

REZA MOGHIMI, PH.D.

Senior Lecturer of Business Analytics
Cornell University
SC Johnson College of Business
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EDUCATION

Ph.D.	Industrial Engineering New Mexico State University, Las Cruces, NM	2017
M.S.	Industrial Engineering New Mexico State University, Las Cruces, NM	2013

ACADEMIC APPOINTMENT

Cornell University S.C. Johnson College of Business Charles H. Dyson School of Applied Economics and Management, Senior Lecturer	Jan 2024 – present
Cornell University S.C. Johnson College of Business Charles H. Dyson School of Applied Economics and Management, Lecturer	Jan 2018 – Dec 2023
Clemson University Industrial Engineering Department, Lecturer	Summer 2018

TEACHING EXPERIENCE

Cornell University

AEM 2010/2011: Spreadsheet Modeling for Management and Economics

- Applied decision-making, analytical skills, and problem-solving using spreadsheets,
- Students learn various analytical skills and related spreadsheet tools through case studies.

AEM 2820: Introduction to Database Management Systems

- Introduces the principles of relational database management systems,
- The business application of database management (MySQL),
- Extracting knowledge from a database through case studies.

AEM 2830: Excel VBA programming for data analysis and business modeling

- Introduction to programming in VBA,
- Problem-solving and data analysis,
- Adding new functionalities to Excel workbooks.

AEM 2840/5840: Python programming for data analysis and business modeling

- Introduction to programming in Python,
- Data collection, processing, and analysis,
- Web scraping, financial data analysis, stock market analysis.

NBA 6430: Managerial Spreadsheet Modeling

- Applied decision-making, analytical skills, and problem-solving using spreadsheets,
- Advanced tools in Excel for data management, analysis, and visualization.

Clemson University

IE4910/6910: Topics in Business Analytics (Online)

- Introduction to Business Analytics,
- Topics in descriptive analytics, predictive analytics, and prescriptive analytics.

IE3840: Engineering Economic Analysis (Online)

- Introduction to the economic analysis of projects,
- Analyzing the time value of money.

New Mexico State University

IE413: Introduction to Operations Research

- Modeling linear problems,
- Simplex algorithm.

PUBLICATIONS

Almansour, F., **Moghimi, A.**, Yan, Y., Sohn, H., & Reyes, G. (2018). Carbon Capture and Storage Optimization Model with Enhanced Oil Recovery. *Journal of Multidisciplinary Engineering Science and Technology (JMEST)*, 5(10).

Escobar, C., **Moghimi, A.**, Reyes, G., & Sohn, H. (2018). An Optimization Model for Emergency Medical Service. *Journal of Multidisciplinary Engineering Science and Technology (JMEST)*, 5(10).

Reyes, G., Angelis, S., Yan, Y., Sohn, H., **Moghimi, A.**, & Valles-Rosales, D. (2018). Optimization of Bio-fuel Logistics in the Southwestern United States. *Journal of Multidisciplinary Engineering Science and Technology (JMEST)*, 5(10).

Zare, M., & **Moghimi, A.** (2017). May the past light the way to the future: Navigating the changes in the field of management education through content analyses of paper published in the JME from 1991-2016. In Guclu Atinc (Ed.), *Proceedings of the Seventy-seventh Annual Meeting of the Academy of Management*, 2151 (Barry Armandi Award Winner for Best Student Paper in Management Education and Development).

Moghimi, A., Meyer, S., Muhanga, A., & Sohn, H. (2012). Assessment of impact of city of Las Cruces SAFE traffic operations program on intersection traffic safety, city council meeting Las Cruces, NM.

WORKING PAPERS

Moghimi, A., (2024). The short-term impact of social media on stock market direction - sentiment analysis approach.

SEMINAR AND CONFERENCES

Moghimi, A., & Sohn, H. (2017). Financial Evaluation of Large-Cap Companies on the Stock Market; Artificial Neural Networks Approach to Stock Picking. Informs Annual Conference. Houston, TX.

Moghimi, A., & Sohn, H. (2017). Financial Performance Forecasting of Large-cap Companies on U.S. Stock Market Using Artificial Neural Networks. Informs Business Analytics Conference. Las Vegas, NV.

Moghimi, A., & Sohn, H. (2016). Application of Artificial Neural Network in financial data analysis. Graduate Research and Arts Symposium. Las Cruces, NM.

Moghimi, A., & Sohn, H. (2015). Analysis of the camera enforcement program by empirical Bayes method. Institute of Industrial and Systems Engineers Annual Conference. Nashville, TN.

Moghimi, A., & Sohn, H. (2014). Assessment of the red-light and speeding camera enforcement program in the city of Las Cruces: before-and-after crash data analysis. HENAAC Great Minds in STEM annual conference. New Orleans, LA.

Moghimi, A., & Sohn, H. (2014). An observational before-after study of the city of Las Cruces camera enforcement program. Graduate Research and Arts Symposium. Las Cruces, NM.

Garcia-Mendoza, J., **Moghimi, A., & Sohn, H.** (2014). Intersection traffic safety: red-light violation analysis. Emerging Researchers National (ERN) Conference in STEM (*Won 1st place in poster presentation competition*). Washington, D.C.

Torres, J., **Moghimi, A., & Sohn, H.** (2014). The non-parametric analysis and observational before-and-after study of the speeding violations data. Emerging Researchers National (ERN) Conference in STEM (*Won 2nd place in poster presentation competition*). Washington, D.C.

RESEARCH INTEREST

Natural Language Processing, Artificial Neural Networks, Predictive Modeling, Financial Data Analysis

AWARDS

Dean's Distinguished Award for Teaching Innovation; inaugural winner SC Johnson College of Business, Cornell University	2023
Teaching Excellence Award – Undergraduate Program Charles H. Dyson School of Applied Economics and Management, Cornell University	2021
Barry Armandi Award Best student paper in Management Education and Development.	2017

Emerging Researchers National (ERN) 2014
1st and 2nd place in conference poster presentation competition.

Alumni out-of-state scholarship 2011 – 2012

SERVICE ACTIVITIES

Cornell, College of Agriculture and Life Sciences (CAL S) Curriculum Committee 2020 – present
Cornell, CAL S Diversity and Inclusion Committee 2022 – present
Cornell, Dyson Undergraduate Studies Committee 2019 – 2020, 2022 – present
Cornell, SC Johnson College of Business, Leadership Council on Combating
Racism and Promoting Diversity, Inclusion, Equity, and Belonging 2020 – present
Cornell, Dyson Faculty Fellow for Inclusive Excellence 2022 – present
Cornell, Dyson Undergraduate and MPS Curriculum Review Committee 2022 – 2023
Cornell, Dyson Academic Achievement and Petitions Committee 2021 – 2022
Cornell, Dyson Academic Integrity Board 2020 – 2022
Cornell, Dyson Assurance of Learning Committee 2020 – 2022

Academy of Management, MED Award Referee 2020 – 2022

ADVISING

Faculty advisor for Dysons Students, providing academic and career counseling
Faculty advisor for the National Organization of Business and Engineering at Cornell (NOBE)

CONSULTING

Cornell SC Johnson College of Business academic consulting project with Mahindra University,
Program and curriculum development for Computational Business Analytics degree.

Cornell SC Johnson College of Business academic consulting project with VinUniversity,
Course development – Database and Big Data.

PROFESSIONAL ASSOCIATIONS

Institute for Operations Research and the Management Sciences (INFORMS)
Institute of Industrial and Systems Engineers (IISE)