

JORGE ALEXANDER BONILLA LONDOÑO

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Education

- 2013 (June) PhD in Economics. Department of Economics at University of Gothenburg, Sweden.
Title of the thesis dissertation: "Essays on the Economics of Air Quality Control".
- 2003 M.A. in Economics, Universidad de Los Andes. Bogota, Colombia.
- 2003 M.A. in Environmental and Natural Resource Economics, Universidad de Los Andes/ University of Maryland. Bogota, Colombia.
- 1998 B.S. in Forest Engineering, Universidad del Tolima. Ibague, Colombia.

Interest Fields

Environmental policy instruments with particular application to externalities and climate change. Impact evaluation.

Languages

Spanish (native), English (fluent), Swedish (beginner).

Professional Experience

Research:

- 2016-2019 Director of the Research Group on Environmental, Natural Resource and Applied Economic Studies (REES) – Environment for Development Initiative (EfD).
https://www.researchgate.net/profile/Jorge_Bonilla7/publications
<http://scholar.google.com/citations?user=sjJol0oAAAAJ&hl=es>
<http://orcid.org/0000-0001-9474-0023>

Academia:

- 2019-present Associate Professor – Department of Economics at Universidad de Los Andes, Bogota, Colombia.
Courses taught: Intermediate Econometrics, Quantitative Methods for Economists.
- 2013-2018 Assistant Professor – Department of Economics at Universidad de Los Andes, Bogota, Colombia.
Courses taught: Introductory Econometrics, Intermediate Econometrics, Advanced Econometrics, Environmental Economics, and Impact Evaluation.
- 2005-2008 Instructor Professor – Department of Economics at the Universidad de Los Andes, Bogota, Colombia.
Courses taught: Introductory Econometrics, Intermediate Econometrics, Probability and Statistics, Math Review for Master Program in Economics, Quantitative Methods, and Module of Economics in the course of Constitution and Democracy.

- 2003-2004 Instructor Professor – Department of Economics at the Universidad de Los Andes, Bogota, Colombia.
Courses taught: Intermediate Econometrics, Workshop of Econometrics I, Workshop of Advanced Econometrics for the Master Program in Environmental and Natural Resource Economics, Math Review for Master Program in Economics and Environmental and Natural Resource Economics, and Math Review for Specialization Program in Economics.
- 2001-2002 Teaching Assistant – Department of Economics at the Universidad de Los Andes, Bogota, Colombia.
Courses assisted: Advanced Econometrics, Agricultural Economics, Economic Development and Environment.

In the Public Sector:

- 2004 - 2005 Advisor – Office of Urban Development and Environmental Policy, Departamento Nacional de Planeacion, Bogota, Colombia.
- 2003 Advisor – Section of Environmental Studies, Office of Environmental Policy, Departamento Nacional de Planeacion, Bogota, Colombia.
- 1999 University Professional – Section of Internal Control, Corporacion Autonoma Regional del Cauca, Popayan, Colombia.
- 1998 University Professional – Operative Section - Unidad Operativa Regional Costa Pacifica - Corporacion Autonoma Regional del Cauca, Popayan, Colombia.

Publications

Refereed Journal:

- Bonilla, J.; Coria, J.; Sterner, T. 2018. Technical Synergies and Trade-Offs Between Abatement of Global and Local Air Pollution. *Environmental and Resource Economics* 70(1): 191–221. doi: 10.1007/s10640-017-0117-8.
- Bonilla, J. A. 2016. The More Stringent, the Better? Rationing Car Use in Bogota with Moderate and Drastic Restrictions. *The World Bank Economic Review* 2016. Online access October 20. <http://wber.oxfordjournals.org/content/early/2016/10/17/wber.lhw053.abstract>
- Bonilla, J.; Coria, J.; Mohlin, K.; Sterner, T. 2015. Refunded emission payments and diffusion of NOx abatement technologies in Sweden. *Ecological Economics* 116, 132–145. doi:10.1016/j.ecolecon.2015.03.030.
- Coria, J.; Bonilla, J.; Grundström, M.; Pleijel, H. 2015. Air pollution dynamics and the need for temporally differentiated road pricing, *Transportation Research Part A: Policy and Practice* 75, 178-195. <http://dx.doi.org/10.1016/j.tra.2015.03.004>.
- Westerlund, J., Urbain, J.-P., Bonilla, J. 2014. Application of air quality combination forecasting to Bogota. *Atmospheric Environment* 89, 22-28. <http://dx.doi.org/10.1016/j.atmosenv.2014.02.015>.
- Bonilla, J. A.; Rosales R. and Maldonado J. 2003. "El Valor Económico de la Predicción del Fenómeno El Niño Oscilación del Sur (ENOS) en el Sector Azucarero Colombiano". *Revista Desarrollo y Sociedad* No. 52, 1 – 38 p, September, Bogotá.

