Ehsan Ardjmand

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Education

Ohio University, Ph.D. — **Athens, OH**
Systems Engineering — *Aug 2015*

Tarbiat Modares University, M.Sc. — **Tehran, Iran**
Industrial and Systems Engineering — *Sep 2010*

Amirkabir University of Technology, B.Sc. — **Tehran, Iran**
Industrial Engineering — *Sep 2007*

Higher Education Experience

Ohio University — **Athens, OH**
Associate Professor of Analytics and Information Systems — *Aug 2023–Present*

Curriculum Design:

- Designed and launched a three-course Graduate Certificate in Artificial Intelligence for Business, including the following courses:
  - AI in Business
  - Business Analytics with AI
  - Implementation of AI in Business
- Regularly review and enhance curricula to align with industry standards and emerging technologies.

Director, Master of Business Analytics:

- Coordinate curriculum design, faculty performance, and student success initiatives.
- Oversee course logistics, enrollment management, and academic program quality.
- Foster program community, assess student satisfaction, and represent the program at internal and external events.
- Designed and implemented an accelerated graduate pathway, enabling undergraduate students to take graduate courses for a faster time to degree.
- Designed and implemented a series of free short courses to introduce prospective students to the program and expand outreach.
- Led curricular redesign of the MBAn program to better align with emerging AI skill set demands in the job market.
- Partnered with INFORMS to implement Associate Certified Analytics Professional (aCAP) certification opportunities for program graduates.

Courses Offered:

- MBA 6590 Business Analytics with AI (online)
- MBA 6490 Predictive Analytics II (online)
- MBA 6390 Predictive Analytics I (online)
- MBA 6325 Prescriptive Analytics (face-to-face)
- QBA 3720 Predictive Analytics (online/face-to-face)

Ohio University — **Athens, OH**
Charles M. Copeland Assistant Professor of Analytics and Information Systems — *Jan 2019–Jul 2023*

Courses Offered:

- QBA 3720 Predictive Analytics (online/face-to-face)
- MBA 6325 Prescriptive Analytics (face-to-face)
- MBA 6390 Predictive Analytics I (online)
- MBA 6490 Predictive Analytics II (online)

Frostburg State University **Frostburg, MD**
Assistant Professor of Management *May 2016–Dec 2018*

Curriculum Design:

- Designed and launched the Graduate Business Analytics program at Frostburg State University, including the development of the following courses:
  - Foundations of Analytics
  - Data Analysis
  - Data Management
  - Predictive Analytics
  - Prescriptive Analytics

Undergraduate Courses:

- MGMT 359 Quality Management (face-to-face)
- MGMT 355 Operations Management (face-to-face)

Graduate Courses:

- MGMT 623 Data Analysis (online)
- MGMT 622 Data Management (online)
- MGMT 621 Foundations of Analytics (online)
- BMIS 607 Information Systems (online)
- MGMT 512 Management Decision Analysis (online)

Ohio University **Athens, OH**
Instructor *2014–2016*

Undergraduate Courses:

- MGT 3000 Operations Management (face-to-face)

Graduate Courses:

- OMBA 6320 Data analysis for decision making (online)

Research

Editorial Positions:

- Editorial Board Member, Applied Soft Computing

Patents:

- Kalra, A., Rangwala, M., Ardjmand, E., & DeJesse, C. (2024). U.S. Patent No. 11,989,688. Washington, DC: U.S. Patent and Trademark Office.

Selected Peer-Reviewed Journals:

- Ardjmand, E., Izadi, E., Tavasoli, A., Moradi-Jamei, B., & Shakeri, H. (2025). Graph-embedded reinforcement learning for dynamic pricing and advertising under network effects. Applied Soft Computing, 114056.
- Ardjmand, E., Fallahtafti, A., Yazdani, E., Mahmoodi, A., & Young II, W. A. (2024). A guided twin delayed deep deterministic reinforcement learning for vaccine allocation in human contact networks. Applied Soft Computing, 167, 112322.
- Tavasoli, A., Fazli, M., Ardjmand, E., Young II, W. A., & Shakeri, H. (2023). Competitive pricing under local network effects. European Journal of Operational Research.
- Tavasoli, A., Shakeri, H., Ardjmand, E., & Young II, W. A. (2021). Incentive rate determination in viral marketing. European Journal of Operational Research, 289(3), 1169-1187.

