Deniz Şimşek

(+1) 847-219-8099 Evanston, IL, USA deniz-simsek.github.io

EDUCATION

Kellogg School of Management, Northwestern University

Evanston, IL, USA

Ph.D. in Operations Management

2021 - 2026 (expected)

- Advisor: Prof. Achal Bassamboo
- Research Interests: Service operations, queueing theory, applied probability.

Department of Industrial Engineering, Bilkent University

Ankara, Turkey

M.Sc. in Industrial Engineering

2019 - 2021

- Advisor: Prof. M. Selim Aktürk
- Master's Thesis: Airline Scheduling to Minimize Operational Costs and Variability

B.Sc. in Industrial Engineering

2014 - 2029

JOURNAL PUBLICATIONS

Deniz Şimşek, M. Selim Aktürk. Resilient Airline Scheduling while Minimizing Delay Risks. *Transportation Research Part C*, 2022. https://doi.org/10.1016/j.trc.2022.103734

Working Papers

Deniz Şimşek, Chenguang (Allen) Wu, Achal Bassamboo, Ohad Perry. A Unified Fluid Model for Large Service Systems with Patience- or Delay-Dependent Service Times.

Deniz Şimşek, Achal Bassamboo, Ohad Perry. Design and Control of Large Service Systems with Delay-Dependent Service Times.

Talks and Conferences

Design and Control of Large Service Systems with Delay-Dependent Service Times

• (Upcoming) INFORMS MSOM Conference, London, UK

June 2025

• Poster Presentation – Chicago Operations Workshop, USA

June 2025

A Unified Fluid Model for Large Service Systems with Patience- or Delay-Dependent Service Times

- (Upcoming) INFORMS APS Conference, Atlanta, GA

July 2025

- $35^{\rm th}$ Annual POMS Conference, Atlanta, USA

May 2025 October 2024

INFORMS Annual Meeting, Seattle, USA
Poster Presentation - Chicago Operations Workshop, Chicago, USA

A June 2024

• INFORMS Annual Meeting, Phoenix, USA

October 2023

Resilient Airline Scheduling while Minimizing Delay Risks

• INFORMS Annual Meeting, Indianapolis, USA

October 2022

• YAEM (Turkish OR/IE Society) Annual Meeting, İstanbul, Turkey

July 2021

Teaching

Kellogg School of Management, Northwestern University

Evanston, IL, USA

Teaching Assistant in Operations Management

MBA Core Courses

• Operations Management

Spring, Summer 2023

MBA Elective Courses

• Supply Chain Management

Spring 2025

• Data Science with Large Language Models

Fall 2024 Spring 2024

• Applied Advanced Analytics

Winter 2023, 2024

Humanitarian and Non-Profit OperationsDecision Models and Prescriptive Analytics

Winter, Fall 2023

PhD Core Courses

• Stochastic Foundations II

Spring 2024, 2025

Bilkent University Graduate Teaching Assistant in Industrial Engineering	Ankara, Turkey
Operations Scheduling, undergraduate elective	Fall 2019, 2020
• Production Information Systems, undergraduate core	Spring 2020
 Undergraduate Teaching Assistant in Industrial Engineering Production Information Systems, undergraduate core Simulation, undergraduate core 	Spring 2019 Fall 2018
 Undergraduate Teaching Assistant in Computer Science Introduction to Programming, undergraduate core Introduction to Computing for Engineers, undergraduate core 	Spring, Fall 2017 Fall 2016
• Fellowship of Kellogg School of Management for PhD Program	2021 - Present
• Finalist, INFORMS AAS Student Presentation Competition	2022
- National MSc/MA Scholarship, The Scientific and Technological Research Council of Turkey $$2019$ - 2021	
• High Honor in Industrial Engineering, Bilkent University	2016 - 2021
\bullet B.Sc. and M.Sc. Full Tuition Support and Scholarship, Bilkent University 2014 - 2021	
 IBM Turkey Istanbul, Turkey Operations intern in the Client Center department. Helped coding a robotic arm designed for a supply chain project 	Summer 2018 t of the company.
Cimsa Eskisehir, Turkey	Summer 2017
 Production systems intern. Observed the manufacturing processes of different kinds of cement and examined the optimization techniques used for production planning. 	

SERVICE

Industry Experience

Honors and Awards

INFORMS Pride Forum

Voting Board Member

April 2023 - Present

- \bullet Involved in establishing the Pride Forum to support LGBTQ+ members and allies within the INFORMS community.
- Served as an inaugural board member of the forum and participated actively in the mentorship subcommittee to promote inclusive mentorship initiatives.

Operations Student Life Committee, Kellogg School of Management

 $Vice\ President$

Fall 2023 - Summer 2024

- Organized research seminars given by students and faculty of the Operations group at the Kellogg School of Management.
- Participated in the events co-organized with the NU INFORMS Student Chapter.

Additional Information

Languages: Turkish (native), English (working proficiency).

Programming: R, C, MATLAB, Java, Python.