

# Chutong Yang

cyang98@cs.utexas.edu | chutongyang98.github.io | Google Scholar

## 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:  $\text{\LaTeX}$ , Python, Java, C, C++, Matlab, Pytorch, Linux