Books:

- Echeverry, J. C.; Bonilla, J. A.; Clavijo, A.; Fergusson, L.; Moya, A.; Navas, V. and Querubin, P. 2008. "Quién manda sobre las cuentas públicas? Inflexibilidad presupuestal en Colombia, Argentina, México y Perú". Ediciones Uniandes, Universidad de Los Andes, Bogotá.

Available abstract in Spanish at:

http://economia.uniandes.edu.co/es/investigaciones_y_publicaciones/cede/publicaciones/libros_y_otras_publicaciones_del_cede/2008/quien_manda_sobre_las_cuentas_publicas_inflexibilidad_presupuestal_en_colombia_argentina_mexico_y_peru

- Fajardo, M.; Ospina, M.; Bonilla, J. and Sánchez, F. 2008. "Historia del CEDE. 50 años de investigación en economía 1958-2008". Ediciones Uniandes, Universidad de Los Andes, Bogotá.

Available abstract in Spanish at:

http://economia.uniandes.edu.co/es/investigaciones_y_publicaciones/cede/publicaciones/libros_y_otras_publicaciones_del_cede/2008/historia_del_cede_50_anos_de_investigacion_en_economia_1958_2008

Working Papers:

- Bonilla, J. and Carriazo, F. 2018. Assessing social experiments using Apps: the case of Car-free days in Bogotá. Documento CEDE 2018-50. Bogota.
- Bonilla, J. 2018. Should we blame buses? Bus strikes and air quality.
- Rosales, R. and Bonilla, J. A. 2006. "Introducción a la Econometría". Apuntes de Clase CEDE 2006-3. Bogota.
- Rosales, R.; Bonilla, J. A. and Apaza, E. 2004. "Economía de la Producción de Bienes Agrícolas. Teoría y Aplicaciones". Documento CEDE 2004-34. Bogota.

Work in Progress:

- Cleaning the air: Good policies against bad air quality? (with Villegas, C., Arango, S. and Orrego, S.).
- Crime and pollution in Bogotá (with Riascos, A., Translateur, E. and Diaz, A.).
- Climate and air pollution. Evidence in Bogotá (with Becerra, L.).
- Gasoline consumption and the implications of the carbon tax in Colombia.

Supervised Students (works in Spanish)

- Nicolas Mejia. PM10 forecasting and prevention in critical episodes of air quality in Bogotá. This study received special recognition from the Ministry of Environment and Sustainable Development in Colombia among several academic works in the celebration of the Inter-American Day of Air Quality. Link to the news: <http://www.minambiente.gov.co/index.php/noticias/4102-minambiente-afianza-estrategias-con-la-academia-para-el-mejoramiento-de-la-calidad-del-aire>
- Alejandro Herrera. Transit and crime. Evidence of traffic flows in the Bus Rapid Transit System in Bogotá.
- Valeria Sandoval. Subjective value of time for using public transport in Bogotá.
- Juan Sebastian Hernandez. Economic value of air quality in the Kennedy area measured through the health impacts.
- Daniela De La Hoz. Factors that affect mobility in Bogotá.
- German Ricaurte. Willingness to pay for improving bicycle use.
- Rafael Rubiano. Shadow price of methane emissions in the livestock sector in Colombia.
- Camilo Avila. Weather effects on food prices in Colombia.
- Nestor Andres Gomez. Armed conflict impacts on water quality risk index in Colombia.
- Lina Marcela Quiñonez. PM10 forecasts and its relationship with respiratory diseases in the Kennedy area.
- Erika Salcedo and Sabina Talero. Estimation of land-use opportunity costs to design payment for environmental services in the Tota Lake.

- Camilo Parra. Estimation of the economic value of waiting times for the Bus Rapid Transit System (Transmilenio) users in Bogotá.
- Camila Cortés. Effects of the river pollution on educational performance in Colombian children.

In Media

In the recent years I have participated in the debate about the importance of studying air quality in cities and the need for effective policies to cut emissions. Some local media (Portafolio, El Tiempo, El Espectador, Semana, among others) cite my research results. Please go to my personal webpage to get a list of the news (<https://jorbonill.wixsite.com/jorgebonilla>).

Editorial Service

2005 – 2007 Editorial Coordinator of the Journal *Desarrollo y Sociedad*. ISSN: 0120 – 3584.

Other Professional Activities

2014-2018	Reviewer for the following journals: Environmental and Resource Economics, Environment and Development Economics, Transportation Research Part A: Policy and Practice, Regional Environmental Change, The Energy Journal, International Journal of Sustainable Transportation, Case Studies on Transport Policy, Latin American Research Review, and Desarrollo y Sociedad.
2013 – 2018	Reviewer of some proposals or papers submitted to the Environment for Development Initiative (EfD).
2008 – 2018	Reviewer of some thesis for the Master Program in Economics. Universidad de Los Andes, Bogota, Colombia.
2005 – 2007	Assistant of the Economic Development Research Center Seminar. Universidad de Los Andes, Bogota, Colombia.