

Deniz Şimşek

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 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
- 35th Annual POMS Conference, Atlanta, USA May 2025
- INFORMS Annual Meeting, Seattle, USA October 2024
- Poster Presentation – Chicago Operations Workshop, Chicago, 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 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 <i>Graduate Teaching Assistant in Industrial Engineering</i> <ul style="list-style-type: none"> • Operations Scheduling, undergraduate elective • Production Information Systems, undergraduate core <i>Undergraduate Teaching Assistant in Industrial Engineering</i> <ul style="list-style-type: none"> • Production Information Systems, undergraduate core • Simulation, undergraduate core <i>Undergraduate Teaching Assistant in Computer Science</i> <ul style="list-style-type: none"> • Introduction to Programming, undergraduate core • Introduction to Computing for Engineers, undergraduate core 	Ankara, Turkey Fall 2019, 2020 Spring 2020 Spring 2019 Fall 2018 Spring, Fall 2017 Fall 2016
HONORS AND AWARDS	<ul style="list-style-type: none"> • Fellowship of Kellogg School of Management for PhD Program • Finalist, INFORMS AAS Student Presentation Competition • National MSc/MA Scholarship, The Scientific and Technological Research Council of Turkey • High Honor in Industrial Engineering, Bilkent University • B.Sc. and M.Sc. Full Tuition Support and Scholarship, Bilkent University 	2021 - Present 2022 2019 - 2021 2016 - 2021 2014 - 2021
INDUSTRY EXPERIENCE	IBM Turkey Istanbul, Turkey <ul style="list-style-type: none"> • Operations intern in the Client Center department. • Helped coding a robotic arm designed for a supply chain project of the company. Cimsa Eskisehir, Turkey <ul style="list-style-type: none"> • Production systems intern. • Observed the manufacturing processes of different kinds of cement and examined the optimization techniques used for production planning. 	Summer 2018 Summer 2017
SERVICE	INFORMS Pride Forum <i>Voting Board Member</i> <ul style="list-style-type: none"> • 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 <i>Vice President</i> <ul style="list-style-type: none"> • 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. 	April 2023 - Present Fall 2023 - Summer 2024
ADDITIONAL INFORMATION	Languages: Turkish (native), English (working proficiency). Programming: R, C, MATLAB, Java, Python.	