Yuwei Zhou

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ACADEMIC EMPLOYMENT

Indiana University, Kelley School of Business   Bloomington, IN
Assistant Professor of Operations and Decision Technologies   2024–Present

University of Chicago, Booth School of Business   Chicago, IL
Postdoctoral Principal Researcher   2021–2024

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. Y. Zhou, S. Andradóttir, and S.-H. Kim. (2024). "Selection of the Best in the Presence of Subjective Stochastic Constraints," *ACM Transactions on Modeling and Computer Simulation*, forthcoming.

2. Y. Zhou, S. Andradóttir, S.-H. Kim, and C. Park. (2024). "Pruning Inferior Systems Using Subjective Constraints with Sequentially Added Thresholds," *Sequential Analysis*, forthcoming.

3. A. Alwan, B. Ata, and Y. Zhou. (2024). "A Queueing Model of Dynamic Pricing and Dispatch Control for Ride-Hailing Systems Incorporating Travel Times," *Queueing Systems*, **106**, 1–66.

4. Y. Zhou, S. Andradóttir, S.-H. Kim, and C. Park. (2022). "Finding Feasible Systems for Subjective Constraints Using Recycled Observations," *INFORMS Journal on Computing*, **34**(6), 3080–3095.

Conference Proceedings

1. Y. Zhou, S. Andradóttir, and S.-H. Kim. (2020). "Identifying the Best System in the Presense of Stochastic Constraints with Varying Thresholds," *2020 Winter Simulation Conference (WSC)*, Orlando, FL, USA, pp. 2812-2820.

2. T. Kim, S. Andradóttir, S.-H. Kim. and Y. Zhou (2024). "Finding Feasible Systems in the Presence of a Probability Constraint," accepted at *2024 Winter Simulation Conference (WSC)*, Orlando, FL, USA.

3. C. Park, S. Andradóttir, S.-H. Kim. and Y. Zhou (2024). "Finding Feasible Systems for a Stochastic Constraint with Relaxed Tolerance Levels," accepted at *2024 Winter Simulation Conference (WSC)*, Orlando, FL, USA.

Papers Under Review/Revision

1. B. Ata, R. Hester, LW. Wein, and Y. Zhou. (2023) "Analyzing the Effects of Judicial Rotation on Criminal Sentencing: An Operations Management Perspective," under review at *Manufacturing and Service Operations Management*.

2. B. Ata, C. Hannigan, and Y. Zhou. (2023) "An Analysis of Pretrial Detention and its Unintended Consequences," under revision for *Manufacturing and Service Operations Management*.

Working Papers and Projects

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, S. Andradóttir, and S.-H. Kim.

4. "Finding Feasible Combinations of Army Aviation Assets in the Presence of Subjective Constraints on Mean and Probability," with T. Kim and S.-H. Kim.

5. "Indifference-Zone Relaxation Procedure for Ranking and Selection," with S. Andradóttir, S.-H. Kim, and C. Park.

Professional Service

- Journal reviewer for *Operations Research, Sequential Analysis*.
- Conference reviewer for *Winter Simulation Conference 2024*.

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. *Analysis and Improvement for Eviction Enforcement* at the 2023 INFORMS Annual Meeting, Phoenix, AZ.

2. *Finding a Portfolio of Best Systems for Subjective Constraints* at the 2022 INFORMS Annual Meeting, Indianapolis, IN.

3. *Selection Problem with Varying Constraint Thresholds* at the 2020 Winter Simulation Conference, online.

4. *Feasibility Determination with Recycled Observations* at the 2018 INFORMS Annual Meeting, Phoenix, AZ.

Skills

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