

MCS 548 – Mathematical Theory of Artificial Intelligence  
Fall 2016  
Choosing a Project

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## Project idea

By 1pm on 11/7/16, email me a proposed project idea and the names of the collaborators working together. Additionally, write a paragraph or so describing what problem you will be attempting. Your project is subject to my approval. I expect you will spend at least  $37.5 \frac{n+1}{2n+1}$  hours per person on this project, where  $n$  is the number of people working together *who are registered for the class*.<sup>1</sup> I only need to receive one email per group.

The project must be an *attempt* to solve any open problem in learning theory. Places to look for problems include recent proceedings from conferences. Specifically, open problems or directions from any paper from COLT or ALT; the learning papers in STOC, FOCS, ITCS or SODA; or the theory-oriented papers from ICML, NIPS, or AISTATS should be suitable. If you need guidance picking a project, please email me.

Your project grade will be based on demonstrated effort and the quality of the final write-up.

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<sup>1</sup>Students auditing the class may also participate in doing the projects.