CURRICULUM VITAE

April 10, 2019

**PERSONAL INFORMATION**

Juan R. Jaramillo

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**EDUCATION**

* 2007 Ph.D. Industrial Engineering, West Virginia University
* 2002 MS. Industrial Engineering, West Virginia University
* 1993 BS. Civil Engineering, Escuela de Ingeniería de Antioquia (Colombia)
* 1991 B.S. Geological Engineering, Escuela de Ingeniería de Antioquia (Colombia)

**PROFESSIONAL EXPERIENCE – ACADEMIC:**

**Full Time:**

* 2018 – Current. Associate Professor of Decision Sciences and Marketing, Adelphi University.
* 2015 – 2018. Assistant Professor of Operations Management, Farmingdale State College.
* 2013 – 2015. Associate Professor of Operations and Supply Chain, Albany State University (Tenured).
* 2008 – 2013. Assistant Professor of Operations and Supply Chain, Albany State University.

**Part Time:**

* 2018 – Current. Universidad EIA (Medellín, Colombia), Guest Professor of Supply Chain Analytics
* 2013 – Current. Universidad de Medellín (Medellín, Colombia), Guest Professor of Logistics
* 2013 – 2015. Antioquia Technological Institute (Medellín, Colombia) Guest Professor of Logistics
* 2002 – 2008. West Virginia University. Graduate Teaching Assistant. Taught one course per semester

**PROFESSIONAL EXPERIENCE – NON-ACADEMIC:**

**Full Time:**

* 1993 – 1999 Superintendent of production Colcerámica S.A.

**Part Time (Consultant Work)**

* 2012 – 2018 Health Business Outcomes, Partner (www.HealthBusinessOutcomes.com) Lean Six Sigma Certifications (Black, Green, and Yellow Belts).
* 2012 – 2013 Optimization of garbage collection routes, development of an application that optimize routes with respect to total distance travelled. Reduced total distance travelled by vehicles by 12% City of Envigado (Colombia).
* 2012 Doblamos S.A. Machine Layout redesign.
* 2011 – 2012 Georgia Water Planning and Policy Center at Albany State University, Waste to Energy Project, Transportation analysis for alternative bio-fuels such as poultry litter, peanut shells, and cotton gin by-products.
* 2011 Trush Aircraft, INC, March 2011, Energy efficiency assessment and operations assessment.

