

Deepak Narayanan Sridharan

dsridharan@inf.ethz.ch

RESEARCH INTERESTS

Algorithmic robust statistics and its interplay with differential privacy; Sum-of-Squares method and its applications to high-dimensional statistical estimation.

EDUCATION

ETH Zürich

Ph.D. in Computer Science; Advisor: David Steurer

Zürich, Switzerland

Sep. 2024 – Current

ETH Zürich

M.Sc. in Computer Science, with Distinction

Zürich, Switzerland

Sep. 2021 – Apr. 2024

IIT Gandhinagar

B.Tech. in Computer Science and Engineering, with Honors

Gandhinagar, India

Jul. 2016 – Jun. 2020

SELECTED PUBLICATIONS

*Author order is alphabetical for the first three papers; * denotes equal contribution.*

On Efficient Robust Regression with Subquadratic Samples.

Deeksha Adil, Jarosław Blasiok, Hongjie Chen, **Deepak Narayanan Sridharan**.

Conference on Learning Theory (COLT), 2026.

Fast Algorithms for Learning a Gaussian under Halfspace Truncation with Optimal Sample Complexity.

Haitong Liu, **Deepak Narayanan Sridharan**, David Steurer, Manuel Wiedmer.

Conference on Learning Theory (COLT), 2026.

Outlier-Robust Mean Estimation near the Breakdown Point via Sum-of-Squares.

Hongjie Chen, **Deepak Narayanan Sridharan**, David Steurer.

ACM-SIAM Symposium on Discrete Algorithms (SODA), 2025.

IGLU: Efficient GCN Training via Lazy Updates.

Deepak Narayanan Sridharan*, Aditya Sinha*, Prateek Jain, Purushottam Kar, Sundararajan Sellamanickam.

International Conference on Learning Representations (ICLR), 2022.

WORK EXPERIENCE

Microsoft Research India

Research Fellow, Machine Learning and Optimization Group

Bengaluru, India

Aug. 2020 – Aug. 2021

- Worked on scalable training of graph neural networks and learning-to-rank for search.
- Developed IGLU, reducing GCN training compute by up to 88%; published at ICLR 2022.

California Institute of Technology

SURF Research Fellow

Pasadena, CA, USA

Summer 2019

- Worked with K. Mani Chandy and Julian Bunn on real-time acoustic stream processing using DSP, parallel programming, and machine learning.

TECHNICAL SKILLS

Languages: Python, C++; **ML/Scientific Computing:** PyTorch, TensorFlow, NumPy, SciPy, scikit-learn, PyTorch Geometric; **Tools:** Git, Linux

AWARDS & HONORS

ETH Medal for Outstanding Master's Thesis — top 2.5% of ETH Master's graduates	2024
Best Performance in Core Basic Science Courses , IIT Gandhinagar — single recipient in graduating class	2020
KVPY Fellowship — nationally competitive research fellowship	2016
National Talent Search Examination (NTSE) Scholarship — one of ~1,000 students selected nationally	2014