# 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**                                                                         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*

## PUBLICATIONS

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

○ **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 2021*
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*
**Prism IT Solutions**                                                                          Dec 2015 – May 2016
*Software Engineer Intern*                                                                            *Pune, India*

## SERVICE

**Student volunteer:** AAAI'21.