

# Lamia Gulnur Kasap-Simsek

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## RESEARCH INTERESTS

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Humanitarian logistics, supply chain management, and inventory management with a focus on prepositioning, stock sharing, postponement, and debris removal operations.

## EDUCATIONAL HISTORY

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Ph.D. in Industrial Engineering · 2024

**Ozyegin University, Graduate School of Science and Engineering, Istanbul, Türkiye**

Thesis: *Enhancing Efficiency in Humanitarian Prepositioning through Postponement and Stock Sharing*

Advisor: Prof. Burcu Balçık

M.Sc. in Industrial Engineering · 2016

**Marmara University, Institute of Pure and Applied Sciences, Istanbul, Türkiye**

Thesis: *A Model for Design of Humanitarian Logistics Systems and A Case Study from Sakarya District of Turkey*

Advisor: Prof. Özalp Vayvay and Prof. Gülfem Tuzkaya

B.S. in Industrial Engineering · 2013

**Sakarya University, Sakarya, Türkiye**

Spring 2012: Production Systems Intern, Divan Furniture, Mattress Line Team, Sakarya, Türkiye

Fall 2011: Erasmus program; Institute of Technology Tralee, Kerry, Ireland

## EMPLOYMENT HISTORY

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**Istanbul Medipol University**, Engineering Faculty, Industrial Engineering Department, Istanbul, Türkiye

Teaching Assistant; Undergraduate Student Advisor; Student Accessibility Coordinator; High School Outreach Coordinator; Erasmus Coordinator · 2015 – 2022

**Sakarya Iz Reklam Ltd. Şti**, Quality Management Team, Sakarya, Türkiye

Quality Engineer · 2013 – 2015

**Kordsa Global Turkey**, Kocaeli, Türkiye

Management and Production Intern · Summer 2012

**Temsa Global**, Adapazarı, Türkiye

Operations Research Analyst · Summer 2011

## RESEARCH

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### PUBLICATIONS:

1. **Kasap-Şimşek, L.G.**, Balcık, B., and Chané, F. (2024) Investigating the impact of postponement and stock-sharing strategies on prepositioned relief stocks. *Decision Sciences* (forthcoming). <https://doi.org/10.1111/deci.12647> (Open Access).
2. Karadayi, M. A., Gokmen, Y. G., **Kasap, L. G.**, and Tozan, H. (2019) Recent Simulation Studies in Healthcare: A Review (In Turkish). *International Journal of Advances in Engineering and Pure Sciences*, 31(1), 1-16. <https://doi.org/10.7240/jeps.444190> (Open Access).

## WORK IN PROGRESS:

3. **Kasap-Şimşek, L. G.**, Adsanver, B., and Balcik, B. Collaborative Prepositioning with Postponement and Stock Sharing in a Network with Regional and Country Warehouses.

## PRE-PHD CONFERENCE PROCEEDINGS:

4. Yardımcı, İ., **Kasap, L. G.**, and Vayvay, Ö., (2015). A Conceptual Framework for Supply Chain Renovation. *International Conference on Value Chain Sustainability (ICOVACS 2015)*, Istanbul, Türkiye
5. **Kasap, L. G.**, Vayvay, Ö., Tuzkaya, G., (2015). Humanitarian Logistics and Its Applications in Turkey: A Literature Survey. *IV. National Logistics and Supply Chain Congress*, Gümüşhane, Türkiye (in Turkish)
6. Sarı, M., **Kasap, L. G.**, Evcen, M., Karaduman, E., (2012). "Efficient Utilization of The Bottleneck Resources: The Case of Mattress Line. *32. National Congress of Operations Research and Industrial Engineering (YAEM)*, Istanbul, Türkiye (in Turkish)

