

## PERSONAL INFORMATION



## Dr. Marco A. Artavia Oreamuno

 Berlin, Germany

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Sex Male | Date of birth 01/10/1979

Nationality German / Costa Rican

## WORK EXPERIENCE

Since June 2018

**Economist, Policy Modeler**

Food and Agriculture Organization of the United Nations (FAO) Berlin, Germany

Expert in the MAFAP team on investment prioritization analyses with Computable General Equilibrium models (CGEs)

## Tasks:

- Contribute to the implementation of the ex-ante agricultural and food policy impact analyses.
- Support the MAFAP method team in its country level policy and/or program evaluation building on modelling techniques (CGEs and Partial equilibrium models).
- Contribute to the identification of the policy measures to be analysed and simulated through various policy reform scenarios using STAGE and the IFPRI CGE model
- Develop the software code (in GAMS) required to analyze the policy issues, generate the policy scenarios and articulate the policy options with a view to inform policy decisions
- Undertake general equilibrium analyses on food and agriculture related policy issues including, but not limited to, the following areas on different MAFAP countries: (i) agricultural investment plans in a number of countries; (ii) optimal allocation of public expenditure; (iii) improved input, market, trade and price policies to increase value chain performances and growth of the sector; (iv) households' expenditure and consumption, (v) food security impact analysis of agricultural sector policies; and (vi) the impacts of scaled-up public expenditure on agriculture
- Organize and deliver capacity building workshops
- Collaborate with international, regional partners and other FAO technical divisions in developing new methods in agricultural and food policy modelling or strengthening existing ones.

**Business or sector** Economic and policy consulting (Nonprofit)

Since November 2016

**Freelance**

Marco Artavia, Emserstr. 46, 12051, Berlin, Germany

## Topics

- Agricultural markets and policies
- Agricultural market uncertainty
- Climate change mitigation and adaptation
- Agricultural Development Economics
- Economic modelling (partial equilibrium, general equilibrium, econometrics)
- Data management
- Model maintenance and support

## Projects

- "What does the OECD-FAO Agricultural Outlook 2017-2026 imply for income distribution in the Sudan and Ethiopia". Project in the context of global and cross country studies carried out by the MAFAP team of the FAO as part of a partnership agreement with USAID.
- "Methane emissions from enteric fermentation in CAPRI: A Technical Documentation on accounting, modelling and reporting". Project for and in cooperation with Dr. Peter Witzke from EuroCARE Bonn GmbH.

- “Review and improvement of the parameter generation of the food demand system of the AGLINK-COSIMO model”. Project in the framework of the 2016/2017 work for the OECD-FAO Agricultural Outlook. Commissioned by the FAO.

**Business or sector** Research and policy support, academic cooperation

April 2016 – October 2016

### Seeking Employment / Design of Freelance

Marco Artavia, Emserstr. 46, 12051, Berlin, Germany

Design of Freelance

- Development of concept and business plan. Application for the foundation subsidy (Gründungszuschuss) from the employment office in Berlin (Arbeitsamt).

Applications

- “Modeller for Analysis of Global Agricultural and Trade Policies”. Institute for Prospective Technological Studies (IPTS), Joint Research Centre (JRC), European Commission, Sevilla, Spain.
- “Economist (Medium Term Projections)”. FAO, Economic and Social Development Department, Division Trade and Markets (EST), Rome, Italy.

**Business or sector** Job seeking

April 2014 – March 2016

### Consultant

DIW econ GmbH, Mohrenstraße 58, 10117 Berlin, Germany

Expert on the CGE analysis of the Green Economy Concept of Kazakhstan

Main reference projects:

- “Development of Policy Options for Mid- and Long-term Emissions Pathways and Role of Carbon Pricing” (Hybrid Top-down (CGE) and bottom-up (TIMES) modelling exercise), commissioned by the PMR (World Bank).
- “SME Performance Review 2016” (econometric projections: nowcasts and forecasts of SMEs in the EU), commissioned by the European Commission / DG Enterprise and Industry.
- “Assistance to the Kazakh Government in the designing of the National Allocation Plan (NAP) for the period 2016-2020” (analysis based on National Accounts data, emissions data, and CGE based projections), commissioned by the German Federal Ministry for Environment, Nature Conservation, Buildings and Nuclear Safety.
- “Exploring the potential role of human, physical and knowledge capital investments in a smart specialisation context” (econometric analysis of cooperation and productivity in the EU at the NUTS 2 level), commissioned by the European Commission / EASME.
- 2014 extension of the project “Integrated Approach for the Development of Climate-Friendly Economies in Central Asia” financially supported by the International Climate Change Initiative of the German Federal Ministry for the Environment, Nature Conservation, Buildings and Nuclear Safety.
  - Providing of CGE-based analysis on priority policy topics for the transformation to a Green Economy in Kazakhstan
  - Instructor of two capacity building seminars on the company’s CGE model for Kazakhstan
- “Study on the economic impact of an agreement between the EU and the Republic of Turkey and between the EU and Ukraine” (econometric analysis using gravity models), commissioned by the European Commission / DG Mobility and Transport.
- “Support to Partial Stochastic Analysis of Agricultural Commodity Markets” (support to multi-market model based analysis of price volatility in agricultural markets) commissioned by the European Commission / DG Joint Research Centre JRC, Institute for Prospective Technological Studies (IPTS).
  - “SME Performance Review 2013/2014” (econometric projections: nowcasts and forecasts of SMEs in the EU), commissioned by the European Commission / DG Enterprise and Industry.

