Deniz Şimşek

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)

- Advisors: Achal Bassamboo and Ohad Perry
- Research Interests: Service operations, queueing theory, applied probability.

Department of Industrial Engineering, Bilkent University

Ankara, Turkey

M.Sc. in Industrial Engineering

2019 - 2021

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

Deniz Simsek, 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

- (Upcoming) INFORMS APS Conference, Atlanta, GA
- July 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

• (Upcoming) Purdue SCOM Conference, West Lafayette, IN

August 2025 May 2025

• 35th Annual POMS Conference, Atlanta, USA

October 2024

• INFORMS Annual Meeting, Seattle, USA

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

• Poster Presentation - Chicago Operations Workshop, Chicago, USA

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

• Applied Advanced Analytics

Spring 2024

• Humanitarian and Non-Profit Operations

Winter 2023, 2024

• Decision Models and Prescriptive Analytics

Winter, Fall 2023

PhD Core Courses	
• Stochastic Foundations II	Spring 2024, 2025
Bilkent University	Ankara, Turkey
Graduate Teaching Assistant in Industrial Engineering	
• Operations Scheduling, undergraduate elective	Fall 2019, 2020
• Production Information Systems, undergraduate core	Spring 2020
Undergraduate Teaching Assistant in Industrial Engineering	C : 2010
Production Information Systems, undergraduate core	Spring 2019
• Simulation, undergraduate core	Fall 2018
Undergraduate Teaching Assistant in Computer Science • Introduction to Programming, undergraduate core	Spring, Fall 2017
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• Introduction to Computing for Engineers, undergraduate core	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 Technologica Turkey 	l Research Council of 2019 - 2021
High Honor in Industrial Engineering, Bilkent University	2016 - 2021
ment in independent Engineering, Enneme em vereit,	_010 _011
• B.Sc. and M.Sc. Full Tuition Support and Scholarship, Bilkent U	University 2014 - 2021
 IBM Turkey Istanbul, Turkey Operations intern in the Client Center department. 	Summer 2018
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Additional Information

Honors and Awards

Industry Experience

SERVICE

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

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