

ALI FATTAHI

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Position

- **Assistant Professor**
Business Analytics and Operations Management,
Johns Hopkins Carey Business School, Baltimore, MD, Aug. 2019 – present.

Education

- **UCLA Anderson School of Management, Los Angeles, CA**
Ph.D. in Decisions, Operations & Technology Management, Sept. 2014 – May 2019
- **Koc University, Istanbul, Turkey**
M.Sc. in Industrial Engineering, Sept. 2011 – Aug. 2014
- **Sharif University, Tehran, Iran**
B.Sc. in Industrial Engineering, Sept. 2007 – July 2011

Research Interests

- **Applications.** Energy management; Sustainability; Healthcare; Mass customization.
- **Methodologies.** Large-scale optimization; Approximation algorithms; Machine learning; Artificial Intelligence.

Awards, Fellowships, and Grants

- *JHU Carey Community Event Fund Award (with A. Eshragh and Y. Li)*, Fall 2023.
- *JHU Carey General Research Support Fund Award*, Spring 2023, Fall 2023.
- *JHU Carey Dean's Award for Faculty Excellence*, 2021, 2022, 2023.
- *2nd Place*, POMS College of Sustainable Operations 2018 Best Student Paper Competition.
- *Finalist*, POMS College of Supply Chain Management 2018 Best Student Paper Competition.
- *Dissertation Year Fellowship*, UCLA Graduate Education, Sept. 2018 – June 2019.
- *Harold and Pauline Price Center for Entrepreneurship and Innovation*, 2016 – 2017.
- *Ziman Center's Howard and Irene Levine Program*, 2016 – 2017.
- *Morrison Center for Marketing and Data Analytics*, 2017 – 2018.
- *Geoffrion Art's fund for applied research*, 2015 – 2017.

Published Papers

1. Fattahi, A, Ghodsi, S, Dasu, S, Ahmadi, R (2022) Flattening Energy-Consumption Curves by Monthly-Constrained Direct Load Control Contracts. *Operations Research*. Articles In Advance.
2. Fattahi, A, Dasu, S, Ahmadi, R (2023) Peak Load Energy Management by Direct Load Control Contracts. *Management Science*. 69(5): 2788-2813.
 - *2nd Place*: POMS College of Sustainable Operations 2018 Best Student Paper Competition.
3. Fattahi, A, Dasu, S, Ahmadi, R (2022) Mass Customization and the “Parts-Procurement Planning Problem.” *Management Science*. 68(8): 5778-5797.

4. Rasmi, SAB, Fattahi, A, Turkay, M (2021) SASS: Slicing with Adaptive Steps Search Method for Finding All Non-Dominated Solutions of Tri-Objective Mixed-Integer Linear Programming Problems. *Annals of Operations Research*. 296: 841–876.
5. Fattahi, A, Dasu, S, Ahmadi, R (2019) Mass Customization and “Forecasting Options’ Penetration Rates Problem.” *Operations Research*. 67(4): 1120–1134.
 - *Finalist*: POMS College of Supply Chain Management 2018 Best Student Paper Competition.
6. Fattahi, A, Dasu, S, Ahmadi, R (2019) The Weighted Non-Negative Least-Squares Problem with Implicitly Characterized Points. *Operations Research*. 67(4): 1106–1119.
7. Fattahi, A, Turkay, M (2018) A One Direction Search Method to Find the Exact Nondominated Frontier of Biobjective Mixed-Binary Linear Programming Problems. *European Journal of Operational Research*. 266(2): 415-425.
8. Fattahi, A, Turkay, M (2015) On the MILP model for the U-shaped assembly line balancing problems. *European Journal of Operational Research*. 242(1): 343-346.
9. Fattahi, A, Turkay, M (2015) ϵ -OA for the solution of bi-objective generalized disjunctive programming problems in the synthesis of nonlinear process networks. *Computers & Chemical Engineering*. 72: 199-209.
10. Fattahi, A, Elaoud, S, Sadeqi Azer, E, Turkay, M (2014) A novel integer programming formulation with logic cuts for the U-shaped assembly line balancing problem. *International Journal of Production Research*. 52(5): 1318-1333.

