Erfan Amani Bani

London Business School

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Education

London Business School	London, UK
Ph.D. in Management Science and Operations	2025 – 2030 (Expected)
Sharif University of Technology	Tehran, Iran
M.Sc. in Industrial Engineering (Optimization Methods)	2023 – 2025
Sharif University of Technology	Tehran, Iran
B.Sc. in Industrial Engineering	2019 – 2023

Research Interests

Methodology: Operations Research, Optimization Theory

Applications: Healthcare Operations, Supply Chain Design, Last-Mile Logistics, Pricing & Revenue Management

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.

Professional Experience

Snapp! (Largest platform in the Middle East) Mar. 2025 – Sep. 2025

Senior AI Developer

- Developed behavioural prediction models to underpin incentive schemes for more than 2M drivers.
- Developed and deployed optimization engines for call-centre workforce scheduling.
- Engineered AI solutions to improve large-scale operational performance and reduce latency in customer service operations.
- Built prediction models to identify multihoming drivers.

FLYTZI Feb. 2024 – Feb. 2025

Co-founder and Optimization Engineer

- Co-founded a mid-mile logistics platform connecting vendors with drivers for parcel delivery.
- Built core algorithms for vehicle routing and 3D parcel loading.

Academic Service	**Peer Review Service**

Reviewer for: *Transportation Research: Part E*, *Expert Systems with Applications*, *IEEE Transaction on Pattern Analysis and Machine Intelligence*.

Teaching Experience (Sharif University of Technology) 2022 – 2025

Head Teaching Assistant: Engineering Statistics, Engineering Economics, Plant Layout, Project Control.

Teaching Assistant: Dynamic Programming, Operations Research I, Probability Theory, Python.

Leadership | **Gamein (Gamified Education Event)** 2022 – 2023

Game Design and Development Team Lead

Led product development for a nationwide educational simulation event with over 3,300 participants.

Skills | **Programming:** Python, GAMS, R, SQL, LaTeX, Matlab, Julia, Git

Languages: Persian (Native), English (Fluent)

Honors

- Awarded direct admission to M.Sc. program (Talented Student Quota) for exceptional GPA.
- Ranked in top **0.2%** of the National University Entrance Exam (Konkur) among 150,000+ candidates.