

Curriculum Vitae

Dr. Jaime Andrés Castañeda

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[ORCID iD](#) | [Google Scholar](#)

EDUCATION

- 2009 – 2013 Ph.D. in Economics, Management stream, Università della Svizzera italiana, Lugano, Switzerland (USI).
- 2008 – 2009 M.Eng. in Engineering – Systems Engineering, Universidad Nacional de Colombia, sede Medellín, Medellín, Colombia (UNALMED).
- 2003 – 2007 B.Eng. in Systems and Informatics Engineering, UNALMED.

EMPLOYMENT

- 2023 – Present **Data Scientist**, Colombia's Information and Communication Technology Ministry.
- 03 – 07, 2022 **Data Science Fellow**, Correlation One (C1).
- 2021 – 2022 **Associate Professor**, School of Management and Business, Universidad del Rosario, Bogotá, Colombia (URosario).
- 2016 – 2021 **Principal Professor**, URosario.
- 02 – 03, 2016 **Graduate Assistant**, Production Engineering Department, Universidad EAFIT, Medellín, Colombia (EAFIT).
- 2014 – 2015 **Postdoctoral Fellow**, Center for Transportation & Logistics, Massachusetts Institute of Technology, Cambridge, MA (MIT).
- 2009 – 2013 **Doctoral Assistant**, USI.

RESEARCH INTERESTS

Behavioral operations management, Supply chain management, Humanitarian operations.

PUBLICATIONS

Refereed journal articles

- Franco, C., Herazo-Padilla, N., & Castañeda, J. A. (2022). A queueing network approach for capacity planning and patient scheduling: A case study for the COVID-19 vaccination process in Colombia. *Vaccine*, 40(49), 7073-7086.
<https://doi.org/10.1016/j.vaccine.2022.09.079>
- Castañeda, J. A., Zodzi, A., Gonçalves, P., & Rivera, L. (2022). An analysis of CARE Zimbabwe's emergency response process flow in the Masvingo Province through lean six sigma tools. *Production Planning & Control*, 33(6-7), 622-640.
<https://doi.org/10.1080/09537287.2020.1834131>

- Villa, S., & Castañeda, J. A. (2020). A behavioural investigation of power and gender heterogeneity in operations management under uncertainty. *Management Research Review*, 43(6), 753-771. <https://doi.org/10.1108/MRR-05-2019-0229>
- Castañeda, J. A., Brennan, M., & Goentzel, J. (2019). A behavioral investigation of supply chain contracts for a newsvendor problem in a developing economy. *International Journal of Production Economics*, 210, 72-83. <https://doi.org/10.1016/j.ijpe.2018.12.024>
- Gonçalves, P., & Castañeda, J. A. (2018). Stockpiling supplies for disaster response: An experimental analysis of prepositioning biases. *Production Planning & Control*, 29(14), 1207-1219. <https://doi.org/10.1080/09537287.2018.1542173>
- Villa, S., & Castañeda, J. A. (2018). Transshipments in supply chains: A behavioral investigation. *European Journal of Operational Research*, 269(2), 715-729. <https://doi.org/10.1016/j.ejor.2018.02.025>
- Castañeda, J. A., & Gonçalves, P. (2018). Ordering behavior in a newsstand experiment. *International Journal of Production Economics*, 197, 186-196. <https://doi.org/10.1016/j.ijpe.2017.12.014>
- Arango, S., Castañeda, J. A., & Larsen, E. R. (2013). Mothballing in power markets: An experimental study. *Energy Economics*, 36, 125-134. <https://doi.org/10.1016/j.eneco.2012.11.027>
- Arango, S., Castañeda, J. A., & Olaya, Y. (2012). Laboratory experiments in the system dynamics field. *System Dynamics Review*, 28(1), 94-106. <https://doi.org/10.1002/sdr.472>
- Castañeda, J. A., Arango, S., & Olaya, Y. (2009). Economía experimental en la toma de decisiones en ambientes dinámicos y complejos: Una revisión de diseños y resultados. *Cuadernos de Administración*, 22(39), 31-57. https://revistas.javeriana.edu.co/index.php/cuadernos_admon/article/view/3830/ (Spanish)

Edited books

- Villa, S., Urrea, G., Castañeda, J. A., & Larsen, E. R. (2019). *Decision-making in humanitarian operations: Strategy, behavior and dynamics*. Palgrave Macmillan. <https://doi.org/10.1007/978-3-319-91509-8>

