Work Experience

Jinan University, Guangzhou, China Assistant Professor Education Stony Brook University, USA Ph.D. in Economics May 2021

Renmin University of China, ChinaM.A. in EconomicsB.S. in Computer Science and TechnologyJune 2012

Research Fields

Microeconomic Theory, Mechanism Design, Industrial Organization, Information Economics

Working Papers

Screening contracts for information products in oligopoly," 2020 (Job Market Paper)

This paper studies the design of screening contracts for information products that are sold to a group of buyers who have strategic interactions with one another. An information provider offers a menu of information structures (i.e. experiments) to firms that compete in a downstream market. Firms can also obtain their own signals privately. The precision of signals obtained is the firm' s private information (i.e. type). I first identify properties of a feasible menu under different strategic environments. A feasible menu will always provide as accurate or more accurate to low types (i.e. low precision of own signals) of firms than to high types of firms. When firms face strategic complementarities, their expected net gain of the additional information is non-increasing in types and, thus, high types may be excluded from the market. When firms face strategic interactions, the presence of strategic complementarities leads the information provider to perfectly correlate the information structures and provide most accurate information provider to perfectly correlate the information structures and provide most accurate information available. When firms face a game of strategic substitutes, the market may be partitioned into two segments and the information provided to the 'high type' segment is degraded.

"Explicit collusion in oligopoly," 2019

This paper studies the enforcement of a cartel with private information about production cost under a static setting. I first consider the problem of a cartel authority to implement the ex-post efficient production when facing a non-cooperative threat game (either Bertrand or Cournot). It shows that, to implement an ex-post efficient allocation, paying a minimum ex-ante subsidy forces the individual rationality constraint to be binding at an interior point under Cournot environment and binding at the

lowest point under Bertrand environment. When marginal cost is drawn from a uniform distribution and market demand is large, this minimum ex-ante subsidy is higher in a Cournot environment than in a Bertrand environment.

"Selling separately as a robust mechanism for a multi-product monopoly," 2018

This paper proposes separately selling as a robust mechanism for a multi-product seller facing uncertainty of the correlations between product values. In the model, a deterministic mechanism (i.e., price schedule) is offered by a seller to a buyer who has private information about product values. I prove that, in the case of two items with continuous consumer types, the best strategy is to sell independently if the seller only knows the marginal distribution of each item' s valuation. This maximizes the seller' s worst-case expected profit. I also show that if the valuations are independently distributed and known by the seller, offering bundling premiums is always dominated by selling separately.

Works in Progress

"Regulation of a two-sided market under adverse selection."

Local Publications

"Using the hypothetical development method based on Monte Carlo simulation to improve the valuation of base price of land leasing," with Weidong Qu, *China Land Science*, 2014-11, ISSN: 1001-8158

Teaching Experience

Jinan University, Guangzhou, China	
Lead Instructor	
Macroeconomics	
• Cohort: undergraduate Modality: in-person	Semester(s): Fall 2021
Stony Brook University, USA	
Lead Instructor	
Intermediate Macroeconomic Theory	
 Cohort: undergraduate Modality: in-person 	Semester(s): Fall 2018, 2019; Spring 2020
Intermediate Microeconomic Theory	
• Cohort: undergraduate Modality: online	<i>Semester(s):</i> Summer 2018, 2019, 2020
Teaching Assistant	
Advanced Microeconomic Theory I (Lead Profess	sor. Dr. Ting I iu)
• Cohort: Ph.D. core Modality: in-p	
Advanced Microeconomic Theory II (Lead Professor: Dr. Pradeep Dubey)	
• <i>Cohort:</i> Ph.D. core <i>Modality:</i> in-p	
 Econometrics 	Sentecter (b), Spring 2010
• Cohort: undergraduate Modality: in-person	Semester(s): Spring 2019; Fall 2020
 Mathematical Statistics 	(), ~p
• Cohort: undergraduate Modality: in-person	Semester(s): Fall 2016; Spring 2017
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Conferences and Presentations

- 46th Eastern Economic Annual Conference, online, March 2020
 Presentation: "Explicit collusion in oligopoly "
- The 30th International Conference on Game Theory, Stony Brook, July 2019
 Presentation: "Explicit collusion in oligopoly "
- The ASSA 2019 Annual Meeting, Atlanta, January 2019
- The 29th International Conference on Game Theory, Stony Brook, July 2018
 Presentation: "Selling separately as a robust mechanism for a multi-product monopoly"

Fellowships, Scholarships and Awards

 Stony Brook University, USA William Dawes Outstanding Teaching Award, Department of Economics Graduate fellowship, Department of Economics 	2020 2016 – present
 <i>Renmin University of China</i>, China First-class Scholarship, <i>The School of Public Administration</i> Outstanding Student Cadres Award, <i>The School of Information</i> 	2012 - 2014 2010

Additional Skills

- ♥ Programming: C/C++, R, Matlab, Java
- * Languages: Fluent in English, Native in Chinese