**Business or sector** Economic and policy consulting

March 2012 – March 2014

**Scientific Fellow cat. 30 (Post-Doctoral Position)**

Institute for Prospective Technological Studies (IPTS), Joint Research Centre (JRC), European Commission, Sevilla, Spain

- Economic and policy analysis of agricultural markets.
- Analysis of agricultural market price volatility.
- Analysis of yield trends and uncertainty.
- Responsible for the management (maintenance and development) of the European Simulation Model (ESIM) and the AGLINK-COSIMO model.
- Stochastic formulations of the models to consider uncertainty of commodity yields and of forecasts of macroeconomic indicators.

**Business or sector** Research and policy support

September 2011 - February 2012

**Research Assistant**

Freelancer

- Research assistant in the project "Feasibility Study on Combining ESIM & CAPRI for Stochastic Scenario Analysis and Extension of the ESIM Model" financed by the European Commission. Private contract with Prof. Dr. Harald Grethe (Chair of the Department of Agricultural and Food Policy, University of Hohenheim). I was in charge of the task "Improvement of the empirical foundation of Member State specific technical progress parameters in ESIM".

**Business or sector** Research and policy support

January 2010 - August 2011

**Research Assistant / PhD Thesis / Parental leave**

(based in Ückeritz, Usedom, Germany)

- Concluded the project "EU East Enlargement and Instability on the CEEC Agricultural Markets" financed by the German Research Foundation ("Deutsche Forschungsgemeinschaft" (DFG)), Germany. Reporting period (02.2006 – 10.2010).
- Finished the writing of my PhD thesis
- Responsible for house and family matters

**Business or sector** Research and policy support

April - December 2009

**Research Assistant**

Freelancer (based in Ückeritz, Usedom, Germany)

- Research assistant in the project "Ertrags- und Preisinstabilität auf Agrarmärkten in Deutschland und der EU: Betriebswirtschaftliche und agrarpolitische Implikationen" financed by the "Edmund Rehwinkel-Stiftung", Germany. Private contract with Prof. Dr. Harald Grethe.

**Business or sector** Research and policy support

February 2006 – March 2009

**Research Assistant**

Department of Agricultural Policy (chair: Prof. Dr. Dr. h. c. Dieter Kirschke), Humboldt University of Berlin, Germany

- Principal researcher in the project "EU East Enlargement and Instability on the CEEC Agricultural Markets" financed by the German Research Foundation ("Deutsche Forschungsgemeinschaft" (DFG)), Germany. Reporting period (02.2006 – 10.2010), Funding period (02.2006 – 03.2009).
- Contributed to the project "AOC: A Multidisciplinary Protocol for Assessing Climate Impacts, Vulnerability and Adaptation" financed by the National Science Foundation (NSF), USA.
- Supported lecture activities

**Business or sector** Research, academic and policy support

January - October 2008

**Research Assistant**

Freelancer

- Research assistant in the project “Study on Modeling Work in the Field of Agriculture-2” financed by the European Commission. Private contract with Prof. Dr. Harald Grethe.

**Business or sector** Research and policy support

**EDUCATION AND TRAINING**

February 2006 – February 2012

**PhD Studies (emphasis in agricultural economics)**

PhD degree in Agricultural Economics

Humboldt University of Berlin, Faculty Agriculture and Horticulture, Germany

- Topic of the thesis: “Stochastic Multi-Market Modeling with Efficient Quadratures: Does the Rotation of Stroud’s Octahedron Matter”. Supervisors: Prof. Dr. Dr. h.c. Dieter Kirschke, Prof. Dr. Harald Grethe, Dr. Martin Banse. Degree title: Doctor rerum agriculturalarum (**Dr. rer agr.**)

October 2002 – December 2005

**M.Sc. Studies of International Agriculture (emphasis in agricultural economics)**

Master of Science in Agricultural Economics

Humboldt University of Berlin, Faculty Agriculture and Horticulture, Germany

- Topic of the thesis: “How to Model European Sugar Beet Supply and Market Policies: A Comparative Analysis of two Modeling Efforts”. Degree Title: **M.Sc.**

January 1998 – December 2001

**Studies of Agricultural Sciences**

Bachelor of Science in Agricultural Sciences

EARTH University, Costa Rica

- Topic of the thesis: “Efecto del sistema convencional de producción de banano sobre la abundancia y diversidad de insectos voladores en comparación con dos sistemas alternativos”. Degree Title: “**Ingeniero Agrónomo, Grado Académico de Licenciatura**” (equivalent to B.Sc.)

**PERSONAL SKILLS**

**Mother tongue(s)** Spanish

**Other language(s)**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
German	C2	C2	C2	C2	C1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

**Computer skills**

- MS Office (Proficient user)
- GAMS (Independent user)
- SIMETAR (Independent user)
- Troll (Basic user)
- STATA (Basic user)
- R (Basic user)
- Mathematica (Basic user)

Levels: Basic user - Independent user - Proficient user

## ADDITIONAL INFORMATION

## Scholarships and Memberships

## Scholarships:

- 06. – 09.2005: Humboldt University of Berlin (program "Abschlussstipendium"): scholarship given for the finalization of the M.Sc. thesis.
- 10.2003 – 09.2005: Katholischer Akademischer Ausländer-Dienst (KAAD): scholarship given for the M.Sc. studies.
- 10.2002 – 02.2004: Deutsche Akademischer Austausch Dienst (DAAD) (program "STIBET"): scholarship given for the M.Sc. studies.
- 01.1998 – 12.2001: Credomatic and Automercado Cooperation: scholarship given for studies of agricultural sciences at EARTH University.

## Memberships:

- European Association of Agricultural Economists
- Gesellschaft für Wirtschafts- und Sozialwissenschaften des Landbaues e.V. (GeWiSoLa)
- Colegio de Ingenieros Agrónomos de Costa Rica