

# Deniz Şimşek

## 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*
- Department of Industrial Engineering, Bilkent University** Ankara, Turkey  
*B.Sc. in Industrial Engineering* 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** Evanston, IL, USA  
*Teaching Assistant in Operations Management*
- 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

	<b>Bilkent University</b> <i>Graduate Teaching Assistant in Industrial Engineering</i> <ul style="list-style-type: none"> <li>• Seminar in Production Systems, undergraduate core</li> <li>• Operations Scheduling, undergraduate elective</li> <li>• Production Information Systems, undergraduate core</li> <li>• Operations Scheduling, undergraduate elective</li> </ul>	Ankara, Turkey Spring 2021 Fall 2020 Spring 2020 Fall 2019
	<b>Bilkent University</b> <i>Undergraduate Teaching Assistant in Industrial Engineering</i> <ul style="list-style-type: none"> <li>• Production Information Systems, undergraduate core</li> <li>• Simulation, undergraduate core</li> </ul>	Ankara, Turkey Spring 2019 Fall 2018
	<b>Bilkent University</b> <i>Undergraduate Teaching Assistant in Computer Science</i> <ul style="list-style-type: none"> <li>• Introduction to Programming , undergraduate core</li> <li>• Introduction to Computing for Engineers, undergraduate core</li> </ul>	Ankara, Turkey Spring, Fall 2017 Fall 2016
HONORS AND AWARDS	<ul style="list-style-type: none"> <li>• Fellowship of Kellogg School of Management for PhD Program</li> <li>• Finalist, INFORMS AAS Student Presentation Competition</li> <li>• National MSc/MA Scholarship, The Scientific and Technological Research Council of Turkey</li> <li>• High Honor in Industrial Engineering, Bilkent University</li> <li>• B.Sc. and M.Sc. Full Tuition Support and Scholarship, Bilkent University</li> </ul>	2021 - Present 2022 2019 - 2021 2016 - 2021 2014 - 2021
INDUSTRY EXPERIENCE	<b>IBM Turkey</b>   Istanbul, Turkey <ul style="list-style-type: none"> <li>• Operations intern in the Client Center department.</li> <li>• Coded a robotic arm designed for a supply chain project of the company.</li> </ul> <b>Cimsa</b>   Eskisehir, Turkey <ul style="list-style-type: none"> <li>• Production systems intern.</li> <li>• Observed the manufacturing processes of different kinds of cement and examined the optimization techniques used for production planning.</li> </ul>	Summer 2018 Summer 2017
SERVICE	<b>INFORMS Pride Forum</b> <i>Voting Board Member</i> <ul style="list-style-type: none"> <li>• Involved in establishing the Pride Forum to support LGBTQ+ members and allies within the INFORMS community.</li> <li>• Served as a board member of the forum and participated actively in the Mentorship subcommittee to promote inclusive mentorship initiatives.</li> </ul> <b>Operations Student Life Committee, Kellogg School of Management</b> <i>Vice President</i> <ul style="list-style-type: none"> <li>• Organized research seminars given by students and faculty of the Operations group at the Kellogg School of Management.</li> <li>• Participated in the events co-organized with the NU INFORMS Student Chapter.</li> </ul>	April 2023 - Present Fall 2023 - Summer 2024
ADDITIONAL INFORMATION	<b>Languages:</b> Turkish (native), English (working proficiency). <b>Programming:</b> R, C, MATLAB, Java, Python.	