

Renyu (Philip) Zhang

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| CONTACT INFORMATION | New York University Shanghai 1555 Century Avenue Pudong, Shanghai, China, 200122 | renyu.zhang@nyu.edu https://rphilipzhang.github.io/rphilipzhang/ |
| EDUCATION | Washington University in St. Louis, Olin Business School Ph.D. Operations Management • Thesis: Dynamic Pricing and Inventory Management: Theory and Applications • Advisors: Nan Yang, Fuqiang Zhang | St. Louis, MO 05/2016 |
| | Peking University, School of Mathematical Sciences B.S. Mathematics | Beijing, China 07/2011 |
| ACADEMIC POSITION | New York University Shanghai Assistant Professor of Operations Management NYU Global Network Assistant Professor | Shanghai, China 09/2016- 07/2017- |
| | New York University, Stern School of Business Visiting Assistant Professor of Operations Management | New York, NY 06/2017- |
| NON-ACADEMIC POSITION | Kwai Economist & Tech Lead | Beijing, China 12/2018- |
| RESEARCH INTERESTS | Methodologies Reinforcement learning; optimization; randomized experiment; matching; game theory; mechanism design; econometrics and causal inference. Applications Online platforms and marketplaces; sharing economy; social networks; recommender systems; advertising; revenue management and pricing; inventory and supply chain management. | |
| PUBLICATIONS | <ol style="list-style-type: none">Dynamic Pricing and Inventory Management under Inventory-Dependent Demand, <i>Operations Research</i>, 62(5), 2014, 1077-1094 (with Nan Yang).Dynamic Pricing and Inventory Management under Fluctuating Procurement Costs, <i>Manufacturing & Service Operations Management</i>, 17(3), 2015, 321-334 (with Guang Xiao and Nan Yang).Dynamic Supply Risk Management with Signal-Based Forecast Multi-Sourcing, and Discretionary Selling, <i>Production and Operations Management</i>, 26(7), 2017, 1399-1415 (with Long Gao, Nan Yang, and Ting Luo).Trade-in Remanufacturing, Customer Purchasing Behavior, and Government Policy, <i>Manufacturing & Service Operations Management</i>, 20(4), 2018, 601-616 (with Fuqiang Zhang). - Finalist award in the <i>POMS College of Supply Chain Management 2015 Best Student Paper Competition</i> | |

PAPERS UNDER
REVIEW

5. **Competition and Coopetition for Two-sided Platforms** (with Maxime Cohen).
- Honorable Mention in the *INFORMS Service Science Section 2017 Best Cluster Paper Award*
6. **Data Aggregation and Demand Prediction** (with Maxime Cohen and Kevin Jiao).
- Finalist in the *INFORMS Data Mining Section 2019 Best Paper Award*
7. **Cold Start on Online Advertising Platforms: Data-Driven Algorithms and Field Experiments** (with Zikun Ye, Dennis Zhang, Heng Zhang, Xin Chen, and Zhiwei Xu).
- Finalist in the *INFORMS Revenue Management and Pricing 2020 Student Paper Competition*
8. **Social Nudges Boost Productivity on Online Platforms: Evidence from Field Experiments** (with Zhiyu Zeng, Hengchen Dai, Dennis Zhang, Max Shen, Zhiwei Xu, and Heng Zhang).
9. **Personalized Sales Targets with Customer Choices** (with Xiaolong Li, Ying Rong, and Huan Zheng).
10. **Dynamic Pricing and Inventory Management in the Presence of Online Reviews** (with Nan Yang).
11. **Dynamic Competition under Market Size Dynamics: Balancing the Exploitation-Induction Tradeoff** (with Nan Yang).
12. **Competition on Inventory Availability and Price** (with Junfei Lei, Yugang Yu, and Fuqiang Zhang).
13. **Carpool Services for Ride-sharing Platforms: Price and Welfare Implications** (with Xuan Wang).
14. **Comparative Statics Analysis of Inventory Management Models with Dynamic Pricing** (with Nan Yang).

WORKS IN
PROGRESS

15. **Recommender Systems on Platforms** (with Xuan Wang and Dennis J. Zhang).

