Guodong LYU

✉ oragl@nus.edu.sg | ⚬ guodonglyu.github.io | ☎ (65) 9192 2082
⌂ # 04-01, Innovation 4.0, 3 Research Link, Singapore, 117602

ACADEMIC EXPERIENCE	**National University of Singapore (NUS)** Research Fellow in the Institute of Operations Research & Analytics	Singapore Jan. 2021 - Jun. 2022

EDUCATION

National University of Singapore (NUS) — Singapore
Ph.D. in Operations Management, NUS Business School — Aug. 2014 - Jun. 2019
Advised by Professor Chung-Piaw Teo
Dissertation: "Online Resource Allocation: Theory and Applications"
Finalist in *2019 George B. Dantzig Dissertation Award* Competition

Beijing Normal University (BNU) — Beijing, China
Bachelor of Science, School of Educational Technology — Sep. 2008 - Jul. 2012
GPA: 92.8/100 (1st of the class)
Top-10 Outstanding Undergraduate Award, & Top-1 Popular Undergraduate Award in BNU
Best Bachelor Dissertation Award in BNU, & Outstanding Graduate Award in Beijing City

PUBLICATION

[06] Huan Zheng, **Guodong Lyu**, Jiannan Ke, Chung-Piaw Teo. 2022. From Targeting to Transfer: Design of Allocation Rules in Cash Transfer Programs. *Manufacturing & Service Operations Management* (Articles in Advance).

[05] **Guodong Lyu**, Chung-Piaw Teo. 2022. Last Mile Innovation: The Case of the Locker Alliance Network. *Manufacturing & Service Operations Management* (Articles in Advance).

[04] **Guodong Lyu**, Mabel C. Chou, Chung-Piaw Teo , Zhichao Zheng, Yuanguang Zhong. 2021. Stochastic Knapsack Revisited: The Service Level Perspective. *Operations Research* (Articles in Advance).

[03] Libo Sun, **Guodong Lyu**, Yugang Yu, Chung-Piaw Teo. 2021. Cross-Border E-commerce Data Set: Choosing the Right Fulfillment Option. *Manufacturing & Service Operations Management*, 23(5), 1297-1313.

[02] Libo Sun, **Guodong Lyu**, Yugang Yu, Chung-Piaw Teo. 2020. Fulfillment by Amazon versus Fulfillment by Seller: An Interpretable Risk-Adjusted Fulfillment Model. *Naval Research Logistics*, 67, 627-645.

[01] **Guodong Lyu**, Wang-Chi Cheung, Mabel C. Chou, Chung-Piaw Teo, Zhichao Zheng, Yuanguang Zhong. 2019. Capacity Allocation in Flexible Production Networks: Theory and Applications. *Management Science*, 65(11), 5091-5109.

WORKING PAPER

● Online Passenger Flow Control in Metro Lines. with Ziyou Gao, Jinpeng Liang, and Chung-Piaw Teo. Minor Revision at *Operations Research*. 2021.

● Multi-objective Stochastic Optimization: A Case of Real-time Matching in Ride-sourcing Markets. with Wang-Chi Cheung, Chung-Piaw Teo, and Hai Wang. Major Revision at *Manufacturing & Service Operations Management*. 2020.

● Online Planning with Offline Simulation. with Wang-Chi Cheung, Chung-Piaw Teo, and Hai Wang. 2019.

● Post-Disaster Humanitarian Logistics Planning: The Impact of Correlated Uncertainties. with Sheng Bi, and Yini Gao. 2020.

● Adaptive Drug Trafficking Network Interdiction. with Chung-Piaw Teo, Kaiming Xiao, and Weiming Zhang. 2021.

● Singapore Locker Alliance System: A Pilot Study and Field Experiment. with Victor Fernandez, Libo Sun, and Chung-Piaw Teo. 2022.

