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*, **43**(2), 248–274.

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

Analysis and Improvement for Eviction Enforcement

MSOM Conference, Minneapolis, MN — July, 2024

INFORMS Annual Meeting, Phoenix, AZ — October, 2023

Finding a Portfolio of Best Systems for Subjective Constraints

INFORMS Annual Meeting, Indianapolis, IN — October, 2023

Selection Problem with Varying Constraint Thresholds

Winter Simulation Conference, Orlando, FL, virtual — December, 2020

Feasibility Determination with Recycled Observations

INFORMS Annual Meeting, Phoenix, AZ — November, 2018

Skills

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