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Education

National University of Singapore   Singapore
Ph.D. in Economics, Department of Economics   Aug. 2019 – present
Supervisor: Julian Wright

Georgetown University   Washington DC, USA
M.A. in Applied Economics, Department of Economics   Aug. 2016 – Aug. 2017
GPA: 3.83/4.00

Renmin University of China   Beijing, China
B.Mgmt. in Public Affairs Management (Environmental Economics)   Sept. 2012 – June 2016 GPA: 3.63/4.00

Research Interests

Digital economy, industrial organization, applied microeconomic theory

Working Papers

- *Data-enabled learning with exit*
  Abstract: This paper analyzes a duopoly competition model with data-enabled learning and incorporates the probability that firms may exit, providing a rationale for the losing firm to stay in the market. Specifically, we derive a new equilibrium in which the losing firm always has a positive value and prices more aggressively. We also find that exit probability affects consumer surplus by increasing the chance of monopolization and shifting subsidies from firms. Finally, we show that exit probability dampens data sharing policies.
  Presented at 2022 Asia-Pacific Industrial Organization Conference (Sydney)

- *Freemium in two-sided market*
  Abstract: This paper uses a general model to analyze the optimal menu pricing strategies in two-sided markets, especially the adoption conditions for the freemium model. In this framework, platforms have the option to generate revenue through premium fees from customers or by offering free services/products in exchange for advertising income. Our findings indicate that the asymmetrical density of customers' preference for the platform and the high willingness-to-pay exhibited by advertisers are necessary conditions for freemium to emerge as the optimal pricing strategy.

Working in Progress

Market share in a dynamic competition model: A numerical approach
Abstract: This paper aims to use a numerical approach to compare the market share of different types of firms within the framework of a dynamic competition model with data-enabled learning.

In this scenario, incumbent firms, equipped with more data for learning, and entrant firms, with faster learning speeds, compete dynamically to gain more market share and advantages. We are using Python to simulate the competition results under a symmetric shock.

Other Work

Su, Mengyang. "Relationship between sustainable Livelihood Assets and Livelihood Strategy of Fishermen Households: A Case of Changdao in Shandong", *Statistics and Application*, 2015 (4), p. 111. (in Chinese)

Teaching Experience

National University of Singapore, Teaching Assistant   Singapore
Industrial Organization (Undergraduate)   Fall, 2020/2021
Econometrics II (Undergraduate)   Spring 2021/2022, Fall & Spring 2022/2023
Won Graduate Student Teaching Award

Beijing 35th Middle School, International Department   Beijing, China
Economics Instructor   Apr. 2018 – June 2018

Research Experience

Research Assistant, to Tiffany Tsai   Feb. 2023 – May 2023
Department of Economics, National University of Singapore

Research Assistant, to John Rust   Nov. 2016 – June. 2017
Georgetown University

Research Assistant, to Hong Lan   Mar. 2015 – Dec. 2015
Renmin University of China

Professional Experience

ByteDance Ltd.   July 2018 – July 2019
Operator (TikTok Philippine Team)   Beijing, China Responsibilities:

- Being responsible for data analysis, supervising the core indexes and offering development suggestions based on index trending;

- Working on user operation, digging out potential users and managing influencers.

Millward Brown ACSR (subsidiary corporation of WPP)   Aug. 2015 – May 2016
Consultant Assistant (Internship)   Beijing, China Responsibilities:

- Working with clients including Sina, Caterpillar (CAT) and Amazon to track the effects of their market campaigns, doing quantitative analysis and writing monthly reports;

- Providing insights of brands' advantages and disadvantages by comparing brands with competitors for our clients.

Skills

Languages: English (fluent), Chinese (native)
Computer skills: Stata, Python, LaTeX
Certification: CFA Level 1

Scholarships and Awards

Graduate Student Teaching Award, National University of Singapore	Fall 2022/2023
Research Scholarship, National University of Singapore	Aug. 2019
CSC Scholarship, China Scholarship Council	Aug. 2016
Outstanding Graduate of Beijing, Renmin University of China	June 2016
State-level Motivational Scholarship, Renmin University of China	Oct. 2014