Yingkai Li

CONTACT INFORMATION	2233 Tech Dr Evanston, IL 60201	631-428-5248 yingkai.li@u.northwestern.edu

RESEARCH INTERESTS	Algorithmic game theory, mechanism design, online algorithms

EDUCATION	**Northwestern University**, Evanston, IL	
	Ph.D., Computer Science	Expected: May 2023
	Advisor: Jason D. Hartline	
	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	**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, 2019

CONFERENCE PUBLICATIONS

1. Efficient Approximations for the Online Dispersion Problem.
   with Jing Chen and Bo Li, SICOMP 2019

CONFERENCE PUBLICATIONS

1. Approximately Maximizing the Broker's Profit in a Two-sided Market.
   with Jing Chen and Bo Li, IJCAI 2019

2. Optimal Auctions vs. Anonymous Pricing: Beyond Linear Utility.
   with Yiding Feng and Jason Hartline, EC 2019

3. Nearly Minimax-Optimal Regret for Linearly Parameterized Bandits.
   with Yining Wang and Yuan Zhou, COLT 2019

4. Revenue Maximization with Imprecise Distribution.
   with Pinyan Lu and Haoran Ye, AAMAS 2019

5. Information Elicitation for Bayesian Auctions.
   with Jing Chen and Bo Li, SAGT 2018

6. Dynamic Fair Division Problem with General Valuations.
   with Bo Li and Wenyang Li, IJCAI 2018

7. Bayesian Auctions with Efficient Queries.
   with Jing Chen, Bo Li and Pinyan Lu, ICALP 2018 (Brief Announcement)

8. Efficient Approximations for the Online Dispersion Problem.
   with Jing Chen and Bo Li, ICALP 2017

PAPERS IN PREPARATION	1. Benchmark Design and Prior-independent Optimization. *with Jason Hartline and Aleck Johnsen*
	2. Simple Mechanisms for Non-linear Agents. *with Yiding Feng and Jason Hartline*
	3. Tight Regret Bounds for Infinite-armed Linear Contextual Bandits. *with Yining Wang and Yuan Zhou*
	4. Stochastic Linear Optimization with Adversarial Corruption. *with Edmund Y. Lou and Liren Shan*

AWARDS	Special CS Department Chair Fellowship, Stony Brook University	2015

PRESENTATIONS	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 336 - Design & Analysis of Algorithms Instructor: Jason Hartline	fall 2019
	COMP_SCI 212 - Mathematical Foundations of Computer Science Instructor: Aravindan Vijayaraghavan	Spring 2019
	Teaching Assistant - Stony Brook University	
	CSE 215 - Foundations of Computer Science Instructor: Himanshu Gupta; Paul Fodor	Fall 2015, Spring 2016
	CSE 114 - Computer Science I Instructor: Paul Fodor	Spring 2016
	CSE 540 - Theory of Computation Instructor: Jing Chen	Fall 2016