

HW: Priors for in-season prediction of Win Percentage

Recall that we add fake wins and losses (W', L') to stabilize our mid-season prediction $\frac{W+W'}{W+L+W'+L'}$ of end-of-season win percentage.

Take historical data from your favorite sport and find the (W', L') which maximize predictive performance.

Then visualize the functions

$$W \mapsto \frac{W+W'}{W+L+W'+L'}$$

$$\text{and } L \mapsto \frac{W+W'}{W+L+W'+L'}$$