Yeshwanth Cherapanamjeri

Ph.D Candidate in Computer Science

CONTACT INFORMATION

UC Berkeley
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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

Amazon Inc (June 2020 - August 2020)
Applied Scientist Intern Advisors: Dr. Choon Hui Teo and Dr. Vishy Vishwanathan

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

On Adaptive Distance Estimation
Y. Cherapanamjeri, J. Nelson
Thirty Fourth Conference on Neural Information Processing Systems (NeurIPS 2020)
Spotlight Presentation

Optimal Robust Linear Regression in Nearly Linear Time
Y. Cherapanamjeri, E. Aras, N. Tripuraneni, M. I. Jordan, N. Flammarion, P. L. Bartlett
In Submission
ArXiv Version: https://arxiv.org/abs/2007.08137

List Decodable Mean Estimation in Nearly Linear Time
Y. Cherapanamjeri, S. Mohanty, M. Yau
Sixty First Symposium on Foundations of Computer Science (FOCS 2020)
ArXiv Version: https://arxiv.org/abs/2005.09796

Optimal Mean Estimation without a Covariance
Y. Cherapanamjeri, N. Tripuraneni, P. L. Bartlett, M. I. Jordan
In Submission

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

EECS 127/227A: Optimization Models in Engineering, UC Berkeley — Spring 2020
Instructor: Prof. Gireeja Ranade
Graduate Student Instructor

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)