementation of all science and technology projects of the firm. Activities included field projects design and management for carbon sequestration projects in forest, agriculture and renewable energy, including conduction of capacity building workshops focusing on linkages between sustainable development and employment.

**2009-2010**

**Senior Climate Change Scientist, *European Commission, Joint Research Center, Italy***

Senior grant-holder and project scientist in the area of climate change impacts, adaptation and mitigation in agriculture and water resources—supporting a multidisciplinary team of senior and junior scientists at the JRC towards development of climate change impacts and response analysis tools. Provided support to the European Commission towards the development of programmes and implementation of partnerships, towards improvement of adaptation and mitigation strategies of developing countries, of relevance to rural development, with a focus on impacts of climate change on agriculture and water requirements. Organized and participated in meetings and conferences on behalf of the EC.

**1995-2008**

**Research Scientist, *Columbia University and NASA-Goddard Institute Space Studies, USA***

Research, design and implementation of multi-disciplinary, international projects and programmes on the impacts of climate change on agriculture and water resource management, with a focus on developing countries and food security. Organization of meetings and workshops for promoting partnerships and communication to both the public and specialized agencies. Tenure included work and international collaborations with IIASA, 2004-2008. Principal Investigator in several international research efforts, including OECD (Adaptation metrics for climate change responses for crops and water); NASA (Linking data and models for understanding mitigation and adaptation options in the Ukraine); NOAA (Coupling agricultural and water impacts to terrestrial carbon models); US National Science Foundation (Agriculture and water relations in the GISS land surface model); UNDP/Global Environmental Facility (Soil C-sequestration strategies under climate change in Brazil, Kenya, Syria and India); Italian Ministry of the Environment (Impacts of climate change on Mediterranean agriculture and water availability); Environmental Defense Fund (elevated CO<sub>2</sub> and plant-water relations).

## INTERNATIONAL CONSULTANCIES

### Private Sector

<i>CEZ, sro Czech Republic</i>	252.5 MW Cogealac wind farm, Romania. Implemented PDD development, assistance with determination and UNFCCC registration (Jun 2009-Jan 2011).
<i>Ferrero Spa Italy</i>	Irrigation water Management and Afforestation with Hazelnut Plantation in Western Georgia. Implemented PDD development, assistance with validation and project registration under the CarbonFix voluntary carbon standard (Oct 2009-Jan 2011).
<i>AECOM New Zealand Enecore China</i>	Support in analysis of potential carbon finance for a large, 250 MW hydropower CDM project activity in Laos (2011) Development of PDDs for eight CDM projects in China, including small hydropower, wind and fossil fuel switch (2008).

### Public Sector

<i>ADB:</i>	Development of Kazakhstan's low carbon development and adaptation planning for water resource management and energy. Developed technical report on climate change impacts, adaptation and mitigation opportunities, as well as contributed to the Country Environment and Climate Change Road Map (2011).
<i>UN FAO:</i>	Report on "Green Economy, Rural Development, and UNFCCC Opportunities" a technical contribution to FAO's efforts under UNCSD Rio+20 (2011)
<i>UNDP-GEF</i>	Implementation of "Technical Feasibility Study for Biomass Supply and Demand in Georgia" for GEF application (2011).
<i>The World Bank:</i>	Development and implementation of the Agro-Zone Simulator Project, focusing on agriculture and irrigation water management issues for Latin America (2011).
<i>UN FAO:</i>	SOLAW Technical Report "Land and Water Use Options for Climate Change Adaptation and Mitigation in Agriculture," a technical contribution to the 2011 FAO "State of Land and Water." (2010)
<i>The World Bank:</i>	Support towards development of a web-based demo platform to investigate impact and adaptation options for world agricultural systems, with a focus on Latin America (2009-2010).
<i>Asian Develop. Bank:</i>	Support towards development of "Climate Change Implementation Plan for Central and West Asia". The Plan identified investment opportunities and challenges for low-carbon development paths and policies, focusing on water on power issues (2008-2009).
<i>UN FAO:</i>	Elaborated technical background papers for the "High-Level World Food Conference", focusing on climate change, rural development and food security in the context of climate change (2008).
<i>IFAD:</i>	Analysis of carbon market potential for agriculture and forestry activities for rural development (2008).
<i>The World Bank:</i>	Report on adaptation and mitigation activities in agriculture and forestry, including synergies for adaptation and mitigation for new carbon funds (2008).

## OTHER PAST ACTIVITIES

- 1998-2003** Staff Writer, *Harvard University Quarterly Review on Global Change*  
**2000-01** Project Leader, *US National Assessment Crop Modeling Team*, Washington DC, USA.  
Coordinator, *Organization of Small Island States*, Italian Government contribution.  
**1995-98** Director, *Biosphere 2*, Agriculture and Water Program, Oracle, USA  
Lecturer “Ecosystem and Water Processes, and Climate Change.” Columbia University  
Crop Modeling Scientist, FACE, wheat and water relations. Maricopa, USA  
**1995** Postdoctoral Research Scientist, NASA-Goddard Institute for Space Studies, USA  
**1994** Graduate Research Assistant, *NASA-Closed Environmental Life Support Systems*  
**1991-1993** Staff Scientist, *Environmental Defense Fund*  
**1992** Architecture Intern, Energy Efficiency, *Croxtton's Collaboratives, New York USA.*  
**1990-1992** Graduate Research Assistant, *New York University, USA*  
**1989-1990** Research Fellow, Italian National Research Council, Italy

## PUBLIC SERVICE

- Present** Founding Member, Food Climate Partnership, Columbia University SIPA  
Member, Bureau of UN Committee of Experts on Environmental Economic Accounting  
Member, UN Committee of Experts on Environment Statistics  
Member, UNECE Steering Committee on Climate Change Statistics  
IPCC Author, 2022 WG III Report  
IPCC Lead Author, 2019 SRLCC  
IPCC Lead Author, 2019 IPCC Revised 2006 Guidelines  
UNFCCC, Expert Reviewer for NC, BUR submissions  
UNFCCC, CDM Registration and Issuance Team and JI Accreditation Panel Member  
UNFCCC, CDM Methodology and Afforestation/Reforestation Expert  
Editorial Board Member, Climate Policy  
Peer Reviewer for International Journals, including: *Science, Nature, Global Ch. Biol., Clim. Ch., Agr. For. Meteorol., Eur. J. Agr.*  
Member, Interdepartmental Working Group on Climate Change, FAO  
Member, Interdepartmental Working Group on Statistics, FAO
- 2011-2014** Lead Author, IPCC AR5, WGIII AFOLU Ch. 11  
Lead Author, IPCC, Supplementary 2006 Guidelines for AFOLU
- 2003-2008** Lead Author, IPCC Fourth Assessment Report, WG II Ch. 5.  
Lead Author, IPCC Technical Paper on Water and Climate Change
- 1999-2001** Lead Author, US National Assessment

## LANGUAGES

- Italian (Mother tongue)  
English (Fluent)  
Spanish (Working Knowledge)  
Slovak and Hungarian (Beginner)

## PUBLICATIONS

### PEER-REVIEWED PUBLICATIONS

Over 150 publications, 35,000 citations, H-Index 60.

Available at <https://www.researchgate.net/profile/Francesco-Tubiello>