

SURENDRA GHENTYALA

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EDUCATION

Cornell University

Aug 2022-Present

Ph.D. in Computer Science

Advisor: Noah Stephens-Davidowitz

Research Focus: Theoretical Computer Science

Overall GPA: 4.04

University of California, Santa Barbara

Sep 2019-Dec 2021

B.S in Computer Science *cum laude*

Advisor: Tefik Bultan

De Anza College

2017-2019

4 dual enrollment courses as high school student

PAPERS

New constructions of pseudorandom codes

Surendra Ghentiyala, Venkatesan Guruswami

In Submission

The more the merrier! On total coding and lattice problems and the complexity of finding multicollisions

Huck Bennett, Surendra Ghentiyala, Noah Stephens-Davidowitz

16th Innovations in Theoretical Computer Science (ITCS), 2025

More basis reduction for linear codes: backward reduction, BKZ, slide reduction, and more

Surendra Ghentiyala, Noah Stephens-Davidowitz

International Conference on Approximation Algorithms for Combinatorial Optimization Problems (APPROX), 2024

Obtaining Information Leakage Bounds via Approximate Model Counting

Seemanta Saha*, **Surendra Ghentiyala***, Shihua Lu, Lucas Bang, Tefik Bultan

Programming Language Design and Implementation (PLDI), 2023

(*equal contribution)

TALKS

More basis reduction for linear codes: backward reduction, BKZ, slide reduction, and more

International Conference on Approximation Algorithms for Combinatorial Optimization Problems (APPROX), 2024

TFNP and Multicollisions

Cornell Theory Tea, 2023

Obtaining Information Leakage Bounds via Approximate Model Counting

Programming Language Design and Implementation (PLDI), 2023

Quantitative Program Analysis with KLEE
Early Research Scholars Program, 2021

TEACHING EXPERIENCE

Graduate Teaching Assistant, Cornell University

Aug 2022-May 2023

- CS 4700/5700 Foundations of Artificial Intelligence
- CS 4120/5120 Introduction to Compilers

AWARDS & ACHIEVEMENTS

NSF Graduate Research Fellowships Program (GRFP) Honorable Mention

April 2024

Dean's List

Sep 2019-Dec 2021

- 6/7 Trimester's at University of California, Santa Barbara

PROFESSIONAL SERVICE

Subreviewer

2023-2024

- ICALP (2024)
- FOCS (2023)

Graduate Student Recruitment for Outreach Events

Aug 2023 - Present

- For Association of Computer Science (ACSU) research night
- For informational panel on applying to graduate school

Research Night

2023-Present

- Presented cryptography research to undergraduate students interested in computer science research every semester

SKILLS

Programming Languages

C++, Haskell, Java, Python