

Yuan Qu

CONTACT INFORMATION	Email: yuanqu@hku.hk Website: ryanqu.com Address: Room 8-24, Haking Wong Building, The University of Hong Kong, Central West District, Hong Kong
EMPLOYMENT	<div>The University of Hong Kong Department of Data and Systems Engineering Post-doctoral Fellow Supervisor: Max Z.J. Shen 09/2023 - present</div> <div>Rutgers, the State University of New Jersey Rutgers Business School – Newark and New Brunswick Non-tenure-track Instructor Part-time Lecturer 09/2021 - 12/2022 09/2019 - 08/2021</div>
EDUCATION	<div>Rutgers, the State University of New Jersey Rutgers Business School – Newark and New Brunswick Ph.D. in Management (Concentration on Operations Research) 2023 Advisor: Jian Yang Committee: Andrzej Ruszczynski, Endre Boros, Thomas Lidbetter, and Ming Hu M.S. in Information Technology and Analytics 2018 Advisor: Hui Xiong</div> <div>University of Electronic Science and Technology of China School of Management and Economics B.S. in Management 2017 School of Information and Communication Engineering B.S. in Electronic Engineering 2017</div>
PUBLICATIONS	How Many Are Too Many? Analyzing Dockless Bikesharing Systems with a Parsimonious Model Hongyu Zheng, Kenan Zhang, Macro Nie, Pengyu Yan, Yuan Qu Transportation Science, 58(1):152-175, 2023. Link
UNDER REVIEW	<div>When Airline Insurance Meets a Pandemic: Designing Machine Learning Resilience Under Volatile Drift and Data Deficiency Jingjing Li, Yuan Qu, Jingyuan Yang (<i>author names in alphabetical order</i>), Information Systems Research, <i>Reject & Resubmit</i>, Abstract Available on SSRN.</div> <div>Opaque Selling to Strategic Buyers Yuan Qu, Jian Yang <i>Under Review</i>, Available on SSRN.</div> <div>Dynamic Inventory-Price Control during Opaque Selling of Horizontally Differentiated Products. Yuan Qu, Jian Yang. <i>Under Review</i>, Available on SSRN.</div> <div>Diminishing Social Capital Returns from Employee Ambassadorship: Evidence from WeChat</div>

Chaitanya Kaligotla, Sarah Wittman, Jingyuan Yang, Yuan Qu, Wei Zeng
Under Review, Available on SSRN.

Matching-while-learning: Dynamic Matching Framework for Cloud Manufacturing Platforms

Liu Yang, Yuan Qu, Pengyu Yan
Under Review.

Everyone Contributes! Incentivizing Strategic Cooperation in Multi-LLM Systems via Sequential Public Goods Games

Yunhao Liang, Yuan Qu, Jingyuan Yang, Shaochong Lin, Max Z.J. Shen
Under Review, Available on arXiv.

RESEARCH IN PROGRESS

Operation Strategy for Styling Box Platform
with Max Z.J. Shen

Personalized Online Learning Framework for Styling Box Recommendation
with Pujun Zhang and Max Z.J. Shen

Charge Smarter, Not Harder: The Delicate Balance of Shared E-Bike Operations
with Lingyun Zhang, Shaochong Lin, and Max Z.J. Shen

Who Should Pay for the Sharing? Mechanism Design of Resource Allocation in Headquarters-Branch Networks
with Shan Li and Max Z.J. Shen

Dynamic Operation Management Considering Customer Engagement for Styling Box Platform
with Pujun Zhang and Max Z.J. Shen

How Large Are Too Large? Deployment Region Analysis of Dockless Electronic Bike-Sharing Systems
with Pengyu Yan and Max Z.J. Shen

Reinforcement Learning for Dynamic Matching on Cloud Manufacturing Platforms under Non-stationary Arrivals
with Liu Yang and Pengyu Yan

One Size Does Not Fit All: Personal Match and Marketing Message Effectiveness on Social Networks
with Jingyuan Yang and Wei Zeng

GRANTS

4-VA Collaborative Research Grants, 2024

Role: Participant (PI: Jingjing Li)

Title: Building Machine Learning Resilience During Disasters.

National Key Research and Development Project - Key Special Project,
12/2024 - 11/2027

¥27,000,000, HKU-SIRI (¥1,440,000)

Role: Co-I (Co-PI: Shaochong Lin)

Title: New-generation Smart Manufacturing ERP.

