

**Tin Danh Nguyen, Graduate Student (EECS)**

**Wednesday, 04/17, 4PM - 5PM in room 1-242, refreshments provided**

**Title:** PAC-Bayes Tree: Weighted Subtrees with Guarantees

**Abstract:** This talk presents a weighted-majority classification approach over subtrees of a fixed tree, which provably achieves excess-risk of the same order as the best tree-pruning. Furthermore, the computational efficiency of pruning is maintained at both training and testing time despite having to aggregate over an exponential number of subtrees. We believe this is the first subtree aggregation approach with such guarantees.

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