- Fallahtafti, A., Ardjmand, E., Young II, W. A., & Weckman, G. R. (2021). A multi-objective two-echelon location-routing problem for cash logistics: A metaheuristic approach. Applied Soft Computing, 107685.
- Fallahtafti, A., Karimi, H., Ardjmand, E., & Ghalehkhondabi, I. (2021). Time slot management in selective pickup and delivery problem with mixed time-windows. Computers & Industrial Engineering, 159, 107512.
- Ardjmand, E., Singh, M., Shakeri, H., Tavasoli, A., & Young II, W. A. (2021). Mitigating the risk of infection spread in manual order picking operations: A multi-objective approach. Applied Soft Computing, 100, 106953.
- Ardjmand, E., Ghalehkhondabi, I., Young II, W. A., Sadeghi, A., Weckman, G. R., & Shakeri, H. (2020). A hybrid artificial neural network, genetic algorithm and column generation heuristic for minimizing makespan in manual order picking operations. Expert Systems with Applications, 159, 113566.
- Singh, M., & Ardjmand, E. (2020). Carton Set Optimization in E-commerce Warehouses: A Case Study. Journal of Business Logistics, 41(3), 222-235.
- Ardjmand, E., Bajgiran, O. S., & Youssef, E. (2019). Using list-based simulated annealing and genetic algorithm for order batching and picker routing in put wall based picking systems. Applied Soft Computing, 75, 106-119.
- Ardjmand, E., Shakeri, H., Singh, M., & Bajgiran, O. S. (2018). Minimizing order picking makespan with multiple pickers in a wave picking warehouse. International Journal of Production Economics, 206, 169-183.
- Ardjmand, E., Bajgiran, O. S., Rahman, S., Weckman, G. R., & Young II, W. A. (2018). A multi-objective model for order cartonization and fulfillment center assignment in the e-tail/retail industry. Transportation Research Part E: Logistics and Transportation Review, 115, 16-34.
- Ardjmand, E., Weckman, G. R., Young, W. A., Sanei Bajgiran, O., & Aminipour, B. (2016). A robust optimisation model for production planning and pricing under demand uncertainty. International Journal of Production Research, 54(13), 3885-3905.
- Ardjmand, E., Weckman, G., Park, N., Taherkhani, P., & Singh, M. (2015). Applying genetic algorithm to a new location and routing model of hazardous materials. International Journal of Production Research, 53(3), 916-928.
- Ardjmand, E., Park, N., Weckman, G., & Amin-Naseri, M. R. (2014). The discrete unconscious search and its application to uncapacitated facility location problem. Computers & industrial engineering, 73, 32-40.
- Ardjmand, E., Young II, W. A., Weckman, G. R., Bajgiran, O. S., Aminipour, B., & Park, N. (2016). Applying genetic algorithm to a new bi-objective stochastic model for transportation, location, and allocation of hazardous materials. Expert systems with applications, 51, 49-58.

Other Peer-Reviewed Journals:

- Tavasoli, A., Shakeri, H., Ardjmand, E., & Rahman, S. (2024). The art of interconnections: Achieving maximum algebraic connectivity in multilayer networks. Network Science, 1-28.
- Asadi-Zonouz, M., Amin-Naseri, M. R., & Ardjmand, E. (2022). A modified unconscious search algorithm for data clustering. Evolutionary Intelligence, 1-27.
- Ardjmand, E., Young II, W. A., Ghalehkhondabi, I., & Weckman, G. R. (2021). A Scheduling and Rescheduling Decision Support System for Apparel Manufacturing. International Journal of Operations Research and Information Systems (IJORIS), 12(4), 1-19.
- Ardjmand, E., Stowe, D. L., & Stowe, J. D. (2020). Using Portfolio Theory to Design Better Exams. Journal of Financial Education, 46(2), 271-297.
- Shakeri, H., Tavasoli, A., Ardjmand, E., & Poggi-Corradini, P. (2020). Designing optimal multiplex networks for certain Laplacian spectral properties. Physical Review E, 102(2), 022302.
- Ghalehkhondabi, I., Ardjmand, E., Weckman, G. R., & Young, W. A. (2017). An overview of energy demand forecasting methods published in 2005–2015. Energy Systems, 8(2), 411-447.
- Ghalehkhondabi, I., Ardjmand, E., Young, W. A., & Weckman, G. R. (2017). Water demand forecasting: review of soft computing methods. Environmental monitoring and assessment, 189(7), 1-13.
- Ghalehkhondabi, I., Ardjmand, E., Young, W. A., & Weckman, G. R. (2019). A review of demand forecasting models and methodological developments within tourism and passenger transportation industry. Journal of Tourism Futures.
- Ghalehkhondabi, I., & Ardjmand, E. (2020). Sustainable E-waste supply chain management with price/sustainability-sensitive demand and government intervention. Journal of Material Cycles and Waste Management, 22(2), 556-577.

