

# YIFAN WANG

Georgia Institute of Technology, Atlanta, GA, 30332

litcwyf.github.io  $\diamond$  ywang3782@gatech.edu

## EDUCATION

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**Georgia Institute of Technology**

*Aug 2021 - May 2026 (Expected)*

Ph.D in Computer Science

Advisor: Sahil Singla

**Tsinghua University**

*Aug 2016 - Jun 2020*

Graduated with B.Eng in Computer Science, with honor

## RESEARCH INTEREST

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I am broadly interested in computational economics and theoretical computer science. Currently, I am focusing on the learning aspects of computational economics models.

## PUBLICATIONS AND PREPRINTS

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### Selected Publications

- Enze Sun, Zhihao Gavin Tang, and Yifan Wang. “Combinatorial Philosopher Inequalities”. *To appear in Symposium on Discrete Algorithms (SODA)*, 2026
- Shuchi Chawla, Trung Dang, Zhiyi Huang, and Yifan Wang. “Multi-Unit Combinatorial Prophet Inequalities”. *To appear in Conference on Web and Internet Economics (WINE)*, 2025
- Yifeng Teng and Yifan Wang. “Learning Optimal Posted Prices for a Unit-Demand Buyer”. *ACM Conference on Economics and Computation (EC)*, 2025
- Rohan Ghuge, Sahil Singla, and Yifan Wang. “Single-Sample and Robust Online Resource Allocation”. *Symposium on Theory of Computing (STOC)*, 2025
- Enze Sun, Zhihao Gavin Tang, and Yifan Wang. “Online Stochastic Matching with Unknown Arrival Order: Beating 0.5 against the Online Optimum”. *Symposium on Theory of Computing (STOC)*, 2025
- Sahil Singla and Yifan Wang. “Bandit Sequential Posted Pricing via Half Concavity”. *Conference on Economics and Computation (EC)*, 2024
- Khashayar Gatmiry, Thomas Kesselheim, Sahil Singla, and Yifan Wang. “Bandit Algorithms for Prophet Inequality and Pandora’s Box”. *Symposium on Discrete Algorithms (SODA)*, 2024

### Other Old Publications

- Ruifeng Luo, Yifan Wang, Zhiyuan Liu, Weifang Xiao, and Xianzhong Zhao. “A reinforcement learning method for layout design of planar and spatial trusses using kernel regression”. *Applied Sciences*, 2022
- Ruifeng Luo, Yifan Wang, Weifang Xiao, and Xianzhong Zhao. “AlphaTruss: Monte Carlo tree search for optimal truss layout design”. *Buildings*, 2022
- Honglei Zhuang, Chi Wang, and Yifan Wang. “Identifying Outlier Arms in Multi-Armed Bandit”. *Annual Conference on Neural Information Processing Systems (NeurIPS)*, 2017

### Preprints

- Gagan Aggarwal, Yifan Wang, and Mingfei Zhao. “Online Advertising with Spatial Interactions”. *In Submission*, 2025
- Mohammad Mahdian, Jieming Mao, Enze Sun, Kangning Wang, and Yifan Wang. “Additively Competitive Secretaries”. *In Submission*, 2025

## RESEARCH VISITS

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<b>Google Research, Mountain View</b> Hosted by Dr. Gagan Aggarwal and Dr. Mingfei Zhao	<i>Jun 2025 – Aug 2025</i>
<b>University of Texas at Austin</b> Hosted by Prof. Shuchi Chawla	<i>Jun 2024</i>
<b>Shanghai University of Finance and Economics</b> Hosted by Prof. Gavin Zhihao Tang	<i>May 2023 - Aug 2023</i>
<b>Simons Institute, UC Berkeley</b> Visiting graduate student of Data-Driven Decision Processes program	<i>Sep 2022 - Dec 2022</i>

## TALKS

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- **Combinatorial Philosopher Inequalities**
  - University of Texas at Austin (online), Sep 2025
- **Learning Optimal Posted Prices for a Unit-Demand Buyer**
  - EC, Jul 2025
- **Single-Sample and Robust Online Resource Allocation**
  - INFORMS, Oct 2025
  - STOC (online talk), Jun 2025
  - Shanghai University of Finance and Economics, Apr 2024
  - University of Texas at Austin (online), Jun 2024
  - Workshop on Frontiers of Online Advertising: Autobidding, GenAI, and Beyond at EC, Jul 2024
  - ARC Colloquium at Georgia Tech, Sep 2024
- **Bandit Sequential Posted Pricing via Half Concavity**
  - EC, Jul 2024
- **Bandit Algorithms for Prophet Inequality and Pandora’s Box**
  - ACO Student Seminar, Georgia Tech, Sep 2022
  - Simons Institute, UC Berkeley, Nov 2022
  - SODA, Jan 2024

## PROFESSIONAL SERVICE

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<b>Program Committee Member</b>	WINE ’25
<b>Subreviewer</b>	SODA ’23, ’24, ’26 ITCS ’25 STOC ’25
<b>Journal Reviewer</b>	ToC for APPROX 2024 Operations Research

## AWARDS AND FELLOWSHIPS

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2016 ACM-ICPC Asia Beijing Regional Gold Medal (6 of 198)

2016 CCPC (China Collegiate Programming Contest) Changchun Regional Gold Medal (7 of 180)

National Scholarship in 2017 (top 3%)

2024 ARC-ACO Fellowship

## SKILLS

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**Computer Languages and Tools** C/C++, Python, Java, JavaScript, HTML/CSS, MATLAB

Solid programming experience in C, C++