

## Contact

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## Top Skills

Data Analysis

Analysis

Business Analysis

## Languages

Inglés (Native or Bilingual)

Francés (Limited Working)

## Publications

Additional publications available at ResearchGate

A cost - efficient method to optimize package size in emerging markets

Additional publications available at Google Scholar

Reaching 50 Million Nanostores: Retail Distribution in Emerging Megacities

## Patents

Optimizing the Global Workforce Capacity and Capability at Hewlett-Packard

# Christopher Mejia Argueta

Director and founder, MIT Food and Retail Operations Lab | MIT SCALE Latin America Network | MIT GCLOG Program  
Cambridge

## Summary

I'm a passionate researcher with over 10 years of experience in supply chain management, optimization and effective data-driven decision making. My main motivation is to help others learn and learn from others via research, consulting, teaching, etc. I'm a quick learner whose personal goal is to use knowledge to reduce undesired effects caused by economic, social and environmental problems (e.g., disasters, poverty, food insecurity, etc.) in emerging markets.

Furthermore, I want to promote data-driven policy making and the usage of applied research in industry to build more effective strategies that enhance equity, fair prices and the development of competitive environments in a socially responsible and sustainable way for everyone.

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## Experience

Massachusetts Institute of Technology

Research Scientist

September 2017 - Present (3 years 4 months)

Boston y alrededores, Estados Unidos

Director and Founder, MIT Food and Retail Operations Lab (FaROL)

Director, MIT SCALE Network for Latin America and The Caribbean (SCALE-LatAm)

Director, MIT Graduate Certificate in Supply Chain and Logistics program (GCLOG)

Research Scientist in retail operations, food malnutrition, food waste and local, short food supply chains

Editor and author of book: "Reaching 50 Million Nanostores: Retail Distribution in Emerging Megacities"

Editor of book: "Supply Chain Management and Logistics in Latin America: A Multi-country Perspective "

Editor and author of book: "Supply Chain Management and Logistics in Emerging Markets"

Technische Universiteit Eindhoven

Postdoctoral Fellow

August 2015 - August 2017 (2 years 1 month)

Eindhoven y alrededores, Países Bajos

I develop research projects regarding emerging countries in topics such as:

- 1) Understanding of socioeconomic variables and evolution of retailing landscape in megacities,
- 2) Design of effective distribution strategies for diverse channels in megacities,
- 3) Packaging optimization for diverse channels of developing countries,
- 4) Design of tactics to minimize food waste and food insecurity in low-income areas
- 5) Green intermodal transportation networks

I use diverse techniques from econometrics, operations management, operations research, data mining and geographic information systems to meet the goals. I am part of a team of researchers and professors from diverse nationalities and institutions in these projects.

## LOGYCA

Postdoctoral associate and academic leader

February 2013 - July 2015 (2 years 6 months)

Bogotá D.C., Colombia

LOGYCA is a member of the MIT SCALE network and has the Center for Latin American Logistics Innovation (CLI), that develops applied research in supply chain management and logistics.

I worked during 5 months as a research leader in topics related to urban logistics, supply chain strategy and risk. Later, I was promoted as academic leader to co-lead with the director a research team composed by 12 people, 7 research lines related to SCM: Technology, strategy, sustainability, risk, urban logistics, public policy and empirical studies (further information in the link of the research center).

During this period we presented our work in over 8 recognized national, international academic and practitioner conferences and workshops, publish scientific publications, teach training sessions, accredited classes and deliver many industrial projects.

Achievements:

- The research group moved up from the lowest Colciencias classification (6th position) to the 3rd position in the ranking (Group B). (See <http://scienti.colciencias.gov.co:8080/gruplac/jsp/visualiza/visualizagr.jsp?nro=00000000007738>)
- I am recognized as an associate researcher by Colciencias (SNI level 1 for CONACyT in Mexico). (See [http://scienti.colciencias.gov.co:8081/cvlac/visualizador/generarCurriculoCv.do?cod\\_rh=0001514209](http://scienti.colciencias.gov.co:8081/cvlac/visualizador/generarCurriculoCv.do?cod_rh=0001514209))
- 4 proceeding papers, 6 scientific publications in academic journals.
- Over 30 industrial projects with an average of 95% of satisfaction level.
- Agreements and collaborations with other international partners than MIT CTL colleagues and CLI academic partners MISI in Malaysia; UCLA Davis in USA; ESPOL (Ecuador); etc.
- 2 undergraduate projects and 3 master thesis supervised.

### Tecnológico de Monterrey

Research assistant and lecturer

January 2008 - May 2013 (5 years 5 months)

Toluca y alrededores, México

I worked in research projects related to:

- 1) Collaboration in Supply Chain Management (2008)
- 2) International intermodal transportation for spare parts (2008-2010)
- 3) Workforce optimization together with Hewlett Packard Labs in Palo Alto, CA (2009)
- 4) Integral Humanitarian operations during floods (2010-2013)
- 5) Automotive logistics clusters (2012-2013)

I was lecturer of courses related to quality statistical control, operations research, supply chain management and logistics for undergraduate students. I also assisted classes for master students related to advanced project management (operations-research oriented), mathematical programming and for the PhD program in topics related to Network flow optimization and Metaheuristics.

### Achievements:

- Winner of the academic excellence awards and recipient of the grants/ scholarships to study the Masters program in 2008 and the PhD program in 2009.
- Master and PhD theses awarded with Summa Cum Laude in the graduate school in 2009 and 2013

- 2 technical reports for industry projects (one for HP Labs)
- 7 presentations in national, international research conferences
- 1 patent (together with HP Labs colleagues)
- 1 book chapter
- 2 scientific papers (2 more currently under review)
- 1 supervised thesis from a visiting international student

## Hewlett-Packard Laboratories

External consultant

2008 - 2008 (less than a year)

Bahía de San Francisco y alrededores, Estados Unidos

I worked as an invited researcher (external consultant) and with a Mexican colleague, we developed a stochastic programming model to optimize workforce optimization for some business units of the company. Our supervisors were: Dr. Cipriano Santos, Dr. Haitao Li and Dr. Shailendra Jain.

### Achievements:

- 2 presentations in major international conferences
- 1 patent (together with Monterrey Tech)
- 1 scientific publication (under review)
- 1 technical report

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## Education

### Tecnológico de Monterrey

Doctor of Philosophy (PhD), Industrial Engineering (Stay in UPC Barcelona and Univ. de Málaga) · (2008 - 2013)

### Universidad de Málaga

Doctor of Philosophy - PhD, Economía aplicada; optimización multicriterio · (2011 - 2011)

### Universitat Politècnica de Catalunya

Doctor of Philosophy - PhD, Investigación de operaciones/ operativa · (2010 - 2011)

### Tecnológico de Monterrey

Master's degree in Science, Industrial Engineering (Research stay in Hewlett Packard Labs) · (2008 - 2009)

Tecnológico de Monterrey

Industrial Engineering and Systems , Supply Chain Management, Quality and  
cash flow · (2004 - 2007)