

## Yingkai Li

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CONTACT INFORMATION	Computer Science, Yale University 51 Prospect St, Room 510 New Haven, CT 06511	<a href="https://yingkai-li.github.io/homepage">https://yingkai-li.github.io/homepage</a> <a href="mailto:yingkai.li@yale.edu">yingkai.li@yale.edu</a>
RESEARCH INTERESTS	Algorithmic game theory, mechanism design, microeconomic theory, online algorithms	
EMPLOYMENT	Postdoc Associates, Cowles Foundation for Research in Economics, Yale University	2022 - 2024
EDUCATION	<b>Northwestern University</b> , Evanston, IL, USA	June 2022
	Ph.D., Computer Science Advisor: Jason D. Hartline	
	<b>Stony Brook University</b> , Stony Brook, NY, USA	May 2018
	M.S., Computer Science	
	<b>Shanghai Jiaotong University</b> , Shanghai, China	June 2015
RESEARCH EXPERIENCE	B.S., Major: Computer Science, Minor: Robotics (IEEE honor class)	
	<b>Research Intern</b>	Jun to Aug 2020, 2021
	Microsoft Research New England Lab and New York Lab	
	<b>Visiting Student</b>	May to Jun 2017, 2018
	School of Information Management and Engineering Shanghai University of Finance and Economics	
AWARDS	Northwestern Terminal Year Fellowship	2021
JOURNAL PUBLICATIONS	<ol style="list-style-type: none"><li>1. <a href="#">Your College Dorm and Dormmates: Fair Resource Sharing with Externalities.</a> <i>with Jiarui Gan and Bo Li</i>, JAIR 2023</li><li>2. <a href="#">Nearly Minimax-Optimal Regret for Linearly Parameterized Bandits.</a> <i>with Yining Wang and Yuan Zhou</i>, TIT 2023</li><li>3. <a href="#">Bayesian Auctions with Efficient Queries.</a> <i>with Jing Chen, Bo Li and Pinyan Lu</i>, AIJ 2022</li><li>4. <a href="#">Equilibrium Behaviors in Repeated Games.</a> <i>with Harry Pei</i>, JET 2021</li><li>5. <a href="#">Efficient Approximations for the Online Dispersion Problem.</a> <i>with Jing Chen and Bo Li</i>, SICOMP 2019</li></ol>	
CONFERENCE PUBLICATIONS	<ol style="list-style-type: none"><li>1. <a href="#">Optimal Scoring Rules for Multi-dimensional Effort.</a> <i>with Jason Hartline, Liren Shan and Yifan Wu</i>, COLT 2023</li><li>2. <a href="#">Bayesian Analysis of Linear Contracts.</a> <i>with Tal Alon, Paul Dütting and Inbal Talgam-Cohen</i>, EC 2023</li></ol>	

3. Making Auctions Robust to Aftermarkets.  
*with Moshe Babaioff, Nicole Immorlica and Brendan Lucier, ITCS 2023*
4. Budget Pacing in Repeated Auctions: Regret and Efficiency without Convergence.  
*with Jason Gaitonde, Bar Light, Brendan Lucier and Alex Slivkins, ITCS 2023*
5. Simple Mechanisms for Non-linear Agents.  
*with Yiding Feng and Jason Hartline, SODA 2023*
6. Selling Data to an Agent with Endogenous Information. EC 2022
7. Optimization of Scoring Rules.  
*with Jason Hartline, Liren Shan and Yifan Wu, EC 2022 (Best Poster Award, EC 2020)*
8. Almost Proportional Allocations for Indivisible Chores.  
*with Bo Li and Xiaowei Wu, WebConf 2022*
9. Revelation Gap for Pricing from Samples.  
*with Yiding Feng and Jason Hartline, STOC 2021*
10. Tight Regret Bounds for Infinite-armed Linear Contextual Bandits.  
*with Yining Wang, Xi Chen and Yuan Zhou, AISTATS 2021*
11. Benchmark Design and Prior-independent Optimization.  
*with Jason Hartline and Aleck Johnsen, FOCS 2020*
12. Multinomial Logit Bandit with Low Switching Cost.  
*with Kefan Dong, Qin Zhang and Yuan Zhou, ICML 2020*
13. Fair Resource Sharing and Dorm Assignments.  
*with Bo Li, AAMAS 2020*
14. Approximately Maximizing the Broker's Profit in a Two-sided Market.  
*with Jing Chen and Bo Li, IJCAI 2019*
15. Optimal Auctions vs. Anonymous Pricing: Beyond Linear Utility.  
*with Yiding Feng and Jason Hartline, EC 2019*
16. Nearly Minimax-Optimal Regret for Linearly Parameterized Bandits.  
*with Yining Wang and Yuan Zhou, COLT 2019*
17. Revenue Maximization with Imprecise Distribution.  
*with Pinyan Lu and Haoran Ye, AAMAS 2019*
18. Information Elicitation for Bayesian Auctions.  
*with Jing Chen and Bo Li, SAGT 2018*
19. Dynamic Fair Division Problem with General Valuations.  
*with Bo Li and Wenyang Li, IJCAI 2018*
20. Bayesian Auctions with Efficient Queries.  
*with Jing Chen, Bo Li and Pinyan Lu, ICALP 2018 (Brief Announcement)*
21. Efficient Approximations for the Online Dispersion Problem.  
*with Jing Chen and Bo Li, ICALP 2017*

## WORKING PAPERS

1. Contests as Optimal Mechanisms Under Signal Manipulation.  
*with Xiaoyun Qiu*
2. Incentivizing Participation in Clinical Trials.  
*with Alex Slivkins*
3. Revenue Maximization for Buyers with Outside Options.  
*with Yannai Gonczarowski, Nicole Immorlica and Brendan Lucier*
4. Misspecified Beliefs about Time Lags.  
*with Harry Pei*

## ACADEMIC SERVICE

Program Committee

- WINE 2023, EC 2023, WebConf 2023, WINE 2022

Journal Reviewer

- Journal of Economic Theory, American Economic Review: Insight, SIAM Journal on Computing, Games and Economic Behavior, Mathematics of Operations Research, Transactions on Information Theory, Transactions on Economics and Computation

Conference Reviewer

- STOC, SODA, EC, ICALP, ICML, ITCS, KDD, AISTATS, ESA, WebConf, WINE, COCOA

## TEACHING EXPERIENCE

Teaching Assistant - Northwestern University

COMP_SCI 396 - Online Markets	Spring 2020
COMP_SCI 336 - Design & Analysis of Algorithms	Fall 2019
COMP_SCI 212 - Mathematical Foundations of Computer Science	Spring 2019

Teaching Assistant - Stony Brook University

CSE 215 - Foundations of Computer Science	Fall 2015, Spring 2016
CSE 114 - Computer Science I	Spring 2016
CSE 540 - Theory of Computation	Fall 2016