Abolfazl Taghavi

Los Angeles, CA
(+1) 310-760-6617
abolfazl.taghavi.phd@anderson.ucla.edu

Education

University of California, Los Angeles Jan 2022 - Jun 2027
Ph.D. in Operations Management
- Committee: Reza Ahmadi (co-chair), Sriram Dasu (co-chair), Lieven Vandenberghe, Charles Corbett, Kumar Rajaram, Ali Fattahi

Sharif University of Technology Sep 2016 - Jan 2021
B.Sc. in Industrial Engineering

Research Interest

Application: Wildfire prevention, sustainable operations, power systems.

Methodology: Stochastic optimization, large scale optimization, reinforcement learning

Recent Papers

1. **A. Taghavi**, A. Fattahi, S. Dasu, R. Ahmadi. *Preventing Catastrophic Wildfires: Annual Grid Inspection and Maintenance Plan*. Under Review, **Operations Research**. [Link]
   - Media coverage: UCLA Anderson Review
   - Accepted for **Early-Career Sustainable Operations Workshop** (Flash Talk), 2026

2. **A. Taghavi**, A. Fattahi, S. Dasu, R. Ahmadi. *Fair Dynamic Load Control Scheduling under Stochastic Energy Demand*. In preparation for submission to **Management Science**.

3. **A. Taghavi**, S. Dasu, R. Ahmadi. *Learning to Prevent Utility-Caused Wildfires through Sequential Inspection and Maintenance*. **Working paper.**

Pre-PhD Publications

1. **A. Taghavi**, S. H. J. Kang, M. Eslami, P. Dadras. *Optimal Agent Framework: A Novel, Cost-Effective Model Articulation to Fill the Integration Gap between Agent-Based Modeling and Decision-Making. Complexity*, 2021. [Link]

2. **A. Taghavi**, AH. Sadeghi, H. Zare, SH. Khaleghparast *Water Resources Dynamics: Chabahar Free-zone Case Study*. Proceedings of the International Conference on Industrial Engineering and Operations Management (IEOM), 2020. [Link]

3. **A. Taghavi**, AH. Sadeghi, H. Zare. *Scenario Assessment for COVID-19 Outbreak in Iran: A Hybrid Simulation–Optimization Model for Healthcare Capacity Allocation*. In: *The Science behind the COVID Pandemic and Healthcare Technology Solutions* (Book Chapter), 2022. [Link]

Teaching Experience

University of California, Los Angeles Jan 2023 - June 2025
Teaching Assistant
- **Business Analytics with Spreadsheets**, Prof. Reza Ahmadi
- **Data Analytic Industry Seminar**, Prof. Felipe Caro

Sharif University of Technology Sep 2019 - Jan 2021
Teaching Assistant (graduate and undergraduate courses)
- **System Dynamics**
- **System Analysis I**
- **Statistical Quality Control**
- **Simulation Languages**
- **Computer Information Systems**
- **Facility Planning**

INVITED TALKS	INFORMS Annual Meeting, Atlanta, GA (October 2025)
	SoCal OR/OM Day, Irvive, CA (May 2025)
	Annual POMS Conference, Atlanta, GA (May 2025)
	INFORMS Annual Meeting, Seattle, WA (October 2024)
	INFORMS Annual Meeting, Phoenix, AZ (October 2023)
	INFORMS Annual Meeting, Indianapolis, IN (October 2022)

AWARDS AND HONORS	Five year Anderson Ph.D. Fellowship, UCLA
	UCLA Easton Center Research Award
	UCLA Academic Senate's Council on Research Grant
	UCLA Fink Center for Finance Grant
	UCLA Anderson DOTM Area Travel Grant
	Top 10 in GPA at Sharif University of Technology

SKILLS	**Optimization**: GAMS, Cplex, AMPL.
	Programming: Python, Java, MATLAB, C++.
	Simulation: AnyLogic, Vensim, NetLogo.
	Data Visualization: Tableau, Power BI
	Languages: English, Farsi

ACADEMIC SERVICES	**Journal Referee**: INFORMS TutORials in Operations Research, Journal of Applied Research on Industrial Engineering,
	Conference Session Chair: POMS 2026
	Membership: INFORMS, POMS, IEEE

REFERENCES

Reza Ahmadi
Professor of Decisions, Operations &
Technology Management
UCLA Anderson School of Management
Los Angeles, CA, USA
reza.ahmadi@anderson.ucla.edu

Sriram Dasu
Professor of Data Sciences &
Operations
USC Marshall School of Business
Los Angeles, CA, USA
sdasu@marshall.usc.edu

Kumar Rajaram
Professor of Decisions, Operations &
Technology Management
UCLA Anderson School of Management
Los Angeles, CA, USA
kumar.rajaram@anderson.ucla.edu

Ali Fattahi
Assistant Professor of Operations
Management & Business Analytics
Johns Hopkins Carey Business School
Baltimore, MD, USA
ali.fattahi@jhu.edu