

# ABOLFAZL TAGHAVI

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EDUCATION	<b>University of California, Los Angeles</b> <i>Ph.D. in Operations Management</i>	Jan 2022 - Jun 2027
	<ul style="list-style-type: none"><li>Committee: Reza Ahmadi (co-chair), Sriram Dasu (co-chair), Lieven Vandenberghe, Charles Corbett, Kumar Rajaram, Ali Fattahi</li></ul>	
	<b>Sharif University of Technology</b> <i>B.Sc. in Industrial Engineering</i>	Sep 2016 - Jan 2021
RESEARCH INTEREST	Stochastic optimization, large-scale optimization, reinforcement learning, multi-armed bandit, approximate dynamic programming, Data-driven optimization	
RECENT PAPERS	<ol style="list-style-type: none"><li>1. A. Taghavi, A. Fattahi, S. Dasu, R. Ahmadi. <i>Preventing Catastrophic Wildfires: Annual Grid Inspection and Maintenance Plan</i>. Under review, <b>Operations Research</b>. [Link]<ul style="list-style-type: none"><li>• Developed scalable optimization models for prioritization under uncertainty; implemented and tested on large real-world instances.</li><li>• Media coverage: UCLA Anderson Review</li></ul></li><li>2. A. Taghavi, A. Fattahi, S. Dasu, R. Ahmadi. <i>Fair Dynamic Load Control Scheduling under Stochastic Energy Demand</i>. In preparation for submission to <b>Operations Research</b>.</li><li>3. A. Taghavi, S. Dasu, R. Ahmadi. <i>Learning to Prevent Utility-Caused Wildfires through Sequential Inspection and Maintenance</i>. Working paper.</li></ol>	
PRE-PHD PUBLICATIONS	<ol style="list-style-type: none"><li>1. A. Taghavi, S. H. J. Kang, M. Eslami, P. Dadras. <i>Optimal Agent Framework: A Novel, Cost-Effective Model Articulation to Fill the Integration Gap between Agent-Based Modeling and Decision-Making</i>. Complexity, 2021. [Link]</li><li>2. A. Taghavi, AH. Sadeghi, H. Zare, SH. Khaleghparast. <i>Water Resources Dynamics: Chabahar Free-zone Case Study</i>. Proceedings of the International Conference on Industrial Engineering and Operations Management (IEOM), 2020. [Link]</li><li>3. A. Taghavi, AH. Sadeghi, H. Zare. <i>Scenario Assessment for COVID-19 Outbreak in Iran: A Hybrid Simulation–Optimization Model for Healthcare Capacity Allocation</i>. In: <i>The Science behind the COVID Pandemic and Healthcare Technology Solutions</i> (Book Chapter), 2022. [Link]</li></ol>	
TEACHING EXPERIENCE	<b>University of California, Los Angeles</b> <i>Teaching Assistant</i> <ul style="list-style-type: none"><li>• Business Analytics with Spreadsheets, Prof. Reza Ahmadi</li><li>• Data Analytic Industry Seminar, Prof. Felipe Caro</li></ul> <b>Sharif University of Technology</b> <i>Teaching Assistant (graduate and undergraduate courses)</i> <ul style="list-style-type: none"><li>• System Dynamics</li><li>• System Analysis I</li><li>• Statistical Quality Control</li><li>• Simulation Languages</li><li>• Computer Information Systems</li><li>• Facility Planning</li></ul>	Jan 2023 - June 2025 Sep 2019 - Jan 2021
SKILLS	Optimization: Gurobi, GAMS, Cplex, AMPL. Programming: Python, Java, MATLAB, C. Simulation: AnyLogic, Vensim, NetLogo. Data Visualization: Tableau, Power BI.	

## INVITED TALKS

- Early-Career Sustainable Operations Workshop, Dallas, TX (February 2026)  
INFORMS Annual Meeting, Atlanta, GA (October 2025)  
SoCal OR/OM Day, Irvine, 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

## 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**  
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**Ali Fattahi**  
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