SURENDRA GHENTIYALA

sg974@cornell.edu

EDUCATION

Cornell University

Aug 2022-Present

Ph.D. in Computer Science

Advisor: Noah Stephens-Davidowitz

Research Focus: Theoretical Computer Science

Overall GPA: 4.00

University of California, Santa Barbara

Sep 2019-Dec 2021

B.S in Computer Science cum laude

Advisor: Tevfik Bultan Overall GPA: 3.85

De Anza College

4 dual enrollment courses as high school student

Overall GPA: 4.00

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

In Submission

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, Tevfik 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

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

Dean's List April 2024

· NSF Graduate Research Fellowships Program (GRFP) Honorable Mention

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