SEMINARS AND
CONFERENCE
TALKS

- 2020 Tsinghua University SEM, CUHK Shenzhen School of Data Science, INFORMS, Sun Yat-sen University Lingnan College, Fudan University School of Management, NSFC PI Meeting, Sichuan University School of Business, NUS IORA [**Video link**], SJTU Antai, NYU Stern, Club Bear Online Seminar [**Video link**]
- 2019 INFORMS, UIC College of Business Administration, Data-Driven and Innovative Operations Workshop, POMS HK, Young Scholars' Forum on Management Science
- 2018 PKU Guanghua, Sun Yat-sen University Lingnan College, JHU Carey, NYU Stern, Operations Management under "Internet+" Environment Workshop, MSOM, RMP, Revenue Management Workshop, POMS, POMS HK, CUHK Business School
- 2017 Young Scholars' Forum on Management Science, Sichuan University School of Business, WUSTL Olin, INFORMS, HK PolyU Faculty of Business, CityU HK College of Business, HKUST Business School, NYU Stern, MSOM, SMU Lee Kong Chian School of Business, NUS Business School, USTC School of Management
- 2016 Southeast University School of Economics and Management, Tsinghua University SEM, SJTU Antai, U of Toronto Rotman, NJU School of Management and Engineering, Southwest University of Finance and Economics School of Business Administration, Southwest Jiaotong University School of Economics and Management, SUFE School of Business Administration, New York University Shanghai, UT Dallas Jindal, NYU Stern, CUHK SEEM, HKUST Business School, HKUST IELM Department, HK PolyU Faculty of Business, CityU HK College of Business
- 2015 DSI, INFORMS, MSOM, POMS
- 2014 INFORMS, MSOM
- 2013 INFORMS

2012 INFORMS

- HONORS, AWARDS,
AND GRANTS
1. Finalist, *INFORMS Revenue Management and Pricing Student Paper Competition*. 10/2020
 2. Finalist, *INFORMS Data Mining Section Best Paper Award*. 10/2019
 3. MSOM Meritorious Service Award 2018, 2019 04/2020
 4. Shanghai Eastern Scholar, Young Scientist Program QD2018053, PI, RMB 200,000/Year.01/2019-12/2021
 5. National Science Foundation of China, Young Scientist Program 71802133, PI, RMB 180,000. 01/2019-12/2021
 6. Honorable Mention, *INFORMS Service Science Best Cluster Paper Award*. 10/2017
 7. Shanghai Pujiang Talent Program 17PJC074, PI, RMB 100,000. 09/2017-08/2019
 8. Finalist Award, *POMS College of Supply Chain Management Best Student Paper Competition*. 05/2015
 9. First Prize Award, Chinese Mathematics Olympiad 10/2006

TEACHING EXPERIENCES

New York University Shanghai

Instructor

- Business Analytics Spring 2021
- Machine Learning for Business (Rating: 4.8/5) Fall 2020
- Business Analytics (Rating: 4.2/5, 4.8/5) Spring 2019
- Operations Management (Rating: 4.6/5) Spring 2019
- Business Analytics (Rating: 4.4/5, 4.7/5) Spring 2018
- Competitive Advantage from Operations (Rating: 3.8/5) Fall 2017
- Competitive Advantage from Operations (Rating: 4/5) Spring 2017
- Competitive Advantage from Operations (Rating: 4.6/5) Fall 2016

Business Honors Thesis Advisor

- Ziheng Wang (2021), Yiyi Zhang (2018), Yujia Ni (2018).

Kwai

Internal Instructor

- Data Driven Optimization 05/2020
- Operations Analytics 01-05/2019

Washington University in St. Louis, Olin Business School

Teaching Assistant

- Operations Management; Advanced Operations Strategy; Market Competition and Value Appropriation ; Operations Planning and Control.

PROFESSIONAL SERVICES

Journal Referee

Management Science, Operations Research, Manufacturing & Service Operations Management, Marketing Science, Production and Operations Management, Transportation Research: Part B, Naval Research Logistics, European Journal of Operations Research, Omega, Journal of Management Science and Engineering, Applied Mathematical Modeling, Operational Research: An International Journal.

Competition Judge

MSOM Student Paper Competition (2020, 2019, 2018, 2017).

POM College of Supply Chain Management Student Paper Competition (2020).

Conference Committee and Session Chair

Session Chair:

- INFORMS 2020, INFORMS 2018, POMS 2018, POMS-HK Conference 2018, POMS-HK Conference 2017, CSAMSE Conference 2016.

Sponsorships and Exhibits Committee member:

- POMS Annual Meeting 2016.

Professional Organization Membership

INFORMS, MSOM, RMP, APS, POMS.

Internal Services

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| NYU Shanghai Candidate Weekend instructor. | 03/2018 |
| NYU Shanghai Business Honors program thesis advisor. | 09/2017- |
| NYU Shanghai Operations Management Reading Group co-organizer. | 03/2017- |
| NYU Shanghai Housing Subcommittee member. | 11/2016-05/2019 |
| NYU Shanghai Business Research Seminar coordinator. | 09/2016-08/2017 |
| NYU Shanghai Business Honors Program guest lecturer. | 10/2016- |
| Olin Business School Operations Management PhD Seminar coordinator. | 01/2013-12/2013 |

CONSULTING EXPERIENCES

Cardinal Operations

Parttime Scientist 09/2017-08/2018

Boeing Center for Supply Chain Innovation, Washington University in St. Louis

Parttime consultant. 10/2013-06/2015

PERSONAL

Chinese citizen, Christian, married with one child.