

**Mohammad Ali Alamdar Yazdi, Ph.D.**  
Johns Hopkins Carey Business School  
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## Research Interests

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Data Visualization, Big Data Analytic, Data Mining, Machine Learning, Statistical Analysis

## Education

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Ph.D., Industrial Engineering and Systems Engineering, Auburn University, Auburn, AL, August 2018

Dissertation Title: "A Web-Based Personal Driving Assistant Using Real-Time Data and a Dynamic Programming Model"

Advisor: Dr. Fadel M. Megahed

M.Sc., Computer Science and Software Engineering, Auburn University, Auburn, AL, May 2018

Thesis Title: "Optimization of split keyboard design for touchscreen devices"

Advisor: Dr. Cheryl D. Seals

M.Eng., Industrial Engineering and Systems Engineering, Auburn University, Auburn, AL, December 2015

B.Sc., Industrial Engineering, Sharif University of Technology, Tehran, Iran, July 2012

## Academic Experience

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Assistant Professor of Practice, Johns Hopkins Carey Business School, Baltimore, MD, September 2018 - present

## Teaching at Johns Hopkins Carey Business School

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- Instructed 67 sections encompassing 9 distinct courses, reaching over 2,400 master's students, with a predominant focus on programs in Business Analytics, Risk Management, Information Systems, Marketing, Finance, and Business Administration.

- Conducted classes in various formats, including in-person sessions at the Harbor East, Washington DC, and Homewood campuses, as well as remote, hybrid, and online delivery methods.
- Served as the course leader for three courses: Data Visualization, Online Data Visualization, and Data Science: Big Data Consulting Project.
- Designed and developed three distinct versions of the Data Visualization Course, each of which consistently ranked among the top 5 in terms of enrollment numbers for elective courses during AY 2022-2023.
- Organized and facilitated three programming workshops to enhance students' skillsets.

### Courses

1. BU.667.310 Business Analytics and Statistics – Homewood (Undergraduate)  
Majorly revised the course in 2023.  
Semesters: Fall 2023
2. BU.520.650 Data Visualization (MS, Flex MBA)  
*Course Lead*  
More than 700 MBA and MS students in 21 sections.  
Designed and Developed this course in 2019 for the first time at Carey.  
Majorly revised the course by changing the tool used in the course from R to Tableau in 2023.  
Guided students in the creation of over 150 web applications. Links to projects: [R Projects](#), [Tableau Projects](#).  
Semesters: Summer 2023, Summer 2022, Summer 2021, Summer 2020, Summer 2019
3. BU.510.650 Data Analytics – Online (Flex MBA)  
Semesters: Spring 2023
4. BU.920.623 Data Science: Big Data Consulting Project (Full-time MBA)  
*Course Lead*  
Leading Full-Time MBA students in collaboration with the McCormick Company on a real-world project.  
Semesters: Spring 2024, Spring 2023
5. BU.510.615 Python for Data Analysis (MS)  
Semesters: Spring 2024, Spring 2023, Spring 2022
6. BU.510.650 Data Analytics (MS, Full-time MBA)  
More than 700 MS and MBA students in 21 sections.  
Semesters: Fall 2023, Fall 2022, Spring 2022, Fall 2021, Fall 2020, Fall 2019, Spring 2019.

7. BU.510.601 Statistical Analysis (MS, Flex MBA)  
Semesters: Fall 2022

8. BU.520.650 Data Visualization – Online (Flex MBA)  
*Course Lead*  
Designed and Developed the online version of the course in 2021.  
Semesters: Summer 2021

9. BU.610.625 Simulation and Strategic Options (MS, Full-time MBA)  
Semesters: Spring 2020, Spring 2019.

### Workshops

- 5-day Python Crash Course for MS Marketing and MBA students, March 2023.
- 1-day R Workshop, MS Business Analytics and Risk Management Orientation, August 2021.
- 2-day Data Science Bootcamp, FT MBA Foundations Week, August 2020.

### **Teaching at Auburn University**

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Instructor of the following courses:

- Probability and Statistics II (Fall 2017)
- Introduction to Computing Lab for Matlab (Spring 2016)

Teaching Assistant for the following courses:

- Introduction to Computing for Matlab (Fall 2015)
- Probability and Statistics I (Fall 2012, Spring 2013, Fall 2013, Fall 2014)
- Engineering Economy (Spring 2014)

### **Peer-Reviewed Journal Publications**

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Dada, M., Vishal Mundly, V., Chambers, C., **Alamdard Yazdi, M. A.**, Ha, C., Toporcer, S., Zhou, Y., Gan, Y., Xing, Z., Mooney, M., Smith, E., Kumian, E., Williams, K. (2022). Managing prior approval for site-of-service referrals: an algorithmic approach. *BMC Health Services Research*, 22(1), 1-7.

Cai, M., Mehdizadeh, A., Hu, Q., **Alamdard Yazdi, M. A.**, Vinel, A., Davis, K. C., ... & Rigdon, S. E. (2022). Hierarchical point process models for recurring safety critical events involving

commercial truck drivers: A reliability framework for human performance modeling. *Journal of Quality Technology*, 54(4), 466-484.