Book chapters

- Villa, S., Castañeda, J. A., & Camacho, S. (2023). Análisis conductual en la gestión de operaciones. In N. Velasco, S. Villa, & S. Camacho (Eds.), *Gestión de la cadena de abastecimiento: Eslabones, herramientas y tendencias* (pp. 145-165). Universidad de Los Andes. <https://ediciones.uniandes.edu.co/library/publication/gestion-de-la-cadena-de-abastecimiento-eslabones-herramientas-y-tendencias> (Spanish)
- Castañeda, J. A. (2019). Behavioral experiments in single-agent operational problems. In S. Villa, G. Urrea, J. A. Castañeda, & E. R. Larsen (Eds.), *Decision-making in humanitarian operations: Strategy, behavior and dynamics* (pp. 193-219). Palgrave Macmillan. https://doi.org/10.1007/978-3-319-91509-8_6
- Castañeda, J. A. (2019). The framing effect in humanitarian operations. In S. Villa, G. Urrea, J. A. Castañeda, & E. R. Larsen (Eds.), *Decision-making in humanitarian operations: Strategy, behavior and dynamics* (pp. 127-146). Palgrave Macmillan. https://doi.org/10.1007/978-3-319-91509-8_9
- Sankaranarayanan, K., Castañeda, J. A., & Villa, S. (2018). Future research in humanitarian operations: A behavioral operations perspective. In G. Kovács, K. Spens, & M. Moshtari

(Eds.), *The Palgrave handbook of humanitarian logistics and supply chain management* (pp. 71-117). Palgrave Macmillan. https://doi.org/10.1057/978-1-137-59099-2_3

Castañeda, J. A., & Gonçalves, P. (2015). Kicking the “mean” habit: Joint prepositioning in debiasing pull-to-center effects. In E. Bendoly, W. van Wezel, & D. G. Bachrach (Eds.), *Handbook of behavioral operations management: Social and psychological dynamics in production and service settings* (pp. 238-250). Oxford University Press. <https://doi.org/10.1093/acprof:oso/9780199357215.003.0012>

Manuscripts in preparation

Can information manipulations debias decisions? An experiment with the newsvendor problem, with Y. Zhao.

Expedited shipping to meet a target service level: Understanding buyers’ behavior, with S. Villa, & G. Urrea. Revise & Resubmit at *Production and Operations Management*.

Working papers

Gonçalves, P., & Castañeda, J. A. (2013). *Impact of joint decisions and cognitive dissonance on prepositioning (newsvendor) decisions*. MIT Sloan Research Paper No. 5021-13. Available at <http://dx.doi.org/10.2139/ssrn.2306645>

Refereed conference proceedings

Arango, S., & Castañeda, J. A. (2009). Capacity utilization in electricity market behavior: An experimental analysis. In A. Ford, D. N. Ford, & E. G. Anderson (Eds.), *Proceedings of the 27th International System Dynamics Conference*. System Dynamics Society. <https://proceedings.systemdynamics.org/2009/proceed/papers/P1276.pdf>

Arango, S., Castañeda, J. A., & Olaya, Y. (2009). System dynamics and laboratory experiments. In A. Ford, D. N. Ford, & E. G. Anderson (Eds.), *Proceedings of the 27th International System Dynamics Conference*. System Dynamics Society. <https://proceedings.systemdynamics.org/2009/proceed/papers/P1123.pdf>

Technical reports

Jaramillo, A., De La Cruz, F., Castañeda, J. A., Pestana, J., Cabrera, N., & Forero, S. (2022). *Automation of detection of high accident risk locations for motorcyclists in Bogotá, D.C.* Secretaría de Movilidad de Bogotá (unpublished).

Goentzel, J., Brennan, M., Green, J., Gooding, E., Graves, S., Spielberg, J., Castañeda, J. A., & Veatch, M. (2017). *Scaling adoption of hermetic post-harvest storage technologies in Uganda*. Available at <https://dspace.mit.edu/handle/1721.1/115520>

Jahre, M., Castañeda, J. A., Gonçalves, P., Navangul, K., & Momtaz, M. (2012). *Global logistics service 2012 business case. Case study 3: Côte d’Ivoire: Post electoral civil unrest MDRC1003*. International Federation of Red Cross and Red Crescent Societies (unpublished).

AWARDS AND HONORS

2020	Nominated for the revelation professor award, Asociación Colombiana de Facultades de Administración, Colombia.
2008 – 2009	Scholarship for graduate program, Interconexión Eléctrica S.A. E.S.P.,

	Colombia.
2007	Nominated for the best undergraduate thesis award, UNALMED.
2002	Second best score on admission exam for undergraduate program, UNALMED.

