Mingfei Zhao

Personal Data

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EDUCATION

Sep 2019	Ph.D. of Computer Science, Yale University, USA
	Advisor: Prof. Yang CAI
Sep 2017	Ph.D. of Computer Science, McGill University, Canada
	Advisor: Prof. Yang CAI
Sep 2015	Master of Computer Science(Thesis), McGill University, Canada
	Thesis: "Approximating Gains from Trade in Two-sided Markets via Simple Mechanisms"
	Advisor: Prof. Yang CAI
	GPA: 4.0/4.0
Sep 2011	Bachelor Degree in Computer Science and Technology, Tsinghua University, China
	GPA: 87.9/100(Major) 86.8/100(Overall)
	Second Bachelor Degree of Science: Pure and Applied Mathematics

RESEARCH INTERESTS

Algorithmic Game Theory, Mechanism Design.

PUBLICATIONS

On Multi-Dimensional Gains from Trade Maximization

Yang CAI, Kira GOLDNER, Steven MA, **Mingfei ZHAO** To appear in Proceedings of the 32nd ACM-SIAM Symposium on Discrete Algorithms (SODA 2021)

An Efficient $\varepsilon\textsc{-BIC}$ to BIC Transformation and Its Application to Black-Box Reduction in Revenue Maximization

Yang CAI, Argyris Оіколомоu, Grigoris Velegkas, **Mingfei ZHAO** To appear in Proceedings of the 32nd ACM-SIAM Symposium on Discrete Algorithms (SODA 2021)

Simple Mechanisms for Profit Maximization in Multi-item Auctions

Yang CAI and **Mingfei ZHAO** Proceedings of the 2019 ACM Conference on Economics and Computation (EC 19) Pages 217-236

The Best of Both Worlds: Asymptotically Efficient Mechanisms with a Guarantee on the Expected Gains-From-Trade

Moshe BABAIOFF, Yang CAI, Yannai A. GONCZAROWSKI and Mingfei ZHAO Proceedings of the 2018 ACM Conference on Economics and Computation (EC 18), Pages 373

Simple Mechanisms for Subadditive Buyers via Duality

Yang CAI and **Mingfei ZHAO** Proceedings of the 49th Annual ACM SIGACT Symposium on Theory of Computing (STOC 2017), Pages 170-183

Invited to the Special Issue of Games and Economic Behavior for STOC/FOCS/SODA

Approximating Gains from Trade in Two-sided Markets via Simple Mechanisms

Johannes BRUSTLE, Yang CAI, Fa WU and **Mingfei ZHAO** Proceedings of the 2017 ACM Conference on Economics and Computation (EC 17), Pages 589-590

Robust Influence Maximization

Wei CHEN, Tian LIN, Zihan TAN, **Mingfei ZHAO** and Xuren ZHOU Proceedings of the 22nd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 16), Pages 795-804

Tight Bound on Randomness for Violating the Clauser-Horne-Shimony-Holt Inequality Yifeng TENG, Shenghao YANG, Siwei WANG and **Mingfei ZHAO**

IEEE Transactions on Information Theory (Volume: 62, Issue: 4, April 2016)

CONFERENCE PRESENTATION

Jun 2017	Simple Mechanisms for Subadditive Buyers via Duality
	STOC 2017, Montreal, CA
Jun 2017	Approximating Gains from Trade in Two-sided Markets via Simple Mechanisms
-	Workshop: Connections between Theory of Computing and Mechanism Design
	in STOC 2017, Montreal, CA
Jun 2017	Approximating Gains from Trade in Two-sided Markets via Simple Mechanisms
	EC 2017, Boston, US
Jul 2017	Simple Mechanisms for Subadditive Buyers via Duality
	China Theory Week 2017, Shanghai, China
Jun 2019	Simple Mechanisms for Profit Maximization in Multi-item Auctions
	EC 2019, Pheonix, US

OTHER EXPERIENCE

Jul 2018	Software Engineering Internship, Google Mountain View Manager: Saeed Alaei Found auctions with good revenue robustness under the pctr improvements in ad auc- tions.
SEP 2015	<i>Teaching Assistant, McGill University</i> Algorithms and Data Structures: Winter 2016 Algorithmic Game Theory (Graduate Course): Fall 2017 Algorithm Design: Winter 2017, Fall 2018, Winter 2018
Feb 2014	Mathematical Contest in Modeling 2014, Tsinghua University Meritorious Winner Built a mathematical model studying the tradeoff between road efficiency and safety for different traffic rules in freeways; as a group leader, wrote the simulation program of freeways and came up with the main idea of intelligence freeway system.
Ост 2012	Students Research Training, Tsinghua University As a group member, developed an application that allows people to play Bridge game with another three players controlled by an advanced artificial intelligence, wrote the main platform by c++ that supports the application and the "Bidding" part of the artificial intelligence.

SCHOLARSHIPS AND CERTIFICATES

- SEP 2017 Richard H. Tomlinson Doctoral Fellowship
- MAY 2013 Tsinghua School Plan Scholarship
- JAN 2010 China Mathematics Olympics, Silver Medal
- AUG 2009 China National Olympiad in Informatics (Summer Camp), Silver Medal

LANGUAGES

CHINESE: Mothertongue ENGLISH: Proficient

COMPUTER SKILLS

Languages: C++, Java, Matlab, Latex, Pascal