BERNARDO DAVID PUENTE MEJIA

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EDUCATION

Massachusetts Institute of Technology MIT on edX[1]   *September 2020 - 2021*
MicroMasters in Statistics and Data Science
· *2/5 Completed courses.*

Massachusetts Institute of Technology MIT. Cambridge, MA   *May 2019 - April 2020*
MIT-SCALE Graduate Certificate in Logistics and Supply Chain Management (GCLOG)

Massachusetts Institute of Technology on edX   *September 2018 - September 2019*
MicroMasters in Supply Chain Management

Universidad San Francisco de Quito. Quito, Ecuador   *May 2013 - June 2018*
Industrial Engineering

RESEARCH AND WORK EXPERIENCE

Research Institute of Innovation in Logistics and Supply Chain Management CATENA. Quito, Ecuador
Research Staff (full time)   *September 2018 - Present*

· Lead and support research projects of the institute related to topics such as: Logistics and Supply Chain, Urban Systems Transportation and Mobility, Urban Logistics, Processes and Productivity, Humanitarian Logistics, Data Analysis, Big Data, Machine Learning.
· Consultant in Logistics and Supply Chain Management.

COGNITIVA. Quito, Ecuador   June 2017 - March 2018
Industrial Consultant

· Industrial systems modeling and simulation for operation improvement and optimization.

Sassola Partners. Madrid, Spain   July 2017 - September 2017
Data and Process Analyst - Intern

· Database design and management. Investment funds analysis and tracking.

TEACHING EXPERIENCE

Universidad San Francisco de Quito USFQ. Quito, Ecuador
Instructor   *September 2018 - Present*

· Graduate Courses: Operations Research and Optimization Lab, Supply Chain Design Lab, Supply Chain Fundamentals Lab, Supply Chain Dynamics Lab.
· Undergraduate Courses: Probability and Statistics Lab, Discrete Events Simulation Lab, Data Management Lab, Biostatistics Lab, Quality Management Lab, Introduction to Industrial Engineering.

Massachusetts Institute of Technology MIT on edX
MITx Community TA   *August 2019 - May 2020*

· Community TA for two runs of MITx.CTL.SC3x Supply Chain Dynamics.

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[1]All updated degree grades and transcripts can be found in my personal website.

Universidad San Francisco de Quito USFQ. Quito, Ecuador
Teaching Assistant   *September 2017 - September 2018*
· Undergraduate Courses: Logistics, Simulation, Data Management.

RESEARCH AND PUBLICATIONS

Data-Driven Solutions for Evaluating and Planning Last Mile Operations in Latin America. A Methodological Approach Focused in Quito
Puente-Mejia, B., Orellana-Rojas, C. and Suarez-Nunez, C. (2020), "Data-driven Solutions for Evaluating and Planning Last Mile Operations in Latin America: A Methodological Approach Focused in Quito, Ecuador", Yoshizaki, H.T.Y., Mejia Argueta, C. and Mattos, M.G. (Ed.) Supply Chain Management and Logistics in Emerging Markets, Emerald Publishing Limited, pp. 107-129.

https://doi.org/10.1108/978-1-83909-331-920201006.

Freight Trip Generation Modeling and Data Collection Processes in Latin American Cities. Modeling Framework for Quito and Generalization Issues
Puente-Mejia, B. Palacios-Arguello, L. Gonzalez-Feliu, J. Suarez-Nunez, C. (2020), "Freight Trip Generation Modeling and Data Collection Processes in Latin American Cities. Modeling Framework for Quito and Generalization Issues", Transportation Research Part A: Policy and Practice, Volume 132, Pages 226-241, ISSN 0965-8564, DOI:10.1016/j.tra.2019.10.013

Traffic and Congestion Effects of Urban Last-Mile Deliveries. Measuring Impact and Assessing Policy Measures
Research paper - Main Author.
· Working paper.

Optimization of Distribution of Humanitarian Aid: Cotopaxi Volcano
Research paper - Secondary author.
· Paper under review.

CONFERENCES AND SEMINARS

2021 MIT SCALE Latin America Conference. Cambridge, MA
Two papers accepted for presentation during the conference   *March 2021*

Institute of Industrial and Systems Engineers IISE Latin America Conference. Quito, Ecuador
Invited speaker. Big Data and Machine Learning Workshop using Orange   *March 2020*

MIT Global SCALE Network Supply Chain Research Expo. Cambridge, MA
Presented paper: Traffic and Congestion Effects of Urban Last-Mile Deliveries. Measuring Impact and Assessing Policy Measures   *January 2020*

International Conference on Industrial Engineering Hosted by SISE & USFQ. Quito, Ecuador
15 Minutes Talk: Freight Trip Generation Modeling and Data Collection Processes in Latin American Cities.Modeling Framework for Quito and Generalization Issues   *February 2019*

2018 MIT SCALE Latin America Conference. Cambridge, MA
Student Paper Competition: Freight Demand Estimation in High Commercial Density Areas as a Next Step in the km2 Methodology   *April 2018*
· Best Student Paper Award

ACADEMIC ACHIEVEMENTS AND RECOGNITIONS

MITx MicroMasters in Supply Chain Management · May 2020
· MITx Community TA Certificate of Excellence

MIT GCLOG Program · July 2019
· Micro Supply Chain Management - Best Growth Strategy Award
· Supply Chain Resilence Evaluation And Mitigation (SCREAM) Game - Best Strategy Award

2018 MIT SCALE Latin America Conference
Best Student Paper Award · *April 2018*

· Won the first place in the student paper competition among six competitor teams from all around Latin America. Granted 50% Scholarship to the MIT GCLOG program.

CERTIFICATIONS AND CREDENTIALS

CITI Program: Human Research, Social Behavioral Research Investigators
· *Under requirements set by: Massachusetts Institute of Technology Affiliates.* · *January 2020*

HarvardX Data Science Professional Certificate
5/9 Completed Courses · *January 2020 - Present*

· HarvardX - PH125.1x Data Science: R Basics
· HarvardX - PH125.2x Data Science: Visualization
· HarvardX - PH125.3x Data Science: Probability
· HarvardX - PH125.4x Data Science: Inference and Modeling
· HarvardX - PH125.5x Data Science: Productivity Tools

Lean Six Sigma Green Belt
74h Certification · *2019 - 2020*

MITx Computational Thinking using Python
1/2 Completed Courses · *2018-2020*

· MITx - 6.00.1x Introduction to Computer Science and Programming Using Python. Final grade 97%

International research projects fundraising. Project design for capacity building grants.
16h Certification. SHIFT Academy. · *2018*

ADDITIONAL

Languages
· Spanish [Native], English [Fluent. IELTS: 8.0. TRF Number: 20EC000448PUEB007A], Portuguese [Basic], German [Basic].

Software Skills
· Python, R, Unix & Slurm scripting for HPC, SQL, LaTeX, AMPL, HTML, CSS, VBA, Discrete events simulation.

Extra Curricular
· Institute of Industrial and Systems Engineers. Student Chapter Vice-President 2014-2015.

Volunteering Work
· Catholic Missionary: Conferences speaker, groups and individuals guidance.