

# Deniz Şimşek

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

## 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
  - (*Upcoming*) 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
  - 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*
- Stochastic Foundations II, PhD core Spring 2024, 2025
  - Supply Chain Management, MBA elective Spring 2025
  - Data Science with Large Language Models, MBA elective Fall 2024
  - Applied Advanced Analytics, MBA elective Spring 2024
  - Humanitarian and Non-Profit Operations, MBA elective Winter 2023, 2024
  - Decision Models and Prescriptive Analytics, MBA elective Winter, Fall 2023
  - Operations Management, MBA core Spring, Summer 2023

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|                        | <b>Bilkent University</b> <span style="float: right;">Ankara, Turkey</span><br><i>Graduate Teaching Assistant in Industrial Engineering</i> <ul style="list-style-type: none"> <li>• Seminar in Production Systems, undergraduate core <span style="float: right;">Spring 2021</span></li> <li>• Operations Scheduling, undergraduate elective <span style="float: right;">Fall 2020</span></li> <li>• Production Information Systems, undergraduate core <span style="float: right;">Spring 2020</span></li> <li>• Operations Scheduling, undergraduate elective <span style="float: right;">Fall 2019</span></li> </ul>  |
|                        | <b>Bilkent University</b> <span style="float: right;">Ankara, Turkey</span><br><i>Undergraduate Teaching Assistant in Industrial Engineering</i> <ul style="list-style-type: none"> <li>• Production Information Systems, undergraduate core <span style="float: right;">Spring 2019</span></li> <li>• Simulation, undergraduate core <span style="float: right;">Fall 2018</span></li> </ul>  |
|                        | <b>Bilkent University</b> <span style="float: right;">Ankara, Turkey</span><br><i>Undergraduate Teaching Assistant in Computer Science</i> <ul style="list-style-type: none"> <li>• Introduction to Programming , undergraduate core <span style="float: right;">Spring, Fall 2017</span></li> <li>• Introduction to Computing for Engineers, undergraduate core <span style="float: right;">Fall 2016</span></li> </ul>   |
| HONORS AND AWARDS      | <ul style="list-style-type: none"> <li>• Fellowship of Kellogg School of Management for PhD Program <span style="float: right;">2021 - Present</span></li> <li>• Finalist, INFORMS AAS Student Presentation Competition <span style="float: right;">2022</span></li> <li>• National MSc/MA Scholarship, The Scientific and Technological Research Council of Turkey <span style="float: right;">2019 - 2021</span></li> <li>• High Honor in Industrial Engineering, Bilkent University <span style="float: right;">2016 - 2021</span></li> <li>• B.Sc. and M.Sc. Full Tuition Support and Scholarship, Bilkent University <span style="float: right;">2014 - 2021</span></li> </ul>  |
| INDUSTRY EXPERIENCE    | <b>IBM Turkey</b>   Istanbul, Turkey <span style="float: right;">Summer 2018</span> <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> <b>Cimsa</b>   Eskisehir, Turkey <span style="float: right;">Summer 2017</span> <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>   |
| SERVICE                | <b>INFORMS Pride Forum</b> <span style="float: right;">April 2023 - Present</span><br><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 an inaugural 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> <span style="float: right;">Fall 2023 - Summer 2024</span><br><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> |
| ADDITIONAL INFORMATION | <b>Languages:</b> Turkish (native), English (working proficiency).<br><b>Programming:</b> R, C, MATLAB, Java, Python.  |