

Deniz Şimşek

EDUCATION

Kellogg School of Management, Northwestern University <i>Ph.D. in Operations Management</i>	Evanston, IL, USA 2021 - 2026 (<i>expected</i>)
<ul style="list-style-type: none">• Advisor: Prof. Achal Bassamboo• Research interests: Service operations, queueing theory, applied probability.	
Department of Industrial Engineering, Bilkent University <i>M.Sc. in Industrial Engineering</i>	Ankara, Turkey 2019 - 2021
<ul style="list-style-type: none">• Advisor: Prof. M. Selim Aktürk• Master's Thesis: <i>Airline Scheduling to Minimize Operational Costs and Variability</i>	
Department of Industrial Engineering, Bilkent University <i>B.Sc. in Industrial Engineering</i>	Ankara, Turkey 2014 - 2019

JOURNAL PUBLICATIONS

Deniz Simsek, M. Selim Aktürk. Resilient Airline Scheduling while Minimizing Delay Risks. *Transportation Research Part C*, 2022. Available at: [\[link\]](#)

WORK IN PROGRESS

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

A Unified Fluid Model for Large Service Systems with Patience- or Delay-Dependent Service Times	
• INFORMS Annual Meeting, Seattle, USA	October 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, Istanbul, Turkey	July 2021

TEACHING

Kellogg School of Management, Northwestern University <i>Teaching Assistant in Operations Management</i>	Evanston, IL, USA
• Stochastic Foundations II, PhD core	Spring 2025
• Supply Chain Management, MBA elective	Spring 2025
• Data Science with Large Language Models, MBA elective	Fall 2024
• Stochastic Foundations II, PhD core	Spring 2024
• Applied Advanced Analytics, MBA elective	Spring 2024
• Humanitarian and Non-Profit Operations, MBA elective	Winter 2024
• Decision Models and Prescriptive Analytics, MBA elective	Fall 2023
• Operations Management, MBA core	Spring, Summer 2023
• Decision Models and Prescriptive Analytics, MBA elective	Winter 2023
• Humanitarian and Non-Profit Operations, MBA elective	Winter 2023

	Bilkent University <i>Graduate Teaching Assistant in Industrial Engineering</i> <ul style="list-style-type: none"> • Seminar in Production Systems, undergraduate core • Operations Scheduling, undergraduate elective • Production Information Systems, undergraduate core • Operations Scheduling, undergraduate elective 	Ankara, Turkey Spring 2021 Fall 2020 Spring 2020 Fall 2019
	Bilkent University <i>Undergraduate Teaching Assistant in Industrial Engineering</i> <ul style="list-style-type: none"> • Production Information Systems, undergraduate core • Simulation, undergraduate core 	Ankara, Turkey Spring 2019 Fall 2018
	Bilkent University <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 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. • Coded 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 a 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.	