# Todo Items for Hockey Analysis

General Plan

# Predict Points Per Player

# Prepare Win-Probability Added

1. Correlation of Win-Probability Added Across Seasons.
2. Regression Tree to Visualize Q-function for Win Probability Added.
   1. Normalize Data
3. Try modeling Win-Prob = w0 + w1Goalimpact – w2PenalityImpact.

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| Item | Target Date | Actually Completed | Notes |
| Finish Auto-Correlations:   * Event\_count in Season t . * ~~Points in t vs. t+1.~~ * ~~GoalImpact in t vs. t+1~~ | Friday July 10. | Wednesday July 7. |  |
| Linear regression of Points at t +1 on other measures at t (goal impact, minutes played, pIM, …) | Wednesday July 14. | July 17 | Can set up as time series in R, try more sophisticated models. (e.g., autoregressive, moving average). |
| Correlation Across Seasons for Win Probability Added. |  |  |  |
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