

# LINDA CAI

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## EDUCATION

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- Ph.D. in Computer Science**, Princeton University 2020-2024  
Thesis: Algorithmic Decision Making with Imperfect Information and Practical Irrationality  
Advisor: Matt Weinberg
- M.S. in Computer Science**, Princeton University 2018-2020  
Advisor: Matt Weinberg
- B.S. in Computer Science and Mathematics**, UIUC 2014-2018  
Graduated Summa Cum Laude

## FELLOWSHIPS AND AWARDS

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- **School of Engineering and Applied Science Award for Excellence** awarded for outstanding performance in academics, research endeavors, and pedagogical contributions 2023
- **Siebel Scholar** awarded for academic excellence and demonstrated leadership 2023
- **Chainlink Labs Research Fellowship** awarded by Chainlink Labs 2021
- **Francis Robbins Upton Fellowship** awarded by Princeton School of Engineering 2020
- **Bronze Tablet Award** for ranking in the top three percent at UIUC 2018
- **Jeffry P. Blahut Memorial Scholarship** for academic achievements in CS 2017
- **Franz Hohn and J.P. Nash Scholarship** for outstanding performance in applied and computational mathematics 2016

## EMPLOYEMENTS AND INTERNSHIPS

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- **Postdoctoral Researcher at UC Berkeley** Fall 2024-Present  
Supervisor: Michael I. Jordan
- **Research Internship at Athena Research Center (Greece)** Summer 2023  
Supervisor: Costis Daskalakis
- **Research Internship at Microsoft Research New England** Summer 2022  
Supervisor: Brendan Lucier
- **Software Engineering Internship at Jump Trading** Summer 2017

## CONFERENCE PUBLICATIONS AND PREPRINTS

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- *Cost-aware Stopping for Bayesian Optimization* [link]  
Qian Xie\*, Linda Cai\*, Alexander Terenin, Peter I. Frazier, Ziv Scully.  
In submission to the 39th Annual Conference on Neural Information Processing Systems (**Neurips 2025**)
- *Faster Diffusion-based Sampling with Randomized Midpoints: Sequential and Parallel* [link]  
Shivam Gupta, Linda Cai, Sitan Chen.  
In proceeding of the 13th International Conference on Learning Representations. **ICLR 2025**

- *Profitable Manipulations of Cryptographic Self-Selection are Statistically Detectable* [link]  
Linda Cai, Jingyi Liu, S. Matthew Weinberg, Chenghan Zhou.  
In proceeding of international conference on Advances in Financial Technologies. **AFT 2024**
- *Bundling in Oligopoly: Revenue Maximization with Single-Item Competitors* [link]  
Moshe Babaioff, Linda Cai, Brendan Lucier.  
In proceeding of the 25th ACM Conference on Economics and Computation. **EC 2024**
- *Optimal Stopping with Multi-Dimensional Comparative Loss Aversion* [link]  
Linda Cai, Joshua Gardner, S. Matthew Weinberg.  
In Proceedings of the 19th Conference on Web and Internet Economics. **WINE 2023**
- *Selling to Multiple No-Regret Buyers* [link]  
Linda Cai, S. Matthew Weinberg, Evan Wildenhain, Shirley Zhang.  
In Proceedings of the 19th Conference on Web and Internet Economics. **WINE 2023**
- *Pandora's Problem with Nonobligatory Inspection: Optimal Structure and a PTAS.* [link]  
Hedyeh Beyhaghi, Linda Cai.  
In Proceedings of The 55th Annual ACM Symposium on Theory of Computing. **STOC 2023**
- *The Short-Side Advantage in Random Matching Markets.* [link]  
Linda Cai, Clayton Thomas.  
In Proceedings of the 5th Symposium on Simplicity in Algorithms. **SOSA 2022**
- *99% Revenue with Constant Enhanced Competition.* [link]  
Linda Cai, Raghuvansh R. Saxena.  
In Proceedings of The 22nd ACM Conference on Economics and Computation. **EC 2021**
- *Implementation in Advised Strategies: Welfare Guarantees from Posted-Price Mechanisms when Demand Queries are NP-hard.* [link]  
Linda Cai, Clayton Thomas, S. Matthew Weinberg.  
In Proceedings of the 11th Innovations in Theoretical Computer Science. **ITCS 2020**
- *Baechi: fast device placement of machine learning graphs.* [link]  
Beomyeol Jeon, Linda Cai, Pallavi Srivastava, Jintao Jiang, Xiaolan Ke, Yitao Meng, Cong Xie, Indranil Gupta.  
In Proceedings of ACM Symposium on Cloud Computing. **SOCC 2020**

## SURVEYS

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- *Recent Developments in Pandora's Box Problem: Variants and Applications.* [link]  
Hedyeh Beyhaghi, Linda Cai.  
ACM SIGecom Exchanges Vol. 21.1. **Spring 2023**

## ACADEMIC SERVICES

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- **Program Committee** for EC (2023, 2025), WINE (2024)
- **Conference Referee** for STOC (2022, 2024, 2025), FOCS (2025), SODA (2021, 2023, 2024), ITCS (2021-2024), WINE (2019-2024).

## TEACHING EXPERIENCE

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- **Teaching Assistant**, New Horizons in TCS Summer School [link] **Summer 2023**
- **Teaching Assistant**, Princeton University
  - COS 521 Advanced Algorithms Design **Fall 2021**
  - COS 445 Economics and Computing (Recitation Leader) **Spring 2020**

- COS 451 Computational Geometry Fall 2019
- COS 445 Economics and Computing (Recitation Leader) Spring 2019
- COS 126 Introduction to Computer Science (Recitation Leader) Fall 2018
- **Course Assistant**, University of Illinois at Urbana Champaign
  - CS 374 Algorithms and Models of Computation Fall 2017 - Spring 2018
  - CS 126 Intro to Computer Science Spring 2015

## SKILLS

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- **Programming Languages:** Python, C++, Java, Haskell
- **Software Engineering Frameworks:** TensorFlow, PyTorch