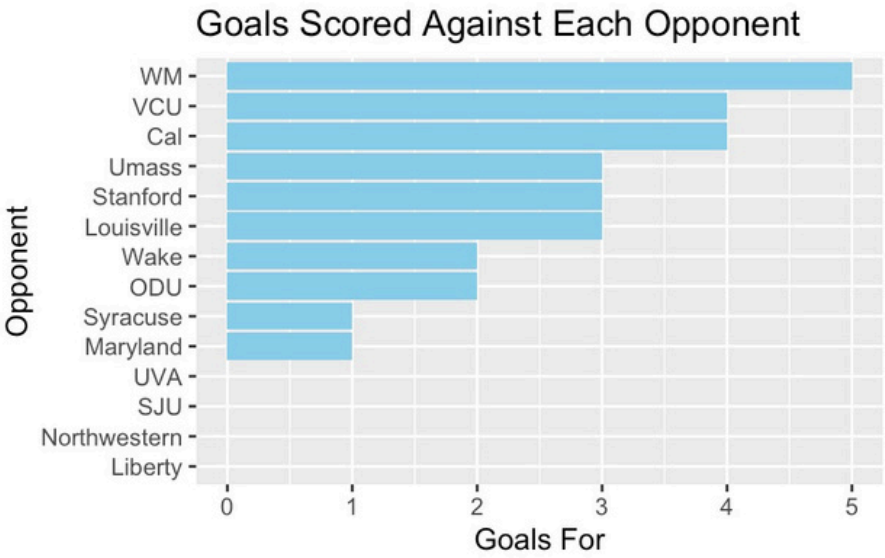
SEASON-TO-DATE TRENDS
10/22/2024

Duke FIELD HOCKEY

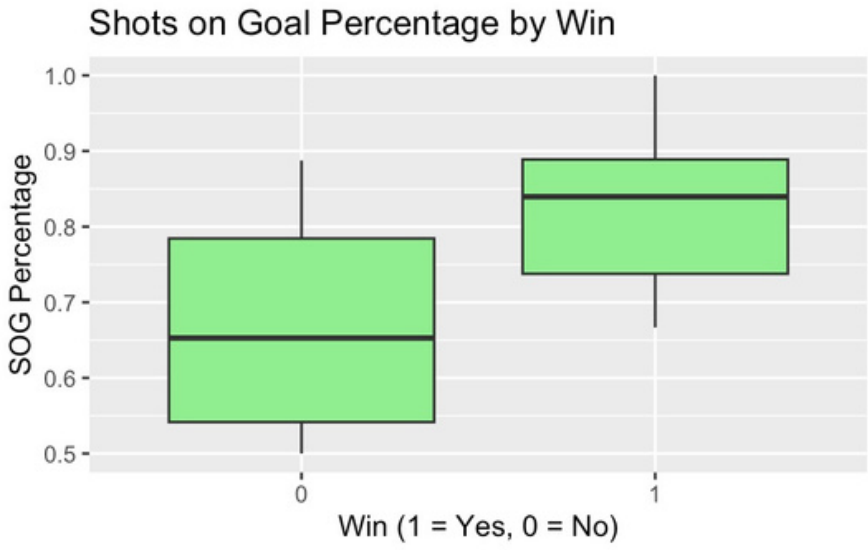
Goals Scored v. Opponents



Question: How do goals scored against each opponent vary, and what trends emerge in relation to game outcomes?

Analysis: The bar plot illustrates the goals scored against each opponent, highlighting variations in performance. Notably, games we lost showcase low goal counts, while certain opponents show significantly higher goal counts, indicating stronger offensive outputs in those matchups. This suggests that scoring more goals is crucial for achieving victories.

Shots on Goal Percentage by Win



Question: Is there a significant difference in the sog_percentage for wins vs. losses?

Analysis: The box plot shows that the mean shots on goal percentage for games won is higher and has less dispersion, indicated by a shorter interquartile range. This suggests that we tend to be more consistent and effective in our shooting when we win, highlighting the importance of a high SOG% in achieving victory.