Working Papers

1. Fattahi, A (2022) Utilities’ Managed Home-Charging Programs for Electric Vehicles. *Management Science*. Reject & Resubmit. **(solo-author)**
2. Fattahi, A, Li, Y, Sahin, O (2022) Customer-driven Bundle Promotion Optimization at Scale. *Management Science*. Reject & Resubmit.
3. Fattahi, A, Dada, M, Dai, T (2022) A Subscription Model for Prescription Drugs.
4. Fattahi, A., Eshragh, A., Aslani, B., Rabiee, M (2022) Large-Scale Group Decision-Making and Rank Clustering.
5. Fattahi, A, Dasu, S, Ahmadi, R (2022) Implementing Flexible Contracts Under Stochastic Demand and Fairness Policies. *Manuscript in Preparation*.

Invited Seminars

- “Utilities’ Managed Home-Charging Programs for Electric Vehicles.”
 - Lee Kong Chian School of Business, Singapore Management University, September 29, 2023.
 - George Mason University School of Business, September 15, 2023.
 - Carlos Alvarez College of Business, The University of Texas at San Antonio, May 6, 2022.
- “Mass Customization and the Parts’ Capacity Planning Problem.”
 - Katz School of Business, University of Pittsburgh, January 30, 2019.
 - NYU Stern School of Business, January 28, 2019.
 - Miami Herbert Business School, January 23, 2019.
 - Leeds School of Business, University of Colorado Boulder, January 18, 2019.
 - Kelley School of Business, Indiana University, January 15, 2019.
 - Carey Business School, Johns Hopkins University, January 11, 2019.

- California State University, East Bay, December 12, 2018.
- Carroll School of Management, Boston College, December 7, 2018.
- *“Peak Load Energy Management by Direct Load Control Contracts.”*
 - Carey BS, Diving into the Disciplines, October 28, 2019, Baltimore, MD.

Conference Presentations

- *“Utilities’ Managed Home-Charging Programs for Electric Vehicles.”*
 - INFORMS, October 15-18, 2023, Phoenix, AZ (session co-organizer and co-chair).
 - MSOM, June 24-26, 2023, Montreal, Canada (extended abstract).
 - POMS, May 21-25, 2023, Orlando, FL (invited).
 - INFORMS, October 16-19, 2022, Indianapolis, IN (invited).
- *“Customer-driven Bundle Promotion Optimization at Scale.”*
 - 2021 INFORMS RMP Conference, June 28-30, 2021, Virtual (invited).
- *“A Subscription Model for Prescription Drugs.”*
 - POMS, April 30 - May 5, 2021, Virtual (invited).
- *“A Reduce-to-Threshold Approach to Direct Load Control Contracts with Monthly Constraints.”*
 - INFORMS, October 24-27, 2021, Virtual (invited).
 - POMS, April 30 - May 5, 2021, Virtual (invited).
 - INFORMS, NOVEMBER 7-13, 2020, Virtual (invited).
 - INFORMS, October 20-23, 2019, Seattle, WA (invited).
- *“Mass Customization and the Parts’ Capacity Planning Problem.”*
 - POMS, April 21-25, 2022, Virtual (invited).
 - MSOM, June 5-10, 2021, Virtual.
 - INFORMS, November 4-7, 2018, Phoenix, AZ (session organizer and chair).
- *“Mass Customization and Forecasting Options’ Penetration Rates Problem.”*
 - MSOM, July 1-3, 2018, Dallas, TX.
 - SoCal OR/OM Day, May 18, 2018, Los Angeles, CA (invited).
 - POMS, May 4-7, 2018, Houston, TX (paper competition).
- *“Peak Load Energy Management by Direct Load Control Contracts.”*
 - INFORMS, November 4-7, 2018, Phoenix, AZ (session organizer and chair).
 - POMS, May 4-7, 2018, Houston, TX (invited).
 - INFORMS, October 22-25, 2017, Houston, TX.
 - MSOM, June 20-21, 2017, Chapel Hill, NC.
 - POMS, May 5-8, 2017, Seattle, WA (invited).
- *“Bi-Objective Hub Location-Allocation Problem: Min. Cost and Min. CO₂ Emissions.”*
 - International IIE Conference, June 26-28, 2013, Istanbul, Turkey.
- *“A Novel Integer Programming Formulation for U-Shaped Line Balancing Problems Type-1.”*
 - 21st ISMP, August 19-24, 2012, Berlin, Germany.
- *“Road-Rail-Sea Hub Location-Allocation with Sustainability Considerations.”*

—EURO 2012 (EURO xxv), July 8-11, 2012, Vilnius, Lithuania.