## CONFERENCE/WORKSHOP PRESENTATIONS:

1. INFORMS Annual Meeting, Seattle, WA · 2024
2. INFORMS Annual Meeting, Phoenix, AZ · 2023
3. POMS Annual Meeting, Orlando, FL · 2023
4. INFORMS Annual Meeting, Indianapolis, IN · 2022
5. POMS Annual Meeting (virtual) · 2022
6. IFORS Annual Meeting (virtual) · 2021
7. 38. National Congress of Operation Research and Industrial Engineering (YAEM), Eskişehir, TR · 2018
8. 35. National Congress of Operation Research and Industrial Engineering (YAEM), Ankara, TR · 2015
9. IV. National Logistics and Supply Chain Congress, Gümüşhane, TR · 2015
10. International Conference on Value Chain Sustainability (ICOVACS 2015), Istanbul, TR · 2015
11. 32. National Congress of Operation Research and Industrial Engineering (YAEM), Istanbul, TR · 2012

## GRANTS:

1. Principal investigator: Dr. B. Balcik, Researchers: **L. G. Kasap** and B. Adsanver, "Modeling and Analysis of Stock Sharing and Postponement Strategies in Regional Humanitarian Relief Networks," funded by The Scientific and Technological Research Council of Turkey (TUBITAK) 1002 [120M023], 2020 – 2021.
2. Principal investigator: **L. G. Kasap**, "Fair Sharing Of Delayed Product Pool Cost Between Different Humanitarian Organizations In A Humanitarian Warehouse," funded by The Scientific and Technological Research Council of Turkey (TUBITAK) 2214A, 2020. \*Approved, but not utilized due to COVID-19.
3. Principal investigator: Dr. H. Tozan, Researchers: M. A. Karadayı, Y. G. Gökmen, **L. G. Kasap**, "Process Improvement of Operating Rooms via a Simulation-Based Optimization Approach," funded by Istanbul Medipol University Scientific Research Project, 2017 – 2018.

## TEACHING EXPERIENCE

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**Istanbul Medipol University**, Engineering Faculty, Industrial Engineering Department, Istanbul, Türkiye  
Teaching Assistant · 2015 – 2022

- Held lab and tutorial sessions and office hours, prepared exam questions, and evaluated student work
- Courses (undergraduate level): Introduction to Industrial Engineering (Excel Solver), Introduction to Modelling and Optimization (Lingo, Gams, Eclipse), Computer Aided Technical Drawing (AutoCad), Applied Statistics (SPSS), Stochastic Models,

Modelling and Simulation (Arena Simulation), Network Flows and Integer Programming, Engineering Project I and II

**Ozyegin University**, Engineering Faculty, Industrial Engineering Department, Istanbul, Türkiye  
Teaching Assistant · 2016 – 2021

- Held lab sessions and office hours, and evaluated student work
- Courses (undergraduate level): Simulation Modelling and Analysis (Arena Simulation), Operations Research I and II, Programming for Operations Research (Java), Supply Chain Management, Probability and Random Variables, Supply Chain Management

## PROFESSIONAL RECOGNITIONS AND HONORS

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- Ranked 1<sup>st</sup> in the Industrial Engineering Department of Sakarya University · 2013

## PROFESSIONAL MEMBERSHIPS

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- The Institute for Operations Research and the Management Sciences (INFORMS) · 2022 – Present
- INFORMS, The Section on Public Sector Operations Research (PSOR) · 2022 – Present
- Production and Operation Management Society (POMS) · 2022 – 2024
- POMS, College of Humanitarian Operations and Crisis Management (HOCM) · 2023 – 2024
- The International Federation of Operational Research Societies (IFORS) · 2021 – 2022

## SKILLS AND ABILITIES

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- **Programming:** Java
- **Math Software:** CPLEX, Arena Simulation, SPSS, Matlab, Lingo, Gams
- **Database:** Access
- **Languages:** Turkish (Native Speaker), English (Fluent)

## CITIZENSHIP AND RESIDENCY

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- **Citizenship:** Türkiye
- **Residency:** U.S. Permanent Resident (Green Card Holder)

## REFERENCES

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*Prof. Burcu Balçık*, Professor of Industrial Engineering, Ozyegin University  
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*Prof. Erhun Kundakçioğlu*, Professor of Industrial Engineering, Ozyegin University  
E-mail: [erhun.kundakcioglu@ozyegin.edu.tr](mailto:erhun.kundakcioglu@ozyegin.edu.tr)

*Prof. Hakan Tozan*, Professor of Industrial Engineering, Istanbul Medipol University  
E-mail: [htozan@medipol.edu.tr](mailto:htozan@medipol.edu.tr)