



The University of Chicago
Department of Statistics

SECOND YEAR PHD PRESENTATION

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Theoretical Guarantees for Sparse Approximation

TUESDAY, May 15, 2012 at 4:30 PM
110 Eckhart Hall, 5734 S. University Avenue

ABSTRACT

Orthogonal Matching Pursuit (OMP) and Donoho's Basis Pursuit (BP) are algorithms designed to solve the sparse approximation problem over redundant dictionaries. In this talk, we discuss theoretical results that provide guarantees on the success of such algorithms under assumptions of quasi-incoherence of the underlying dictionaries. We conclude with a brief discussion of recoverability conditions and BP for rankings under partial information.

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