GRANTS AND FELLOWSHIPS

2022	Data Science Fellowship, C1 and Ministerio de Tecnologías de la Información y las Comunicaciones de Colombia, Colombia.
2017 – 2019	Decision-making biases in operations: An investigation of the alignment between decision makers’ preferences and operational goals, Small Grants research fund, grant number IV-FPF001, UROSARIO.
2013 – 2015	An experimental analysis of inventory ordering decisions in multi-item newsvendor (newsstand) settings, Postdoctoral Fellowship, grant number P2TIP1_148341, Swiss National Science Foundation, Switzerland.

INVITED TALKS

- * Grupo ALIADO, Universidad de Antioquia. Medellín, Colombia, May 27, 2020. Leveraging service level and understock costs to improve ordering decisions.

PRESENTATIONS

List available [here](#).

TEACHING EXPERIENCE

Universidad del Rosario

Graduate courses

- * Operations management, doctoral seminar, Fall 2020 (24 hrs, Spanish).
- * Logistics management, graduate certificate, Spring 2019 (32 hrs, Spanish).
- * Operations & logistics, master’s, Spring 2017 (joint program with Universidad CES, Medellín, Colombia), 2018 (24 hrs, Spanish).
- * Operations & logistics, graduate certificate, Spring 2017 (co-lecture with C. Franco), Fall 2017 (32 hrs, Spanish).
- * Healthcare logistics, master’s, Spring 2016 (8 hrs), Fall 2016 (24 hrs) (Spanish).

Undergraduate courses

- * Operations management, Fall 2020 – Fall 2021 (48 hrs).
- * Operations modeling and simulation, Fall 2016 – Spring 2017, Fall 2017 (2 groups), Spring 2018 – Fall 2021 (32 hrs, Spanish).
- * Thesis seminar, Fall 2019 – Spring 2020 (16 hrs, Spanish).
- * Introduction to supply chain management, Fall 2019 (32 hrs).
- * Seminar in operations management research, Fall 2018 – Spring 2019 (3 hrs, Spanish).

Universidad EAFIT

- * System dynamics, graduate certificate, Fall 2015, Winter 2016 (co-lecture with C. A. Delgado, 24 hrs, Spanish).

Massachusetts Institute of Technology

- * Inventory management in humanitarian logistics, graduate certificate, Summer 2014 (co-lecture with J. Goentzel, 8 hrs).

Teaching assistant

- * Operations management, master's, USI. Spring 2010, 2011.
- * Project management, master's, USI. Fall 2011, 2012.
- * System dynamics, undergraduate, UNALMED. Spring 2008 (Spanish).

SERVICE TO THE PROFESSION

Jury

Freddy L. López. Desarrollo de un sistema de programación de órdenes de trabajo con restricciones de sincronización para una empresa de la agroindustria de flores. Master's thesis proposal, Universidad de La Sabana, Bogotá, Colombia, 2017.

Juan. P. Ríos. Inclusion of renewable energy in electricity markets and its impacts on price and energy security. Master's thesis, UNALMED, 2017.

Andrés F. Vélez. Análisis del síndrome de fin de mes usando economía experimental. Master's thesis, EAFIT, 2017.

Toma de decisiones, productividad e innovación: Evidencia a partir de un experimento de campo con productores de café a pequeña escala en Colombia. Research project proposal, Instituto Tecnológico Metropolitano, Medellín, Colombia, 2016.

Reviewer

Journals

- * Decision Sciences
- * Disaster Prevention and Management
- * European Journal of Operational Research
- * International Journal of Production Economics
- * Production Planning & Control

Book chapters

- * Decision-making in Humanitarian Operations: Strategy, Behavior and Dynamics, 2017.
- * Palgrave Handbook of Humanitarian Logistics and Supply Chain Management, 2016.

Conferences

- * 2018 POMS International Conference in Rio.
- * Workshop on Engineering Applications (WEA), 2017, 2018.
- * LI Asamblea Anual CLADEA, 2016.

Session chair

- * Inventory management, planning and scheduling. 18th International Annual EurOMA Conference. Cambridge, U.K., July 2011.

SCHOOL AND UNIVERSITY SERVICE

- * Doctoral committee, 2020 – 2021 (School).
- * Faculty advisory council, 2019 – 2020 (alternate member), 2021 – 2022 (University).
- * Research committee, 2017 – 2022 (School).
- * Director, Supply chain management research line, 2017 – 2022 (School).
- * Director, Supply chain management research incubator, 2017 – 2022 (School).
- * Academic area coordinator, Operations, 2016 – 2017 (School).

