

Carlos Adrián Saldarriaga Isaza

I. PERSONAL INFORMATION

Place of birth	Medellín (Antioquia) – Colombia
Nationality	Colombian
Current position	Associate Professor, Department of Economics, Universidad Nacional de Colombia, at Medellín
Work address	Calle 59A # 63-20, Bloque 43, Of. 426 Medellín – Colombia
E-mail addresses	casaldarriagai@unal.edu.co, saldarriaga.adrian@gmail.com
Phone numbers	57-4-430900 ext. 46243/ 3013551591

II. EDUCATION

Ph.D. in Engineering	January/2011 to April/2014
Institution	National University of Colombia, at Medellín (COLOMBIA)
Thesis	The Tragedy of the Commons in Artisanal Gold Mining: Evaluation of Mechanisms of Cooperation with Simulation and Economic Experiments
M.Sc. in Natural Resource and Environmental Economics	March/2002 to August/2004
Institution	University of Concepción (CHILE)
Thesis	Análisis de Costo-efectividad en la Conservación del Huemul en el Área de Protección Cordillerana, VIII Región, Chile (<i>Cost effectiveness analysis of Huemul Conservation in the Cordilleran Protection Area, VIII Region, Chile</i>)
Economist	August/1995 to December/2001
Institution	National University of Colombia, at Medellín (COLOMBIA)
Thesis	Análisis Económico de proyectos forestales como parte del Mecanismo de Desarrollo Limpio, en el área de influencia de la Central Hidroeléctrica Porce II (<i>Economic analysis of forestry-based projects under the Clean Development Mechanism, in the influence area of the Porce II hydroelectric power plant (Colombia)</i>)

III. LABOR EXPERIENCE

Associate Professor (From March 2007 to present)	Environmental Economics, Macroeconomics.
Institution	Department of Economics National University of Colombia, at Medellín
Research Fellow and Lecturer (From August 2004 to July 2006)	Labor economics, environmental economics
Institution	Department of Economics University of Concepción (CHILE)

COURSES & CONFERENCES ATTENDED

“Sustainability of the extraction of coal in Colombia” and “Reducing Hg pollution in small-scale mining through associative entrepreneurship: an experimental and modeling approach”. Papers for the 23rd annual conference of the International Sustainable Development Research Society (ISDRS), Bogotá (Colombia), June 14-16, 2017.

“Understanding Collective Action in Artisanal and Small-Scale Gold Mining”. Paper for the “3rd International Conference on Social Responsibility in Mining SRMINING 2015”, Antofagasta (Chile), Nov. 4-6, 2015.

“Retos en el diseño de políticas públicas para la pequeña minería”. Presentation for the international seminar “Minería en Latinoamérica: retos y oportunidades”, organized by Universidad de los Andes and David Rockefeller Center for Latin American Studies (DRCLAS) of Harvard University. Bogotá, Colombia. May 23-24, 2013.

“A behavioral model of collective action in artisanal and small scale gold mining”. Paper for the “International Conference of the System Dynamics Society”, Cambridge, MA, USA, July 21-25, 2013.

“Phasing out mercury in artisanal gold mining: Evidence from a framed experiment”. Paper for the “Ninth International Meeting on Experimental and Behavioral Economics”, organized by Universitat Autònoma de Barcelona and Universidad Carlos III de Madrid, Madrid (Spain), April 11-13, 2013.

“LACEEP’s Training Course in Impact Evaluation”. Organized by the Latin American and Caribbean Environmental Economics Program (LACEEP). Turrialba, Costa Rica. July, 2011.

“Cost-effectiveness Analysis of Species Conservation: an Application to a Biological Corridor in Chile”. Paper for the “12th BioEcon Conference”, organized by FEEM, Venice (Italy), September 27-28, 2010.

“Techniques in Impact Evaluation”. Course organized by Universidad de los Andes. Bogotá, Colombia. July, 2010.

“Who switches to gas? A study of a fuel conversion program in Colombia”. Paper for the “16th annual conference of the European Association of Environmental and Resource Economists (EAERE)”. Göteborg University, Sweden. June 25-28, 2008.