**PUBLICATIONS AND PRESENTATIONS**

**Refereed Journal Articles**

* Putzer G, and Jaramillo J. (2018) “Modifiable Behavioral Risk Factors and the Value of Lifetime Earnings Lost among US Citizens From 2000-2016.” Journal of Business & Economics Policy. Vol. 5, No. 4, DOI: 10.30845/jbep.v5n4a8 , URL: <http://dx.doi.org/10.30845/jbep.v5n4a8> (No ranking in Scimago)
* Jaramillo, J.R. and McKendall A. (2018) “A Memetic Algorithm for the Generalized Machine Layout Problem” *International Journal of Operational Research*. Vol. 33 No 4, pp 497-511. DOI: 10.1504/IJOR.2018.096489 (Scimago: Q3)
* Nondo C, and Jaramillo J (2018) “Analysing Africa’s Total Factor Productivity Growth: A DEA-Malmquist and Bootstrap Approach” *International Journal of Sustainable Economies Management* (IJSEM) Vol 7, No 4, pp 45-61. doi: 10.4018/IJSEM.2018100105 (No ranking in Scimago)
* Putzer G, and Jaramillo J (2017) “Trends in Behavioral Risk Factors Resulting in Premature Death in US from 2000-2015.” *International Journal of Research in Business Studies and Management*. Volume 4, Issue 4, 2017, pp 8-12 (No ranking in Scimago)
* Jaramillo, J. and Putzer, G. (2017) “Using Data Envelope Analysis to Examine US State Health Efficiencies Over 2008-2015.” *Global Journal of Human-Social Science: H Interdisciplinary*. Volume 17, Issue 2, pp 7 – 13 (No ranking in Scimago)
* Putzer G, Jaramillo J (2016) “Comparing US State Health Efficiencies Employing Data Envelopment Analysis.” *Journal of Socialomics* Volume 5, Issue 4. doi: 10.4172/2167-0358.1000183 (No ranking in Scimago)
* Putzer G, Jaramillo J (2015) Premature Mortality Costs Associated with Lifestyle Factors among US Citizens. *Review Public Administration Management* Volumen 3, Issue 1, doi:10.4172/2315-7844.1000177 (No ranking in Scimago)
* Jaramillo, J.R. (2013) “Algoritmo Memético para el Ruteo de Vehículos” *Revista EIA*. Vol. 10, No. 20 pp. 13-22. (No ranking in Scimago)
* Jaramillo, J.R. (2012) “Búsqueda Tabú para el Ruteo de Vehículos” *Revista Ingeniería Industrial de la Universidad de Lima.* Vol. 30, 22-49 (No ranking in Scimago)
* Block, W., Putzer, G.J. Jaramillo, J.R. (2010) “Children with Type 2 Diabetes Mellitus and the Prevalence of Psychiatric Disorders” *Southern Medical Journal*, 103 (12), 1214-1218 (Scimago: Q3)
* Jaramillo, J.R., and McKendall, A. R. (2010) “The Generalized Machine Layout Problem,” *International Journal of Production Research*, 48 (16), 4848-4859 (Scimago: Q1)
* Jaramillo, J.R. and McKendall, A. R. (2010) “Two Metaheuristics for the Integrated Machine Allocation and Layout Problem,” *International Journal of Operational Research*, 7(1), 74-89 (Scimago: Q3)
* McKendall, A. R. and Jaramillo, J. R. (2006) “A Tabu Search Heuristic for the Dynamic Space Allocation Problem,” *Computers and Operations Research*, 33(3), 768-789 (Scimago: Q1)

**Refereed Conference Proceedings**

* Jaramillo, J. R. (2011) “The Green Vehicle Routing Problem,” *SE InfORMS Annual Meeting*

*Proceedings*, 470-477

* Jaramillo, J. R. (2010) “The Single Green Vehicle Routing Problem,” *SE InfORMS Annual Meeting Proceedings*, 362-366
* Jaramillo, J. R. (2009) “The Multicommodity Flow Quadratic Assignment Problem,” *IRC Proceedings of the 2009 Annual conference and exhibition,* 6 pages on CDROM
* Jaramillo, J. R. and McKendall Jr, A. R. (2004) “The Dynamic Extended Facility Layout Problem,” *IRC Proceedings of the 2004 Annual conference and exhibition.* 6 pages on CDROM
* Jaramillo, J. andMcKendall Jr, A. R. (2002) “A Clustering Algorithm for the Dynamic Space Allocation Problem.” *SE InfORMS Proceedings of the 38th Annual Meeting,* 9 pages on CDROM

