

# Rahul Kidambi

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## Goal

I aim to advance the automation of the science behind reasoning, learning and well-founded decision making.

## Research Specialization

Machine Learning; Deep Learning; Artificial Intelligence; Large-scale/Streaming Learning methods.

## Representative Papers

(\*) represents alphabetical ordering of authors (common practice in Theoretical Computer Science).

1. 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).**
2. (\*) 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.
3. (\*) 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](#)”<sup>1</sup>, To appear, Journal of Machine Learning Research (JMLR), 2018.

## Education

**Doctor of Philosophy**, EE, University of Washington, Seattle – 2014-present.  
*Adviser:* [Professor Sham M. Kakade](#) (Associate Professor of Computer Science and Statistics).

**Master of Science**, ECE, University of California, Santa Barbara.  
GPA: 3.93/4.00; Specialization: Signal Processing, Pattern Recognition, Computer Vision.

**Bachelor of Technology**, ECE, National Institute of Technology, Tiruchirappalli.  
GPA: 9.4/10 (Ranked 3<sup>rd</sup> in the Department); Best outgoing student of the department.

## Experience

– Summer Research Intern, Microsoft Research India.

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

Description: Worked on streaming learning methods for Deep Learning and Convex Optimization.

– Research Assistant, Microsoft Research India.

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

Description: Worked on problems at the intersection of Graphical Models, Structured Prediction, Semi-Supervised Learning and Active Learning.

## References

Available upon request.

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<sup>1</sup>Previously titled “Parallelizing stochastic approximation through mini-batching and tail-averaging”