

RODRIGO BRITTO

Associate Professor | Supply Chain Management & Technology Area

Joined the School in 2004

ACADEMIC BACKGROUND

- 2006 - 2012 Ph.D. in Logistics and Transportation Business, University of Maryland. College Park, MD, United States.
- 2002 - 2004 M.Sc. In Industrial Engineering, Universidad de los Andes – Bogotá, Colombia.
- 1994 - 2000 Chemical Engineering, Universidad Nacional de Colombia – Bogotá, Colombia.

TEACHING EXPERIENCE

Courses Taught in Recent Years

Executive Education

- Operations Management
- Logistics and inventory management
- Process Management
- Distribution and Supply Management

Graduate

- Optimization
- Operations and Logistics: Teaching assistant
- Business Game

Undergraduate

- Operations and Logistics
- Optimization
- Advanced Supply Chain Management Strategy and Technologies
- Business Game

ACADEMIC ACTIVITIES

- 2017 - 2021 Director, Undergraduate Program in Management.
- 2017 - to date Associate professor. Universidad de los Andes, School of Management.
- 2012 - 2017 Assistant professor. Universidad de los Andes, School of Management.
- 2004 - 2006 Instructor. Universidad de los Andes, School of Management.
- 2003 - 2004 Research Assistant. Universidad de los Andes, School of Management.
- 2001 – to date Area Director Supply Chain Management & Technology. Universidad de los Andes, School of Management.

OTHER PROFESSIONAL ACTIVITIES

Consultancies

2014	Senior Consultant, Process analysis and design of Icetex.
2014	Consultant. Methodology for the measurement of Innovative Dynamic Entrepreneurship (IDE) in Colombia, Confecámaras.
2013	Senior Consultant, Process analysis and design for the Operations and Technology Vice-presidency of Icetex.
2013	Design of a forecasting system for DISAN.
2010	Total Delay Impact Study. A Comprehensive Assessment of the Costs and Impacts of Flight Delay in the United States. Nextor commissioned by the Federal Aviation Administration (FAA). Research Assistant.
2009	Research Assistant. Building A Cyber Supply Chain Assurance Reference Model, A collaborative research project between SAIC and the Supply Chain Management Center, Smith School of Business.
2005	Follow up to the program SERPYME, UASM. Consultor.

OTHER PROFESSIONAL EXPERIENCE

2000 - 2003 Advisor, Corporación Landa Ambiental. Bogotá, Colombia.

RESEARCH

Research Areas

- Transportation Management and Policy
- Disruptions and resilience in the Supply Chain
- Operations Management in Emerging Markets

PUBLICATIONS

Articles in Academic Journals

2022	Problema de selección de cartera utilizando optimización semi-infinita. Revista Información Tecnológica (ISSN 0718-0764) 33 (3), pp. 60-71.
2020	Devulcanization of ground tire rubber: thermo-oxidation followed by microwave exposure in the presence of devulcanizing agent. Iranian Polymer Journal (ISSN 1026-1265) 29 (7), pp. 553-567.
2020	In search of the negative relationship between product variety and inventory turnover. International Journal of Production Economics (ISSN 0925-5273) 222 (107503), pp. 10.
2019	Factores Significativos en el Diseño de Proyectos Inmobiliarios de Tipo Industrial aplicando una Metodología General Ajustada. Informacion Tecnologica (ISSN 0716-8756) 30 (-), pp. 31-40.
2019	Fedossova A, Fedosov V, Britto R. (2019) Dispersión de las Partículas de Emisiones Industriales en el Problema de Optimización Semi-infinita del Área

