## 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 (SMU)
- Research Interests: Service operations with customer behavior, queueing systems.

## 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

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

## SUBMITTED FOR PUBLICATION

2. "A Unified Fluid Model for Large Service Systems with Patience- or Delay-Dependent Service Times," with Achal Bassamboo, Ohad Perry, and Chenguang (Allen) Wu. Under review at *Operations Research*. https://ssrn.com/abstract=5530258

#### Work in Progress

- **3.** "Design and Control of Large Service Systems with Delay-Dependent Service Times," with Achal Bassamboo and Ohad Perry.
- 4. "Burning Daylight: Rational Abandonments under a Time Budget," with Achal Bassamboo and Martin Lariviere.

## Talks and Conferences

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

•	( <i>Upcoming</i> ) INFORMS Annual Meeting, Atlanta, USA	October 2025
•	INFORMS APS Conference, Atlanta, GA	July 2025
•	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

•	Purdue SCOM Conference, West Lafayette, IN	August 2025
•	INFORMS APS Conference, Atlanta, GA	July 2025
•	35 <sup>th</sup> 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 Experience	Kellogg School of Management, Northwestern University Teaching Assistant in Operations Management MBA Core Courses	Evanston, IL, USA	
	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 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	Spring 2019	
	• Simulation, undergraduate core	Fall 2018	
	<ul> <li>Undergraduate Teaching Assistant in Computer Science</li> <li>Introduction to Programming, undergraduate core</li> <li>Introduction to Computing for Engineers, undergraduate core</li> </ul>	Spring, Fall 2017 ore Fall 2016	
Honors and	• Fellowship of Kellogg School of Management for PhD Program		
AWARDS			
~	• Finalist, INFORMS AAS Student Presentation Competition	2022	
	• Scholarship, The Scientific and Technological Research Council	v	
	• High Honor in Industrial Engineering, Bilkent University	2016 - 2021	
	• B.Sc. and M.Sc. Full Tuition Support and Scholarship, Bilken	t University 2014 - 2021	
Industry Experience	<ul> <li>IBM Turkey   Istanbul, Turkey</li> <li>Operations intern in the Client Center department.</li> <li>Helped coding a robotic arm designed for a supply chain present the coding and according to the coding according to th</li></ul>	Summer 2018 roject of the company.	
		Summer 2017	
	<ul> <li>Cimsa   Eskisehir, Turkey</li> <li>Production systems intern. Observed the manufacturing pr of cement and examined the optimization techniques used for</li> </ul>	ocesses of different kinds	
SERVICE	INFORMS Pride Forum		
	Voting Board Member	April 2023 - Present	
	<ul> <li>Served as an inaugural board member of the forum support and allies within the INFORMS community.</li> </ul>	ting LGBTQ+ members	
	Operations Student Life Committee, Kellogg School of Management Vice President Fall 2023 - Summer 2024		

# Additional Information

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

• Organized research seminars given by students and faculty of the Operations group

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

at the Kellogg School of Management.