SUPERVISION TO STUDENTS

Master's students

- Laura G. Barrera, & Sandra Y. Tinjaca. Un modelo de colaboración horizontal y su efecto potencial sobre el desempeño logístico: Caso de estudio de GECOLSA. Maestría en Dirección. URosario, 2021 (Spanish).
- Lorena Bravo, & Héctor J. Céspedes. Plataforma en línea de gestión de compras de bienes y servicios para empresas. Maestría en Administración MBA. URosario, 2020 (Spanish).
- Pablo León. Aplicativo para disminuir los trayectos vacíos del transporte terrestre de carga en Colombia. Maestría en Administración MBA. URosario, 2019 (Spanish).
- Munyaradzi Madzima. Demand for contraceptives during humanitarian response in low and middle income countries: The case of Zimbabwe National Family Planning Council's supply chain. Master of Advanced Studies in Humanitarian Logistics and Management. USI, 2018.
- Annel Zodzi. An analysis of CARE International in Zimbabwe's emergency response process flow in meeting beneficiary needs in Masvingo Province. Master of Advanced Studies in Humanitarian Logistics and Management. USI, 2017.
- Deo K. Nemes. Process management with lean six sigma for effective cash assistance delivery programs: A case study of cash assistance delivery program to vulnerable refugees in Yemen. Master of Advanced Studies in Humanitarian Logistics and Management. USI, 2017.
- Martin Hiltbrunner. Optimization of World Vision's food commodity, cash and non-food-item distribution setups. Master of Advanced Studies in Humanitarian Logistics and Management. USI, 2012.

Undergraduate students

- Juliana Suzuki, & Juliana Meneses. Asistentes de investigación. Administración de Negocios Internacionales, & Administración en Logística y Producción, Asistente de Investigación. URosario, 2020 (Spanish).
- Angie P. Gómez. Análisis comparativo de las cadenas de suministro de Cacaolat y Danone. Administración en Logística y Producción, Misión Empresarial. URosario, 2020 (Spanish).
- Daniel F. Cifuentes, & Laura S. García. Misión empresarial España 2018. Administración en Logística y Producción, Misión Empresarial. URosario, 2020 (Spanish).

- María J. Vela. Proyecto de logística inversa para Bimbo México. Administración en Logística y Producción, Misión Empresarial. URosario, 2019 (Spanish).
- Andrés H. Camelo. Diseño de un plan estratégico para la mejora del nivel de rotación de inventarios en una empresa distribuidora. Administración en Logística y Producción, Proyecto de Aplicación Práctica. URosario, 2019 (Spanish).
- Fredy Y. Rozo. Estudio de caso Schlumberger. Administración de Negocios Internacionales, Estudio de Caso. URosario, 2019 (Spanish).
- Nicolás Amaya. El impacto de la gestión de la cadena de suministro en la rentabilidad de una empresa. Administración de Negocios Internacionales, Seminario Virtual. URosario, 2019 (Spanish).
- Lina M. García. Optimización de tiempos para mejorar la percepción del servicio en atención al usuario en el Hospital Universitario Mayor Méderi. Administración en Logística y Producción, Investigación. URosario, 2019 (Spanish).
- Sergio G. Estupiñán, & Juliana A. González. Impactos en indicadores internacionales panameños a raíz de la apertura del tercer juego de esclusas en el Canal de Panamá. Administración de Negocios Internacionales, Misión Empresarial. URosario, 2019 (Spanish).
- Francisco J. Galindo. Estudio de caso Súper Beto El Original. Administración en Logística y Producción, Estudio de Caso. URosario, 2018 (Spanish).
- Federico d. J. Castellanos, & Daniel García. Análisis del proceso productivo en Inversiones Chabela. Administración de Negocios Internacionales, & Administración en Logística y Producción, Misión Empresarial. URosario, 2018 (Spanish).
- Juan D. Leal. Asistente de investigación. Administración en Logística y Producción, Asistente de Investigación. URosario, 2017 (Spanish).
- María V. Sierra, & María P. Torrenegra. Análisis de la producción del banano en Banafut. Administración en Logística y Producción, Misión Empresarial. URosario, 2017 (Spanish).
- Shirley J. Carreño. Mecanismos de mejoramiento en los procesos del departamento de gestión comercial del Laboratorio Clínico Kheneyzer Fayad de Barranquilla. Administración de Negocios Internacionales, Proyecto de Aplicación Práctica. URosario, 2017 (Spanish).
- Andrés F. Rueda. Misión empresarial Jelly Belly Co: Análisis de la logística de la compañía. Administración de Negocios Internacionales, Misión Empresarial. URosario, 2017 (Spanish).
- Yerla P. González. Líneas de producción en las grandes empresas. Administración en Logística y Producción, Misión Empresarial. URosario, 2017 (Spanish).
- Iván A. Peña. Propuesta de cambio para los proyectos de la vicepresidencia de empresas de Telefónica desde la teoría de restricciones (TOC). Administración en Logística y Producción, Proyecto de Aplicación Práctica. URosario, 2016 (Spanish).
- Juan D. Dottor, & Mateo F. Montero. Modelo de distribución capilar en pymes: Integrador de áreas comercial y logística. Administración en Logística y Producción, Misión Empresarial. URosario, 2016 (Spanish).
- Juan D. Roncancio, & Sebastián A. Salazar. Perfil logístico de Volkswagen desde la producción. Administración en Logística y Producción, Misión Empresarial. URosario, 2016 (Spanish).