Teaching

- *Course Design, Course Lead, and Instructor.*
 - Advanced Business Analytics, Fall 2019 - present.
 - Online Advanced Business Analytics, Summer 2021 - Spring 2022.
- *Faculty Advisor*, Innovation Field Project, Spring 2021 - Spring 2022.

PhD Thesis Committee

• Muhammad Irfan Azhar. *Advanced Algorithms and Solution techniques for U-shaped Assembly Line Balancing problems*. Koc University, Istanbul, Turkey. September 2023.

Referee

- Management Science
- Operations Research
- Production and Operations Management
- INFORMS Journal on Applied Analytics
- INFORMS Journal on Computing
- Journal of the Operational Research Society
- Omega
- OR Spectrum
- The International Journal of Management Science

Service

- Chair, Early Career Sustainable OM Workshop 2026. (Scheduled)
- Co-Track Chair, Service Systems and Operations, Decision Sciences Institute (DSI) Annual Conference, November 23 - 25, 2024, Phoenix, Arizona.
- Hopkins Business of Health Initiative (HBHI) Core Faculty, 2024 - .
- Committee Member, OMBA Tenure-Track Faculty Hiring, Carey BS, 2023 - 2024.
- Judge for 2024 MSOM Supply Chain Management Special Interest Group.
- Judge for 2024 MSOM Sustainable Operations Special Interest Group.
- Judge for 2024 POMS Best Healthcare Paper Competition.
- Promotion Review Committee, Carey BS, 2023 - 2024.
- Committee Member, 2023 ENRE Best Publication Award - Natural Resources.
- Judge for 2023 INFORMS TIMES Best Working Paper Award.
- Judge for 2023 POMS College of Sustainable Operations Student Paper Competition.
- Judge for 2023 MSOM Supply Chain Management Special Interest Group.
- Judge for 2023 MSOM Sustainable Operations Special Interest Group.
- Judge for 2023 POMS Best Healthcare Paper Competition.
- Work Group to Explore a Pre-doctoral Program, Carey BS, 2022 - 2023.
- *Mentor*. Carey Mentoring Initiative, Carey BS, 2022 - 2023.
- OMBA Curriculum Sub-committee, Carey BS, 2022 - 2024.
- Annual Faculty Evaluation Workgroup, Carey BS, Spring 2022.

- Online Faculty Partnership, Online Business Analytics, Carey BS, Spring 2022.
- Hiring Panel, Video Specialist Supervisor, Carey BS, Spring 2021.
- Hiring Committee, Post-doc in OMBA, Carey BS, Spring 2020, Spring 2022.
- Diversity and Inclusion Committee, Carey BS, 2021 - 2022.
 - Facilitator: *Professional Attire and Dress Codes*, Carey BS, April 8, 2022.
- Annual Faculty Evaluation and Promotion Workgroup (AFEPW). Carey BS. Spring 2022.
- Course Lead, Online Advanced Business Analytics, 2020 - Spring 2022.
- Seminar Organizer, OMBA, Carey BS, 2021 - present.
- Presenter, Learning Table Session for Staff, Carey BS, Nov 5, 2021.
- Judge for 2020 and 2021 INFORMS TIMES working paper competition.
- Judge for 2022 Production and Operations Management Society's College of Sustainable Operations.

Technical Skills and Languages

- *Optimization/Statistics*: R, GAMS, CPLEX.
- *Programming*: Java, C++, MATLAB.
- *Languages*: English, Farsi, Azerbaijani, Turkish.

References

- Professor Reza Ahmadi (Ph.D. advisor)
 - Decisions, Operations & Technology Management
 - UCLA Anderson School of Management, Los Angeles, CA.
 - Email: reza.ahmadi@anderson.ucla.edu
- Professor Sriram Dasu
 - Data Sciences and Operations
 - USC Marshall School of Business, Los Angeles, CA.
 - Email: dasu@marshall.usc.edu
- Professor Charles Corbett
 - Decisions, Operations & Technology Management
 - UCLA Anderson School of Management, Los Angeles, CA.
 - Email: charles.corbett@anderson.ucla.edu