

# Agatha Clarice da Silva Ovando

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## EDUCATION

<b>Universidad de la Sabana</b> <i>Doctorate in Logistics and Supply Chain Management</i>	<b>Chía, Colombia</b>	Expected Nov. 2023
<b>MITx Micromasters</b> <i>Micromaster in Supply Chain Management</i>	<b>Online</b>	2021
<b>MIT Global SCALE Network</b> <i>Graduate Certificate in Logistics and Supply Chain Management</i>	<b>Cambridge, United States of America</b>	2019
<b>Universidad Privada Boliviana</b> <i>Master in Business Administration, minor in finance</i>	<b>Cochabamba, Bolivia</b>	2012
<b>Bournemouth University</b> <i>Master in Product Design Management</i>	<b>Bournemouth, United Kingdom</b>	2011
<b>Universidad Privada Boliviana</b> <i>Industrial and Systems Engineering</i>	<b>Cochabamba, Bolivia</b>	2009

## EXPERIENCE

<b>Universidad Privada Boliviana</b> <b>Researcher/ Lecturer</b> <ul style="list-style-type: none"><li>Director of the Research Center for Logistics Operations.</li><li>Leader of the research initiatives for Logistics and Supply Chain Management for the UPB within the MIT Scale Network for Latin America.</li><li>Developing research regarding active learning methodologies for the discipline of logistics and supply chain management.</li><li>Lecturer in the disciplines of Logistics, Research methods, Data analysis, and Production management.</li></ul>	<b>Cochabamba, Bolivia</b>	2020 - presente
<b>Universidad Privada Boliviana</b> <b>Career director (Industrial and systems engineering).</b> <ul style="list-style-type: none"><li>Led to the successful signature of an interinstitutional contract among the UPB and the Centro Latinoamericano de Innovación en Logística (CLI) to develop and promote research plans and activities within the MIT Scale Center for Latin America.</li><li>Developed and implemented the Challenge Based Learning methodology in the university, in an alliance with the Industrial and Systems Department of the Tecnológico de Monterrey.</li><li>Headed the development of the first dedicated simulation laboratory for the career center.</li><li>Led the design of strategies to introduce undergraduate IIS students into research programs.</li></ul>	<b>Cochabamba, Bolivia</b>	2016- 2019
<b>CATEC University</b> <b>Lecturer</b> <ul style="list-style-type: none"><li>Instructed subjects oriented to production management and managerial information systems.</li><li>Served as a mentor and second revisor in several dissertation theses.</li></ul>	<b>Cochabamba, Bolivia</b>	2014- 2016
<b>Dieselrio, Spare Parts Distributor</b> <b>Commercial manager</b> <ul style="list-style-type: none"><li>Successfully implemented an integral information system for process control, reducing significantly the time dedicated to control operations.</li><li>Improved the performance of the concessionaire in external evaluations of suppliers by 30%.</li><li>Reduced price calculation errors by approximately 25%. Furthermore, developed an exhaustive price study to adjust and improve the company item rotation.</li><li>Managed and supervised the whole supply chain, from suppliers to customers.</li></ul>	<b>Cochabamba, Bolivia</b>	2011- 2016
<b>Maya Mac Lean, Furniture Design and Manufacturing</b> <b>Project developer</b> <ul style="list-style-type: none"><li>Designed a pre-feasibility project for a new production plant.</li><li>Conducted a viability analysis regarding the implementation of the process of wood drying.</li><li>Administrated tools to improve the traceability of the design and production orders. The communication among design and production plants improved meaningfully with the execution.</li></ul>	<b>Cochabamba, Bolivia</b>	2011
<b>Cablebol, Cable Manufacturer</b> <b>Foreign trade assistant</b> <ul style="list-style-type: none"><li>Provided administrative support on the procurement of new suppliers.</li></ul>	<b>Cochabamba, Bolivia</b>	2010- 2011

## EXPERIENCE IN HIGHER EDUCATION

### Undergraduate

Faculty of Engineering and Architecture, Universidad Privada Boliviana, Bolivia

Total Quality Control, Production Engineering II, Industrial and Administrative Systems, Research Methods and Techniques, Graduation Project I, Integral Logistics.

