MILIND B PRABHU

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EDUCATION

University of Michigan, Ann Arbor *September 2022 – Present*
PhD in Theoretical Computer Science, Advised by Nikhil Bansal USA

Indian Institute of Technology, Guwahati *July 2018 – July 2022*
Bachelor of Technology in Computer Science and Engineering India
- GPA: 9.32/10.0
- Bachelor's Thesis Project advised by Benny George Kenkireth

PUBLICATIONS

- Sensitivity Sampling for k-Means: Worst Case and Stability Optimal Coreset Bounds **(FOCS 2024)**
  with Nikhil Bansal, Vincent Cohen-Addad, David Saulpic, and Chris Schwiegelshohn

- Learning Multiple Secrets in Mastermind **(ICML 2024)**
  with David Woodruff

- On Minimizing Generalized Makespan on Unrelated Machines **(APPROX 2023)**
  with Nikhil Ayyadevara and Nikhil Bansal

- Generalizing Greenwald-Khanna Streaming Quantile Summaries for Weighted Inputs **(ICDT 2023)**
  with Sepehr Assadi, Nirmit Joshi, and Vihan Shah

TALKS

- **Microsoft Research, India. (Jan 2025)** Online talk on *Coresets for k-Means Clustering.*

- **Program in Algorithmic & Combinatorial Thinking 2024** (PACT). Gave a talk to high-school and undergraduate students on Randomized Load Balancing.

- **New Horizons in TCS Summer School, 2021** (Link): Participated as a (virtual) Teaching Assistant for the summer school held in 2021. The goal of the summer school was to expose undergraduate students from under-represented groups to emerging areas in theoretical computer science.

- **Program in Algorithmic & Combinatorial Thinking 2020** (PACT). Gave talks to high-school and undergraduate students on Sublinear Algorithms, Streaming Algorithms, and Communication Complexity.

SERVICE AND PROFESSIONAL ACTIVITIES

- **External Reviews:**
  - Symposium on Theory of Computing (STOC): 2025
  - Symposium on Discrete Algorithms (SODA): 2025
  - Foundations of Software Technology and Theoretical Computer Science (FSTTCS): 2024

- **Department Service:**
  - Co-organizer of the weekly *Theory Lunch* at the University of Michigan in Fall 2024 and Winter 2025.

Workshop Participations

- **Efficient Algorithms for High Dimensional Metrics: New Tools, 2024:** Attended a workshop on algorithms for high dimensional metrics organized by DIMACS at Rutgers University, New Brunswick.

- **Old Questions and New Directions in Theory of Clustering, 2024:** Attended a workshop on clustering algorithms organized by the EnCORE institute at the University of California, San Diego.

- **PACT 2019:** Attended the Program in Algorithmic & Combinatorial Thinking organized by Rajiv Gandhi at Princeton University in the summer of 2019.

Awards and Honors

- **IIT-JEE Advanced 2018**: Ranked 582nd among 1 Million Candidates.

- **Indian National Mathematical Olympiad 2017:** Awarded a certificate of merit.

- **KVPY 2016:** Offered a fellowship by the Department of Science and Technology, Government of India for securing an all India rank of 162.

- **NTSE 2016:** Awarded the National Talent Search Examination Scholarship.