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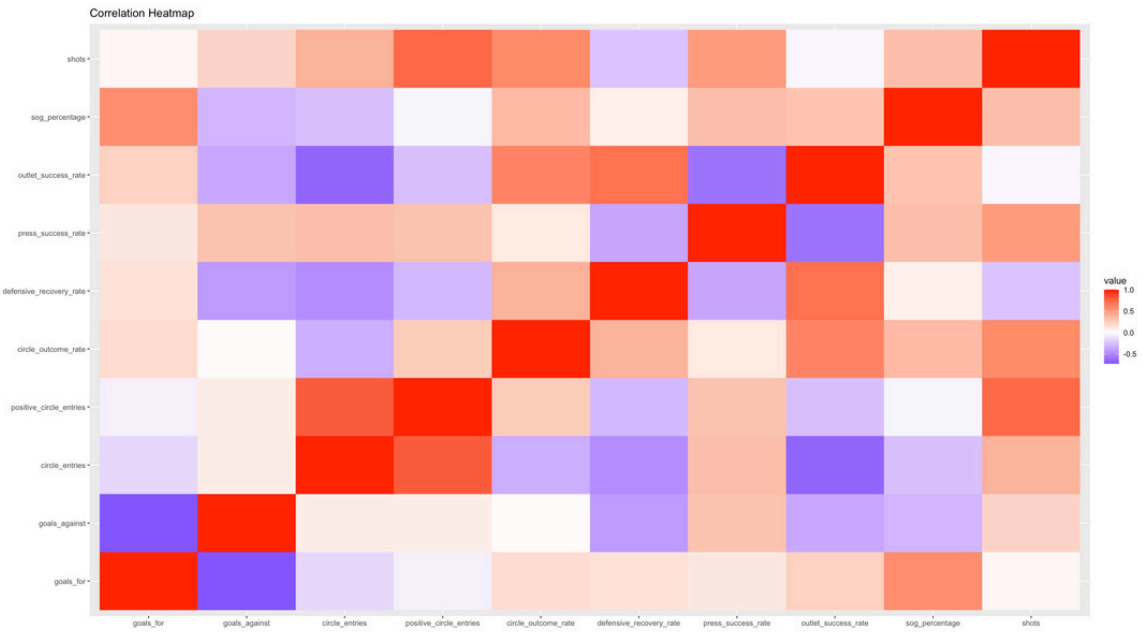
Win/Loss Trends

goals_for	**0.76777190**
goals_against	**-0.83429769**
circle_entries	0.01584822
positive_circle_entries	0.18619538
circle_outcome_rate	0.25503191
defensive_recovery_rate	**0.35360582**
sog_percentage	**0.50861913**
shots	0.19717008

Question: What factors (like circle entries, goals for, SOG%) are most strongly correlated with winning games?

Analysis: Ran a correlation analysis to compare the win column to various other metrics to determine which factors most contribute to winning outcomes with 1 being strongly positive, -1 being strongly negative, and 0 being no Impact.

Correlation Matrix



Explanation: The correlation matrix calculates and visualizes correlations between numeric variables to identify significant trends. For instance, you can look for high correlations between positive_circle_entries and shots, defensive_recovery_rate and outlet_success_ rate, and much more.