“Evaluación del Programa de Conversión de Combustible en Vehículos en el Valle de Aburrá (Colombia)”. Paper for the “III Congress of the Latin American and Caribbean Association of Environmental and Resource Economists”. Talca, Chile. September 26-28, 2007.

“Cost-effective Species Conservation: an Application to Huemul (*Hippocamelus Bisulcus*) in Chile”. Paper for the Meeting of the Society of Economics of Chile. Reñaca (Chile), September 29-30, 2005.

“Environmental Valuation and Behavior”. Course organized by Göterbog University. Lecturer: Peter Martinsson, Fredrik Carlsson. Sweden. Oct. 4 – Nov. 5, 2004.

“Environmental Economics and Policy Making”. Course organized by Göterbog University. Lecturer: Thomas Sterner. Sweden. April 2005.

“School on Ecological Economics and Conference on Theoretical Topics in Ecological Economics”. Organized by ICTP Abdus Salam, The Beijer Institute and FEEM. ICTP, Trieste (Italy), Jan. 27th- Feb. 28th, 2003.

“Research seminar in environmental economics”. Organized by The Beijer International Institute of Ecological Economics. Celestún (Mexico), December 14-16, 2001.

IV. PUBLICATIONS

Articles in peer-reviewed journals

Arango, S., et al. (2017). “Simulating mining policies in developing countries: The case of Colombia”. *Socio-Economic Planning Sciences* 60: 99-113.

Patiño, B., A. Saldarriaga. 2016. “Transferencia de valores económicos para la estimación de impactos sobre cobertura boscosa en proyectos hidroeléctricos”. *Económicas CUC* 37(1): 41-60.

Saldarriaga, A., C. Villegas-Palacio, S. Arango. 2015. “Phasing out mercury through collective action in artisanal gold mining: Evidence from a framed field experiment”. *Ecological Economics* 120: 406-415.

Saldarriaga, A., S. Arango, C. Villegas-Palacio. 2015. “A behavioral model of collective action in artisanal and small-scale gold mining”. *Ecological Economics* 112: 98-109.

Salas, L., A. Saldarriaga. 2014. “El valor del capital natural, un indicador en la sostenibilidad de la extracción del carbón colombiano (2004-2011)”. *Ensayos de Economía* 45: 83-106.

Saldarriaga, A. 2014. “Benefit Transfer and the Economic Value of Air Quality Revisited”. *Sociedad y Economía* 27: 207-224.

Saldarriaga, A., C. Villegas-Palacio, S. Arango. 2013. “The public good dilemma of a non-renewable common resource: A look at the facts of artisanal gold mining”. *Resources Policy* 38(2): 224-232.

Saldarriaga, C.A, Vásquez, E., and Chavarría, S. 2011. “Análisis Costo-Beneficio del Programa de Gas Natural Vehicular aplicado en el Área Metropolitana del Valle de Aburrá”. *Gestión y Ambiente* 14(1): 143-150.

- Saldarriaga, C.A, and Concha, E. 2010. “Análisis económico de los servicios provistos por una plantación forestal: el caso del eucalipto en Chile”. *Ensayos de Economía* 36: 125-136.
- Saldarriaga, C.A, C. Vergara. 2009. “Who switches to hybrids? A study of a fuel conversion program in Colombia”. *Transportation Research Part A* 43(5): 572-579.
- Saldarriaga. C.A., W. Gómez, and H. Salgado. 2007. “Cost-Effective Species Conservation: an Application to Huemul (*Hippocamelus Bisulcus*) in Chile”. *Environment and Development Economics* 12(4): 535-551.
- Saldarriaga, C.A. 2007. “SIG en el análisis económico de manejo y conservación del medio ambiente y los recursos naturales”. *Ensayos de Economía* 17(31): 125-136.
- Saldarriaga, C.A., N. Campos. 2005. “Economía, Medio Ambiente y Recursos Naturales en los 40 años de la revista Economía y Administración”. *Revista Economía y Administración* 40: 77-89.

