Prathamesh Dharangutte

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EDUCATION

○ **PhD in Computer Science**   Advisor: Jie Gao
  Rutgers University   *Sept 2021 – Present*
○ **MS in Computer Science**   Advisor: Christopher Musco
  New York University   *Aug 2019 – May 2021*
  Thesis: Dynamic Trace Estimation.
○ **B.E. in Computer Engineering**
  Pune University   *July 2013 – May 2017*

RESEARCH INTERESTS

○ I am primarily interested in **algorithms for big data analysis**, more broadly in **differential privacy**, **numerical linear algebra** and **machine learning**.

PUBLICATIONS

*Authors appear in alphabetical order. Exceptions are marked by *.*

Conference papers

○ **Integer Subspace Differential Privacy**
  Prathamesh Dharangutte, Jie Gao, Ruobin Gong, Fang-Yi Yu
  AAAI Conference on Artificial Intelligence (AAAI 2023).
○ **A Tight Analysis of Hutchinson's Diagonal Estimator**
  Prathamesh Dharangutte, Christopher Musco
  SIAM Symposium on Simplicity in Algorithms (SOSA 2023).
○ **Dynamic Trace Estimation**
  Prathamesh Dharangutte, Christopher Musco
  Conference on Neural Information Processing Systems (NeurIPS) 2021.
○ **Graph Learning for Inverse Landscape Genetics**
  Prathamesh Dharangutte, Christopher Musco
  AAAI Conference on Artificial Intelligence (AAAI) 2021.

Workshop paper

○ **An Energy-Based View of Graph Neural Networks**
  John Y. Shin*, Prathamesh Dharangutte*
  Energy-Based Models Workshop (EBM-ICLR) 2021.

TEACHING EXPERIENCE

TA, Introduction to Discrete Structures I (Rutgers CS205)	*Spring 2023*
TA, Machine Learning Principles (Rutgers CS461)	*Fall 2022*
TA, Data Management for Data Science (Rutgers CS210)	*Spring 2022*
TA, Mathematical Foundations of Data Science (Rutgers CS501)	*Fall 2021*
TA, Introduction to Machine Learning (NYU CS-UY 4563)	*Spring 2020*

PROFESSIONAL EXPERIENCE

HSBC Software Development   Aug 2017 – Nov 2018
Software Engineer   *Pune, India*

SERVICE

Reviewer: AISTATS'23.
Conference travel awards: AAAI'23, AAAI'21.