

# Eojin Han

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## ACADEMIC APPOINTMENT

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**Assistant Professor** 2024 –

*Information Technology, Analytics, and Operations*  
*Mendoza College of Business, University of Notre Dame*

**Assistant Professor** 2020 – 2024

*Operations Research and Engineering Management*  
*Lyle School of Engineering, Southern Methodist University*

## EDUCATION

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**Ph.D., Northwestern University** 2020

*Industrial Engineering and Management Sciences*

- Dissertation: Leveraging Structure of Uncertainty for Adaptive Policies in Multistage Decision-Making
- Committee: Omid Nohadani (Chair), Chaithanya Bandi, David Morton, and Melvyn Sim

**B.S., Seoul National University** 2015

*Mathematics and Electrical Engineering (Double major)*

## RESEARCH

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Authors' names are listed in the order of contribution for papers labeled with <sup>†</sup>.

### Published/Accepted Journal Articles

1. Chaithanya Bandi, Eojin Han, and Omid Nohadani (2019) *Sustainable Inventory with Robust Periodic-Affine Policies and Application to Medical Supply Chains*. **Management Science** 65(10):4636-4655.
2. Eojin Han, Chaithanya Bandi, and Omid Nohadani (2023) *On Finite Adaptability in Two-Stage Distributionally Robust Optimization*.<sup>†</sup> **Operations Research** 71(6):2307-2327.
3. Chaithanya Bandi, Eojin Han, and Alexej Proskynitopoulos (2024) *Robust Queue Inference from Waiting Times*. **Operations Research** 72(2):459-480.
4. Eojin Han and Omid Nohadani (2024) *Nonlinear Decision Rules Made Scalable by Nonparametric Liftings*. Forthcoming at **Management Science**.

### Work in Progress

5. Eojin Han, Kartikey Sharma, Kristian Singh, and Omid Nohadani. *Dynamic Capacity Management for Deferred Surgeries*.<sup>†</sup> In preparation for submission to Operations Research.
  - Selected for presentation at **MSOM Healthcare SIG 2022**
6. Sila Çetinkaya and Eojin Han. *Distributionally Robust Time-Based Policies for Stochastic Clearing Systems*. In preparation for submission to Operations Research.
7. Eojin Han and Alexej Proskynitopoulos. *Distributionally Robust Queue Inference from Sojourn Times*. In preparation for submission to Operations Research.
8. Milad Armaghan, Sila Çetinkaya, and Eojin Han. *Competitive Newsvendors under Limited Information*. In preparation for submission to Management Science.

9. Doran Wood, Eojin Han, and Sila Çetinkaya. *Distributionally Robust Ordering Policies for Inventory Decisions under Social Initiatives*.<sup>†</sup> In preparation for submission to *Production & Operations Management*.

## Other Publications

10. Jill Wilson, David Morton, Eojin Han, and Eloise Chudik (2021) *Flipping Out for Probability*. **Proceedings of the 2021 IISE Annual Conference**.
  - Awarded IISE Engineering Education Track Best Paper Award
11. Fisar, M., Greiner, B., Huber, C., Katok, E., Ozkes, A., and the Management Science Reproducibility Collaboration (2024) *Reproducibility in Management Science*. **Management Science** 70(3):1343-1356.
  - Participated as a member of the Management Science Reproducibility Collaboration

## TEACHING

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### Instructor

*Southern Methodist University*

- Discrete Event Simulation (Undergraduate): Spring 21' (Evaluation: 4.5/5), Fall 21' (4.7/5), Spring 24'
- Information Engineering (Undergraduate): Spring 24'
- Analytics for Decision Support (Undergraduate/Master): Fall 21' (4.6/5), Spring 22' (4.8/5), Spring 23' (4.7/5)
- Linear Programming (PhD): Fall 22', 23'

### Teaching Assistant

*Northwestern University*

- Probability (Undergraduate): Fall 16', 17', 18', Winter 18', Spring 17', 19'
- Mathematical Optimization II (PhD): Winter 17'

## AWARDS AND HONORS

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<b>Lyle School of Engineering Research Seed Funding</b> <i>Southern Methodist University</i>	<b>2023</b>
<b>First Place, IISE Engineering Education Track Best Paper Award</b> <i>Institute of Industrial and Systems Engineers</i>	<b>2021</b>
<b>McCormick Terminal Year Dissertation Fellowship</b> <i>Northwestern University</i>	<b>2019</b>
<b>Walter J. Murphy Graduate Student Fellowship</b> <i>Northwestern University</i>	<b>2015</b>
<b>National Scholarship for Science and Engineering for Undergraduate Students</b> <i>Korea Student Aid Foundation</i>	<b>2008</b>
<b>Gold Medal in Korea Physics Olympiad</b> <i>Korean Physics Society</i>	<b>2006</b>

