

Erfan Amani Bani

Present Address

London Business School
Sussex Place
Regent's Park, London

Contact Info

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 (+44) 735 379 9268

Education

- **Doctor of Philosophy, Management Science and Operations**
London Business School, 2025 – 2030 (Expected)
- **Master of Science, Industrial Engineering (Optimization Methods)**
Sharif University of Technology, 2023 – 2025
- **Bachelor of Science, Industrial Engineering**
Sharif University of Technology, 2019 – 2023

Research

Interests

Theory: Operations Research

Application: Healthcare Operations Management, Supply Chain Design, Route Planning, Pricing and Revenue Management, Scheduling

Publications

Ali Fallahi, Erfan Amani Bani, and Mohsen Varmazyar. “Towards sustainable scheduling of unrelated parallel batch processors: A multiobjective approach with triple bottom line, classical and data-driven robust optimization”. In: *Computers & Operations Research* 173 (2025), p. 106863.

Erfan Amani Bani, Ali Fallahi, Mohsen Varmazyar, and Mahdi Fathi. “Designing a sustainable reverse supply chain network for COVID-19 vaccine waste under uncertainty”. In: *Computers & Industrial Engineering* 174 (2022), p. 108808.

Ali Fallahi, Erfan Amani Bani, and Seyed Taghi Akhavan Niaki. “A constrained multi-item EOQ inventory model for reusable items: Reinforcement learning-based differential evolution and particle swarm optimization”. In: *Expert Systems with Applications* 207 (2022), p. 118018.

Work

Experience

Snapp!

Mar. 2025 – Sep. 2025

Senior AI Developer

Snapp! is the largest ride-hailing and delivery platform in Iran, with more than 70 million users and over 2 million active drivers. I developed and deployed optimization and AI-based solutions to improve large-scale operational performance in this high-volume environment.

FLYTZI	Feb. 2024 – Feb. 2025
<i>Co-founder and Optimization Engineer</i>	
Co-founded FLYTZI, a mid-mile logistics platform that intelligently matches vendors with drivers. Contributed to building optimization engines for routing and parcel loading.	
Academic Experience	
Review Service	Sep. 2022 – Sep. 2025
Reviewer for <i>Transportation Research: Part E, Expert Systems with Applications</i> , and <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> .	
Teaching Experience (Sharif University of Technology)	2022 – 2025
Head Teaching Assistant: Engineering Statistics, Engineering Economics, Plant Layout, Project Control, Transportation Planning, Simulation Principles.	
Teaching Assistant: Dynamic Programming, Operations Research I, Probability Theory and Applications, Python Programming.	
Service & Volunteering	
Game Design and Development Team Lead, Gamein	2022 – 2023
Led game design and product development for a major educational event with 3,300+ participants.	
Skills	
Programming: Python, GAMS, R, SQL, L ^A T _E X, Matlab, Julia, Git	
Languages: Persian (Native), English (Fluent)	
Honors and Awards	
<ul style="list-style-type: none"> • Awarded direct admission to Master's program due to high GPA. • Ranked in top 0.2% of national university entrance exam. 	