Yanting Li

PhD Student · Simon Business School, University of Rochester

300 Wilson Blvd, Rochester, NY 14620

(517) - 488 - 8708 | Yanting.Li@simon.rochester.edu

Education

University of Rochester *Rochester, NY*

PhD, Operation Management *Aug 2019 - present*

- Advisor: Dr. Ricky Roet-Green

University of Texas at Dallas *Richardson, TX*

Master of Science, Applied Economics *Aug 2017 - May 2019*

- PVST TA Tuition & Fees EPPS Scholarship Recipient
- Good Standing Student: 4 Semesters

Michigan State University *East Lansing, MI*

Bachelor of Arts, Economics *Aug 2013 - May 2017*

- Dean's List: 3 Semesters

RESEARCH INTERESTS

Queueing Theory; Game Theory; Revenue & Service Management; Service Operation; Bayesian Statistics.

Publications

In Prep

"On Information Disclosure in an Observable Shared Waiting Room" with Ricky Roet-Green

We study a service system with two types of customers arriving at a shared waiting room, and each type waits for the service provided by a specific server out of two servers. In our base model, service providers release the queue length information to customers, and customers make a join-or-balk decision based on such information. Alternatively, we formulate a shared waiting room system where service providers conceal the queue length information. However, customers could observe the total number of customers in the system and then decide whether to join or not. We find that the Nash equilibrium strategy in the shared waiting room system when customer types differ with respect to their arrival rate is a pair of thresholds. Moreover, multiple Nash equilibria exist. To maximize the revenue, we show that more information is not always beneficial for the service operator. Standing from the social planer perspective, concealing part of information could benefit the system as well.

"Bayesian Updated in Queueing System When Customers Arrive in Batch" with Ricky Roet-Green

Two fundamental assumptions for services that are operated by a single server system are (1) customers arrive one after the other and (2) the service provider serves them one by one. However, those two assumptions are not always true. In this work, we relax those standard assumptions and study customers' strategy under Bayesian updating in the case of uncertainty with respect to the demand ratio. We find that providing the group information to customers is not always benefit in terms of revenue maximization. When the demand ratio at certain range, it is better to not disclose any information to customers.

Presentations

May 2023. *On Information Disclosure in an Observable Shared Waiting Room*. Invited Presentation: POMS 33rd Annual Conference, Orlando, FL.

October 2022. *On Information Disclosure in an Observable Shared Waiting Room*. Invited Presentation: INFORMS Annual Meeting, Indianapolis, IN.

April 2022. *On Information Disclosure in an Observable Shared Waiting Room*. Invited Presentation: POMS 32rd Annual Conference, online.

Teaching Experience

Spring 2023	**Predictive Analytics Using Python**, Teaching Assistant
Fall 2022	**Spreadsheet Modeling Using Excel**, Lab Instructor
Spring 2022	**Predictive Analytics Using Python**, Teaching Assistant
Fall 2021	**Spreadsheet Modeling Using Excel**, Teaching Assistant
Spring 2021	**Operation Management**, Teaching Assistant
Fall 2020	**Advanced Business Modeling and Analysis Using Spreadsheets**, Teaching Assistant
Fall 2020	**Spreadsheet Modeling Using Excel**, Teaching Assistant

Professional Experience & Extracurriculars

Professional Experience

2017 **Xinjiang Beiken Energy Engineering Co., Ltd**, Data Analyst (intern) *Beijing, China*

Extracurriculars

Languages: Chinese (native); English (fluent).

Technical: Matlab, Python, Stata, R, LaTeX.