

Prathamesh Dharangutte

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RESEARCH INTERESTS

- I am broadly interested in **algorithms for big data analysis**. Currently, I am exploring practical and robust algorithms for problems in **differential privacy**. I am also interested in numerical linear algebra and machine learning.

EDUCATION

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

PUBLICATIONS

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

- **A Tight Analysis of Hutchinson's Diagonal Estimator**
Prathamesh Dharangutte, Christopher Musco
Preprint. [[Link](#)]
- **Integer Subspace Differential Privacy**
Prathamesh Dharangutte, Jie Gao, Ruobin Gong, Fang-Yi Yu
Preprint.
- **Dynamic Trace Estimation**
Prathamesh Dharangutte, Christopher Musco
Conference on Neural Information Processing Systems (NeurIPS) 2021. [[Link](#)]
- **An Energy-Based View of Graph Neural Networks**
John Y. Shin*, Prathamesh Dharangutte*
Energy-Based Models Workshop (ICLR) 2021. [[Link](#)]
- **Graph Learning for Inverse Landscape Genetics**
Prathamesh Dharangutte, Christopher Musco
AAAI Conference on Artificial Intelligence (AAAI) 2021. [[Link](#)]

TEACHING EXPERIENCE

- | | |
|--|-------------|
| 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

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|---|------------------------------------|
| HSBC Software Development
Software Engineer | Aug 2017 – Nov 2018
Pune, India |
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SERVICE

Student volunteer: AAAI'21.