

VISHVAJEET N

Princeton, USA

+1 (609) 865-3506
nvishvajeet@gmail.com

<https://nvishvajeet.github.io>

RESEARCH INTERESTS

I am broadly interested in Theoretical Computer Science.

EDUCATION

- Rutgers University** 2017 - 2022 (expected)
- Ph. D candidate in Computer Science
 - Advisor: Prof. Swastik Kopparty
- Indian Institute of Technology Madras** 2012 - 2017
- Bachelor and Master of Technology
 - Master's Thesis Advisor: Prof. Radhakrishna Ganti
 - Master's Thesis: Optimization of Mechanical Systems via Lasserre Hierarchy of Semidefinite Programming Relaxations

PUBLICATIONS

Graph Streaming Lower Bounds for Parameter Estimation and Property Testing via a Streaming XOR Lemma
Sepehr Assadi and **Vishvajeet N**, 2021.

The 53rd Annual ACM Symposium on Theory of Computing (**STOC 2021**)

INTERNSHIPS

- Microsoft Research, India** May - Aug 2016
- Mentor: Dr. Satya Lokam
 - Area: Analysis of Boolean Functions, Sensitivity Conjecture
 - Worked towards extending the approach of relating higher moments of sensitivity and degree of a general function to bounding decision-tree depth in terms of higher moment of sensitivity
- Tata Institute of Fundamental Research, Mumbai, India** May - Oct 2015
- Mentor: Prof. Prahladh Harsha
 - Area: Coding Theory
 - Surveyed Arikan's capacity-achieving deterministic coding schemes and fresh results surrounding the capacity-achieving capabilities of Reed-Muller codes, as part of the *Visiting Students' Research Program*
 - Wrote an article on the area: *Codes That Achieve Capacity on Symmetric Channels* (arXiv:1510.01439[cs.IT]).

WORKSHOPS ATTENDED

- Workshop on Algorithms for Large Data** Aug 2021
- Online
- Monthly Meeting of the Simons Collaboration on Algorithms and Geometry** 2019/2020
- Flatiron Institute, NYC
- Interactive Complexity** Oct 2018
- Simons Institute for the Theory of Computing, Berkeley
- Workshop on Local Algorithms** June 2018
- MIT, Cambridge

Sublinear Algorithms, Local Algorithms and Robust Statistics

June 2018

- MIT, Cambridge

Avi Wigderson is 60 - A Celebration of Mathematics and Computer Science

Oct 2016

- Institute for Advanced Study, Princeton

TEACHING EXPERIENCE

I have been a Teaching Assistant for the following courses at Rutgers University:

Introduction to Discrete Structures II (CS 206)	Spring 2021
Introduction to Discrete Structures I (CS 205)	Spring 2020
Design and Analysis of Computer Algorithms (CS 344)	Fall 2019
Introduction to Calculus I (MATH 135)	Spring 2019
Design and Analysis of Data Structures and Algorithms (CS 513)	Fall 2018
Introduction to Discrete Structures II (CS 206)	Spring 2018
Design and Analysis of Data Structures and Algorithms (CS 513)	Fall 2017

REFERENCES

Swastik Kopparty

Associate Professor,
Department of Mathematics and
Department of Computer Science,
University of Toronto,
Toronto, Canada.

Email: swastik.kopparty@utoronto.ca

Sepehr Assadi

Assistant Professor,
Department of Computer Science,
Rutgers University,
New Brunswick,
USA.

Email: sepehr.assadi@rutgers.edu

Huacheng Yu

Assistant Professor,
Department of Computer Science,
Princeton University,
Princeton,
USA.

Email: yuhch123@gmail.com