Catec University, Bolivia

Production Management, Management Information Systems

### Postgraduate

Universidad Privada Boliviana, Bolivia

Diploma in Distribution Management: New Trends in Distribution

Diploma in Supply Chain Management: Suppliers' Evaluation and Agreement

Diploma in Project Management and Management According to PMI: Planning, Programming and Control of Industrial Processes

Master in Productivity and Quality: Planning, Programming and Control of Industrial Processes

Universidad Mayor de San Simón, Bolivia

Diploma in Integral Logistics and Supply Chain Management: Production Planning and Logistics

### ACADEMIC PUBLICATIONS

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- [1] D. E. Salinas-Navarro, A. C. da Silva-Ovando, C. M. Argueta, and M. Chong, "A Framework for Educational Innovation in Logistics and Supply Chain Management, a Research Agenda," *2022 IEEE World Eng. Educ. Conf.*, pp. 1–6, Mar. 2022, doi: 10.1109/EDUNINE53672.2022.9782364.
- [2] A. C. Da Silva-Ovando, O. S. O. Quintana, D. E. Salinas-Navarro, and M. Chong, "Design a challenge-based learning model for higher education, an application in a beverage company," *2022 IEEE World Eng. Educ. Conf.*, pp. 1–5, Mar. 2022, doi: 10.1109/EDUNINE53672.2022.9782391.
- [3] D. Ernesto Salinas-Navarro, A. Alanis-Uribe, and A. C. da Silva-Ovando, "Learning Experiences about Food Supply Chains Disruptions over the Covid-19 Pandemic in Metropolis of Latin America," *IIE Annu. Conf. Proc.*, pp. 495–500, 2021.
- [4] A. C. da Silva-Ovando and C. A. Ocampo-Terceros, "Understanding the Behavior of the Low-Income Population When Purchasing Fruits and Vegetables. Case Study of Cochabamba (Cercado) - Bolivia," *Proc. 1st Int. Conf. Water Energy Food Sustain. (ICoWEFS 2021)*, pp. 12–19, 2021, doi: 10.1007/978-3-030-75315-3\_2.
- [5] A. C. da Silva-Ovando and J. Becerra-Soliz, "Sustainable Logistics and Operations Design: Sustainable Practices for Emerging Countries - Perspective of the Situation in Bolivia," *Proc. 1st Int. Conf. Water Energy Food Sustain. (ICoWEFS 2021)*, pp. 605–615, 2021, doi: 10.1007/978-3-030-75315-3\_65.
- [6] A. C. da Silva-Ovando, D. Granados-Rivera, G. Mejía, C. Mejía-Argueta, and J. Jarrín, "Spatial Analysis of Fresh Food Retailers in Sabana Centro, Colombia," *Eng. Anal.*, pp. 235–253, Sep. 2021, doi: 10.1201/9781003137993-15.
- [7] D. E. Salinas-Navarro, C. Mejía-Argueta, A. C. Da Silva-Ovando, and C. L. Garay-Rondero, "Going beyond traditional approaches on industrial engineering education," *Proc. - Front. Educ. Conf. FIE*, vol. 2020-October, Oct. 2020, doi: 10.1109/FIE44824.2020.9273891.
- [8] D. E. Salinas-Navarro, A. C. Da Silva-Ovando, C. Mejía-Argueta, and M. Chong, "Reflexiones desde la práctica docente: experiencias de aprendizaje para la educación en ingeniería industrial en la pospandemia," *Apunt. Rev. Ciencias Soc.*, vol. 49, no. 92, pp. 151–182, Sep. 2022, doi: 10.21678/APUNTES.92.1745.
- [9] M. I. Ruiz-Cantisani, T. Brandi, H. Romero, A. C. da Silva-Ovando, D. I. Lopez-Ruiz, and J. B. Soliz, "Developing a sustainability culture in LATAM: a case study of a strategic inter-university alliance," *2022 IEEE IFEES World Eng. Educ. Forum - Glob. Eng. Deans Council.*, pp. 1–5, Nov. 2022, doi: 10.1109/WEEF-GEDC54384.2022.9996226.
- [10] P. Huanca and A. C. da Silva-Ovando, "Experiential learning as a methodology to engage educational initiatives to operational problematics in micro companies," *Investig. y Desarro.*, vol. 22, no. 1, pp. 125–133, 2022, doi: 10.23881/idupbo.022.1-10i.
- [11] C. Del Camen Diaz Hernani *et al.*, "Panel: Focus on Women Engineering - Toward the Next Generation," *EDUNINE 2023 - 7th IEEE World Eng. Educ. Conf. Reimaging Eng. - Towar. Next Gener. Eng. Educ. Merging Technol. a Connect. World, Proc.*, 2023, doi: 10.1109/EDUNINE57531.2023.10102838.
- [12] D. E. Salinas-Navarro, A. C. Da Silva-Ovando, and M. Chong, "Workshop: Learning experiences for educational leadership and innovation in engineering education," *EDUNINE 2023 - 7th IEEE World Eng. Educ. Conf. Reimaging Eng. - Towar. Next Gener. Eng. Educ. Merging Technol. a Connect. World, Proc.*, 2023, doi: 10.1109/EDUNINE57531.2023.10102854.
- [13] C. A. Ocampo-Terceros, A. C. da Silva-Ovando, M. J. Peña-Cárdenas, and M. Chong, "Vulnerable Regions Distribution of Packed Fresh Food Using Mobile Markets," in *Lecture Notes in Logistics*, vol. Part F268, Springer Science and Business Media B.V., 2023, pp. 321–340.

