

# Prathamesh Dharangutte

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🔗 <https://prathameshtd.github.io>

## RESEARCH INTERESTS

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- 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

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- **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

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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

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- 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

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- HSBC Software Development** Aug 2017 – Nov 2018  
Software Engineer Pune, India
- Prism IT Solutions** Dec 2015 – May 2016  
Software Engineer Intern Pune, India

## SERVICE

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Student volunteer: AAAI'21.