

Curriculum Vitae - Jisoo Park

CONTACT INFORMATION	E-mail: jisoo@gatech.edu	linkedin.com/in/jisoo@gatech
BACKGROUND	I am a fourth-Year Ph.D. candidate (have passed the comprehensive exam) in Industrial Engineering, seeking opportunities to work on supply chain engineering, optimization, or technology projects that have a focus in mathematical modeling and data science.	
EDUCATION	Georgia Institute of Technology , Atlanta, GA	
	Ph.D. Candidate in Industrial Engineering	Expected Dec 2022
	<i>Track: Supply Chain Engineering, Minor: Machine Learning</i>	
	M.S. in Supply Chain Engineering; GPA: 3.8/4.0; Alpha Pi Mu Honors Society	Dec 2018
	The Cooper Union for the Advancement of Science and Art , New York, NY	
	Bachelor of Science in Engineering, General Engineering; GPA: 3.7/4.0 (Cum Laude)	May 2017
	Full-tuition Merit Scholarship (2013-2017)	
RESEARCH EXPERIENCE	<ul style="list-style-type: none">• The Home Depot - Grad Researcher Mar 2020–Mar 2021 <i>Bulky-Item Supply Service Network Optimization with Delivery-Time Sensitive Clients</i><ul style="list-style-type: none">◦ Developed an automated process that analyzes available conversion data to predict conversion rates with regression models (implemented on Python with CPLEX)◦ Leveraged sales and conversion data to maximize induced profit margins and enable supply chain service network to satisfy both speed-sensitive and cost-sensitive customers◦ Formulated and developed conversion inputs for time-sensitive profit maximization model that provides a net benefit of \$3M/week compared to cost minimization model and a net benefit of \$8.5M/week compared to the time-sensitive model by selecting customer-promised lead times to maximize profit• Bombardier Recreational Products - Project Leader, Grad Researcher Aug 2020–Dec 2021 <i>Data-Driven Autonomous Retail Inventory Management System (P&A)</i><ul style="list-style-type: none">◦ Led a team of four graduate students to provide new tools for measuring the performance of the new retail inventory management initiative for the Parts & Accessories division◦ Developed new KPIs such as current inventory age to measure the efficiency of the proposed orders, and parts availability to estimate the risk of lost sales◦ Implemented a data-driven model to distinguish 40,000+ items into consumables and repair parts category through clustering (Gaussian Mixture Model)• <i>Showcasing Value Optimization</i> Aug 2018–Dec 2019<ul style="list-style-type: none">◦ Formulated an optimization model to maximize the showcasing value for a dealer through deciding which models to showcase given a maximum portfolio size and budget constraint◦ Implemented the model in Java with Gurobi to determine the optimized portfolio to minimize the chance of lost sales from lack of feature showcasing◦ Identified and calculated the demand share for each feature in relevant categories (such as engine, platform, segment industry, passenger capacity etc.) and determined current showcasing value for dealers in Oklahoma◦ Proposed changes in the products showcased with an 40.2% increase in the showcasing value on average• General Electric Global Operations Logistics - Grad Researcher Jun–Sep 2018 <i>GE Power Network Design</i><ul style="list-style-type: none">◦ Evaluated and identified consolidation opportunities across the supply chain network in North America through the analysis of inbound and outbound logistics operations in GE facilities, customer facilities, and 400+ vendor sites that supply 38.5K distinct SKUs.◦ Developed a database on MS Access that integrates previously scattered information from 4+ different sources to include crucial logistics data such as the cost, mode, carrier, dates, rate, etc. in one platform to facilitate further analysis• Binghamton University - Summer Research Intern Jun–Aug 2016 <i>Offline and In-line Analyses of Solder Paste Inspection (SPI) in the PCB Assembly Process</i><ul style="list-style-type: none">◦ Conducted different statistical analyses of stencil printing process in surface mount technology at Complex Systems Design and Analysis Laboratory◦ Utilized Minitab analysis such as histograms, box plots, and outliers detection to summarize the behavior of stencil printing for 13+ different aperture shapes and sizes	

- Defined the best levels of stencil printing parameters by developing pivot tables with frequencies of each level

SELECTED PUBLICATIONS

1. **Park, J., Dayarian, I., & Montreuil, B.** “Showcasing optimization in omnichannel retailing.”. European Journal of Operations Research, March 2020.
2. “**Showcasing Optimization Model for Hyperconnected Showcasing Centers**”, IFAC - MIM Conference, September 2019

PRESENTATIONS

- “**Profit Maximizing Showcasing Product Portfolio Optimization in Omnichannel Retail Networks**”, INFORMS Annual Meeting, October 2021
- “**Showcasing-Based Retailing in Hyperconnected Networks**”, IPIC Annual Meeting, July 2021
- “**Showcasing Optimization in Omnichannel Retailing**”, INFORMS Annual Meeting, October 2019

TECHNICAL SKILLS

- **Data Analysis & Statistical Modeling:** Tableau, SQL, MS Excel, Jump, Python
- **Programming Languages :** Python, Java, R, Matlab
- **Modeling Languages & Optimization Solvers:** Gurobi, CPLEX, Xpress, OPL
- **Design & Simulation:** AutoCAD, SketchUp, SolidWorks, AnyLogic

HONORS AND AWARDS

- **Physical Internet Generation Award**, IPIC Conference Jul 2021
- **KSEA-KUSCO Graduate Scholarship** Aug 2018
- **APICS-Deloitte Case Competition** Oct 2018
 - 1st Runner-Up Final International Round; 1st Place Winner regional round
- **Full-tuition Merit Scholarship**, The Cooper Union 2013-2017

LEADERSHIP AND SERVICES

- **Doctoral Colloquium Organizing Committee Member** Jul 2021
 - Ph.D. Colloquium planning committee member for the 8th International Physical Internet Conference (IPIC2021)
- **IISE Graduate Executive Board Member (Corporate Relations)** Sep 2018 - May 2019
- **Engineering Student Council** Sep 2016 - May 2017
 - Student representative for General Engineering major
- **Korean-American Scientists and Engineers Association** Aug 2015 - May 2017
 - Founder and President of Young Generation Chapter

REFERENCES

- Dr. **B Montreuil**
 H. Milton Stewart School of Industrial and Systems Engineering
 Georgia Institute of Technology
 E-mail: benoit.montreuil@isye.gatech.edu
- Dr. **M Dahan**
 H. Milton Stewart School of Industrial and Systems Engineering
 Georgia Institute of Technology
 E-mail: mathieu.dahan@isye.gatech.edu
- Dr. **S Yoon**
 Systems Science and Industrial Engineering
 State University of New York at Binghamton
 E-mail: yoons@binghamton.edu