

Yingkai Li

CONTACT INFORMATION	Northwestern University 2233 Tech Dr Evanston, IL 60201	https://yingkai-li.github.io/homepage 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 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	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	
JOURNAL PUBLICATIONS	1. Efficient Approximations for the Online Dispersion Problem. <i>with Jing Chen and Bo Li, SICOMP 2019</i>	
CONFERENCE PUBLICATIONS	1. Approximately Maximizing the Broker's Profit in a Two-sided Market. <i>with Jing Chen and Bo Li, IJCAI 2019</i> 2. Optimal Auctions vs. Anonymous Pricing: Beyond Linear Utility. <i>with Yiding Feng and Jason Hartline, EC 2019</i> 3. Nearly Minimax-Optimal Regret for Linearly Parameterized Bandits. <i>with Yining Wang and Yuan Zhou, COLT 2019</i> 4. Revenue Maximization with Imprecise Distribution. <i>with Pinyan Lu and Haoran Ye, AAMAS 2019</i> 5. Information Elicitation for Bayesian Auctions. <i>with Jing Chen and Bo Li, SAGT 2018</i> 6. Dynamic Fair Division Problem with General Valuations. <i>with Bo Li and Wenyang Li, IJCAI 2018</i> 7. Bayesian Auctions with Efficient Queries. <i>with Jing Chen, Bo Li and Pinyan Lu, ICALP 2018 (Brief Announcement)</i> 8. Efficient Approximations for the Online Dispersion Problem. <i>with Jing Chen and Bo Li, ICALP 2017</i>	

PAPERS IN PREPARATION	<ol style="list-style-type: none"> 1. Benchmark Design and Prior-independent Optimization. <i>with Jason Hartline and Aleck Johnsen</i> 2. Simple Mechanisms for Non-linear Agents. <i>with Yiding Feng and Jason Hartline</i> 3. Fair Resource Sharing and Dorm Assignments. <i>with Bo Li</i> 4. Tight Regret Bounds for Infinite-armed Linear Contextual Bandits. <i>with Yining Wang and Yuan Zhou</i> 5. Stochastic Linear Optimization with Adversarial Corruption. <i>with Edmund Y. Lou and Liren Shan</i> 	
AWARDS	Special CS Department Chair Fellowship, Stony Brook University	2015
PRESENTATIONS	<p>Optimal Auctions vs. Anonymous Pricing: Beyond Linear Utility.</p> <ul style="list-style-type: none"> • Conference on Economics and Computation <p>Nearly Minimax-Optimal Regret for Linearly Parameterized Bandits.</p> <ul style="list-style-type: none"> • Conference on Learning Theory <p>Efficient Approximations for the Online Dispersion Problem.</p> <ul style="list-style-type: none"> • International Colloquium on Automata, Languages, and Programming • China Theory Week <p>From Bayesian to Crowdsourced Bayesian Auctions.</p> <ul style="list-style-type: none"> • International Conference on Game Theory 	<p>June 2019</p> <p>June 2019</p> <p>Aug 2017 Aug 2017</p> <p>Jul 2016</p>
TEACHING EXPERIENCE	<p>Teaching Assistant - Northwestern University</p> <p>COMP_SCI 336 - Design & Analysis of Algorithms Instructor: Jason Hartline</p> <p>COMP_SCI 212 - Mathematical Foundations of Computer Science Instructor: Aravindan Vijayaraghavan</p> <p>Teaching Assistant - Stony Brook University</p> <p>CSE 215 - Foundations of Computer Science Instructor: Himanshu Gupta; Paul Fodor</p> <p>CSE 114 - Computer Science I Instructor: Paul Fodor</p> <p>CSE 540 - Theory of Computation Instructor: Jing Chen</p>	<p>Fall 2019</p> <p>Spring 2019</p> <p>Fall 2015, Spring 2016</p> <p>Spring 2016</p> <p>Fall 2016</p>