My Website

TRUNG DANG

Curriculum Vitae

Department of Computer Science
The University of Texas at Austin
✉ *dddtrung@cs.utexas.edu*
🖥 *kuroni.github.io*

Education

Aug 2023 –
Current
Ph.D., Computer Science, *The University of Texas at Austin*, Austin, TX.
Research Interest: Theory, with a focus on Mechanism Design and Prophet Inequality.

Aug 2019 –
May 2023
BSc, Computer Science, *Purdue University*, West Lafayette, IN.
Coursework: Algorithm Design, Analysis, and Implementation. Randomized Algorithm. Algorithmic Economics. Intro to Artificial Intelligence. Machine Learning.

Publications and Manuscripts

Publications

2024 Shuchi Chawla, Dimitris Christou, **Trung Dang**, Zhiyi Huang, Gregory Kehne, and Rojin Rezvan. A Multi-Dimensional Online Contention Resolution Scheme for Revenue Maximization. pages 1641–1668. SIAM, 2024.

2023 **Trung Dang**, Jasper Lee, Maoyuan 'Raymond' Song, and Paul Valiant. Optimality in Mean Estimation: Beyond Worst-Case, Beyond Sub-Gaussian, and Beyond $1 + \alpha$ Moments. In A. Oh, T. Naumann, A. Globerson, K. Saenko, M. Hardt, and S. Levine, editors, *Advances in Neural Information Processing Systems*, volume 36, pages 4150–4176. Curran Associates, Inc., 2023.

2021 Zitao Li, **Trung Dang**, Tianhao Wang, and Ninghui Li. MGD: A Utility Metric for Private Data Publication. In *Proceedings of the 8th International Conference on Networking, Systems and Security*, NSysS '21, pages 106–119, New York, NY, USA, 2021. Association for Computing Machinery.

Manuscripts

2024 **Trung Dang** and Zhiyi Huang. Robust Max Selection. *arXiv preprint arXiv:2409.06014*, 2024.

2023 **Trung Dang**, Walter McKelvie, Paul Valiant, and Hongao Wang. Improving Pearson's chi-squared test: hypothesis testing of distributions–optimally. *arXiv preprint arXiv:2310.09408*, 2023.

2023 Kamyar Azizzadenesheli, **Trung Dang**, Aranyak Mehta, Alexandros Psomas, and Qian Zhang. Reward Selection with Noisy Observations. *arXiv preprint arXiv:2307.05953*, 2023.

Industry Experience

May 2022 –
Aug 2022
Software Engineer Intern, *Meta*, Seattle, WA.
- Performed migration of an important internal data streaming service to a new framework.
- Implemented additional features to integrate the streaming service more smoothly into the new framework.

Scholarships & Awards

2022 **Honorable mention** for the CRA Outstanding Undergraduate Researcher Awards 2023.

2022 20th place at ICPC World Finals 2021.

2024 31st place at ICPC World Finals 2023.

2021, 2023 Bronze Medal at ICPC North American Championship

2021 **First Prize Winner** of the NIST "A Better Meter Stick for Differential Privacy" competition.

Teaching

Fall 2024	**C S 331: Algorithms and Complexity**, *Teaching Assistant*, UT Austin.
Fall 2023 – Spring 2024	**C S 375: Compilers**, *Teaching Assistant*, UT Austin.
Fall 2022	**CS381: Introduction to the Analysis of Algorithms**, *Teaching Assistant*, Purdue University.
Fall 2019 – Spring 2023	**CS390-CP2: Competitive Programming II**, *Teaching Assistant*, Purdue University.
Spring 2020 – Spring 2023	**CS490-CP3: Competitive Programming III**, *Teaching Assistant*, Purdue University.

Computer skills

Programming Languages	Python, C/C++, JavaScript/TypeScript, LaTeX, Java, Haskell
Web Technologies	React/React Native