



THE UNIVERSITY OF
CHICAGO

Department of Statistics

MASTER'S THESIS PRESENTATION

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Measuring the Effect of Rest and Tiredness in Soccer and Tennis
Outcomes

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Jones 304, 5747 S. Ellis Avenue

ABSTRACT

Many factors influence athletic performance in competitions. Most models predicting results focus on the strength of the team and the location of the competition, but other factors that players and teams can control could have an impact. In this presentation, we look at how rest and tiredness impact the performance of soccer teams and tennis players. We find no effect for the number of days since a previous match on soccer outcomes, but find that in best of 3 tournaments the length of the previous tennis match positively impacts the probability of winning the current match and in best of 5 matches, previous match length negatively impacts win probability.

We present the different models used to evaluate the effect of tiredness/rest and discuss how we designed experiments to evaluate the effect with the available data.