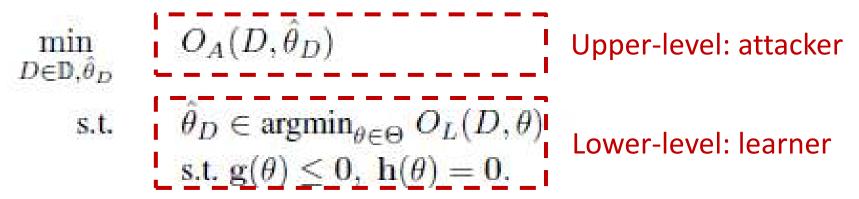
Using Machine Teaching to Identify Optimal Training-Set Attacks on Machine Learners Shike Mei and Xiaojin Zhu We play "white hat" hackers! Training Optimally Mislead Data Poison **Machine Learner** Specific Wrong То Model





Bilevel Optimal Framework



Solved by KKT conditions and implicit functions

E.g.,

Learner: learn the trend of #frozen days of Lake Mendota. Attacker: hide the lake warming trend with minimal modification on data.

