



THE UNIVERSITY OF
CHICAGO

Department of Statistics

DISSERTATION PROPOSAL

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Computational Tradeoff in Statistical Estimation and Inference

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ABSTRACT

In modern data analysis, statistical estimation and detection tasks need to be carried out with close attention to computational resources. Yet little is presently known about the fundamental tradeoffs between statistical and computational efficiency. In this talk, I will propose several future projects on developing minimax theory and algorithms for nonparametric estimation and detection problems under computational constraints, building upon the recent results about quantized estimation over Euclidean balls and Sobolev spaces.

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