Soonbong Lee

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INTERESTS

Platform & Policy Design for Social Good; Socially Responsible Operations; Fairness in Operations; Online & Matching Platforms; Market Design; Dynamic Optimization under Uncertainty; Data-driven Decision Making; Human-AI Interaction; Resource Allocation

EDUCATION

Yale University — Sep. 2021 - Present
Ph.D. Candidate in Operations, School of Management — New Haven, CT
- Advisor: Vahideh Manshadi
Master of Philosophy in Operations — Sep. 2021 - Aug 2024
Master of Arts in Operations

Yonsei University — Sep. 2019 - Aug. 2021
Master of Science in Management Science — Seoul, Korea
- Advisor: Seongmoon Kim

Yonsei University — Mar. 2013 - Aug. 2019
Bachelor of Business Administration — Seoul, Korea
Bachelor of Arts in Applied Statistics
- *Summa Cum Laude*

ACCEPTED AND WORKING PAPERS

1. "Dynamic Matching with Post-Allocation Service and its Application to Refugee Resettlement," with Kirk Bansak, Vahideh Manshadi, Rad Niazadeh, and Elisabeth Paulson. *Management Science*, Forthcoming, 2025. [SSRN]

    (a) **Finalist, George Nicholson Student Paper Competition, 2025 (Winner TBA)**

    (b) **Finalist, Service Science Best Student Paper Award, 2025 (Winner TBA)**

    (c) **First place, MSOM Best Student Paper Competition, 2024**

    (d) **First place, Michael H. Rothkopf Junior Researcher Paper Prize (awarded by INFORMS Auctions and Market Design Section), 2024**

    (e) Conference version accepted to *The 25th ACM Conference on Economics and Computation (EC)*, 2024

    (f) Accepted for oral presentation at the NBER Market Design Working Group Meeting, 2024

    (g) Oral presentation at *The 4th ACM Conference on Equity & Access in Algorithms, Mechanisms, & Optimization (EAAMO)*, 2024

    (h) Media: "Using Operations Research to Improve the Refugee Resettlement Process." Yale Insights

2. "Why the Rooney Rule Fumbles: Limitations of Interview-stage Diversity Interventions in Labor Markets," with Setareh Farajollahzadeh, Vahideh Manshadi, and Faidra Monachou. Major Revision at *Operations Research*, 2025. [SSRN]

    (a) Conference version accepted to *The 26th ACM Conference on Economics and Computation (EC)*, 2025

(b) Extended abstract at *The 5th ACM Conference on Equity & Access in Algorithms, Mechanisms, & Optimization (EAAMO)*, 2025

3. "Who to Offer, and When: Redesigning Feeding America's Real-Time Donation System," with Vahideh Manshadi and Daniela Saban. Working Paper. (Draft available upon request)

4. "Portfolio Evaluation with the Vector Distance Based on Portfolio Composition," with Heonbae Jeon, Hongseon Kim, Seung Bum Soh, and Seongmoon Kim. *Mathematics*, 11(1): 221, 2023.

5. "Improving Portfolio Performance with Distance-based Portfolio Combining Algorithms," with Hongseon Kim, Seung Bum Soh, and Seongmoon Kim. *Journal of Financial Research*, 45(4): 941–959, 2022.

WORK IN PROGRESS

1. "Improving Matching Systems through Human–Algorithm Feedback: Learning from Non-Compliance with Large Language Models," with Ari Lerner, Vahideh Manshadi, and Daniela Saban, 2025.

2. "Design of Priority List for Allocating Perishable Items: Efficiency–Equity Trade-offs and Optimal Policies," with Ari Lerner and Vahideh Manshadi, 2025.

PEER-REVIEWED CONFERENCE PAPERS

1. "Why the Rooney Rule Fumbles: Limitations of Interview-stage Diversity Interventions in Labor Markets," with Setareh Farajollahzadeh, Vahideh Manshadi, and Faidra Monachou. *Proceedings of the 26th ACM Conference on Economics and Computation (EC)*, 2025.