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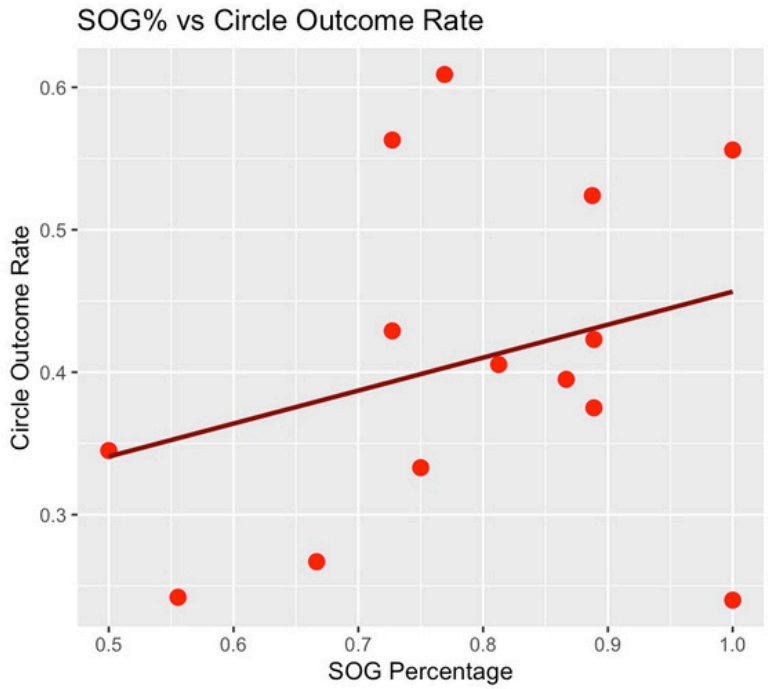
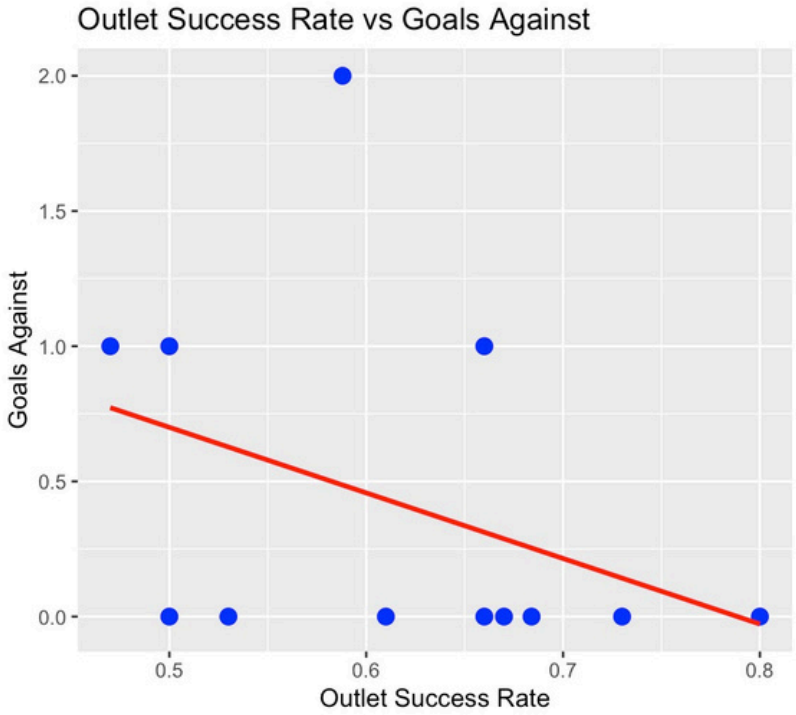
SOG Percentage v. Circle Outcome Rate



Question: In games where we have a higher percentage of shots on goal, do we also have better circle outcome rates?

Analysis: The upward trend indicates that in games where we have a higher SOG%, we tend to achieve better circle outcome rates. This suggests that improved shot efficiency correlates with increased scoring chances, emphasizing the importance of converting entries into shots for overall offensive success.

Outlet Success Rate v. Goals Against



Question: Is there a relationship between our outlet success and how many goals we concede?

Analysis: The steep downward trend indicates that higher outlet success strongly correlates with fewer goals conceded. Efficient transitions reduce defensive pressure, leading to fewer scoring opportunities for opponents. This highlights the importance of successful outlets in maintaining defensive strength.