## **OTHER PUBLICATIONS**

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- [1] A. C. da Silva- Ovando and J. Becerra-Soliz, Artículo de investigación: “¿Existe logística sustentable en Bolivia?”, *Boletín Alumni UPB*, Número 4, Diciembre 2020.
- [2] A. C. da Silva-Ovando, L. Barreto, C. Mejía-Argueta, M. Winkenbach, M. Janjevic, Coluna MIT-GCLOG: “Preferências de logística da última milha para compras on-line”, *Revista Mundo Logística*, Número 78, pp.50, Septiembre/Octubre 2020.
- [3] A. C. da Silva-Ovando, L. Barreto, C. Mejía-Argueta, M. Winkenbach, M. Janjevic, Columna MIT-GCLOG: “Entregas de última milla: ¿Qué prefieren los consumidores?”, *Revista Énfasis Logística*, Número 211, pp.50, Julio/Agosto 2020.

## **PARTICIPATION IN CONFERENCES**

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- [1] Competitive Facility Location model for food distribution design through nanostores. 23rd IFORS Triennial Conference. Agatha Clarice da Silva Ovando (expositora), Gonzalo Mejía, Christopher Mejía-Argueta. Santiago, 10-14/07/2023.
- [2] Consumer preferences on retailers for food purchase in Sabana Centro, Colombia. 33rd Annual POMS Conference - Fostering a Better and Smarter World with POM. Agatha Clarice da Silva Ovando (expositora), Gonzalo Mejía, Christopher Mejía-Argueta. Orlando, 21-25/05/2023.
- [3] Workshop: Learning experiences for educational leadership and innovation in engineering education. 2023 IEEE World Engineering Education Conference (EDUNINE). David Ernesto Salinas-Navarro (expositor); Agatha Clarice Da Silva-Ovando; Mario Chong. Virtual, 12-15/03/2023.
- [4] Panel: Focus on Women Engineering-Toward the Next Generation. 2023 IEEE World Engineering Education Conference (EDUNINE). Carolina Del Camen Díaz Hernani, Mylene Talledo Copello, Nicole Pillaca Lizana, Agatha Clarice da Silva-Ovando, Ana Luna, Soledad Espezúa Llerena, Celfia Obregón, Carmen Bueno. Virtual, 12-15/03/2023.
- [5] Developing a sustainability culture in LATAM: a case study of a strategic inter-university alliance. 2022 IEEE IFEEES World Engineering Education Forum - Global Engineering Deans Council (WEEF-GEDC). Maria Ileana Ruiz-Cantisani (expositor), Teresa Brandi, Heidi Romero, Agatha Clarice da Silva-Ovando, Denisse Lopez-Ruiz and Jocabed Becerra Soliz. Cape Town, 28/11-1/12/2022.
- [6] Geographical analysis between the relation of fresh food consumption and retailers' presence in vulnerable regions of emerging countries in Latin America. I International Conference in Food Supply Chains. Agatha Clarice da Silva-Ovando (expositora), Gonzalo Mejía Delgado; Carla Ocampo Terceros. Bogotá, 26-28/10/2022.
- [7] Inter-cities model proposal for potato's last mile logistics: Case study in Bogotá, Colombia and Cochabamba, Bolivia. IV Congreso Colombiano de Investigación Operativa - ASOCIO 2022 / XIX Congreso IISE Región 16. Camilo Ernesto Bejarano Cubillos (expositor); Juan David Chavarro Rojas; Valentina Gama Gutiérrez (expositora); Paola Andrea Ospina Baracaldo (expositora); Loredana Angélica Orellana Delgado; María Alejandra Rojas Trigo; Agatha Clarice da Silva-Ovando; Gonzalo Mejía. Bogotá, 05-09/09/2022.
- [8] International collaborative learning initiatives for Industrial Engineering. SCALE LATAM & LAC Conference 2022. Agatha Clarice da Silva-Ovando; Gonzalo Enrique Mejía-Delgado (expositor). Boston, 12-15/06/2022.