**Professional Presentations and Talks**

* Jaramillo J.R. (2018) “Analytics, Present and Future,” **Keynote Speaker**. Launch of Master in Analytics. EAFIT University. Medellin, Colombia. October 24.
* Jaramillo J.R. (2018) “Machine Learning Algorithm for the Vehicle Routing Problem,” INFORMS, Conference on Business Analytics & Operations Research, Baltimore MD. April 17.
* Jaramillo J.R. (2017) “Machine Learning Algorithm for the Vehicle Routing Problem,” FSC Celebration of Scholarship, November 7.
* Jaramillo J.R. and Putzer, G. (2017) State Health Care Efficiencies: A Benchmark Using Data Envelopment Analysis. INFORMS, Conference on Business Analytics & Operations Research. Las Vegas, NE. April 3.
* Jaramillo J.R. (2016) “A path Relinking Memetic Algorithm for the Capacitated Vehicle Routing Problem,” FSC Celebration of Scholarship, November 10.
* Jaramillo J, and Putzer, G. (2016) State Health Care Efficiencies: A Comparison Using Data Envelopment Analysis, New York State Economics Association Annual Conference. Farmingdale, NY, October 7
* Jaramillo J.R. (2016) A Methodology to Locate a Dry Port in the Rionegro Region in Colombia. INFORMS, Conference on Business Analytics & Operations Research. Orlando, Fl. April 11.
* Jaramillo J.R. (2015) “La Cadena de Abastecimiento, una ventaja competitiva” **Keynote Speaker**. Certification in Logistics Launch Ceremony. Universidad Católica de Oriente.
* Jaramillo J.R. (2014) “Optimizing Trash Collection Routes in Dense Urban Areas”. Transportation Research Poster Session. Georgia Department of Transportation. Atlanta, GA.
* Jaramillo J.R. (2014) “La importancia del Transporte en la Cadena de Abasteciemiento,” **Keynote Speaker**. Expotransporte 2014, Medellín, Colombia
* Jaramillo J.R. (2014) “Optimizing Trash Collection Routes in Dense Urban Areas” 2014 INFORMS Conference on Business Analytics & Operations Research. Boston MS. April 1.
* Jaramillo J.R. (2013) Transportation. Panel at Miller Coors Fall Southeastern Partnership Exchange, September 19.
* Jaramillo J.R. (2013) Supply Chain as a Strategic Advantage. Invited lecturer. Universidad de Medellín. May 23.
* Nondo, C. and Jaramillo J.R. (2013) Energy Utilization and Economic Performance: A Data Envelopment Analysis and Panel Data Analysis, Southern Regional Science Association, Washington D.C.
* Jaramillo, J.R. (2012) “An Integrated Approach of Teaching Supply Chain and Logistics,” INFORMS Annual Meeting, Phoenix, AZ
* Jaramillo, J. R. (2012) “Analytics in Health Care Management” Health Care Management Doctoral Seminar on Advanced Topics, University of Georgia, February 27
* Jaramillo, J. R. (2011). “The Green Vehicle Routing Problem,” SE InfORMS Annual Meeting, Myrtle Beach, SC.
* Jaramillo, J. R. (2010). “The Single Green Vehicle Routing Problem,” SE InfORMS Annual Meeting, Myrtle Beach, SC.
* Jaramillo, J.R. (2009) “The Quadratic Assignment Multicommodity Flow Problem,” Poster IERC annual Conference in Miami, FL
* Jaramillo, J. R. (2007) “The Generalized Machine Layout Problem,” Department of Industrial & Management Systems Engineering, Graduate Student Seminar, West Virginia University, September 07
* Jaramillo, J.R. and McKendall, A.R., (2006) “The Generalized Machine Layout Problem,” INFORMS Annual Meeting, Pittsburgh, PA
* Jaramillo, J.R. and McKendall, A.R., (2004) “A Tabu Search Heuristic for the Dynamic Space Allocation Problem,” Paper presented at the IERC annual Conference in Houston, TX
* Jaramillo, J. R. (2003) “A Tabu Search Algorithm for the Dynamic Space Allocation Problem,” Department of Industrial & Management Systems Engineering, Graduate Student Seminar, West Virginia University, April 18
* Jaramillo, J.R. and McKendall, A.R., (2002) “A Clustering Algorithm for the Dynamic Space Allocation Problem,” SE InfORMS Conference in Myrtle Beach, SC.
* Jaramillo, J. R. (2001) “A heuristic for the dynamic space allocation problem,” Department of Industrial & Management Systems Engineering, Graduate Student Seminar, West Virginia University, October 14.

**WORK IN PROCESS**

Jaramillo, J. and Putzer, G. “Modifiable Behavioral Risk Mortality Factors by Gender and Ethnicity.” Writing process. To be submitted by December 2019.

Jaramillo, J. and Putzer, G. Trends in Behavioral Risk Factors Resulting in Premature Death by Gender and Ethnicity in US from 2004-2018. Information Collection. Estimated time of submission (June 2020)

Jaramillo, J. “Evolutionary algorithms for the Dynamic Space Allocation Problem” Programming Stage. To be submitted by August 2020.

