

# Stanford

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## Sneha Goenka

- Ph.D. Student in Electrical Engineering, admitted Autumn 2017
- Stanford Student Employee, Hoover Institution

### Bio

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#### BIO

Sneha D. Goenka is a PhD candidate in the Department of Electrical Engineering at Stanford University where she is advised by Prof. Mark Horowitz. Her current research interests lie at the intersection of computer architecture and computational genomics. She has a B.Tech and M.Tech (Microelectronics) in Electrical Engineering from Indian Institute of Technology, Bombay.

### Publications

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#### PUBLICATIONS

- **Accelerated identification of disease-causing variants with ultra-rapid nanopore genome sequencing.** *Nature biotechnology*  
Goenka, S. D., Gorzynski, J. E., Shafin, K., Fisk, D. G., Pesout, T., Jensen, T. D., Monlong, J., Chang, P. C., Baid, G., Bernstein, J. A., Christle, J. W., Dalton, K. P., Galalde, et al  
2022
- **Ultra-Rapid Nanopore Whole Genome Genetic Diagnosis of Dilated Cardiomyopathy in an Adolescent With Cardiogenic Shock.** *Circulation. Genomic and precision medicine*  
Gorzynski, J. E., Goenka, S. D., Shafin, K., Jensen, T. D., Fisk, D. G., Grove, M. E., Spiteri, E., Pesout, T., Monlong, J., Bernstein, J. A., Ceresnak, S., Chang, P., Christle, et al  
2022: CIRCGEN121003591
- **Ultrarapid Nanopore Genome Sequencing in a Critical Care Setting.** *The New England journal of medicine*  
Gorzynski, J. E., Goenka, S. D., Shafin, K., Jensen, T. D., Fisk, D. G., Grove, M. E., Spiteri, E., Pesout, T., Monlong, J., Baid, G., Bernstein, J. A., Ceresnak, S., Chang, et al  
2022
- **SegAlign: A Scalable GPU-Based Whole Genome Aligner** *International Conference for High Performance Computing, Networking, Storage and Analysis (SC)*  
Goenka, S., Turakhia, Y., Paten, B., Horowitz, M.  
2020: 540–552
- **Darwin-WGA: A Co-processor Provides Increased Sensitivity in Whole Genome Alignments with High Speedup**  
Turakhia, Y., Goenka, S. D., Bejerano, G., Dally, W. J., IEEE  
IEEE.2019: 359–72