2. "Dynamic Matching with Post-Allocation Service and its Application to Refugee Resettlement," with Kirk Bansak, Vahideh Manshadi, Rad Niazadeh, and Elisabeth Paulson. *Proceedings of the 25th ACM Conference on Economics and Computation (EC)*, 2024.

HONORS AND AWARDS

Finalist, George Nicholson Student Paper Competition, 2025 (Winner TBA)

Finalist, Service Science Best Student Paper Award, 2025 (Winner TBA)

First Place, MSOM Best Student Paper Competition, 2024

First Place, Michael H. Rothkopf Junior Researcher Paper Prize (awarded by INFORMS Auctions and Market Design Section), 2024

Martin Shubik Fellowship, Yale School of Management, 2024

Graduate Fellowship, Yale University, 2021–2026

Graduate Merit-based Scholarship, Kwanjeong Educational Foundation, 2020–2021

Outstanding Master Student Grant, Yonsei University, 2019–2020

Brain Korea 21 Scholarship, National Research Foundation of Korea, 2019–2020

President's Award for Graduation with Highest Honor, Yonsei University, 2019

National Academic Excellence Scholarship, Korea Student Aid Foundation, 2017–2019

Finalist, LG Global Challenger Undergraduate Research Competition, 2017

Semester Highest Honors for Top 1% Students, Yonsei University, 2014, 2019

Semester Honors for Top 3% Students, Yonsei University, 2013, 2016, 2017

INVITED TALKS & CONFERENCE PRESENTATIONS	1. Oct 2025, INFORMS Annual Meeting, Seattle, WA (Scheduled)

- Sunday, Oct. 26, 2:45PM — Session SD50: Socially Aware Service Operations
- Sunday, Oct. 26, 4:15PM — Session SE01: George Nicholson Student Paper Competition
- Tuesday, Oct. 28, 2:45PM — Session TD05: Service Science Award Session III (Best Student Paper Competition)

"Who to Offer, and When: Redesigning Feeding America's Real-Time Donation System"

2. July 2025, INFORMS Revenue Management and Pricing Section Conference, Columbia Business School
3. June 2025, MSOM Annual Conference, London Business School

"Diversity in Labor Market: Implications of the Rooney Rule"

4. Oct 2024, INFORMS Annual Meeting, Seattle, WA

"Dynamic Matching with Post-Allocation Service and its Application to Refugee Resettlement"

5. Sep 2025, Next-Gen Scholar's Symposium, National University of Singapore
6. Oct 2024, INFORMS Annual Meeting, Seattle, WA
7. July 2024, INFORMS Revenue Management and Pricing Section Conference, UCLA
8. July 2024, The 25th ACM Conference on Economics and Computation (EC'24), Yale University
9. June 2024, MSOM Annual Conference, University of Minnesota
10. June 2024, The 5th Annual Symposium on Foundations of Responsible Computing (FORC), Harvard University
11. May 2024, Ninth Marketplace Innovation Workshop, Virtual
12. April 2024, POMS Annual Conference, Minneapolis, MN
13. Oct 2024, INFORMS Annual Meeting

TEACHING EXPERIENCE	**Yale University**	New Haven, CT

Teaching Assistant, Data Science — 2022 - Present
- Overall student evaluations: 4.8/5 (Department average 4.5) in Spring 2024; 4.7/5 (Department average 4.3) in Spring 2025

Yonsei University	Seoul, Korea

Teaching Assistant, Introduction to Management Science — 2020 - 2021
- Honor for Top 0.5% Teaching Effectiveness Score

Teaching Assistant, Decision Making under Uncertainty — 2020 - 2021

OTHER EXPERIENCES	**Korean Augmentation to the United States Army**	Sep. 2014 - Jun. 2016
	Sergeant	Dongducheon, Korea