# Camilo A. Gallego-Arias

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## EDUCATION

**PhD in Economics** September 2016 – present
University of Massachusetts, Amherst

**M.Sc. in Electrical Engineering** January 2009 – December 2011
Technological University of Pereira, Colombia

Field of study: energy markets and power system expansion planning

Thesis/project: Analysis of market failures in the Colombian wholesale electricity market.

**B.A. in Electrical Engineering** June 2004 – February 2009
Technological University of Pereira, Colombia

Thesis/project: Analysis of current practices for detecting market power in Colombia's wholesale electricity market.

## PROFESSIONAL EXPERIENCE

**Energy Policy Advisor of the Deputy Minister of Energy in Colombia** September 2015 – April 2016
Ministry of Mines and Energy, Colombia

- Advisor in public policies to encourage competition for all participants in the Colombian energy market.
- Helped the process of promoting the expansion of renewable sources of energy in the Colombian generation power system.
- Part of the team that helped to overcome the last energy crisis in Colombia, preventing a general blackout during El Niño Phenomena 2015-16.

**Energy Regulatory Advisor** August 2011 – September 2015
The National Energy and Gas Regulatory Commission

- Advisor in the elaboration of policies to prevent abuse of market power.
- Part of the team in the analysis of policy-alternatives to integrate the international energy transactions in the Andean Community of Nations, CAN (in Spanish).
- Calculation of the renewables' firm-energy as a long term regulatory tool to prevent energy deficits.

## RESEARCH EXPERIENCE

**Research Assistant** May 2017 – today
University of Massachusetts, Amherst
Political Economy Research Institute, PERI

- Researcher on green-growth strategies for developing countries.
- Researcher on how the wholesale electricity markets in developing countries can be articulated under a clean energy program.

**Graduate Researcher – young researcher program** February 2010 – July 2011

National Department of Science and Technology (COLCIENCIAS)

- Analysis of market power in wholesale electricity markets.
- Equilibrium models applied in hydrothermal electricity markets.

**Graduate Researcher** March 2010 – July 2010
Technological University of Pereira

- Analysis of the economic incentives in the implementation of non-technical power losses program.
- Development of software to determine the optimal path for the non-technical power losses program.

## TEACHING EXPERIENCE

August 2009 – May 2010

**Professor**
Technological University of Pereira
Course: Power Generation Systems

- Economic dispatch of hydrothermal units.
- Optimal power flow analysis.

## PUBLICATIONS

- Camilo Gallego, Harold Salazar, Ramón Gallego. *Analysis of Current Practices for Detecting Market Power in Wholesale Power Market in Colombia*. Revista Facultad de Ingeniería de la Universidad de Antioquia. Revista edición 59. Junio de 2011. http://www.scielo.org.co/scielo.php?pid=S012062302011000300012&script=sci_arttext

## SCHOLARSHIPS AND AWARDS

- Fulbright-Colciencias fellowship.
- Best research project among more than 1000 researches in Colombia by Colciencias. May 2011. http://www.mineducacion.gov.co/cvn/1665/w3-article-272301.html
- Outstanding grade in the M.S.c final thesis/project. September 2011.
- Member of technical committee of evaluation. IEEE ANDESCON 2010: Green Technologies for a Better World. September 2010.
- Graduation with honors. Electrical engineering. Technological University of Pereira. February 2009.

## ADDITIONAL COURSEWORK

- Sustainable Energy Training for Latin America. Santiago de Chile. November 2014.
- The Colombian Power System Security Operation. Medellin, Colombia. July 2012.
- Portfolio risk analysis. The Colombian Securities Exchange (BVC). Bogotá, July 2009.

## SKILLS

- Programming languages: Matlab, Visual Basic (Excel), Stata.

- Language skills: Spanish (fluid), English.

## REASEARCH INTERESTS

- Ecological macroeconomic analysis applied in developing countries.
- Industrial organization in electricity systems.
- Financing options to encourage green energy investments.
- Policy alternatives to mitigate market-failures in domestic energy markets.