- Ardjmand, E., Young II, W. A., & Almasarwah, N. E. (2021). Detecting Community Structures Within Complex Networks Using a Discrete Unconscious Search Algorithm. International Journal of Operations Research and Information Systems (IJORIS), 12(2), 15-32.
- Ardjmand, E., Youssef, E. M., Moyer, A., Ii, W. A. Y., Weckman, G. R., & Shakeri, H. (2020). A multi-objective model for minimising makespan and total travel time in put wall-based picking systems. International Journal of Logistics Systems and Management, 36(1), 138-176.
- Weckman, G. R., Dravenstott, R. W., Young II, W. A., Ardjmand, E., Millie, D. F., & Snow, A. P. (2020). A Prescriptive Stock Market Investment Strategy for the Restaurant Industry using an Artificial Neural Network Methodology. In Deep Learning and Neural Networks: Concepts, Methodologies, Tools, and Applications (pp. 217-237). IGI Global.
- Ardjmand, E., Weckman, G. R., Schwerha, D., & Snow, A. P., (2016). An Approach to Analyzing the Retirement Satisfaction among Men and Women Based on Artificial Neural Networks and Decision Trees. International Journal on Advances in Intelligent Systems 9 (3 & 4), 265 - 274.
- Rahman, S., Ardjmand, E., & Shore, J. (2017). Facebook Use in the Western Maryland Appalachian Region: Restaurant/Cafe Businesses. QRBD, 143.
- Ghalehkhondabi, I., Ardjmand, E., & Weckman, G. (2017). Integrated decision making model for pricing and locating the customer order decoupling point of a newsvendor supply chain. Opsearch, 54(2), 417-439.
- Ardjmand, E., Millie, D. F., Ghalehkhondabi, I., Young II, W. A., & Weckman, G. R. (2016). A state-based sensitivity analysis for distinguishing the global importance of predictor variables in artificial neural networks. Advances in Artificial Neural Systems, 2016.
- Ardjmand, E., Ghalehkhondabi, I., Weckman, G. R., & Young, W. A. (2016). Application of decision support systems in scheduling/planning of manufacturing/service systems: a critical review. International Journal of Management and Decision Making, 15(3-4), 248-276.
- Jahedi, M., Ardjmand, E., & Knezevic, M. (2017). Microstructure metrics for quantitative assessment of particle size and dispersion: application to metal-matrix composites. Powder Technology, 311, 226-238.
- Millie, D.F., Weckman, G.R., Fahnenstiel, G.L., Carrick, H.J., Ardjmand, E., Young, W.A., Sayers, M.J. & Shuchman, R.A. (2014). Using artificial intelligence for CyanoHAB niche modeling: discovery and visualization of Microcystis–environmental associations within western Lake Erie. Canadian Journal of Fisheries and Aquatic Sciences, 71(11), 1642-1654.
- Millie, D. F., Weckman, G. R., Young II, W. A., Ivey, J. E., Fries, D. P., Ardjmand, E., & Fahnenstiel, G. L. (2013). Coastal 'Big Data'and nature-inspired computation: Prediction potentials, uncertainties, and knowledge derivation of neural networks for an algal metric. Estuarine, Coastal and Shelf Science, 125, 57-67.

Under Review and Working Journal Papers:

- Yazdani, E., Mahmoodi, A. & Ardjmand, E. Vaccine Allocation with Dual Pricing Policy: A Network-Based Reinforcement Learning Approach. Manuscript in final preparation for submission to *Expert Systems with Applications*.
- Ardjmand, E. Dynamic Facility Location via Reinforcement Learning for Epidemic Suppression in Contact Networks. *Working Paper*.
- Ardjmand, E. & Tavasoli, A. A System-Dynamics-Informed Reinforcement Learning Approach for Pricing Under Negative Network Externalities. *Working Paper*.
- Ardjmand, E., Izadi, E. & Tavasoli, A. Pricing and Allocation of Marketing Resources Under a Consumer Behavior Model with Local Externalities: A Reinforcement Learning Approach. *Working Paper*.
- Ardjmand, E., Chimeli, J., Kohl, D. & Livanis, G. A Machine Learning Approach to Modeling Information Search Patterns. *Working Paper*.

