Yeshwanth Cherapanamjeri

Ph.D Student in Computer Science

CONTACT INFORMATION

UC Berkeley
7th Floor, Sutardja Dai Hall

https://yeshwanth94.github.io
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INTERESTS

Algorithms, Statistical Learning Theory, Optimization

EDUCATION

UC Berkeley (August 2017 - Present)
Ph.D Student in Computer Science
Advisor: Prof. Peter Bartlett
CGPA: 4.0+

Indian Institute of Technology Bombay (July 2011 - May 2015)
B. Tech with Honors in Computer Science and Engineering
Minor in Applied Statistics and Informatics
CGPA: 9.31 (*Ranked among the top 10% of the department*)

PAST EMPLOYMENT

Microsoft Research India (June 2015 - July 2017)
Research Fellow Advisors: Dr. Prateek Jain and Dr. Praneeth Netrapalli

TU Braunschweig (May 2013 - July 2013)
Research Intern Advisor: Prof. Marcus Magnor

PUBLICATIONS

Optimal Mean Estimation without a Covariance
Y. Cherapanamjeri, N. Tripuraneni, P. L. Bartlett, M. I. Jordan
Manuscript in preparation

Algorithms for Heavy-Tailed Statistics: Regression, Covariance Estimation, and Beyond
Y. Cherapanamjeri, S. B. Hopkins, T. Kathuria, P. Raghavendra, N. Tripuraneni
Fifty Second Symposium on Theory of Computing (STOC 2020)
ArXiv Version: https://arxiv.org/abs/1912.11071

Fast Mean Estimation with Sub-Gaussian Rates
Y. Cherapanamjeri, N. Flammarion, P. L. Bartlett
Thirty Second Conference on Learning Theory (COLT 2019)
ArXiv Version: https://arxiv.org/abs/1902.01998

Testing Markov Chains without Hitting
Y. Cherapanamjeri, P. L. Bartlett
Thirty Second Conference on Learning Theory (COLT 2019)
ArXiv Version: https://arxiv.org/abs/1902.01999

Thresholding based Efficient Outlier Robust PCA
Y. Cherapanamjeri, P. Jain, P. Netrapalli
Thirtieth Conference on Learning Theory (COLT 2017)
ArXiv Version: https://arxiv.org/abs/1702.05571

Nearly Optimal Robust Matrix Completion
Y. Cherapanamjeri, K. Gupta, P. Jain
Thirty-Fourth International Conference on Machine Learning (ICML 2017)
ArXiv Version: https://arxiv.org/abs/1606.07315

TEACHING

CS 170: Efficient Algorithms and Intractable Problems, UC Berkeley Spring 2019
Instructors: Prof. Prasad Raghavendra and Prof. Luca Trevisan
Graduate Student Instructor

CS 70: Discrete Mathematics and Probability Theory, UC Berkeley Fall 2018
Instructors: Prof. Alistair Sinclair and Prof. Yun Song

Graduate Student Instructor
Outstanding GSI Award

MA 214: Introduction to Numerical Analysis, IIT Bombay Summer 2014
Instructor: Prof. Sivaji Ganesh
Undergraduate Student Instructor

Professional Service

Reviewer: ICML 2019, COLT 2019, SODA 2019

External Reviewer: AAAI 2017, KDD 2017, ISIT 2018, ITSP

Selected Coursework

At UC Berkeley: STAT 205A and B (Probability Theory A and B), STAT 210A and B (Theoretical Statistics A and B), MATH 202B (Introduction to Analyis and Topology B), CS 270 (Combinatorial Algorithms and Data Structures), CS 294 (Special Topics in Computer Science - Sum of Squares), CS 280 (Computer Vision), CS 267 (Applications of Parallel Computers)

At IIT Bombay: CS 709 (Convex Optimization), CS 435 (Linear Optimization), EE 636 (Matrix Computations), CS 729 (Statistical Machine Learning), CS 726 (Advanced Machine Learning)