## INVITED SEMINARS

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- Kelley School of Business, Indiana University (Dec 2023)
- Mendoza College of Business, University of Notre Dame (Nov 2023)
- Industrial and Management Engineering, Pohang University of Science and Technology, (Apr 2023, virtual)
- Industrial Engineering, Seoul National University (Jun 2022)
- Operations Strategy & Management Science, KAIST Business School (Jun 2022)
- Industrial Engineering and Decision Analytics, Hong Kong University of Science and Technology (Mar 2020, virtual)
- Industrial Engineering, Clemson University (Jan 2020)
- Engineering Management and Information Systems, Southern Methodist University (Jan 2020)
- CUHK Business School, Chinese University of Hong Kong (Jan 2020)
- Tippie College of Business, University of Iowa (Dec 2019)
- Industrial and Systems Engineering, Korea Advanced Institute of Science and Technology (Dec 2019)

## CONFERENCE PRESENTATIONS

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Presentations delivered by co-authors are labeled with <sup>†</sup>.

- *K*-Adaptability in Two-Stage Distributionally Robust Binary Program: A Primal Perspective
  - INFORMS Annual Meeting 2023<sup>†</sup>
- Distributionally Robust Time-Based Policies for Stochastic Clearing Systems
  - POMS 2023, INFORMS Annual Meeting 2023
- Robust Queue Inference from Waiting Times
  - MSOM 2022, POMS 2023, POMS-HK 2024, POMS 2024
- Nonlinear Decision Rules Made Scalable by Nonparametric Liftings
  - International Conference on Continuous Optimization 2022, SIAM Conference on Optimization 2023, INFORMS Annual Meeting 2023, INFORMS Optimization Society Conference 2024
- Dynamic Capacity Management for Deferred Surgeries
  - INFORMS Healthcare 2021, INFORMS Annual Meeting 2021, 2022, INFORMS Optimization Society Conference 2022, POMS 2022, 2023, MSOM Healthcare SIG 2022<sup>†</sup>
- On Finite Adaptability in Two-stage Distributionally Robust Optimization
  - INFORMS Annual Meeting 2019, 2020, 2021, EURO 2021, INFORMS Optimization Society 2022
- Sustainable Inventory with Robust Periodic-Affine Policies and Application to Medical Supply Chains
  - MSOM 2017, INFORMS Annual Meeting 2017, 2019, International Conference on Continuous Optimization 2019

## PROFESSIONAL ACTIVITIES

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- Reviewer for peer-reviewed academic journals: *Operations Research*, *Management Science*, *Manufacturing & Service Operations Management*, *Production and Operations Management*, *IIE Transactions*, *SIAM Journal on Optimization*, *Omega: The International Journal of Management Science*
- Judge, INFORMS Poster Competition 2021
- Judge, INFORMS Data Mining Best Paper Award Competition 2022, 2023
- Conference session organizer:
  - Optimizing Supply Chains under Uncertainty, INFORMS Annual Meeting 2019
  - Improving Solutions in Distributionally Robust Optimization, INFORMS Annual Meeting 2020
  - Decision Making under Multistage Uncertainty, INFORMS Annual Meeting 2021
  - Leveraging Structure of Uncertainty in Dynamic Optimization, INFORMS Annual Meeting 2022
  - Optimization for Healthcare Operations, POMS Conference 2023
  - Recent Advances in Distributionally Robust Optimization I & II, INFORMS Annual Meeting 2023 (co-chaired with Yiling Zhang)
  - Decision Rules for Dynamic Decision-Making, INFORMS Annual Meeting 2023
  - Operational Decision-Making under Uncertainty, INFORMS Annual Meeting 2024 (co-chaired with Milad Armaghan)
- Attended INFORMS New Faculty Colloquium (2020, virtual)
- SMU OREM departmental seminar coordinator (Academic year 2023-24)
- Student/postdoc advising:
  - Doran Wood (SMU OREM PhD, co-advising with Sila Cetinkaya)
  - Milad Armaghan (SMU OREM postdoc, co-advising with Sila Cetinkaya)
- Dissertation committee of:
  - Sakitha Ariyaratne (SMU OREM)
  - Hao Jiang (SMU OREM)

## SKILLS

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- Programming: Python, R, Julia, Matlab, C++
- Software: Gurobi, CPLEX, Mosek
- Languages: English (fluent), Korean (native)

## OTHERS

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<b>President</b> <i>Korean Graduate Student Association of Northwestern University</i>	<b>2017 – 2018</b>
<b>Military Service</b> <i>Korean Augmentation to the United States Army</i>	<b>2011 – 2012</b>

## REFERENCES

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Available upon request