

Yingkai Li

CONTACT INFORMATION	Northwestern University 2233 Tech Dr Evanston, IL 60201	https://yingkai-li.github.io/homepage yingkai.li@u.northwestern.edu
RESEARCH INTERESTS	Algorithmic game theory, mechanism design, microeconomic theory, online algorithms	
EDUCATION	Northwestern University , Evanston, IL	
	Ph.D., Computer Science Advisor: Jason D. Hartline	Expected: June 2022
	Stony Brook University , Stony Brook, NY	
	M.S., Computer Science	May 2018
	Shanghai Jiaotong University , Shanghai, China	
	B.S., Major: Computer Science, Minor: Robotics (IEEE honor class)	June 2015
RESEARCH EXPERIENCE	Summer Intern Microsoft Research New York Lab Host: Alex Slivkins	Jun 2021 to Aug 2021
	Summer Intern Microsoft Research New England Lab Host: Brendan Lucier, Nicole Immorlica, Moshe Babaioff	Jun 2020 to Sep 2020
	Research Assistant Department of Computer Science Stony Brook University Advisor: Jing Chen	Sep 2016 to Dec 2017
	Visiting Student School of Information Management and Engineering, Shanghai University of Finance and Economics Host: Pinyan Lu	May to Jun 2017, 2018
AWARDS	Northwestern Terminal Year Fellowship	2021
	Best Poster Award, EC 2020 • Optimization of Scoring Rules. <i>with Jason Hartline, Liren Shan and Yifan Wu</i>	2020
JOURNAL PUBLICATIONS	1. Equilibrium Behaviors in Repeated Games. <i>with Harry Pei, JET 2021</i>	
	2. Efficient Approximations for the Online Dispersion Problem. <i>with Jing Chen and Bo Li, SICOMP 2019</i>	
CONFERENCE PUBLICATIONS	1. Revelation Gap for Pricing from Samples. <i>with Yiding Feng and Jason Hartline, STOC 2021</i>	
	2. Tight Regret Bounds for Infinite-armed Linear Contextual Bandits. <i>with Yining Wang, Xi Chen and Yuan Zhou, AISTATS 2021</i>	

3. Benchmark Design and Prior-independent Optimization.
with Jason Hartline and Aleck Johnsen, FOCS 2020
4. Multinomial Logit Bandit with Low Switching Cost.
with Kefan Dong, Qin Zhang and Yuan Zhou, ICML 2020
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. Almost Proportional Allocations for Indivisible Chores.
with Bo Li and Xiaowei Wu
2. Selling Data to an Agent with Endogenous Information.
3. On the Inefficiency of Auctions with Aftermarkets.
with Moshe Babaioff, Nicole Immorlica and Brendan Lucier
4. Revenue Maximization for Buyers with Outside Options.
with Yannai Gonczarowski, Nicole Immorlica and Brendan Lucier
5. Misspecified Beliefs about Time Lags.
with Harry Pei
6. Fair Resource Sharing with Externalities.
with Jiarui Gan and Bo Li
7. Optimization of Scoring Rules.
with Jason Hartline, Liren Shan and Yifan Wu
8. Simple Mechanisms for Non-linear Agents.
with Yiding Feng and Jason Hartline
9. Stochastic Linear Optimization with Adversarial Corruption.
with Edmund Y. Lou and Liren Shan

ACADEMIC
SERVICE

Journal Reviewer

- Games and Economic Behavior, Transactions on Information Theory

Conference Reviewer

- STOC, EC, ICALP, ICML, ITCS, KDD, AISTATS, ESA, 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