- [9] System dynamics model to evaluate the applicability of a last mile distribution model served by electric bicycles. SCALE LATAM & LAC Conference 2022. Santiago Lima Urquiola (expositor); Agatha Clarice da Silva-Ovando; Abril Ando; Jocabed Becerra-Soliz (expositora); Mauricio Collao; Valeria Majluf; Natasha Oropeza; Luciano Quintana (expositor); Janin Sandoval; Antonio Vargas. Boston, 12-15/06/2022.
- [10] Raising awareness of sustainable logistics for LATAM: a collaborative inter-university approach. SCALE LATAM & LAC Conference 2022. Jocabed Becerra-Soliz; Teresa Brandi (expositora); Agatha Clarice da Silva-Ovando (expositora); Carlos Felipe Erazo Navas; Heidi Lizabeth Romero Encarnación; María Ileana Ruiz-Cantisani; Carlos Alberto Suárez-Núñez (expositor); Felix Leborgne; Daniela Betsabé Borjas-Pecina; Camila Carbone; Fernando Chavarria-Garcia; Ignacio Grehan; Gonzalo López Escrivá; Denisse Ileana López-Ruiz; Fabiola Regis-Hernández; Carolina Michelle Peralta Vasquez. Boston, 12-15/06/2022.
- [11] A Framework for Educational Innovation in Logistics and Supply Chain Management, a Research Agenda. 2022 IEEE World Engineering Education Conference (EDUNINE) . David Ernesto Salinas-Navarro (expositor); Agatha Clarice Da Silva-Ovando; Christopher Mejia Argueta; Mario Chong. Virtual, 13-16/03/2022.
- [12] Design a challenge-based learning model for higher education, an application case in a beverage company in Bolivia. 2022 IEEE World Engineering Education Conference (EDUNINE). Agatha Clarice Da Silva-Ovando (expositora); Oscar Saúl Olivares Quintana; David Ernesto Salinas-Navarro; Mario Chong. Virtual, 13-16/03/2022.
- [13] Learning Experiences About Food Supply Chain Disruptions over the COVID-19 Pandemic in Metropolis of Latin America. IISE Annual Conference & Expo 2021. David Ernesto Salinas-Navarro (expositor); Alejandra Alanis-Uribe; Agatha Clarice Da Silva-Ovando. Virtual, 23-25/05/2021.
- [14] Understanding the Behavior of the Low-Income Population When Purchasing Fruits and Vegetables. Case Study of Cochabamba (Cercado) - Bolivia. International Conference on Water Energy Food and Sustainability 2021. Agatha Clarice da Silva-Ovando; Carla Andrea Ocampo-Terceros (expositora). Virtual, 10-12/05/2021.
- [15] Sustainable Logistics and Operations Design: Sustainable Practices for Emerging Countries - Perspective of the Situation in Bolivia. International Conference on Water Energy Food and Sustainability 2021. Agatha Clarice da Silva-Ovando; Jocabed Becerra-Soliz (expositora). Virtual, 10-12/05/2021.
- [16] Experiential learning as a methodology to engage educational initiatives to operational problematics in micro companies. SCALE LATAM & LAC Conference 2021. Patricia Huanca-Cortez (expositora); Agatha Clarice da Silva-Ovando. Virtual, 21-26/03/2021.
- [17] Consumer Preferences in Last-Mile Delivery. SCALE LATAM & LAC Conference 2021. Agatha Clarice da Silva-Ovando

(expositora); Luiz Barreto (expositor). Virtual, 21-26/03/2021.

[18] Going beyond traditional approaches on industrial engineering education. IEEE Frontiers of Education 2020. David Ernesto Salinas-Navarro (expositor); Christopher Mejia-Argueta; Agatha Clarice Da Silva-Ovando; Claudia Lizette Garay-Rondero. Virtual, 21-24/10/2020.

