

# ERFAN NEJATI

Ph.D. Student in Operations Management and Statistics

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🌐 [erfannejati](#)

🎓 Erfan Nejati

## EDUCATION

**Ph.D. Student in Operations Management and Statistics** Sep 2024 - Present  
*Rotman School of Management — University of Toronto* Toronto, Canada

**M.Sc. in Industrial Engineering – Systems Optimization** Jun 2022  
*University of Tehran* Tehran, Iran

- GPA: 18.48/20 (4/4)
- Thesis on Developing a Machine Learning-based Simulation-Optimization method for dynamic scheduling problem in a photolithography workstation under industry 4.0 environment.
- Supervisor: Prof. S.A. Torabi

**B.Sc. in Industrial Engineering** Sep 2020  
*Iran University of Science and Technology\** Tehran, Iran

- GPA: 18.93/20 (3.94/4), ranked 1<sup>st</sup> among 72 students in my graduating class.
- Final Project on Comparison of Natural Language Processing approaches on Persian textual data of social networks–Telegram Messenger.
- Supervisor: Prof. M. Rasouli

## TEACHING and ACADEMIC EXPERIENCE

**Teaching Assistant** Dec 2024 – Present  
*Rotman School of Management — University of Toronto* Toronto, Canada

- RSM8423: Optimizing Supply Chain Management Logistics (MMA)
- RSM8432: Management Analytics Practicum (MMA)

**Teaching and Research Assistant** Sep 2018 – Feb 2023  
*Iran University of Science and Technology* Tehran, Iran

- RA at Optimization and Meta-heuristic Algorithms Lab
- Statistics for Engineering Students (Undergraduate)
- Accounting and Costing Methodologies (Undergraduate)

## PUBLICATIONS

### Published

- **Nejati, E.**, Ghaedy-Heidary, E., Ghasemi, A., & Torabi, S.A. (2024). A machine learning-based simulation metamodeling method for dynamic scheduling in smart manufacturing systems. *Computers & Industrial Engineering*. [↗](#)
- Ghaedy-Heidary, E., **Nejati, E.**, Ghasemi, A., & Torabi, S.A. (2023). A Simulation Optimization Framework to Solve Stochastic Flexible Job-shop Scheduling Problems–Case: Semiconductor Manufacturing. *Computers & Operations Research*. [↗](#)
- Maleki, A., **Nejati, E.**, Aghsami, A., & Jolai, F. (2023). Developing a supervised learning-based simulation method as a decision support tool for rebalancing problems in bike-sharing systems. *Expert Systems with Applications*, p.120983. [↗](#)
- Torabzadeh, S. A., **Nejati, E.**, Aghsami, A., & Rabbani, M. (2022). A dynamic multi-objective green supply chain network design for perishable products in uncertain environments, the coffee industry case study. *International Journal of Management Science and Engineering Management*, 1-18. [↗](#)

- Khoshabi, P., **Nejati, E.**, Ahmadi, S. F., Chegini, A., Makui, A., & Ghousi, R. (2020). Developing a Multi-Criteria Decision Making approach to compare types of classroom furniture considering mismatches for anthropometric measures of university students. *PloS one*, 15(9), e0239297. [↗](#)

## HONORS and AWARDS

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- Awarded the Rotman School of Management Fellowship (Sep 2024)
- Granted The Privilege of Studying Master's Degree without Taking the National University Entrance Exam, University of Tehran (Sep 2020)
- Student of The Year, Iran University of Science and Technology (2017, 2018, and 2019)
- Winner of Gamein Competition, Sharif University of Technology (Aug 2018)

## WORK EXPERIENCE

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### Business Analyst

Mar 2022 – Aug 2023

*Active Cleaners* [↗](#)

*Tehran, Iran*

- I joined Active Cleaners, a next-generation online laundry and dry cleaning service, at its early stage of development. We designed a modern laundry factory and real-time RFID-based solutions for both laundry and delivery operations, empowering the company to maintain high-quality service for more than 3000 cloth items daily.

### Business Analyst

Jul 2021 – Dec 2021

*Snappfood* [↗](#)

*Tehran, Iran*

- Snappfood is Iran's first and largest online food delivery platform, with over 200,000 delivered orders per day. As a business analyst, I was engaged in projects aiming to facilitate real-time coordination between an extensive network of restaurants, delivery fleets, and customers, ensuring efficient and optimized ordering and delivery processes. This included a wide range of data-driven approaches, from designing, measuring, and monitoring KPIs to developing an algorithm to ensure the optimum allocation of orders to bikers in the fleet.

## SKILLS

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### Computer Skills

- **Python:** Object Oriented Programming for efficient simulations and optimization/PuLP and Gurobi for mathematical programming/SKLearn and PyTorch for ML and ANN implementation/NLTK for basic Natural Language Processing/NumPy, Pandas, Matplotlib, and Plotly for data analysis/MySQL-Connector for database management.
- **R (Programming language):** Statistical Analysis and Data Representation.
- **MySQL:** Understanding Data Models/Designing Databases/Loading and Querying Data.
- **GAMS:** Solving mathematical models.
- **MS Excel:** Creating and Using Macros/Performing Data Lookups/Creating and Managing Pivot Tables/Creating Applications and Functions with VBA.
- **Minitab:** Performing statistical analysis and tests/Working with ANOVA and Quality tools.
- **LaTeX:** Creating and adjusting academic and technical documents.
- Proficient in **MS Office**.

### Language Skills

- **Persian:** Native proficiency.
- **English:** Professional working proficiency.
  - TOEFL (**Total: 110**; Reading: 29, Listening: 26, Speaking: 30, Writing: 25) (Apr 2023)
  - GRE (**Total: 326**; Verbal: 157, Quantitative: 169, AWA: 4.0) (Aug 2023)