



FIGURE 15.3. Random forests compared to gradient boosting on the California housing data. The curves represent mean absolute error on the test data as a function of the number of trees in the models. Two random forests are shown, with $m = 2$ and $m = 6$. The two gradient boosted models use a shrinkage parameter $\nu = 0.05$ in (10.41), and have interaction depths of 4 and 6. The boosted models outperform random forests.