Mehdizadeh, A., **Alamdar Yazdi, M. A.**, Cai, M., Hu, Q., Vinel, A., Rigdon, S. E., ... & Megahed, F. M. (2021). Predicting unsafe driving risk among commercial truck drivers using machine learning: lessons learned from the surveillance of 20 million driving miles. *Accident Analysis & Prevention*, 159, 106285 (1-12).

Cai, M., **Alamdar Yazdi, M. A.**, Mehdizadeh, A., Hu, Q., Vinel, A., Davis, K., ... & Rigdon, S. E. (2021). The association between crashes and safety-critical events: Synthesized evidence from crash reports and naturalistic driving data among commercial truck drivers. *Transportation Research Part C: Emerging Technologies*, 126, 103016 (1-19).

Mehdizadeh, A., Cai, M., Hu, Q., **Alamdar Yazdi, M. A.**, Mohabbati-Kalejahi, N., Vinel, A., ... & Megahed, F. M. (2020). A review of data analytic applications in road traffic safety. Part 1: Descriptive and predictive modeling. *Sensors*, 20(4), 1107 (1-24).

Hu, Q., Cai, M., Mohabbati-Kalejahi, N., Mehdizadeh, A., **Alamdar Yazdi, M. A.**, Vinel, A., ... & Megahed, F. M. (2020). A review of data analytic applications in road traffic safety. Part 2: Prescriptive modeling. *Sensors*, 20(4), 1096 (1-19).

**Alamdar Yazdi, M. A.**, Negahban, A., Cavuoto, L., & Megahed, F. M. (2019). Optimization of split keyboard design for touchscreen devices. *International Journal of Human-Computer Interaction*, 35(6), 468-477.

Mohabbati-Kalejahi, N., **Alamdar Yazdi, M. A.**, Megahed, F. M., Schaefer, S. Y., Boyd, L. A., Lang, C. E., & Lohse, K. R. (2017). Streamlining science with structured data archives: insights from stroke rehabilitation. *Scientometrics*, 113, 969-983.

Maman, Z. S., **Alamdar Yazdi, M. A.**, Cavuoto, L. A., & Megahed, F. M. (2017). A data-driven approach to modeling physical fatigue in the workplace using wearable sensors. *Applied Ergonomics*, 65, 515-529.

## Working Papers and Journal Submissions

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Dada, M., Chambers, C., **Alamdar Yazdi, M. A.**, Herman, J., DeWeese, H., Williams, K., Case Article Real Time Location Systems and Radiation Oncology Clinic Expansion (under major revision at the *INFORMS Transactions on Education*)

Dada, M., Chambers, C., **Alamdar Yazdi, M. A.**, Herman, J., DeWeese, H., Williams, K., Real Time Location Systems and Radiation Oncology Clinic Expansion (under major revision at the *INFORMS Transactions on Education*)

**Alamdar Yazdi, M. A.,** Dada, M., Case Article City of Hamilton: Fuel Procurement Improvement Project (2023)

**Alamdar Yazdi, M. A.,** City of Hamilton: Fuel Procurement Improvement Project (2023)

Chambers, C., **Alamdar Yazdi, M. A.,** Case Article-Retirement Planning & Management of Risk (2022)

Chambers, C., **Alamdar Yazdi, M. A.,** Retirement Planning & Management of Risk (2022)

## **Conference Presentations and Talks**

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Data Visualization: A Key Skill for Modern Professional, Rensselaer Polytechnic Institute, Troy, NY, September 2023.

“Predicting unsafe driving risk among commercial truck drivers using machine learning: lessons learned from the surveillance of 20 million driving miles”

- INFORMS Annual Meeting, Seattle, WA, October 2019.
- INFORMS Annual Meeting, Houston, TX, October 2017.
- INFORMS Annual Meeting, Nashville, TN, October 2016.

“Optimization of split keyboard design for touchscreen devices”

- IIE Annual Conference and Expo, IIE, Nashville, TN, June 2015.
- This is Research: Student Symposium, Auburn University, AL, April 2015.
- Graduate Engineering Research Showcase, Auburn University, AL, October 2014.

## **Service at Johns Hopkins Carey Business School**

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Member, Student Speaker Selection Committee, 2023

Member, Curriculum Subcommittee for Operations Management and Business Analytics, 2022 - present

Member, Academic Ethics Board, 2022 - present

Member, Strategic IT Committee, 2020 – 2023

Member, Operations Management and Business Analytics Practice Track Faculty Hiring, 2022

## **Awards**

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Dean's Award for Faculty Excellence at Carey Business School, AY 2022, AY 2023

Carey Teaching Innovation Grant, 2023

Outstanding Ph.D. Student of Department of Industrial and Systems Engineering, Auburn University, Auburn, AL, 2018.

## **Computer Skills**

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Python, R, Excel, MySQL, Tableau, HTML, CSS, JavaScript, PHP, SPSS.

## **Organizations**

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Member, INFORMS, Institute for Operations Research and the Management Science, 2016-2020.

Member, POMS, Production and Operations Management Society, 2019.

Member, IISE, Institute of Industrial and Systems Engineers, 2015.