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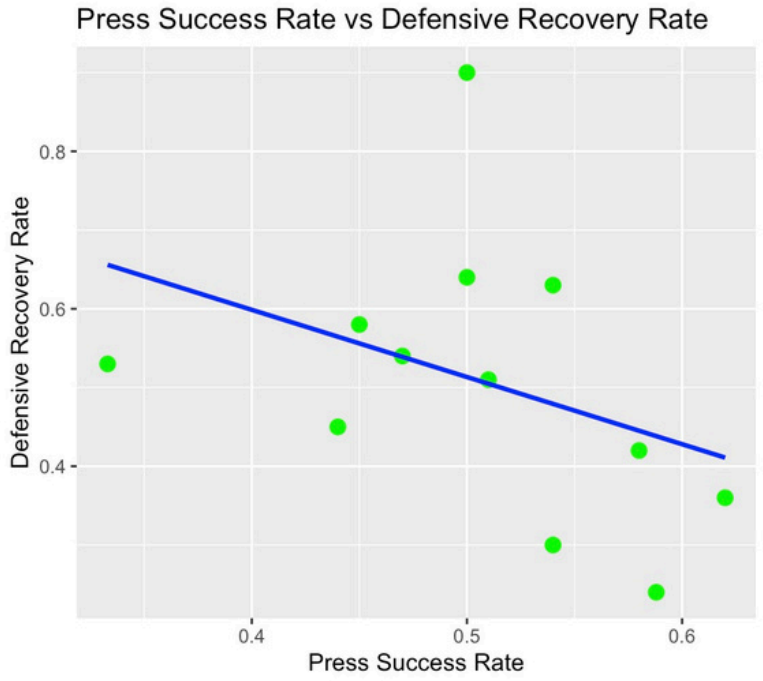
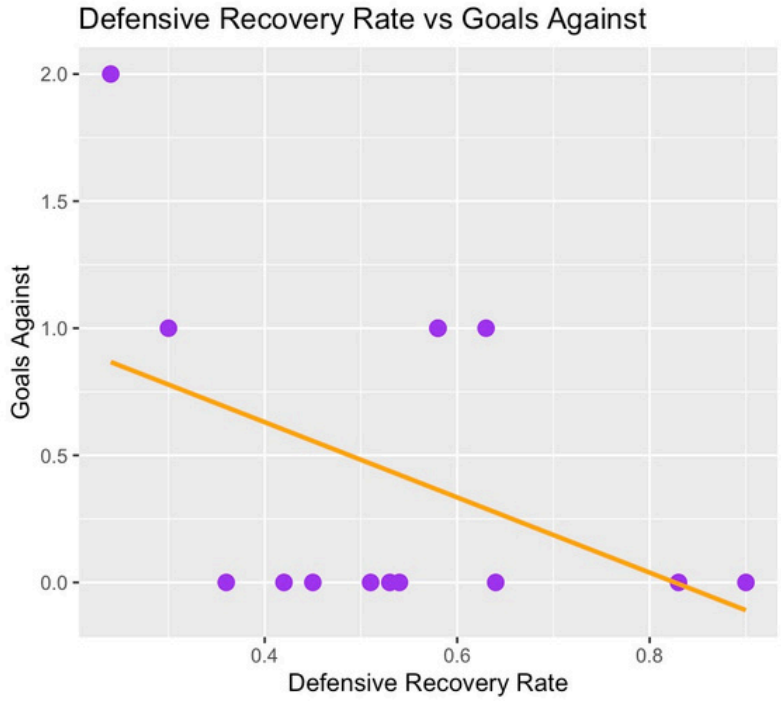
Press Success Rate v. Defensive Recovery Rate



Question: Does higher pressing success contribute to better defensive recovery rates?

Analysis: Aggressive pressing can leave gaps, making recovery harder and increasing vulnerability as fatigue sets in. Opponents may exploit these spaces, especially if they break the press. Balancing pressing with structured defense is key to improving recovery and stability.

Defensive Recover Rate v. Goals Against



Question: Does a higher defensive recovery rate lead to fewer goals conceded?

Analysis: The downward trend indicates that a higher defensive recovery rate correlates with fewer goals conceded. This suggests that improved defensive recoveries are linked to a more effective defense, highlighting the importance of recovery efforts in minimizing goals against.