

## Yingkai Li

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CONTACT INFORMATION	Northwestern University 2233 Tech Dr Evanston, IL 60201	<a href="https://yingkai-li.github.io/homepage">https://yingkai-li.github.io/homepage</a> <a href="mailto:yingkai.li@u.northwestern.edu">yingkai.li@u.northwestern.edu</a>
RESEARCH INTERESTS	Algorithmic game theory, mechanism design, microeconomic theory, online algorithms	
EDUCATION	<b>Northwestern University</b> , Evanston, IL	
	Ph.D., Computer Science Advisor: Jason D. Hartline	Expected: May 2023
	<b>Stony Brook University</b> , Stony Brook, NY	
	M.S., Computer Science	May 2018
	<b>Shanghai Jiaotong University</b> , Shanghai, China	
	B.S., Major: Computer Science, Minor: Robotics (IEEE honor class)	June 2015
RESEARCH EXPERIENCE	<b>Summer Intern</b> Microsoft Research New England Lab Host: Brendan Lucier, Nicole Immorlica	Jun 2020 to Sep 2020
	<b>Research Assistant</b> Department of Computer Science, Stony Brook University Advisor: Jing Chen	Sep 2016 to Dec 2017
	<b>Visiting Student</b> School of Information Management and Engineering, Shanghai University of Finance and Economics Host: Pinyan Lu	May to Jun 2017, 2018
AWARDS	Best Poster Award, EC 2020 • Optimization of Scoring Rules. <i>with Jason Hartline, Liren Shan and Yifan Wu</i>	2020
JOURNAL PUBLICATIONS	<ol style="list-style-type: none"><li>1. <a href="#">Equilibrium Behaviors in Repeated Games.</a> <i>with Harry Pei, forthcoming at JET</i></li><li>2. <a href="#">Efficient Approximations for the Online Dispersion Problem.</a> <i>with Jing Chen and Bo Li, SICOMP 2019</i></li></ol>	
CONFERENCE PUBLICATIONS	<ol style="list-style-type: none"><li>1. <a href="#">Revelation Gap for Pricing from Samples.</a> <i>with Yiding Feng and Jason Hartline, STOC 2021</i></li><li>2. <a href="#">Tight Regret Bounds for Infinite-armed Linear Contextual Bandits.</a> <i>with Yining Wang, Xi Chen and Yuan Zhou, AISTATS 2021</i></li><li>3. <a href="#">Benchmark Design and Prior-independent Optimization.</a> <i>with Jason Hartline and Aleck Johnsen, FOCS 2020</i></li><li>4. <a href="#">Multinomial Logit Bandit with Low Switching Cost.</a> <i>with Kefan Dong, Qin Zhang and Yuan Zhou, ICML 2020</i></li></ol>	

5. Fair Resource Sharing and Dorm Assignments.  
*with Bo Li, AAMAS 2020*
6. Approximately Maximizing the Broker's Profit in a Two-sided Market.  
*with Jing Chen and Bo Li, IJCAI 2019*
7. Optimal Auctions vs. Anonymous Pricing: Beyond Linear Utility.  
*with Yiding Feng and Jason Hartline, EC 2019*
8. Nearly Minimax-Optimal Regret for Linearly Parameterized Bandits.  
*with Yining Wang and Yuan Zhou, COLT 2019*
9. Revenue Maximization with Imprecise Distribution.  
*with Pinyan Lu and Haoran Ye, AAMAS 2019*
10. Information Elicitation for Bayesian Auctions.  
*with Jing Chen and Bo Li, SAGT 2018*
11. Dynamic Fair Division Problem with General Valuations.  
*with Bo Li and Wenyang Li, IJCAI 2018*
12. Bayesian Auctions with Efficient Queries.  
*with Jing Chen, Bo Li and Pinyan Lu, ICALP 2018 (Brief Announcement)*
13. Efficient Approximations for the Online Dispersion Problem.  
*with Jing Chen and Bo Li, ICALP 2017*

#### WORKING PAPERS

1. On the Inefficiency of Auctions with Aftermarkets.  
*with Moshe Babaioff, Nicole Immorlica and Brendan Lucier*
2. Revenue Maximization for Buyers with Outside Options.  
*with Yannai Gonczarowski, Nicole Immorlica and Brendan Lucier*
3. Misspecified Beliefs about Time Lags.  
*with Harry Pei*
4. Fair Resource Sharing with Externalities.  
*with Jiarui Gan and Bo Li*
5. Optimization of Scoring Rules.  
*with Jason Hartline, Liren Shan and Yifan Wu*
6. Simple Mechanisms for Non-linear Agents.  
*with Yiding Feng and Jason Hartline*
7. Stochastic Linear Optimization with Adversarial Corruption.  
*with Edmund Y. Lou and Liren Shan*

ACADEMIC  
SERVICE

Reviewer

- GEB, TIT, STOC, EC, ICALP, ICML, AISTATS, ESA, ITCS, WINE, COCOA

TEACHING  
EXPERIENCE

Teaching Assistant - Northwestern University

COMP\_SCI 396 - Online Markets

Spring 2020

Instructor: Jason Hartline

COMP\_SCI 336 - Design & Analysis of Algorithms

Fall 2019

Instructor: Jason Hartline

COMP\_SCI 212 - Mathematical Foundations of Computer Science

Spring 2019

Instructor: Aravindan Vijayaraghavan

Teaching Assistant - Stony Brook University

CSE 215 - Foundations of Computer Science

Fall 2015, Spring 2016

Instructor: Himanshu Gupta; Paul Fodor

CSE 114 - Computer Science I

Spring 2016

Instructor: Paul Fodor

CSE 540 - Theory of Computation

Fall 2016

Instructor: Jing Chen