

EBRU KASIKARALAR

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EMPLOYMENT

Amazon.com, Inc.

Research Scientist II

Worldwide Capacity Planning

Seattle, WA

May 2025 - Present

EDUCATION

The University of Chicago Booth School of Business

MBA & Ph.D. in Operations Management

Minor in Economics

Committee: Baris Ata (chair), X.Y. Han, Amy Ward, Yuan Zhong

Chicago, IL

2019 - 2025

University of California, Berkeley

B.S. in Industrial Engineering and Operations Research (Honors)

Certificate in Technology Entrepreneurship

Berkeley, CA

2015 - 2019

RESEARCH INTERESTS

Applied probability and simulation, computational methods for solving high-dimensional stochastic control problems, queueing theory, neural networks

PUBLICATIONS AND PAPERS UNDER REVIEW

- **Dynamic Scheduling of a Multiclass Queue in the Halfin-Whitt Regime: A Computational Approach for High-Dimensional Problems.**

Baris Ata, Ebru Kasikaralar

Accepted at *Management Science*

- **Exploring Cost and Environmental Implications of Optimal Technology Management Strategies in the Street Lighting Industry.**

Rachel Dzombak, Ebru Kasikaralar, and Heather E. Dillon

Resources, Conservation & Recycling: X 6 (2020): 100022.

WORKING PAPERS

- **Dynamic scheduling of a parallel-server system in the Halfin-Whitt Regime: A Computational Approach for High-Dimensional Problems.**

Baris Ata, Ebru Kasikaralar

- **Quality Learning in a Dynamic Mutual Data Exchange Model.**

John R. Birge, Ebru Kasikaralar

TALKS & PRESENTATIONS

- Dynamic Scheduling of a Multiclass Queue in the Halfin-Whitt Regime: A Computational Approach for High-Dimensional Problems
 - 2023 INFORMS Annual Meeting, Phoenix, AZ.
 - ChicagoBooth Operations Day 2023, Chicago, IL.

- Stanford MS&E Rising Stars 2024, Stanford, CA.
- Stochastic Networks 2024, Stockholm, Sweden.
- 2024 INFORMS Annual Meeting, Seattle, WA.
- 2025 Amazon OptimizST Learning Session, Seattle, WA.
- Quality Learning in a Dynamic Mutual Data Exchange Model
 - 2021 INFORMS Annual Meeting, Indianapolis, IN.
 - 2022 INFORMS Annual Meeting, Anaheim, CA.

TEACHING EXPERIENCE

The University of Chicago Booth School of Business, Teaching Assistant

Operations Management (Executive MBA) <i>London, Singapore, Hong Kong</i>	<i>Winter 2022, 2023, 2024, 2025</i>
Managerial Decision Modeling (Executive MBA) <i>Chicago</i>	<i>Summer 2021</i>
Managerial Decision Modeling (Undergraduate)	<i>Spring 2021, 2022</i>

HONORS AND AWARDS

- J. Michael Harrison Doctoral Prize, Booth School of Business *2024*
Doctoral student enrolled at Chicago Booth whose research is judged to make the most impactful contribution to theory
- Outstanding Teaching Assistant Award, Booth School of Business *2023*
Best TA nominated by Executive MBA cohorts in London and Singapore
- Ph.D. Fellowship, Booth School of Business *2019-2024*
- Katherine Dusak Miller PhD Fellowship *2024-2025*
- Honors in Industrial Engineering and Operations Research, UC Berkeley *2019*
- URAP Summer Research Fellowship, Haas School of Business *2018*

PROFESSIONAL EXPERIENCE

- **United States Postal Service** **Oakland, CA**
Operations Research Consultant *2019*
Optimized the package sorting process at the Oakland USPS regional distribution center by implementing a matching model with a mixed integer linear program, significantly reducing the steps required by the workforce.

ADDITIONAL INFORMATION

- **Programming skills:** Python (Tensorflow, Pytorch), C++, Julia, MATLAB, R, AMPL.
- **Languages:** Turkish (native), English (fluent), German (intermediate), Spanish (beginner), Italian (beginner).
- **Nationality:** Turkish, U.S. Permanent Resident.