Conferences:

- Ardjmand, E. (2024). A guided twin delayed deep deterministic reinforcement learning for vaccine allocation in human contact networks. 2024 INFORMS Annual Meeting.
- Ardjmand, E., Fallahtafti, A., Mahmood, A., & Yazdani, E. (2023). RLVaccinator: Leveraging Reinforcement Learning for Optimal Immunization in Contact Networks. 2023 INFORMS Annual Meeting.
- Ardjmand, E., Stowe, D. L., & Stowe, J. D. (2021). Using Portfolio Theory to Design Better Exams. Southwestern Finance Association 2021 Annual Meeting.

- Ye, L., & Ardjmand, E. (2019) The Role of Gender Identity on Building Consumer Brand Relationship: SEM and fsQCA Findings. 2019 summer AMA conference.
- Rahman, S., & Ardjmand, E. (2019) Utilizing Business Analytics: To Boost Tourism. International Academy of Business Disciplines.
- Singh, M., & Ardjmand, E. (2019) Carton Set Optimization in E-commerce Warehouses. International Conference on Production Research.
- Ardjmand, E., Shore, J., & Rahman, S. (2018) Analyzing Perceptions and Attitudes of Tourists that Lead to Customer Satisfaction: An Approach to Expand Tourism. The International Academy of Business Discipline, 30th Annual Conferrence.
- Ardjmand, E., & Huh, D. W. (2017) Coordinated Warehouse Order Picking and Production Scheduling: A NSGA-II Approach. 2017 IEEE Symposium Series on Computational Intelligence (IEEE SSCI 2017).
- Huh, D. W., & Ardjmand, E. (2017) Overcoming use of Standard industry codes; Inter-industry Interactions and evolution of industries. Industry Studies Conference.
- Rahman, S., Shore, J., & Ardjmand, E. (2017). Small Businesses in Appalachia: Impact of Social Media on their operation and Opportunities. 29th IABD Annual Conference.
- Ardjmand, E., Weckman, G. R., Schwerha, D., & Snow, A. P. (2016). Analyzing the Retirement Satisfaction Predictors among Men and Women Using a Multi-Layer Feed Forward Neural Network and Decision Trees. ALLDATA 2016, 111.
- Millie, D. F., Weckman, G.R., Fahnenstiel, G. L., Carrick, H. J., Ardjmand, E., Young II, W. A., Shuchman, R. A., Sayers, M. J., & Fries, D. P. (2014). Joint Aquatic Sciences Meeting 2014.
- Millie, D. F., Weckman, G.R., Fahnenstiel, G. L., Young II, W. A., Ardjmand, E., Fahnenstiel, J. A., Shuchman, R. A., & Sayers, M. J. (2014). 7th Symposium on Harmful Algae in the US.
- Amin-naseri, M.R., Ardjmand, E. & Weckman, G.R. (2013). Training the Feedforward Neural Network Using Unconscious Search. In: Proceedings of International Joint Conference on Neural Networks (pp. 700-706). Dallas, Texas, USA: IEEE.
- Ardjmand, E., & Amin-Naseri, M.R. (2012). Unconscious Search - A New Structured Search Algorithm for Solving Continuous Engineering Optimization Problems Based on the Theory of Psychoanalysis, Advances in Swarm Intelligence. In: Y. Tan, Y. Shi & Z. Ji, (Vol. 7331, pp. 233-242): Springer Berlin / Heidelberg.

Industry Experience

ReasonOS **Mountain View, CA**
Chief Research Officer (part-time) *April 2023–present*

- Direct research on efficient AI learning systems and neurosymbolic AI methods.
- Collaborate with the software development team to implement these methods.
- Contribute to the design and development of AI products deployed on the ReasonOS platform.