Jaramillo, J. et al. “Breast Cancer Tomography Registration and Segmentation using Artificial Intelligence.” Early stages. In conjunction with Zahra Sedighi Maman, and Amirhossein Alamdar-Yazdi from Adelphi University and Maria E. Puerta and Juan C. Rivera from Universidad EAFIT. We expect multiple articles from this collaboration. Submissions will start in December 2020.

Jaramillo, J. et al. “Counting with Neural Networks for the Ceramic Industry” Early stages. In conjunction with Zahra Sedighi Maman, and Amirhossein Alamdar-Yazdi from Adelphi University and Andrés Areiza and Juan F. Monsalvo from Corona Corporation (Ceramics). We expect an article from this collaboration. Expected submission August 2020.

**HONORS AND AWARDS**

* Honorary Member, Delta Mu Delta International Honor Society in Business Administration, 2009 - Present
* Member, Alpha Pi Mu, Industrial Engineering Honor Society, 2001 - Present
* Best track paper award, Oct. “A clustering algorithm for the dynamic space allocation problem,”

Production & Operations Management, SE InfORMS Annual Conference, Myrtle Beach, South Carolina. 2002

* Best Rotarian, Rotary Club Medellín Retorno, 1999

**ACADEMIC AND PROFESSIONAL SOCIETIES**

* Institute for Operations Research and the Management Sciences (INFORMS)
* Analytics Society, Institute for Operations Research and the Management Sciences (INFORMS)

**SERVICE**

**Professional:**

* 2017 – 2019, Chair, Caterpillar and INFORMS Analytics Society Innovative Applications in Analytics Award
* 2011 – 2017 INFORMS Innovative Application in Analytics Award, Analytics section INFORMS, Judge. Part of the team that designed the award.
* 2019. Guest Editor, INFORMS Journal of Applied Analytics. Special Issue on 2018 Innovative Applications in Analytics Award
* 2019 - 2020. Guest Editor, Journal of Modelling in Management. Special Issue on Analytics Modelling and Applications
* 2018 – Current. Editorial Committee Member. Revista Ingeniería Industrial. Universidad de Lima (Peru). 2018 – Present.
* 2018 – Current. Editorial Committee Member, International Journal of Combinatorial Optimization Problems and Informatics, 2010-Present
* INFORMS Innovative Application in Analytics Award, Analytics section INFORMS, Helped establishing judging criteria, Judge 2011-2012; 2012-2013; 2013 – 2014, 2014 - 2015; co chair 2015-2016. Chair 2017 - 2019
* Ad-hoc Reviewer for the International Journal of Production Research; International Journal of Operational Research; International Journal of Combinatorial Optimization; International Journal of Mathematics in Operations Research; Asia-Pacific Journal of Opertational Research; Revista de la Escuela de Ingeniería de Antioquia; and Science Iranica

**Shool/Department**

2018 – Current. Member. MS in Business Analytics Committee. Helped design program curriculum. Designed four new courses (Applied Machine Learning, Data Visualization for Business Analytics, Advanced Business Analytics, and Special Topic: Text Analytics).

2018 – Current. Member. Specialization in Business Analytics Committee. Helped design program curriculum. Designed one new course (Optimization, Visualization, and Text Analytics)

**University**

2018 – Current. Innovation Center. Attended multiple meetings lead by Professor Zachary Johnson

2019 – Current. Momentum Planning Committee. Joined recently.

2019 – Research Day Reviewer

**WORKLOAD**

**Fall 2018**

* DCS 274 002 Data Analysis and Decision Making
* DSC 670 081 Statistical Methods
* DSC 670 603 Statistical Methods

**Spring 2019**

* DCS 274 002 Data Analysis and Decision Making
* DSC 664 001 Logistics Management
* DSC 670 163 Statistical Methods
* DCS 791 002 Independent Study Machine Learning With R