Out of sample results for \$1 invested with AdaBoost for CO1 1.8 1.6 1.4 1.2 1.0 0.8 2014 2016 2018 2020

2017

2019

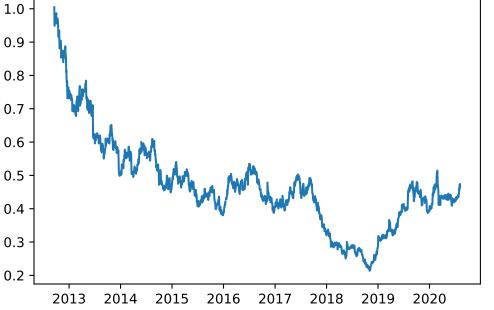
2013

2015

Out of sample results for \$1 invested with AdaBoost for SP1



Out of sample results for \$1 invested with AdaBoost for TY1



Out of sample results for \$1 invested with AdaBoost for HG1 1.0 0.8 0.6 0.4 0.2

2013

2014

2015

2016

2017

2018

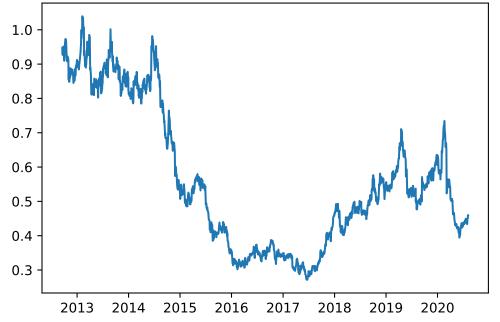
2019

2020

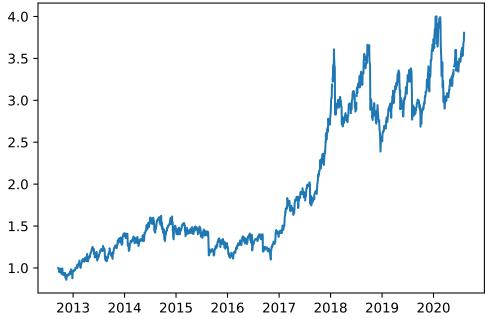
Out of sample results for \$1 invested with AdaBoost for NQ1 

Out of sample results for \$1 invested with AdaBoost for GC1 1.6 -1.4 1.2 1.0 8.0 0.6 0.4 -2013 2014 2015 2016 2017 2018 2019 2020

Out of sample results for \$1 invested with Random Forest for CO1



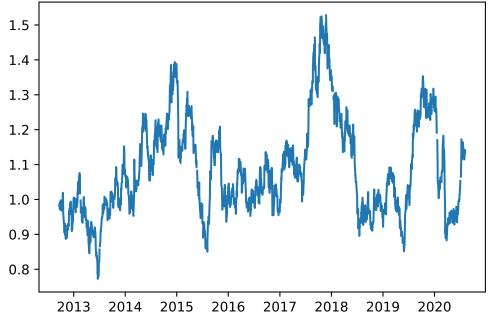
Out of sample results for \$1 invested with Random Forest for SP1



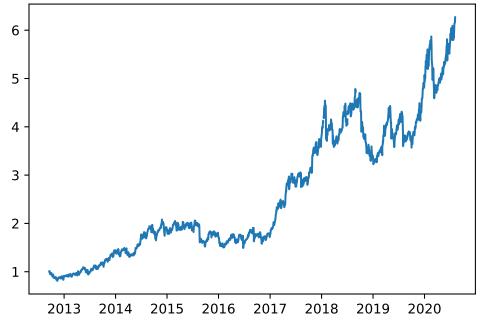
Out of sample results for \$1 invested with Random Forest for TY1



Out of sample results for \$1 invested with Random Forest for HG1



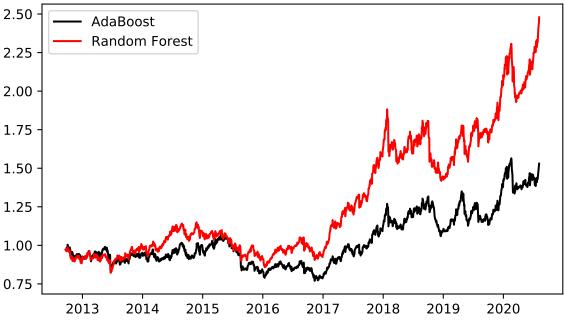
Out of sample results for \$1 invested with Random Forest for NQ1

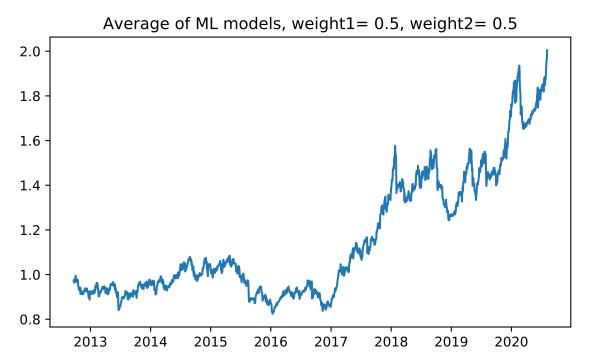


Out of sample results for \$1 invested with Random Forest for GC1



## AdaBoost and Random Forest out of sample





Portfolio: 50% in ATS optimization + 25% in AdaBoost + 25% in Random Forest



Buy and Hold portfolio of futures contract, rebalanced daily

