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Research Specialization

Machine Learning; Deep Learning; Large-scale/Streaming optimization methods.

Representative Papers

(*) represents alphabetical ordering of authors (as in Math/TCS papers).

1. (*) Rong Ge, Sham M. Kakade, Rahul Kidambi and Praneeth Netrapalli, “[The Step Decay Schedule: A Near-Optimal Geometrically Decaying Learning Rate Procedure](#)”, In Submission.
2. Rahul Kidambi, Praneeth Netrapalli, Prateek Jain and Sham M. Kakade, “[On the Insufficiency of existing momentum schemes for Stochastic Optimization](#)”, published in the International Conference on Learning Representations (ICLR), 2018. [Oral Presentation \(23/1002 submissions \$\approx\$ 2% Acceptance Rate\)](#).
3. (*) Prateek Jain, Sham M. Kakade, Rahul Kidambi, Praneeth Netrapalli and Aaron Sidford, “[Accelerating Stochastic Gradient Descent for Least Squares Regression](#)”. Conference on Learning Theory (COLT), 2018.
4. (*) Prateek Jain, Sham M. Kakade, Rahul Kidambi, Praneeth Netrapalli and Aaron Sidford, “[Parallelizing Stochastic Gradient Descent for Least Squares Regression: mini-batching, averaging, and model misspecification](#)”, Journal of Machine Learning Research (JMLR), 2018.

Education

Doctor of Philosophy - PhD, ECE, University of Washington, Seattle – 2019.

Adviser: [Professor Sham M. Kakade](#) (Associate Professor of Computer Science and Statistics).

Master of Science - M.S., ECE, University of California, Santa Barbara – 2012.

Bachelor of Technology - B.Tech, ECE, National Institute of Technology, Tiruchirappalli – 2010.

Experience

– Research Intern, Microsoft Research India, Summer 2017.

Mentor: [Dr. Praneeth Netrapalli](#), [Dr. Prateek Jain](#).

– Research Assistant, Microsoft Research India, March 2013-August 2014.

Mentor: [Dr. Sundararajan Sellamanickam](#).

References

Available upon request.