

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: May 2023
	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 England Lab Mentor: Brendan Lucier, Nicole Immorlica	Jun 2020 to Sep 2020
	Research Assistant Department of Computer Science, Stony Brook University Supervisor: 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	Best Poster Award, EC 2020 • Optimization of Scoring Rules. <i>with Jason Hartline, Liren Shan and Yifan Wu</i>	2020
	Special CS Department Chair Fellowship, Stony Brook University	2015
JOURNAL PUBLICATIONS	1. Efficient Approximations for the Online Dispersion Problem. <i>with Jing Chen and Bo Li, SICOMP 2019</i>	
CONFERENCE PUBLICATIONS	1. Benchmark Design and Prior-independent Optimization. <i>with Jason Hartline and Aleck Johnsen, FOCS 2020</i>	
	2. Multinomial Logit Bandit with Low Switching Cost. <i>with Kefan Dong, Qin Zhang and Yuan Zhou, ICML 2020</i>	
	3. Fair Resource Sharing and Dorm Assignments. <i>with Bo Li, AAMAS 2020</i>	
	4. Approximately Maximizing the Broker's Profit in a Two-sided Market. <i>with Jing Chen and Bo Li, IJCAI 2019</i>	

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

WORKING PAPERS

1. Revelation Gap for Pricing from Samples.
with Yiding Feng and Jason Hartline
2. Equilibrium Behaviors in Reputation Games.
with Harry Pei
3. Optimization of Scoring Rules.
with Jason Hartline, Liren Shan and Yifan Wu
4. Simple Mechanisms for Non-linear Agents.
with Yiding Feng and Jason Hartline
5. Tight Regret Bounds for Infinite-armed Linear Contextual Bandits.
with Yining Wang and Yuan Zhou
6. Stochastic Linear Optimization with Adversarial Corruption.
with Edmund Y. Lou and Liren Shan

PRESENTATIONS

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| Multinomial Logit Bandit with Low Switching Cost. | |
| • International Conference on Machine Learning | July 2020 |
| Optimal Auctions vs. Anonymous Pricing: Beyond Linear Utility. | |
| • Conference on Economics and Computation | June 2019 |
| Nearly Minimax-Optimal Regret for Linearly Parameterized Bandits. | |
| • Conference on Learning Theory | June 2019 |
| Efficient Approximations for the Online Dispersion Problem. | |
| • International Colloquium on Automata, Languages, and Programming | Aug 2017 |
| • China Theory Week | Aug 2017 |
| From Bayesian to Crowdsourced Bayesian Auctions. | |
| • International Conference on Game Theory | Jul 2016 |

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