

# LORRAINE YUAN

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## EDUCATION

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<b>Cornell University, Cornell Tech</b> Ph.D. in Operations, Technology & Information Management Samuel Curtis Johnson Graduate School of Management	New York, NY 2020 - 2026 (expected)
M.Eng. in Operations Research & Information Engineering School of Operations Research and Information Engineering	2019-2020
<b>Renmin University of China</b> B.S. in Mathematics and Applied Mathematics B.A. in Economics	Beijing, China 2015 - 2019
<b>Erasmus University Rotterdam</b> Exchange Program, Erasmus School of Economics	Rotterdam, Netherland 2017

## RESEARCH INTEREST

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Data-driven Decision-making, Mechanism Design, Consumer Privacy, Generative AI Adoption, Inventory Management, Modelling Under Uncertainty, Differential Privacy

## RESEARCH PAPER

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### Working Paper

1. “The Privacy-preserving Data-driven Inventory Management.” with Karan Girotra and Elena Belavina. *In preparation for submission.*
2. “Strategic Private Information Acquisition for News Vendor.” with Karan Girotra and Elena Belavina. *Work in progress.*
3. “Generative AI Copilot in a Production Network.” with Karan Girotra and Elena Belavina. *Work in progress.*

### Pre-PhD Publication

4. Application of Machine Learning in Econometrics: Improvement of causal forest model based on SVM (in Chinese)
  - *Undergrad Thesis of Renmin University, Best Undergrad Thesis Award*
  - *Accepted at Annual Conference of Chinese Decision Science'19*

## TEACHING EXPERIENCE

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<b>Co-instructor</b>	Johnson Graduate School of Management, Cornell University
◊ Weekly review sessions for NCCE 5080 Managing Operations	Spring 2023
<b>Teaching Assistant</b>	Johnson Graduate School of Management, Cornell University
◊ NBAY6550: Business Data Analysis with SQL	Summer 2024

- ◇ eCornell Certificate Program: Generative AI for Business Transformation Spring 2024
- ◇ NCCE 5080 Managing Operations Spring 2021,2023
- ◇ NCCY 5080 Managing Operations Fall 2022,2023
- ◇ HADM 7030 Operations Management (Cornell-Peking MBA) Spring 2023
- ◇ NBAE 6830/5750 Innovation & New Venture Creation/The Customer Experience Fall 2021

## PRESENTATION

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“The Privacy-Preserving Data-driven Inventory Management.”

- ◇ 2024 MSOM Annual Conference, Minneapolis, MN June 2024
- ◇ 2023 INFORMS Annual Conference, Phoenix, AZ Oct 2023
- ◇ 2023 MSOM Annual Conference, Montreal, Canada June 2023
- ◇ OTIM PhD Forum, Johnson Graduate School of Management, Cornell University Dec 2022
- ◇ 2022 INFORMS Annual Conference, Indianapolis, IN Oct 2022

## HONOR & AWARD

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- Digital Life Initiative (DLI) Doctoral Fellowship, Cornell University 2024
- Byron E. Grote Johnson Professional Scholarship, Cornell University 2021
- Cornell University Doctoral Fellowship, Cornell University 2020-2025
- Noel Croucher Graduate Fellowship (\$20000), Cornell University 2019
- Lester.B.Knight Scholarship (\$40000), Cornell University 2019
- Meritorious Winner in ICM (Interdisciplinary Contest in Modeling), COMAP 2018
- First Class Study Scholarship, Renmin University of China 2018

## SERVICE & MISCELLANEOUS

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- Co-chair, OTIM PhD Forum, Cornell University 2022 - 2023
- Session Co-chair, 2022 INFORMS Annual Conference 2022

## PROFESSIONAL EXPERIENCE

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- Cardinal Operations** Sept 2018 - April 2019  
*Algorithm Engineer Intern* Beijing, China  
 Cardinal Operations is a provider of enterprise-scale big data optimization solutions. As an algorithm engineer, I conducted sales forecast using ML algorithms and derived pricing solutions for client companies.

## SKILLS

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- Programming Skills** Python, Matlab, R, Stata, SQL, L<sup>A</sup>T<sub>E</sub>X
- Language** Mandarin (native), Cantonese (native), English (fluent)