Staples Inc. **Framingham, MA**
Senior Analyst Inventory Analytics *May 2015–May 2016*

- Analyzed, designed, and implemented a decision support system for optimizing stocking decisions with an estimated annual savings of $5.2M.
- Designed and implemented machine learning methods for detecting products' affinity by analyzing the customer order data and trends.
- Implemented optimization models for estimating the necessary inventory investment under various stocking decisions and scenarios.

Asre Jadid Textile Company **Tehran, Iran**
ERP system project leader *May 2011–May 2012*

- Analyzed and coached production line optimization project. This project improved the overall equipment efficiency of the plant by approximately 10%.
- Analyzed, Designed, and coached the implementation of an ERP and revenue management solution capable of production planning, scheduling, controlling, inventory management, and cost estimation with an estimated annual savings of $150K.

JPCO **Tehran, Iran**
Data analyst *Sep 2007–May 2011*

- Supervised, designed, and implemented a production scheduling system that improved the customer service time by approximately 10%.
- Supervised, designed, and implemented a near real-time decision support system for production and logistics management. This system helped the company to gain detailed insight into its performance metrics and standardize the processes.

Industry and Community Collaborations

Hollingsworth Consulting LLC.:

Hollingsworth Consulting is a small business located in Zanesville, OH, that provides consulting services in data analysis, value stream mapping, and strategic planning. My collaboration with Hollingsworth Consulting included:

- Advising on formulating machine learning methods suitable for predicting transportation demand.
- Providing machine learning technical expertise in writing grant applications to public institutions.

TrendSetr:

TrendSetr is a social commerce marketplace that encompasses the key attributes of widely popular social media sites, and combines those components with the general concept of e-commerce. The collaboration with TrendSetr included:

- Utilizing network analysis and machine learning techniques to predict the sales trends and content diffusion patterns in the TrendSetr's social network.
- Applying prescriptive analytics methods to maximize businesses influence and content diffusion in the TrendSetr's social network.
- Applying network analysis methods to detect fake accounts in the TrendSetr's social network.

DHL Supply Chain:

Collaborating with DHL supply chain on:

- Applying prescriptive analytics methods to optimize order batching and picker routing in their warehouses and minimizing picking operations makespan.
- Utilizing prescriptive analytics methods to determine the optimal number of pickers in warehouses.
- Utilizing machine learning methods to estimate the outcome of batching policies in terms of picking efficiency.
- Coordinating picking and packing operations using mathematical modeling for minimizing picking makespan.
- Developing software and algorithms for mitigating the risk of infection spread among warehouse workers during order picking operations.

Maddux Sports:

Maddux sports specializes in providing winning picks on sports; including NFL, MLB, NBA, and college football and basketball winners. The collaboration with Maddux Sports included:

- Testing and evaluating several machine learning models and predictive algorithms for predicting the outcome of games.
- Developing software that takes advantage of predictive ensemble models and visualizes various game results scenarios.

Ohio University:

- designed and advised a research project whose goal was to increase the diversity of admitted students through developing machine learning algorithms that predicts a student's response to the admission offer based on the student's demographic, household income and educational background.
- The final objective of this collaboration was to design equitable policies and distribute funding opportunities among the prospective students in such a way to increase the diversity of undergraduate newcomers in conjunction with the overall enrollment.

Office of Dr. Huma Shakil:

- Collaborated with a local clinic located in Cumberland, Maryland, for analyzing their patient's data.
- Evaluating and proposing machine learning methods for predicting patients' no-show rate.

Frostburg's Local Businesses:

- Studying the social network usage among Frostburg's local businesses. This research was conducted for local restaurants and tourism related businesses.

Grants and Awards

Research Seed Grant **$1,398**
Ohio University (*Spring 2025*)
Harnessing Reinforcement Learning for Consumer Influence: Pricing, Advertising, and Network Effects

Research Seed Grant **$3,000**
Ohio University (*Spring 2020*)
Pricing and competition under local externalities: a mean field theory approach

Research Seed Grant **$2,500**
Ohio University (*Fall 2019*)
Determining incentive rate to minimize time to profit in viral marketing campaigns.

Research Seed Grant **$2,400**
Ohio University (*Spring 2019*)
Integrated Order batching, picker routing and vehicle routing in manual order picking warehouses.

Research Grant **$5,200**
Frostburg State University (*Summer 2017*)
Predictive and prescriptive modeling in warehouses.

