

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, <i>Chutong Yang</i>	
EC 2025 Workshop: New Directions in Social Choice	
Private Geometric Median in Nearly-Linear Time	NeurIPS 2025
Syamantak Kumar, Daogao Liu, Kevin Tian, <i>Chutong Yang</i>	
TPDP 2025 Workshop https://arxiv.org/abs/2505.20189	
Omnipredicting Single-Index Models with Multi-Index Models	STOC 2025
Lunjia Hu, Kevin Tian, <i>Chutong Yang</i>	
https://arxiv.org/abs/2411.13083	
Testing Calibration in Nearly-Linear Time	NeurIPS 2024
Lunjia Hu, Arun Jambulapati, Kevin Tian, <i>Chutong Yang</i>	
https://arxiv.org/abs/2402.13187	
Omnipredictors for Constrained Optimization	ICML 2023
Lunjia Hu, Inbal Livni-Navon, Omer Reingold, <i>Chutong Yang</i>	
https://arxiv.org/abs/2209.07463	
Active Learning Polynomial Threshold Functions	NeurIPS 2022
Omri Ben-Eliezer, Max Hopkins, <i>Chutong Yang</i> , 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*, <i>Chutong Yang</i> , 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, <i>Chutong Yang</i>	

<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