RESEARCH PROJECT

Co-PI, NUS & IMDA Grant, Singapore ($274, 000$ SGD) — Jun. 2018 - May 2020
Topic: Last Mile Delivery in Smart City operations

CONSULTING PROJECT	Tokopedia	Jan. 2022 -
	Roambee	Oct. 2021 -
	Singapore Pools	Jan. 2020 - Jun. 2020
	YTO Express (Shanghai, China)	Oct. 2019 - Jun. 2020
	Singapore Pools	Jan. 2019 - Jun. 2019
	Didi Chuxing (Beijing, China)	Dec. 2017 - Jan. 2018
	Yamato Transport Singapore	Jan. 2016 - Jan. 2017
	P&G Singapore	Aug. 2015 - May 2016

TEACHING EXPERIENCE	**Guest Lecturer**	
	Operations and Technology Management (DAO2703, NUS)	Semester 2 AY 2020/2021
	Teaching Assistant	
	Discrete Optimization and Algorithms (BDC 6302, NUS)	Semester 1 AY 2018/2019
	Teaching Assistant & **Guest Lecturer**	
	Introduction to Optimization (DSC 3214, NUS)	Semester 2 AY 2017/2018
	Guest Lecturer	
	Introduction to Business Analytics (DAO 1704, NUS)	Semester 2 AY 2017/2018
	Teaching Assistant & **Guest Lecturer**	
	Supply chain design and optimization (External Course, SJTU)	Semester 1 AY 2017/2018
	Teaching Assistant	
	Supply Chain Management (EMBA, NUS)	Semester 2 AY 2016/2017
	Tutor	
	Business Analytics (DSC 2008, NUS)	Semester 1 AY 2016/2017
	Teaching Assistant	
	Deterministic Operations Research Models (BDC 5101, NUS)	Semester 1 AY 2015/2016

CONFERENCE PRESENTATION	Adaptive Shortest-Path Network Interdiction	
	● Analytics for X 2021, Singapore	Jul. 2021
	Online Planning with Offline Simulation	
	● MSOM 2021, Virtual Conference	May 2021
	● Mostly OM 2019, Shenzhen, China	May 2019
	Last Mile Innovation: The Case of the Locker Alliance Network.	
	● POMS-HK 2019, Hong Kong, China	Jan. 2019
	● INFORMS Annual 2016, Nashville, USA	Nov. 2016
	The Logic of Matching in Ride Sharing Markets: Revenues, Service Ratings or Pick-Up Times?	
	● MSOM 2018, Dallas, USA	Jul. 2018
	Stochastic Knapsack Revisited: Resource Allocation with Stock-Out Probability Targets.	
	● POMS-HK 2017, Hong Kong, China	Jan. 2017
	Inventory Management for Distribution Supply Chains.	
	● MSOM 2016, Auckland, New Zealand	Jul. 2016

PROFESSIONAL SERVICES	Reviewer for *Operations Management* Journals
	Management Science, Manufacturing & Service Operations Management, Production and Operations Management
	Reviewer for *Transportation* Journals
	Transportation Science, Transportation Research Part B

AWARDS	Best Paper Award in the 2020 Doctoral Forum in Industrial Engineering, China	2020
	Finalist in 2019 George B. Dantzig Dissertation Award Competition, INFORMS	2019
	Best Paper Award in the 10th Workshop on Computational Transportation Science, China	2018
	Best Paper Award in the 6th NUS Business School Annual Ph.D. Research Day, Singapore	2017
	First Prize in the 5th NUS Business School Annual Ph.D. Research Day, Singapore	2016
	Meritorious Winner in 2012 American Mathematical Modeling Contest, USA	2012
	First Prize in the 6th <Challenge Cup> Beijing Academic Sci. and Tech. Competition, China	2011
	Third Prize in the 12th <Challenge Cup> National Academic Sci. and Tech. Competition, China	2011
	First Prize in the 7th BNU Mathematical Modeling Contest, China	2011

HONORS AND SCHOLARSHIPS	President Graduate Fellowship, Singapore	2016 - 2018
	NUS Research Scholarship, Singapore	2014 - 2016
	Outstanding Graduate Award in Beijing City, China	2012
	Outstanding Graduate Award in BNU, China	2012
	Best Bachelor Dissertation Award in BNU, China	2012
	National Scholarship, China	2009 - 2011
	Distinguished Winner of National Scholarship, China	2010
	First-Class Scholarship in BNU, China	2009 - 2011
	<Bao Gang> Outstanding Student, China	2011
	The 11th BNU <Top-10 Outstanding Undergraduate> Award, China	2010
	The 11th BNU <Top-1 Popular Undergraduate> Award, China	2010
	The 10th BNU <Li Yun> Outstanding Undergraduate, China	2010
	Trip-A Student in Beijing City, China	2009 - 2010

COMPUTER SKILLS	MATLAB, R (R Shiny), Python, Java, C, Julia, LaTeX
	Adobe Premiere, Animate (Flash), Photoshop