

Chengyi Lyu

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EDUCATION

University of Colorado Boulder , Boulder, CO, USA	08/2020 - Present
Ph.D. Candidate, Operations Management, Leeds School of Business	
Co-advisors: Professor Huanan Zhang and Professor Dan Zhang	
The Pennsylvania State University , State College, PA, USA	08/2019 - 08/2020
M.S., Industrial Engineering & Operations Research	
University of Science and Technology of China , 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 (soon to be submitted to Management Science)*.
 - Stefanus Jasin, Chengyi Lyu, Huanan Zhang, Andrew Vakhutinsky. Assortment and Price Optimization under MNL Model with Price Range Effect. *Working paper (available upon request)*.

TEACHING EXPERIENCES

Sole Instructor, University of Colorado Boulder

- MGMT 4120 Managing Business Processes (Undergraduate) Spring 2022 and Fall 2022
 - Spring 2022: Enrollment 44, Evaluation 4.0/5
 - Fall 2022: Enrollment 51, Evaluation 4.0/5
 - **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

INDUSTRY EXPERIENCES

- 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
 - Worked on an assortment optimization project with a specific focus on improving ‘Frequently Bought Together’ recommendations and ‘Buy X Get Y Free’ reward programs.
- Research Intern, **Oracle Labs**, Broomfield, CO (remote) 05/2021 - 08/2021
 - The Modeling, Simulation and Optimization Research Group
 - Mentored by Andrew Vakhutinsky
 - Developed an efficient recommendation system optimizing personalized offers and pricing for rate-grouped room types.
 - Patent Application: ORC21134333 (2011-0646US01)

CONFERENCES & TALKS

- 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

- 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

- 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

Technical Skills	Python, C, R, MATLAB, SAS, L ^A T _E X
Language	English (fluent), Mandarin (native)

REFERENCES

Professor **Huanan Zhang**

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Professor **Dan Zhang**

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Professor **Linwei Xin**

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