AKHIL JALAN

Email: akhiljalan@utexas.edu — **Website**: akhiljalan.github.io — **Citizenship**: United States

EDUCATION

University of Texas at Austin   Aug 2020 - May 2025 (Expected)
Ph.D. Computer Science
Advisors: Purnamrita Sarkar, Deepayan Chakabarti

University of California, Berkeley   Aug 2015 - May 2019
B.A. Applied Mathematics, Highest Honors   *GPA: 3.95/4.00*
Advisor: Nikhil Srivastava

PUBLICATIONS

- **Near-Optimal Cayley Expanders for Abelian Groups**
  Akhil Jalan, Dana Moshkovitz
  41st IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS 2021).
  LIPICS, 2021.

- **Too Many Fairness Metrics: Is There a Solution?**
  Swati Gupta, **Akhil Jalan**, Gireeja Ranade, Helen Yang, Simon Zhuang.
  4th Annual Workshop on Mechanism Design for Social Good (MD4SG).
  ACM, 2020.

- **Some New Numeric Results Concerning the Witsenhausen Counterexample**
  Vignesh Subramanian, Laura Brink, Nikunj Jain, Kailas Vodrahalli, **Akhil Jalan**, Nikhil Shinde, Anant Sahai.
  2018 56th Annual Allerton Conference on Communication, Control, and Computing (Allerton).
  IEEE, 2018.

PREPRINTS / MANUSCRIPTS

- **The Structure of the Sandpile Group**
  Akhil Jalan
  Bachelor's Thesis, UC Berkeley.
  2019

TALKS

UT Austin Pseudorandomness Group   Oct 2021
Cornell Theory Seminar   May 2021

TEACHING

Logic in Computer Science and Artificial Intelligence, UT Austin   Fall 2020

SERVICE

Subreviewer   Computational Complexity Conference (CCC) 2022

Graduate Student Representative   Fall 2021
Graduate Representative Association of Computer Sciences   *Austin, TX*

Math Peer Advisor   Aug 2018 - May 2019
UC Berkeley   *Berkeley, CA*

WORK EXPERIENCE

VergeSense   Mar 2020 - Aug 2020
Data Scientist   *San Francisco, CA*

WeWork   Aug 2019 - Nov 2019
Engineer, Research & Applied Sciences Team   *Palo Alto, CA*