Scripps Innovation Challenge **$10,000**
Ohio University (*Spring 2014*)
Collaborated with students from other departments of Ohio University to address the challenge put up by The Columbus Dispatch- how can organizations with a large follower base on social media platforms such as Twitter, monetize their follower-base? Our solution was a data-mining algorithm named CATS.

Honors

Best Reviewer Award
Applied Soft Computing Journal *Fall 2024*

College of Business Research Impact Reward
Ohio University, Athens, OH *Spring 2024*

Received College of Business Copeland Fellowship
Ohio University, Athens, OH *Summer 2021*

College of Business Research Recognition
Ohio University, Athens, OH *Spring 2021*

College of Business Research Mentor Recognition
Ohio University, Athens, OH *Spring 2021*

College of Business Research and Service Excellence Award
Frostburg State University, Frostburg, MD *Spring 2018*

Outstanding Ph.D. Student Leadership Award (nominated)
Ohio University, Athens, OH *Spring 2015*

Co-author of editor's choice paper
Canadian Journal of Fisheries and Aquatic Sciences *Spring 2015*

ranked 60/10,000 in Nationwide M.Sc. University Entrance Exam
Tarbiat Modares University, Tehran, Iran *Summer 2006*

ranked 873/500,000 in Nationwide B.Sc. University Entrance Exam
Amirkabir University of Technology, Tehran, Iran *Summer 2003*

Selected Services

Curriculum Design:

- Designed, secured university approval for, and successfully implemented the "AI for Business" graduate certificate program at Ohio University, consisting of three courses: **AI in Business**, **Business Analytics with AI**, and **Implementation of AI in Business**.
- Designed and implemented the **Analytics for Decision Making** micro-credential for the Master of Business Analytics (MBAn) program, providing prospective students with foundational skills as a bridge to successfully transition into the full program. This initiative enhances accessibility and prepares students for the rigors of graduate-level analytics coursework.
- Designed executive MBA program for Cleveland Clinic.
- Developed and implemented the graduate business analytics program at Frostburg State University.

Advising:

- Advised and co-advised several Master's and PhD students, providing collaborative guidance on their research projects, thesis development, and academic progress to support their successful degree completion.
- Served on multiple Master's and PhD defense committees, providing expert evaluation, feedback, and guidance to graduate students throughout their thesis and dissertation defense processes.
- Supervised undergraduate research projects and provided academic advising for Honors Tutorial College students at Ohio University, supporting their scholarly development and fostering independent research skills.
- Advised students at the Center for Consumer Research and Analytics at Ohio University, mentoring them in applied research projects, data analysis, and the practical application of consumer analytics.
- Advised and mentored an average of 15 undergraduate students per semester at Frostburg State University, providing academic guidance, course selection support, and career planning to enhance their educational and professional development.

Institutional Services:

- Advanced the research initiatives of my institutions by chairing the Intellectual Contribution Committee, actively participating in an AI Think Tank, and leading the development of an official analytics journal list for the College of Business at Ohio University.
- Actively contributed to institutional goals by serving on multiple committees, including faculty evaluation, tenure and promotion, and hiring committees, to support faculty development and strategic hiring initiatives.

Scientific Community:

- Reviewed an average of 30 research papers annually for high-impact journals, including the European Journal of Operational Research, International Journal of Production Economics, Applied Soft Computing, Expert Systems with Applications, and Transportation Research Part E, contributing to the rigor and advancement of research in the fields of business analytics, machine learning, networks, and operations research.

Seminars, Certificates and workshops

- Instructional strategies for remote and online teaching
- Remote teaching fundamentals
- Machine learning with TensorFlow on Google cloud platform
- Quality Matters (QM)
- Closing the Loop: A Mini-Conference on Teaching and Assessment
- Remote Teaching Fundamentals: Basic Course Set Up and Creating Community
- Strategies for Designing 7-Week Online Courses
- Understanding Autism in college students
- Advisor training and best practices in academic advising
- Webinar on Micro-Credentialing and Digital Badging
- Internal quality audit based on requirements of ISO 9000:2000 series

- Basics, structure and documentation of quality management system in accordance with ISO 9000:2000 series
- Staples supply chain certification program

Computer Skills

Programming: Python, R, SQL, MATLAB
Software: Gurobi, CPLEX, Tableau, SPSS, Minitab
Other: MySQL, Hadoop, Spark, TensorFlow, Cassandra, LaTeX