Chapters in books

- Saldarriaga, C. Arango, S. Villegas C. 2011. “*Gestión colectiva en la minería aurífera artesanal*”. In: “La responsabilidad social empresarial y la ingeniería”. ANEIAP Project. Ed: Universidad Nacional de Colombia, Medellín. ISBN: 978-958-44-9517-4. (In Spanish).
- Saldarriaga, C.A. 2011. “*A Dispensable Though Convenient Subsidy: Switching to Hybrids in Colombia*”. In: T. Wouters (Ed.), *Progress in Economics Research*, Volume 21, Nova Science Publishers, pp: 157-166.
- Orrego, S.A., C.A. Saldarriaga, J.G. Escobar, J. del Valle. 2003. “*Análisis de proyectos forestales como parte del Mecanismo de Desarrollo Limpio*”. In: J.I. del Valle, S.A. Orrego F.H. Moreno (Eds). *Medición de la Captura de Carbono en Ecosistemas Forestales Tropicales de Colombia: Contribuciones para la Mitigación del Cambio Climático*. Universidad Nacional de Colombia, sede Medellín – CAEMA. Bogotá. (In Spanish).

<h2>V. PROJECTS</h2>

- “Escenarios Mineros para Colombia” (*Mining Scenarios for Colombia*). Project developed for the Mining and Energy Planning Unit of the Ministry of Mines and Energy of Colombia, 2013-2014.
- “Estudio plan de abastecimiento –Fase piloto subregión Occidente– Antioquia”. Project developed for FAO, 2014.
- “Transferencia de Beneficios en el Análisis Costo-Beneficio de la Implementación de un Programa de Conversión a Combustibles Alternativos: el Caso del Gas Natural Vehicular en el Valle de Aburrá (Colombia)” (*Benefit transfer in the cost-benefit analysis of a alternative fuel conversion program: the case of natural gas*

vehicles in the Aburra Valley (Colombia)). Financial support from vice-rectory of research, Nacional University of Colombia, 2008-2010.

“Evaluation of the Fuel Conversion Program in Vehicles in the Aburrá Valley (Colombia)”. Finalized research, with a grant provided by the Latin American and Caribbean Environmental Economics Program (www.laceep.org), 2007-2008.

“Análisis sobre el Mercado Laboral en Chile a través del Procesamiento de Información Secundaria Disponible, Zona Sur” (*Analysis of the labor market in Chile based on available secondary information, southern area*). University of Concepción, Chile, 2004-2006.

VI. SUPERVISION OF THESES (finished)

Bernardo Patiño, “Viabilidad de la transferencia de valores económicos para la estimación de impactos sobre cobertura boscosa en proyectos hidroeléctricos para el departamento de Antioquia”. M.Sc. in Economic Sciences, National University of Colombia – Sede Medellín. 2017.

Melisa Pacheco, “El papel de los recursos naturales en el crecimiento económico: una aproximación al caso colombiano 1985-2013”. M.Sc. in Economic Sciences, National University of Colombia – Sede Medellín. 2016. Meritorious mention thesis.

Luis Salas, “El valor del capital natural, un indicador en la sostenibilidad de la extracción del carbón colombiano (2004-2011)”. M.Sc. in Economic Sciences, National University of Colombia – Sede Medellín. 2015.

Eric Concha, “Análisis económico de los servicios provistos por una plantación forestal: el caso del eucalipto en Chile”. M.Sc. Natural Resource and Environmental Economics, University of Concepción, Chile. 2006.

VII. AWARDS

“**Scholarship John D. & Catherine T. MacArthur Foundation**”, to study in the Mater Program in Natural Resource and Environmental Economics, at the University of Concepción, Chile (2002-2004).

“**Research grant provided by the Latin American and Caribbean Environmental Economics Program (LACEEP)**”, (2007-2008).

“**Scholarship of the Administrative Department of Science, Technology and Innovation of Colombia (COLCIENCIAS)**”, to study in Doctoral Program in Engineering at the National University of Colombia, Colombia (2012-2013).

“**Research grant provided by the Latin American and Caribbean Environmental Economics Program (LACEEP)**”, (2013).