

ACADEMIC EMPLOYMENT

University of Chicago, Booth School of Business
Postdoctoral Principal Researcher

Chicago, IL
2021–Current

EDUCATION

Georgia Institute of Technology

Atlanta, GA

Ph.D. in Operations Research

2021

M.S. in Statistics

2020

B.S. in Industrial and System Engineering

2015

B.S. in Discrete Mathematics

2015

RESEARCH INTERESTS

Data-driven decision making, Operational issues in the public sector, Simulation optimization

PUBLICATIONS

Journal Publications

1. “A Queueing Model of Dynamic Pricing and Dispatch Control for Ride-Hailing Systems Incorporating Travel Times.” with A. Alwan and B. Ata. *Queueing Systems*, **106** (1): 1–66, 2024.
2. “Finding Feasible Systems for Subjective Constraints Using Recycled Observations.” with S. Andradóttir, S.-H. Kim, and C. Park. *INFORMS Journal on Computing*, **34** (6): 3080–3095, 2022.

Conference Proceedings

1. “Identifying the Best System in the Presence of Stochastic Constraints with Varying Thresholds.” with S. Andradóttir and S.-H. Kim, *Proceedings of the 2020 Winter Simulation Conference*, 2812–2020.

PAPERS UNDER REVIEW/REVISION

1. “Selection of the Best in the Presence of Subjective Stochastic Constraints.” with S. Andradóttir and S.-H. Kim. *Under major revision at ACM Transactions on Modeling and Computer Simulation*.
2. “Analyzing the Effects of Judicial Rotation on Criminal Sentencing: An Operations Management Perspective.” with B. Ata, R. Hester, and LW. Wein. *Under review at Manufacturing and Service Operations Management*.
3. “An Analysis of Pretrial Detention and its Unintended Consequences.” with B. Ata and C. Hannigan. *Under revision for Manufacturing and Service Operations Management*.
4. “Pruning Inferior Systems Using Subjective Constraints with Sequentially Added Thresholds.” with S. Andradóttir, S.-H. Kim, and C. Park. *Under review at Sequential Analysis*.

WORKING PAPERS

1. “Analysis And Improvement of Eviction Enforcement.” with B. Ata.
2. “Finding a Portfolio of Best Systems for Subjective Constraints.” with S. Andradóttir and S.-H. Kim.
3. “Feasibility Determination for Subjective Probability Constraints.” with T. Kim and S.-H. Kim.

PROFESSIONAL SERVICE

- Reviewer for *Operations Research*, *Sequential Analysis*

TEACHING EXPERIENCE

Georgia Institute of Technology

Head Teaching Assistant

ISYE 6420: Bayesian Statistics

Spring 2019 – Spring 2021

Teaching Assistant

ISYE 6225: Engineering Economy

Fall 2018

ISYE 4232: Advanced Stochastic System

Spring 2018

ISYE 6334: Operations Research for Supply Chains

Fall 2017

ISYE 3044: Simulation Analysis and Design

Summer 2017

TALKS

1. *Feasibility Determination with Recycled Observations* at the 2018 INFORMS Annual Meeting, Phoenix, AZ.
2. *Selection Problem with Varying Constraint Thresholds* at the 2020 Winter Simulation Conference, online.
3. *Finding a Portfolio of Best Systems for Subjective Constraints* at the 2022 INFORMS Annual Meeting, Indianapolis, IN.
4. *Analysis and Improvement for Eviction Enforcement* at the 2023 INFORMS Annual Meeting, Phoenix, AZ.

SKILLS

- **Programming Languages:** C++, Python, R, Matlab
- **Languages:** Chinese (native), English (fluent)

REFERENCES

Baris Ata

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Seong-Hee Kim

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Roshan Joseph

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