

Erfan Amani Bani

London Business School
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 [Google Scholar Profile](#)
 [LinkedIn Profile](#)

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

- [1] 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.
- [2] 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.
- [3] 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

FLYTZI

Feb. 2024 – Feb. 2025

Co-founder and Optimization Engineer

Co-founded FLYTZI, a mid-mile logistics platform that intelligently matches vendors with van and truck drivers. Played a key role in developing an optimization engine that finds optimal routes and feasible parcel-loading arrangements for vehicles.

Academic Experience

Review Service

Sep. 2022 – Sep. 2025

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

Teaching Experience (Sharif University of Technology) Sep. 2022 – Sep. 2025

Head Teaching Assistant: Engineering Statistics, Engineering Economics, Plant Layout, Project Control, Transportation Planning, Simulation Principals.

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

**Service &
Volunteering**

Game Design and Development Team Lead, Gamein Jul. 2022 – Jun. 2023

Served as product manager and lead for game design for Gamein, a prominent annual student educational event in supply chain management. Helped increase participation to over 3,300 people (largest student event in the country).

Skills

Programming: Python, GAMS, R, SQL, L^AT_EX, Matlab, Julia, Git

Languages: Persian (Native), English (Fluent)

**Honors and
Awards**

- Awarded direct admission to Master's program (Sharif UT) due to high GPA.
- Ranked **1st** GPA (4-point scale) within first three years of BSc.
- Ranked **2nd** GPA (20-point scale) in BSc.
- Ranked in top **0.2%** of national university entrance exam.