CONSULTANCY

- Modeling and simulation of covid-19 vaccination. Fundación Cardioinfantil. March – June 2021 (co-lead with C. Franco, & N. Herazo-Padilla).

Modeling and simulation of a crossdocking facility. British American Tobacco Colombia SAS.
August – September 2020 (co-lead with C. Franco).

MEDIA MENTIONS

Nuevo modelo de optimización y simulación de la Universidad del Rosario para agilizar proceso de vacunación. *Nova Et Vetera*. June 16, 2021 (Spanish).
Logística, la base de la competitividad de las empresas. *Portafolio*. July 20, 2020 (Spanish).
MIT researchers inform World Food Program work to reduce post-harvest losses. *MIT News*. February 23, 2017.

TRAINING

08 – 11, 2022	Machine Learning Specialization. Stanford University and DeepLearning.AI.
07 – 08, 2022	Power BI – Data analytics essentials with Power BI. Ahmed Oyelowo, Foresight BI & Analytics.
03 – 07, 2022	Data Science For All. C1.
03/2022	Python and data science for beginners. Bluelime Learning Solutions.
05 – 06, 2021	The Horizon Europe 2021-2027 Program. Professor development course, URosario.
07/2020	Enseñanza y aprendizaje en tiempos de transformación. Professor development course, URosario.
06/2020	English everywhere and for everyone! Adapting materials for your group. Professor development course, URosario.
05/2020	Ética de las publicaciones. Professor development course, URosario.
05/2019	Diseño de matrices de evaluación (Scoring rubric). Professor development course, URosario.
04/2019	Oral skills. Professor development course, URosario.
11/2018	I symposium on humanitarian logistics & disruptive supply chains. Universidad de La Sabana, Chía, Colombia.
04/2018	Experimental economics for the management sciences. Professor development course, URosario.
06/2017	Doctoral school in operations management and decision sciences 2017. Universidad de Los Andes, Bogotá, Colombia.
03/2017	Gestión de aulas virtuales y herramientas tecnológicas aplicadas a la educación. Professor development course, URosario.
09/2016	Metodología del caso. Professor development course, URosario.
01/2015	Human research – Social & behavioral research investigators. Online course, Collaborative Institutional Training Initiative (CITI Program), University of Miami, Coral Gables, FL.
10 – 11, 2014	An introduction to evidence-based undergraduate STEM teaching. Online course, Center for the Integration of Research, Teaching, and Learning, Vanderbilt University, Nashville, TN.
07/2013	Advanced summer training in humanitarian logistics and management: Humanitarian problem solving lab. USI.

- 07 – 08, 2012 Causal models and structural equations. Summer course, Essex Summer School in social science data analysis and collections. University of Essex, Colchester, U.K. (Essex Summer School).
- 07 – 08, 2011 Introduction to survey design. Essex Summer School.
- 08 – 09, 2010 Introduction to panel data analysis. Summer course, Swiss Summer School on advanced methods in the social sciences. USI.
- 08/2010 Experimental methods. Summer course, ECPR Summer School in methods and techniques. University of Ljubljana, Ljubljana, Slovenia.
- 06/2010 Empirical research methods: Theory development, instrument development & testing. Summer course, PhD Summer Academy, MIT-Zaragoza International Logistics Program. Università degli Studi di Bergamo, Bergamo, Italy (MIT-Zaragoza Summer School).
- 06/2010 Behavioural research in operations management. MIT-Zaragoza Summer School.
- 06/2010 Experimental economics. MIT-Zaragoza Summer School.