

# Chengyi Lyu

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## EDUCATION

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<b>University of Colorado Boulder</b> , Boulder, CO, USA	08/2020 - Present
Ph.D. Candidate, Operations Management, Leeds School of Business	
Co-advisors: Professor Huanan Zhang and Professor Dan Zhang	
<b>The Pennsylvania State University</b> , State College, PA, USA	08/2019 - 08/2020
M.S., Industrial Engineering & Operations Research	
<b>University of Science and Technology of China</b> , Hefei, Anhui, China	08/2013 - 07/2017
B.S., Mathematics	

## RESEARCH & TEACHING INTERESTS

Research: Revenue Management, Supply Chain Management, Online Optimization, Approximation Algorithms.

Teaching: Operations & Supply Chain Management, Revenue Management, Business Analytics, Statistics.

## RESEARCH PAPERS

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- Stefanus Jasin, Chengyi Lyu, Sajjad Najafi, Huanan Zhang (alphabetically ordered). Assortment Optimization with Multi-Item Basket Purchase under Multivariate MNL Model. Forthcoming at ***Manufacturing & Service Operations Management***.
    - Finalist in POMS-HK 2023 Best Student Paper Competition.
    - Selected for presentation in the MSOM Supply Chain Management SIG, 2023.
  - Chengyi Lyu, Huanan Zhang, Linwei Xin. UCB-Type Learning Algorithms with Kaplan-Meier Estimator for Lost-Sales Inventory Models with Lead Times. Under Minor Revision at ***Operations Research***.
  - Chengyi Lyu, Dan Zhang, Huanan Zhang. Customer Reward Programs for Two-sided Markets. *Working paper*.
  - Stefanus Jasin, Chengyi Lyu, Huanan Zhang, Andrew Vakhutinsky. Assortment and Price Optimization under MNL Model with Price Range Effect. *Working paper*.

## TEACHING EXPERIENCES

**Sole Instructor**, University of Colorado Boulder

- MGMT 4120 Managing Business Processes (Undergraduate) Spring 2022 and Fall 2022
- **Graduate Part-Time Instructor Teaching Recognition Award** (University Award)

**Teaching Assistant**, University of Colorado Boulder

- BCOR 2206 Principles of Operations Management Fall 2021

**Teaching Assistant**, University of Science and Technology of China

- MATH 1009 Linear Algebra (B1) Spring 2016
- MATH 1357 Analytic Geometry Fall 2016

## INDUSTRY EXPERIENCES

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- Research Scientist II Intern, **Amazon**, Seattle, WA 05/2023 - 08/2023
  - The Retail Pricing Science and Research Team
  - Mentored by Pau Pereira and Ozge Sahin
- Research Intern, **Oracle Labs**, Broomfield, CO (Remote) 05/2021 - 08/2021
  - The Modeling, Simulation and Optimization Research Group
  - Mentored by Andrew Vakhutinsky

## CONFERENCES & TALKS

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- Assortment Optimization with Multi-Item Basket Purchase under Multivariate MNL Model
  - POMS Annual Conference, Orlando, Florida, 2023.
  - POMS-HK International Conference, Hong Kong, 2023.
  - INFORMS Annual Meeting, Indianapolis, IN, 2022.
  - INFORMS Annual Meeting, Virtual, 2021.
- Assortment and Price Optimization under MNL Model with Price Range Effect
  - ACM Conference on Economics and Computation Workshop, Boulder, CO, 2022.
- Efficient UCB-Type Learning Algorithms for Lost-Sales Inventory Models with Lead Times and Censored Demand
  - INFORMS Annual Meeting, Virtual, 2020.

## AWARDS

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- Finalist, POMS-HK 2023 Best Student Paper Competition 2023
- Graduate Part-Time Instructor Teaching Recognition Award, University of Colorado Boulder 2022
- Gerald Hart Research Fellowship, University of Colorado Boulder 2022
- University Fellowship Award, University of Colorado Boulder 2020 - 2022
- PhD Fellowship, University of Colorado Boulder 2020 - 2024
- Outstanding Graduate Award, University of Science and Technology of China 2017
- Outstanding Student Award, University of Science and Technology of China 2014 - 2016

## SERVICES

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- Reviewer for *Manufacturing & Service Operations Management*, *Production and Operations Management*.
- Session Chair for POMS 2023, INFORMS 2023.
- Reviewer for 2023 MSOM SIG, 2023 CSAMSE Best Paper Competition.

## SKILLS

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Technical Skills	Python, C, R, MATLAB, SAS, $\text{\LaTeX}$
Language	English (fluent), Mandarin (native)