- Contaminada. Revista Información Tecnológica (ISSN 0718-0764) 30 (1), pp. 333-344
- 2017 Britto, Rodrigo. Buitrago, O. Ramírez, A. Proyecciones Paramétricas para el Escape de Aristas en poliedros de forma $Ax \leq b$. Información Tecnológica. Vol. 28. No. 6.
- 2017 Britto, Rodrigo. Gómez, A. Fedossova, A. A numerical solution for the air pollution control problem in 3D. DYNA, vol.84, n.200, pp.342-350. ISSN 0012-7353. <http://dx.doi.org/10.15446/dyna.v84n200.53883>
- 2016 Britto, Rodrigo. Steven. A. Emerging market presence, inventory, and product recall linkages. Journal of Operations Management. Volume 46, September, Pages 55 – 68.
- 2016 Britto, Rodrigo. Jola, A. Pedraza, A. Bretthauer, K. Effect of Armed Conflicts on Humanitarian Operations: Total Factor Productivity and Efficiency of Rural Hospitals». Journal of Operations Management. Volume 45, July 2016, Pages 73 – 85.
- 2016 Britto, Rodrigo. Steven, A. Emerging market presence, inventory, and product recall linkages. Journal of Operations Management. Vol. 45. Pp. 73 - 85.
- 2016 Britto, Rodrigo. Palacios, O. Buitrago, O. Adarmes, W. Propuesta metodológica para la selección de la configuración de centros de distribución inmóticos utilizando análisis envolvente de datos, ingeniería. Revista chilena de ingeniería. Vol. 24. Pp. 480 – 492.
- 2015 Britto, Rodrigo. Buitrago, Óscar. Mejía, Jorge Enrique. Forecast Model For Diffusion Of Innovations Based On Molecular Diffusion. Ciencia e Técnica Vitivinícola.
- 2015 Britto, Rodrigo. Buitrago, Óscar. Ramírez, Andrés. Nuevo Algoritmo para la Construcción de la Envolvente Convexa en el Plano, Información tecnológica. Vol. 26. No. 4. Pp
- 2015 Britto, Rodrigo. Fisher, K. Han, C. Windel, R. Aligning supply chain transportation strategy with industry characteristics: Evidence from the US-Asia supply chain. International Journal of Physical Distribution & Logistics Management, Vol. 45 Issue: 9/10, pp.837-860, <https://doi.org/10.1108/IJPDLM-06-2014-0130>.
- 2013 Britto, Rodrigo. Buitrago, O. Puerto, J. Ramírez, J. Eficiencia relativa en entidades ambientales gubernamentales: Medición sobre las Corporaciones Autónomas Regionales -CAR- de Colombia. Ingeniería y Universidad. Bogotá - Colombia. ISSN 0123-2126.
- 2012 Britto, Rodrigo. Dresner, M. Voltes, A. The Impact of Flight Delays on Passenger Demand and Societal Welfare. Transportation Research Part E: Logistics and Transportation Review. March. Vol. 48. Issue 2. Pp 460 – 469.
- 2012 Britto, Rodrigo. Buitrago, O. Ramírez, A. A new algorithm for solving linear programming problems. Ingeniería e Investigación. ISSN 0120-5609 Bogotá-Colombia.
- 2012 Britto, Rodrigo. Buitrago, O. Fedossova, A. Inferencias para la reflexión sobre la calidad de la educación superior nocturna en ingeniería en Colombia. Educación y Educadores.2012. Vol 15 No 3 pp. 432 - 443.

- 2010 Britto, Rodrigo. Corsi, T. Grimm, C. The Relationship between Motor Carrier Financial Performance and Safety Performance. *Transportation Journal*, Vol. 49, pp. 42 - 51.
- 2009 Britto, Rodrigo. Buitrago, O. Mejía, G. Minimización de la tardanza ponderada total en talleres de manufactura aplicando colonia de hormigas. *Ingeniería*. Vol. 1 No. 1 pp.24 - 30.
- 2007 Britto, Rodrigo. Buitrago, O. Mejía, G. Análisis Comparativo de Colonia de Hormigas vs. Un Enfoque Combinado Cuello de Botella Móvil/Búsqueda Tabú en la Minimización de la Tardanza Ponderada Total en Sistemas de Manufactura Tipo Taller. *Revista Colombiana de Computación*. Vol. 8. Part 1 pp. 21 – 40.
- 2007 Britto, Rodrigo. Caballero, J. Mejía. Programación de producción en sistemas de manufactura tipo taller con el algoritmo combinado Cuello de Botella Móvil y Búsqueda Tabú. *Ingeniería 3 y Universidad*. Vol. 11 No. 2 pp. 203-224.

Books

- 2015 Britto, Rodrigo. Buitrago, O. Análisis Envolvente de datos. Herramienta de optimización para la medición de la eficiencia y la productividad. Universidad Militar Nueva Granada.
- 2011 Britto, Rodrigo. Buitrago, O. Fedossova, A. Introducción a la Programación Lineal con Aplicaciones en Administración de Operaciones. CESA Publishers.

Chapters in Books

- 2017 Britto, Rodrigo. Grant, D. Soto, J. Thiel, M. International freight transport in South America: the case of Colombia. In: *International Freight Transport: Cases, Structures and Prospects*. Kogan Peage. Pp. 231 – 255.

