

## Conference on Learning Theory 2017: Preface

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These proceedings contain the 73 papers accepted to and presented at the 30th Conference on Learning Theory (COLT), held in Amsterdam, Netherlands on July 7-10, 2017. These papers were selected by the program committee with additional help from external expert reviewers from 228 submissions. Of the 73 papers, 18 were given a 20-minute presentation, the remaining 55 a 10-minute presentation. Each accepted paper was also given the opportunity to present a poster at the conference.

These proceedings also contain the two open problems selected from among five submissions. Selection of the open problems was handled by the Open Problem Chair, Elad Hazan, based on reviews of the submissions by two additional external reviewers.

In addition to the papers and open problems published in these proceedings, the conference program also included two invited talks, one by Scott Aaronson titled “PAC Learning and Reconstruction of Quantum States”, and one by Andrea Montanari titled “Computational Barriers in Statistical Learning”.

The paper “A Hitting Time Analysis of Stochastic Gradient Langevin Dynamics” by Yuchen Zhang, Percy Liang and Moses Charikar received the best paper award. The best student paper award was given to the paper “Online Learning Without Prior Information” by Ashok Cutkosky and Kwabena Boahen.

The local arrangements chairs were Tim van Erven and Wouter Koolen and the publication chair was Kamalika Chaudhuri. We would like to express our gratitude to the entire program committee and to the external reviewers for their invaluable contributions to the success of conference.

Finally, we would like to thank our generous sponsors: Adobe, Intel, Microsoft, Google, IBM Research, The Voleon Group, Mobileye, Machine Learning Journal, City of Amsterdam, Mark Fulk Foundation and Textkernel. We would also like to acknowledge the organizational and logistical support provided by the University of Amsterdam and the Centrum Wiskunde and Informatica (CWI).

Satyen Kale and Ohad Shamir  
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