# YU NU

SC Johnson College of Business ⋄ Cornell Tech/Cornell University

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## EDUCATION

**Cornell Tech/Cornell University** — New York, NY
Ph.D. in Operations, Technology & Information Management (GPA: 4.1/4.3) — 2019 - 2025
Cornell SC Johnson College of Business — (expected)

**Wuhan University** — Wuhan, China
B.S. in Management Science and Engineering (with highest honors) — 2015 - 2019

## RESEARCH INTERESTS

*Topic*: Food Waste, Sustainability, AI and Operations, Digital Technology, Data-Driven Perishable Inventory Management

*Methodology*: Causal Inference, Machine Learning, Data-Driven Optimization, Experiments

## RESEARCH PAPERS

### Papers Published and Under-Review

1. "Using Artificial Intelligence to Reduce Food Waste." with Elena Belavina and Karan Girotra, *Under review at Management Science.*

2. "Pricing and Capacity Allocation: Implications for Manufacturers with Product Sharing." with Bin Dai, *Naval Research Logistics* 2020, 67(3): 201-222.

3. "Interactions of Traceability and Reliability Optimization in a Competitive Supply Chain with Product Recall." with Bin Dai and Jianbin Li, *European Journal of Operational Research* 2021, 290(1): 116-131.

### Work in Progress

1. "AI Co-Pilots for Data-driven Perishable Inventory Management." with Meng Qi, Elena Belavina and Karan Girotra, *In Preparation.*

2. "Identification of Behavioral Decision Models for Perishable Products Using Moment Inequalities." with Elena Belavina and Karan Girotra, *Work in Progress.*

## HONORS & AWARDS

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| Climate Solutions Fund Award ($111,114), Atkinson Center for Sustainability | 2024 |
| Byron E. Grote Johnson Professional Scholarship, Cornell University | 2020, 2022 |
| Graduate School Fellowship, Cornell University | 2019–2024 |
| Wuhan Outstanding Graduates Award, Wuhan University | 2019 |
| National Scholarship (Top 1.8%), Wuhan University | 2016 –2018 |

## TEACHING EXPERIENCE

**Instructor** — Cornell Tech

⋄ Review Session for NCCW 5080 Managing Operations (Healthcare EMBA), 4.80/5 — Fall 2022

⋄ Review Session for NCCY 5080 Operations Management (MBA), 4.85/5 — Fall 2021

**Teaching Assistant** — Cornell Tech

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| ⬦ NCCY 5080 Operations Management (MBA), 4.82/5 | Fall 2022 |
| ⬦ NCCE 5080 Managing Operations (EMBA), 4.60/5 | Spring 2022 |
| ⬦ NCCE 5080 Managing Operations (EMBA) | Spring 2021 |
| ⬦ NCCY 5080 Operations Management (MBA) | Fall 2020 |

## SELECTED INVITED TALKS

**"AI Co-Pilots for Data-driven Perishable Inventory Management"**

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| ⬦ INFORMS MSOM Conference, Minneapolis, MN | Jun 2024 |
| ⬦ INFORMS Annual Meeting, Indianapolis, IN | Oct 2022 |

**"Using Artificial Intelligence to Reduce Food Waste"**

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| ⬦ INFORMS Annual Meeting, Seattle, WA (*scheduled*) | Oct 2024 |
| ⬦ First OM Workshop on Food Waste Reduction, Munich, Germany (*scheduled*) | Sep 2024 |
| ⬦ INFORMS Annual Meeting, Phoenix, AZ | Oct 2023 |
| ⬦ INFORMS MSOM Conference, Montreal, QC, Canada | Jun 2023 |
| ⬦ Early-Career Sustainable OM Workshop, Amherst, MA | Feb 2023 |
| ⬦ CHR Board Annual Meeting, New York, NY | Nov 2022 |
| ⬦ Johnson OTIM PhD Forum, Ithaca, NY | Dec 2021 |
| ⬦ INFORMS Annual Meeting, Anaheim, CA | Oct 2021 |

"Pricing and Capacity Allocation: Implications for Manufacturers with Product Sharing"

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| ⬦ POMS-HK International Conference, Hong Kong | Jan 2018 & 2019 |

"Interactions of Traceability and Reliability Optimization in a Competitive Supply Chain with Product Recall"

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| ⬦ International Workshop on Behavioral Operations Management, Guangzhou | Dec 2018 |

## SERVICE

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| ⬦ Session Co-chair, INFORMS Annual Meeting | 2024 |
| ⬦ Reviwer for BOM Best Student Paper Competition | 2024 |
| ⬦ Program Committee Member for INFORMS Data Science Workshop | 2024 |
| ⬦ Co-chair, Johnson OTIM PhD Forum, Cornell University | 2021–2022 |

## SELECTED COURSEWORK

*Cornell ORIE/CS/Cornell Tech*: Mathematical Programming, Applied Stochastic Processes, Theory of Causal Inference & Decision-Making, Data-Driven Optimization, Machine Learning & Data Science
*Cornell ECON*: Econometrics I & II, Semi/Nonparametric Economics, Microeconomic Theory

## SKILLS

- ⬦ **Programming**: Python, R, Matlab, SQL, LaTeX, Lyx
- ⬦ **Language**: Mandarin (native), English (fluent)
- ⬦ **Music**: Violin (Member of the Musicians Association, China)

# REFERENCES

**Prof. Karan Girotra**
Operations, Technology & Information Management
SC Johnson College of Business
Cornell Tech/Cornell University
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**Prof. Meng Qi**
Operations, Technology & Information Management
SC Johnson College of Business & The Nolan School
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**Prof. Elena Belavina**
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