LORRAINE YUAN

929.310.2008 ⋄ hy557@cornell.edu

Cornell Tech ⋄ Cornell University

2 W Loop Road ⋄ New York, NY 10044

EDUCATION

Cornell University, Cornell Tech — New York, NY
Ph.D. in Operations, Technology & Information Management — 2020 - 2026
Samuel Curtis Johnson Graduate School of Management — (expected)

M.Eng. in Operations Research & Information Engineering — 2019-2020
School of Operations Research and Information Engineering

Renmin University of China — Beijing, China
B.S. in Mathematics and Applied Mathematics — 2015 - 2019
B.A. in Economics

Erasmus University Rotterdam — Rotterdam, Netherland
Exchange Program, Erasmus School of Economics — 2017

RESEARCH INTEREST

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

RESEARCH PAPER

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

Co-instructor — Johnson Graduate School of Management, Cornell University

⋄ Weekly review sessions for NCCE 5080 Managing Operations — Spring 2023

Teaching Assistant — 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

"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

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

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

PROFESSIONAL EXPERIENCE

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

Programming Skills	Python, Matlab, R, Stata, SQL, LaTeX
Language	Mandarin (native), Cantonese (native), English (fluent)