

# Deniz Şimşek

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## 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 - 2020

## JOURNAL PUBLICATIONS

“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>

## WORKING PAPERS

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

“Design and Control of Large Service Systems with Delay-Dependent Service Times,” with Achal Bassamboo and Ohad Perry.

## TALKS AND CONFERENCES

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

- (*Upcoming*) 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

### 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

	<ul style="list-style-type: none"> <li>Humanitarian and Non-Profit Operations</li> <li>Decision Models and Prescriptive Analytics</li> </ul>	<p>Winter 2023, 2024</p> <p>Winter, Fall 2023</p>
	<i>PhD Core Courses</i>	
	<ul style="list-style-type: none"> <li>Stochastic Foundations II</li> </ul>	Spring 2024, 2025
	<b>Bilkent University</b>	Ankara, Turkey
	<i>Graduate Teaching Assistant in Industrial Engineering</i>	
	<ul style="list-style-type: none"> <li>Operations Scheduling, undergraduate elective</li> <li>Production Information Systems, undergraduate core</li> </ul>	<p>Fall 2019, 2020</p> <p>Spring 2020</p>
	<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>	<p>Spring 2019</p> <p>Fall 2018</p>
	<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>	<p>Spring, Fall 2017</p> <p>Fall 2016</p>
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>	<p>2021 - Present</p> <p>2022</p> <p>2019 - 2021</p> <p>2016 - 2021</p> <p>2014 - 2021</p>
INDUSTRY EXPERIENCE	<p><b>IBM Turkey</b>   Istanbul, Turkey</p> <ul style="list-style-type: none"> <li>Operations intern in the Client Center department.</li> <li>Helped coding a robotic arm designed for a supply chain project of the company.</li> </ul> <p><b>Cimsa</b>   Eskisehir, Turkey</p> <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>	<p>Summer 2018</p> <p>Summer 2017</p>
SERVICE	<p><b>INFORMS Pride Forum</b></p> <p><i>Voting Board Member</i></p> <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 an inaugural board member of the forum and participated actively in the mentorship subcommittee to promote inclusive mentorship initiatives.</li> </ul> <p><b>Operations Student Life Committee, Kellogg School of Management</b></p> <p><i>Vice President</i></p> <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>	<p>April 2023 - Present</p> <p>Fall 2023 - Summer 2024</p>
ADDITIONAL INFORMATION	<p><b>Languages:</b> Turkish (native), English (working proficiency).</p> <p><b>Programming:</b> R, C, MATLAB, Java, Python.</p>	