Conference Presentations

- 2021 Efficiency of Global Airlines Under Environmental, Social, And Governance Objectives: A Slacks-Based Malmquist-DEA Approach. Invited Special Session: Empirical Research in Supply Chain Management, 15th International Conference on Operations and Supply Chain Management (ICOSCM 2021)
- 2016 POM 27th Annual Conference. Using the BLEER Method with Data Envelopment Analysis (DEA) for the Balancing Line Problem. Orlando, Florida. May 3 – 9.
- 2014 Decision Science Institute – DSI 44th Annual Meeting. Emerging Market Penetration and Product Recalls: Investigating Sourcing and In-House Offshoring Activities. Tampa, Florida. November 22 – 25.
- 2014 24th Annual POM Conference Denver, Colorado. Measuring the productivity growth of U.S. motor carriers using a global Malmquist-Luenberger index. Denver, Colorado. May 3 – 6.
- 2011 Speaker I Simposio Internacional Lasallista de Ingeniería, Universidad La Salle, Bogotá, Colombia.

- 2010 INFORMS 2010 Annual Meeting. An Assessment of the Impact of Undesirable Outputs on the Productivity of US Motor Carriers. Austin, Texas November 7-10.
- 2010 Decision Science Institute- DSI 41th 2010 Annual Meeting. An Assessment of the Impact of Undesirable Outputs on the Productivity of US Motor Carriers. San Diego, California. November 20-23.
- 2010 Speaker 1st Transatlantic German Aviation Research Society (G.A.R.S.) Workshop, University of Maryland, College Park, Maryland.
- 2009 Transportation Research Forum -TRF 50th 2009 Annual Fort Worth, Texas March 16-18. The impact of on-time performance on air fare prices in the U.S Airlines.
- 2008 Decision Science Institute- DSI 39th 2008 Annual Meeting. The impact of on-time performance on air fare prices in the U.S Airlines. Baltimore, Maryland. November 22-25.
- 2008 Transportation Research Forum -TRF 49th 2008 Annual. The Impact of Motor Carrier's Financial Performance on Safety Performance. Fort Worth, Texas March 17 - 19.
- 2006 Third International Conference on Production Research – Americas' Region 2006 (ICPR--AM06 Combined approach of the Shifting Bottleneck and Tabu Search Heuristics for minimizing Total Weighted Tardiness in Job Shop Scheduling Problems), Curitiba, Brazil.
- 2005 XI Escuela Latinoamericana de Verano en Investigación de Operaciones. Enfoque combinado de las heurísticas Cuello de Botella Móvil y Búsqueda Tabú para minimizar la tardanza ponderada total en sistemas de manufactura tipo taller. Villa de Leyva, Colombia.

Doctoral Dissertation

- 2012 An assessment of the impact of undesirable outputs on the productivity of U.S. motor carriers. Adviser: Dr. Thomas Corsi.

Proceedings

- 2012 43th DSI Annual Meeting 2012. San Francisco, CA, United States, November 7 – 20. A study on the determinants of Transport Modal Selection in Global Supply Chains. With J. Ke, R. Windle and C. Han.
- 2010 12th World Conference on Transport Research. Lisbon, Portugal. July 11 – 15. The Impact of Flight Delays on Passenger Demand, Yields and Welfare. With M. Dresner and A. Voltes.
- 2009 Air Transport Research Society. 13th World Conference. June 27 – 30. Abu Dhabi, United Arab emirates. The Impact of Flight Delays on Passenger Demand and Yields in the US Airline Industry. With M. Dresner and A. Voltes.
- 2006 Third International Conference on Production Research – Americas' Region 2006 (ICPR-AM06), Curitiba, Brazil. Combined approach of the Shifting Bottleneck and Tabu Search Heuristics for Minimizing Total Weighted Tardiness in Job Shop Scheduling Problems. With G. Mejía and J. Caballero.

Working Papers

2014 Aligning Supply Chain Transportation Strategy with Industry Characteristics – Evidence from the US-Asia Supply Chain. Submitted Manuscript.

SCHOLARSHIPS AND ACADEMIC DISTINCTIONS

2010 Jacob K. Goldhaber Travel Grant, entregada por la University of Maryland Graduate School.

2007 - 2010 Dean's Summer Research Fellowship, R.H. Smith School of Business, University of Maryland.

2009 Winner. Graduate paper contest; Transportation Research Forum (TRF) foundation.

2000 Second place. Chemical Engineer Promotion. Universidad Nacional de Colombia. Bogotá, Colombia.

1998 First place. Pilot Plant Competition. Universidad Nacional de Colombia. Bogotá, Colombia.

1993 Best Bachelor. Liceo de la Universidad Católica. Bogotá, Colombia.