

Juliano Marçal Lopes

714 SW 16th Ave, Apt. 307 – Florida – USA

+1 352 328 7805 • lopesjuliano@msn.com
www.linkedin.com/in/jmarcallopes • 27 years old

Education

- University of Florida - Center for Applied Optimization** **Apr. 2018 – Current**
 - Ph.D. visitor scholar in Industrial and Systems Engineering (Supply Chain Management)* Gainesville/FL - USA
 - Subject of study: To improve demand forecasting and allocation of vaccines with optimization and machine learning.
- University of São Paulo - Polytechnic School** **Feb. 2017 – Current**
 - Ph.D. student in Electrical Engineering (Supply Chain Management)* São Paulo/SP - Brazil
 - Project subject: To improve demand forecasting and allocation of vaccines with optimization and machine learning.
- University of Florida - College of Medicine** **Apr. 2018 – Mar. 2019**
 - Data Analyst - Volunteer* Gainesville/FL - USA
 - Data analysis and data cleaning with Python.
- University of Campinas** **Aug. 2015 – Feb. 2017**
 - Specialist in Supply Chain Management and Logistics* Campinas/SP - Brazil
 - Best Class Student Award, Tutor Scholarship
 - Final paper: Proposal for implementation of a policy for demand prediction and stock management in a fast growing company.
- University of Campinas** **Jan. 2015 – Feb. 2017**
 - Master degree in Civil Engineering - Transportation area* Campinas/SP - Brazil
 - CAPES Scholarship
 - Thesis: The use of RTK-GNSS technology as automated control system for civil construction and road infrastructure machinery.
- University Center Nossa Senhora do Patrocínio** **Feb. 2010 – Dec. 2014**
 - Bachelor in Civil Engineering* Salto/SP - Brazil
 - ProUni Scholarship
 - Final paper: Economic analysis of low-cost precast wooden house constructive method.
- Rotary Club International - Youth Exchange Program** **Aug. 2008 – Jul. 2009**
 - High School International Exchange - Mexico* Guadalajara/JL - Mexico

Languages

- | | | |
|---------------------------|---|-------------------------|
| English | Spanish | Portuguese |
| <i>TOEFL iBT 101/120.</i> | <i>Lived in Mexico for one year during High School.</i> | <i>Mother language.</i> |

Professional Experience

- University of Florida - University of São Paulo** **Apr. 2018 – Current**
 - Researcher - PhD Student* Gainesville/FL - USA
 - Industrial Engineering - Improving the supply chain of vaccines in Brazil.
- UF College of Medicine** **Apr. 2018 – Mar. 2019**
 - Data Analyst - Volunteer* Gainesville/FL - USA
 - Data cleaning routine with Python.
- Brazilian Ministry of Health** **Feb. 2017 – Jul. 2018**
 - Business Management Consultant* Brazil
 - Business modeling the vaccine supply chain of the Brazilian Ministry of Health.
- University of Campinas** **Jan. 2015 – Feb. 2017**
 - Researcher - Master degree and specialization student* Campinas/SP - Brazil
 - Studying the Brazilian construction market and specializing in supply chain management.

- Raízen SA** **Jan. 2014 – Dec. 2014**
 ○ *Supply Chain Analyst* *Piracicaba/SP - Brazil*
 Responsible for negotiation for the purchase of technical services and chemical inputs, and standardization of material registration into SAP software.
- Agrológica Projects and Consulting - Junior Company** **Jan. 2013 – Dec. 2013**
 ○ *Social Projects Manager* *Campinas/SP - Brazil*
 Responsible for bringing the company closer to the faculty, thereby helping professors to develop more projects with the community.
- SIARC Steel Structures** **Jul. 2011 – Jan. 2013**
 ○ *Project Assistant* *Elias Fausto/SP - Brazil*
 Responsible for detailing steel structures, project weight sheet and material purchase.

Scientific production

- IEEE Technology and Society Magazine** **ISSN 0278-0097**
 ○ *Published Manuscript*
 Gasiola, G.G.; Lopes, J.M.; Brandão, F.; Dias, E.M. **Smart cities through smart regulation: The case of Sao Paulo.**
- Automation and Society: Fourth Industrial Revolution, a look at Brazil** **ISBN 978-85-7452-876-2**
 ○ *Published Book Chapter*
 Lopes et al. 2018. Proposal for supporting innovation by strengthening the field of science, technology, engineering and mathematics. In Silva et al. (Eds.) **Automation and Society: Fourth Industrial Revolution, a look at Brazil.** São Paulo, SP, Brazil: Brasport
- PLoS ONE** **ISSN 1932-6203**
 ○ *Published Manuscript*
 Adhikari et al. 2019. **Improved predictive models for acute kidney injury with IDEA: Intraoperative Data Embedded Analytics**
- Revista dos Transportes Públicos** **ISSN 0102-7212**
 ○ *Published Manuscript*
 Guimarães, C.A.B.; Fracoso, M.T.; Trabanco, J.L.A.; Lopes, J.M. From Portuguese: **A deterministic queuing model for the analysis of the sizing of loading and unloading platforms at passenger bus terminals.**
- IEEE Technology and Society Magazine** **ISSN 0278-0097**
 ○ *Manuscript, accepted for publication*
 Lopes, J.M.; Marrone, P.V.; Pereira, S.; Dias, E.M. **Health 4.0: Challenges for an orderly and inclusive innovation.**
- Brazilian Ministry of Health Book**
 ○ *Book chapter, accepted for publication*
 Melo, V.; Lopes, J.M.; Dias, E.M. From Portuguese: **Thermolabile Drug Logistics Control.**

Community Work

- TETO Brasil - NGO** **2012 – 2017**
 ○ *Volunteer in the construction of emergency wooden houses in "favelas" (slums).* *Brazil and Paraguay*
- Rotaract Club Indaiatuba Votura (Sponsored by Rotary International)** **2011 – 2013**
 ○ *Founding member - Responsible for the management of social projects.* *Indaiatuba/SP – Brazil*
- Interact Club de Elias Fausto (Sponsored by Rotary International)** **2006 – 2011**
 ○ *Founding member - Responsible for the management of social projects.* *Elias Fausto/SP – Brazil*

Others

- **Computing: Advanced:** Microsoft Office, AutoCAD, Bizagi, Visio and Tekla Structures; **Intermediate:** Python and SAP; **Basic:** C.
- **Data Science Course:** "Python for Data Science and Machine Learning" at Udemy (Tools: Numpy, Pandas, Sci-kit learn, Matplotlib, Seaborn, Data Visualization. Machine learning models: Linear regression, Logistic regression, K Nearest neighbors, Decision tree, Random Forest, Support Vector Machines, K Means Clustering)