TEACHING	<p><i>Postdoctoral Fellow, The University of Hong Kong,</i> <i>Department of Data and Systems Engineering</i> Advanced Industrial Engineering Technology Seminar, IMSE7002 Spring 2025</p> <p><i>Instructor, Rutgers Business School</i> Product and Operations Management (Undergraduate), 29:623:311 Fall 2022</p> <p>Management Information Systems (Undergraduate), 33:136:370 Spring 2020, Fall 2020, Spring 2021, Fall 2021, Spring 2022</p> <p>Business Data Management (Graduate), 26:198:603 Fall 2019</p> <p>Statistical Methods for Business (Undergraduate), 33:136:375 Fall 2019</p> <p><i>Teaching Assistant, Rutgers Business School</i> Business Data Management (Graduate), 22:544:603 & 22:198:603 Spring 2019</p>
MENTORING	<p>The University of Hong Kong Department of Data and Systems Engineering</p> <p>M.Sc. Students (<i>co-advise with Max Z.J. Shen and Shaochong Lin</i>) Class of 2024: Jiaxuan Bai, Sijia Liu, Yiting Cai, Jiayu Li, Ziang Liang, and Zhongda Yang Class of 2025: Min Lin, Lang Wang, Yuanjie Cai, Shangyu Yao, Siyuan Cheng, Jingchen Zhou, Shilu Huang, Yuanyan Song, Kanghui Li, Yaowu Cui, Yifan Yang, Kaiou Hu, and Qidong Ge Tianyun Jin, <i>Best Conference Paper Award, 2nd Prize</i>, NSFC/RGC Conference, Hong Kong, 2025</p>
PRESENTATIONS	<p>Operation Strategy for Styling Box Platform The Seventeenth International Conference of CSAMSE, Chengdu, China, 2025 INFORMS Annual Meeting, Seattle, WA, 2024 Invited Research Seminar, UESTC, Chengdu, China, 2024</p> <p>Inventory Control Involving Opaque Selling 14th POMS-HK International Conference, Hong Kong, 2024 INFORMS Annual Meeting, Phoenix, AZ, 2023</p> <p>Understanding Opaque Selling from an Inventory-control Perspective Invited Research Seminar, UESTC, Chengdu, China, 2023 Northeast Decision Sciences Institute Annual Conference, Washington, DC, 2023 INFORMS Annual Meeting, Indianapolis, IN, 2022 Invited Research Seminar, Stony Brook University, Virtual, 2020</p> <p>Drivers for Personal Social Marketing Effectiveness: A Joint View of Content and Diffusion INFORMS Annual Meeting, Virtual, 2020 Invited Research Seminar, UESTC, Chengdu, China, 2020 Rutgers-NJIT Business School Joint Ph.D. Seminar, Newark, NJ, 2019 INFORMS Annual Meeting, Seattle, WA, 2019</p>
ACADEMIC SERVICE	<p>Conference Organizing Committee & Session Chair, The Seventeenth International Conference</p>

of CSAMSE, Chengdu, China, 2025
 Session Chair, INFORMS Annual Meeting, Seattle, WA, 2024

Journal and Conference Refereeing

Operations Research Letters
 Americas Conference on Information Systems (AMCIS)
 INFORMS Workshop on Data Science (DS)
 Pacific Asia Conference on Information Systems (PACIS)
 ACM SIGKDD Conference on Knowledge Discovery and Data Mining (SIGKDD)
 International Conf. on Knowledge Science, Engineering and Management (KSEM)

HONORS AND AWARDS	Best Conference Paper Award, 2nd Prize, <i>NSFC/RGC Conference, Hong Kong</i>	2025
	Dean's Dissertation Fellowship, <i>Rutgers Graduate School</i>	2022
	Dean's Competition for Summer Ph.D. RA, <i>Rutgers Business School</i>	2022
	Dean's Competition for Summer Ph.D. RA, <i>Rutgers Business School</i>	2021
	Dean's Office Summer Scholarships, <i>Rutgers Business School</i>	2020
	Graduate School-Newark Scholarship, <i>Rutgers University</i>	2020
	University Merit Graduate Scholars Award, <i>Rutgers University</i>	2019
	China National College Student Information Security Contest, Bronze Award	
	<i>Ministry of Education of China</i>	2016
	The People's Scholarship in China, <i>UESTC</i>	2016
	China National College Student Entrepreneurship Contest, Bronze Award,	
	<i>Sichuan Province, China</i>	2016
	China National College Student Information Security Contest, Bronze Award,	
	<i>Ministry of Education of China</i>	2015
INDUSTRIAL EXPERIENCE	The Western Star of Innovation and Entrepreneurship, Bronze Award, <i>UESTC</i>	2015
	The Second Level Athletic in China, Go (Weiqi)	2012
	China Mathematical Olympiad, First Prize	2012
	Allianz Partners, Richmond, VA	
	<i>Data Scientist</i>	05/2021 - 08/2021
	Chengdu Value-fan Information Service, Chengdu, China	
	<i>Co-founder</i>	01/2016 - 07/2017