

Chutong Yang

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Research Interests

Learning theory and algorithm design, with a particular focus on the following topics:
Trustworthy machine learning (algorithmic fairness, differential privacy, interpretability) and optimization

Education

University of Texas, Austin, Ph.D. in Computer Science Aug 2023 – Present

- Supported by **Amazon AI PhD fellowship**
- Coursework: Continuous Algorithms, Stochastic Processes

Stanford University, M.S. in Computer Science Sep 2021 – Jun 2023

- Full financial support for two years.
- Coursework: Machine Learning Theory, Optimization Algorithms

University of California, San Diego, B.S. in Computer Science and Math Sep 2016 – Jun 2020

- Overall GPA **3.944/4.0** CSE Major GPA: **3.98/4.0** Math Major GPA: **4.0/4.0**
- Coursework: Real Analysis series, Abstract Algebra series, Number Theory series, Unsupervised Learning, Algorithms for Big Data, Expander Graphs and High-Dimensional Expanders

Publications

(The authors are ordered alphabetically if no * mentioned)

Anonymous Proportionality with Incomplete Votes In Submission 2025

Zhiyi Huang, Gregory Kehne, *Chutong Yang*

EC 2025 Workshop: New Directions in Social Choice

Private Geometric Median in Nearly-Linear Time NeurIPS 2025

Syamantak Kumar, Daogao Liu, Kevin Tian, *Chutong Yang*

TPDP 2025 Workshop

<https://arxiv.org/abs/2505.20189>

Omnipredicting Single-Index Models with Multi-Index Models STOC 2025

Lunjia Hu, Kevin Tian, *Chutong Yang*

<https://arxiv.org/abs/2411.13083>

Testing Calibration in Nearly-Linear Time NeurIPS 2024

Lunjia Hu, Arun Jambulapati, Kevin Tian, *Chutong Yang*

<https://arxiv.org/abs/2402.13187>

Omnipredictors for Constrained Optimization ICML 2023

Lunjia Hu, Inbal Livni-Navon, Omer Reingold, *Chutong Yang*

<https://arxiv.org/abs/2209.07463>

Active Learning Polynomial Threshold Functions NeurIPS 2022

Omri Ben-Eliezer, Max Hopkins, *Chutong Yang*, Hantao Yu

<https://arxiv.org/abs/2201.09433>

A Fast Exact Algorithm for Deployment of Sensor Nodes for Internet of Things ISF 2022

Qinghua Zheng*, *Chutong Yang*, Haijun Yang, Jianhe Zhou

Information Systems Frontiers: <https://link.springer.com/article/10.1007/s10796-018-9890-3>

Detailed placement for IR drop mitigation by power staple insertion in sub-10nm VLSI DATE 2019

Sun ik Heo, Andrew B Kahng, Minsoo Kim, Lutong Wang, *Chutong Yang*

<https://ieeexplore.ieee.org/abstract/document/8715096>

Teaching and Research Experiences

Teaching Experience

- CS 395T Continuous Algorithms at UT Austin *Spring 2025*
- CS 353 Theory of Computation at UT Austin *Spring 2024*
- CS 109 Probability for Computer Scientists at Stanford *Spring 2023*
- CS 161 Design and Analysis of Algorithms at Stanford *Fall 2021*
- CSE 101 Design and Analysis of Algorithms at UCSD *Spring 2020, Winter 2021, Spring 2021*
- CSE 12 Basic Data Structure at UCSD *Fall 2017*

Research Experience

- Visit Northeastern University hosted by Prof. **Jonathan Ullman** and Prof. **Lunjia Hu** *Summer 2025*
- Research Assistantship with funding from Prof. **Omer Reingold** *Winter 2022-Winter 2023*
- Research Assistantship with funding from Prof. **Aaron Sidford** *Summer 2022*

PROFESSIONAL SERVICE

Conference reviewer: NeurIPS 2024, ICLR 2025, ICML 2025

SKILLS

Languages and Tools: \LaTeX , Python, Java, C, C++, Matlab, Pytorch, Linux