## **PARTICIPATION IN OTHER EVENTS**

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- [1] Outcomes of student-driven, faculty-mentored research as teaching methodology. 2023 Aston Education Leadership Colloquium. Agatha Clarice da Silva-Ovando (expositora). Virtual, 29-30/06/2023.
- [2] Experiential learning methodologies for logistics. 2022 Aston Education Leadership Colloquium. Agatha Clarice da Silva-Ovando (expositora). Virtual, 14-15/07/2022.
- [3] Challenge-based experiential learning methodologies for logistics. 2022 Aston Education Leadership Colloquium. Valeria Mendoza (expositora). Virtual, 14-15/07/2022.
- [4] System Dynamics Model for a Last Mile Distribution System Served by Electric Cargo Bikes. 5th Annual Workshop on System Dynamics in Transportation Modelling 2022. Santiago Lima Urquiola (expositor); Agatha Clarice da Silva-Ovando; Abril Ando; Jocabed Becerra-Soliz; Mauricio Collao; Valeria Majluf; Natasha Oropeza; Luciano Quintana; Janin Sandoval; Antonio Vargas (expositor). Virtual, 21/04/2022.
- [5] Conflicto armado en Ucrania: Un análisis multidisciplinario. Conversatorio Universidad Privada Boliviana. Horacio Calvo; Andrés Laguna; Alejandro Vargas; Agatha da Silva (Perspectiva: Cadenas de Suministros). Virtual, 15/03/2022.
- [6] How to run a challenge. Erasmus EUSL-Energy and EUBBC-Digital CDL Workshop. Agatha da Silva (expositora). Virtual, 24/02/2022.
- [7] Logística de última milla. Semana Internacional de la Ingeniería y el diseño. Agatha Clarice da Silva-Ovando (expositora); Santiago Lima Urquiola (expositor). 09-12/11/2021.
- [8] Design of a distribution model for perishable food in peripheral regions of Cochabamba, Bolivia. MIT FaROL seminar. Agatha Clarice da Silva-Ovando; Carla Andrea Ocampo-Terceros (expositora); Jocabed Becerra-Soliz (expositora). Virtual, 04/05/2021.
- [9] Proyectos de investigación relacionados con logística de alimentos e investigación ligada a la agroindustria de la red MIT SCALE LA. Noches de Colaboración UTEC. Expositores: Christopher Mejía-Argueta; José Larco, Claudia Antonine; Gonzalo Mejía; Agatha Clarice da Silva-Ovando; David Salinas-Navarro. Virtual, 17/09/2020.

## **PRIZES AND ACKNOWLEDGEMENTS**

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- [1] *Global AgriInno Challenge 2020 (Zhejiang University and Food and Agriculture Organization)*  
Third prize  
Project: “Sumajta Mikhuna”
- [2] *VI IEEE World Engineering Education Conference (EDUNINE2022)*  
Best paper in the category “Teaching research and innovation”  
Article: “A Framework for Educational Innovation in Logistics and Supply Chain Management, a Research Agenda” with SALINAS-NAVARRO, David Ernesto, MEJIA-ARGUETA, Christopher, y CHONG, Mario.

## **ADDITIONAL INFORMATION**

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- Languages: Portugués (native), Español (fluid), Inglés (advanced).
  - Software skills: MS Office, Access, Java, VBA, MySQL, Vector Works, Solid Works, Phyton, Promodel, Vensim, Flexim, Anylogic, Photoshop.
  - Diplomas in: Environmental Management, Innovation and Entrepreneurship, Higher Education.
  - Diploma expert in: ISO 9001 External Auditor, Branding Management, Graphic Design Tools Management, Analytics and Data visualization with Power BI.
  - Specialization Diploma in: Operations Management, Writing in Sciences, Teaching in Digital Transformation.
  - Volunteering at AIESEC (2010-2013): Vice president of Incoming Exchange in Bolivia, National Support Team for incoming Exchange in Spain.
  - Teaching Assistant (2018): Module SC0x for Micromasters in Supply Chain Management by MITx.
  - Mentor (2020): Latam vs Covid-19 Challenge, led by Massachusetts Institute of Technology.
  - Mentor (2020): India "Turning the tide" Covid 19 Challenge, led by the Massachusetts Institute of Technology.
  - Teaching Assistant (2021-2022): GCLOG Program by the Center of Transportation and Logistics at the Massachusetts Institute of Technology.
  - Mentor (2021): Engineering Health Equity Hackathon led by Massachusetts Institute of Technology.
  - Part of the organizing committee of the MIT SCALE LAC Conference 2022.
  - Volunteering with Animal Rescue Organizations.
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