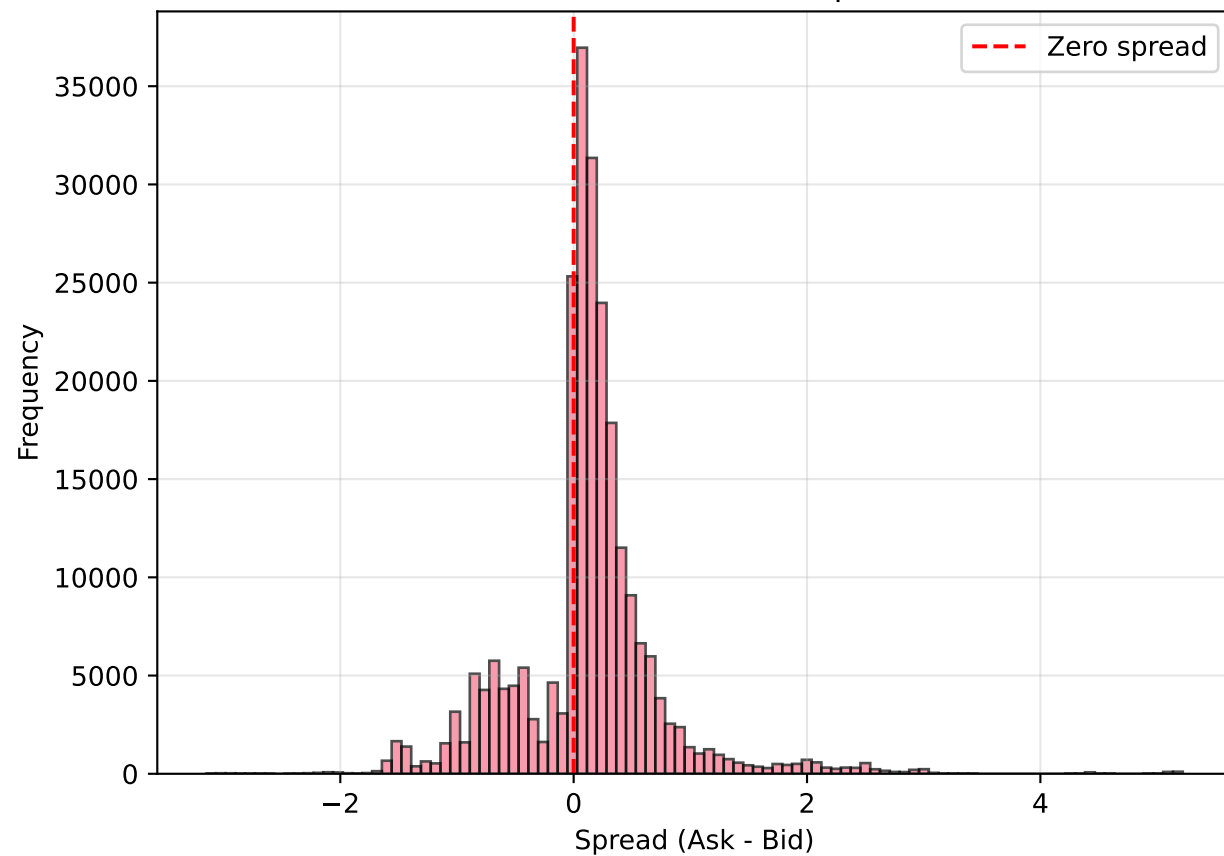
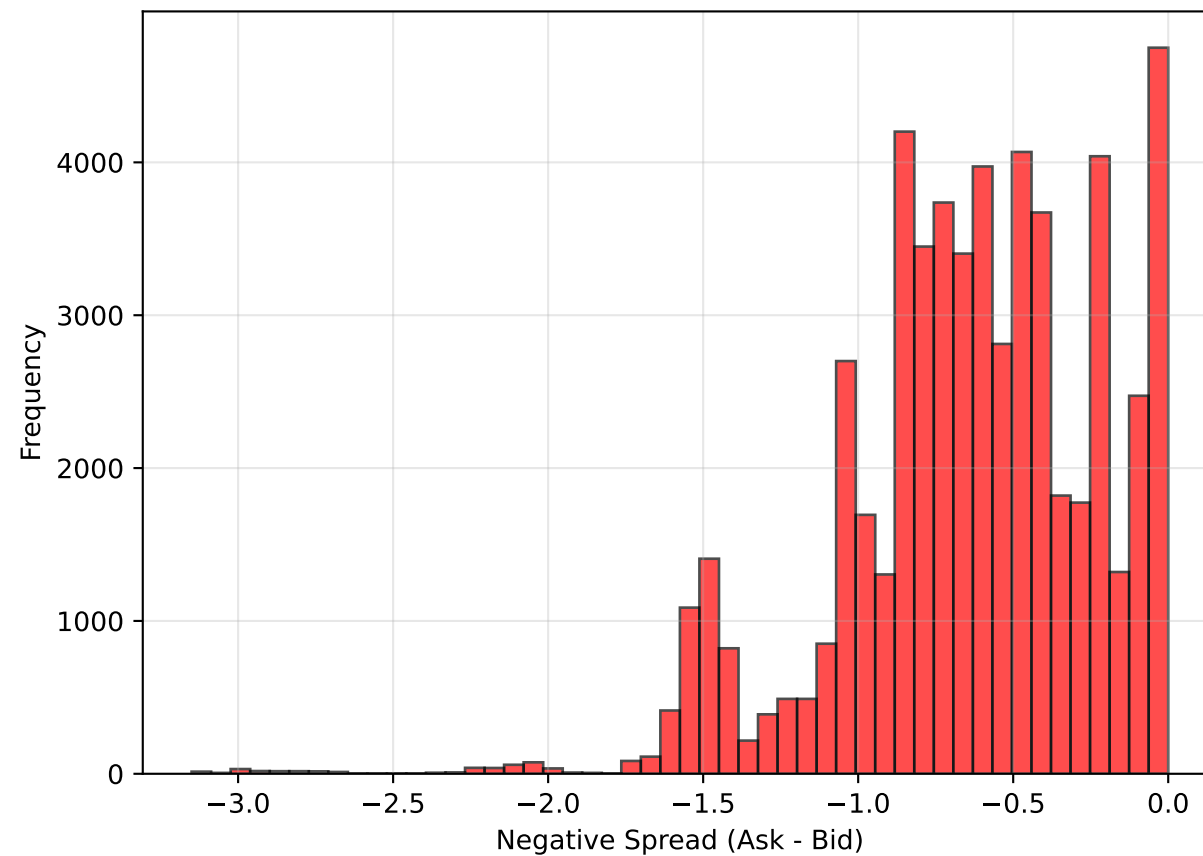
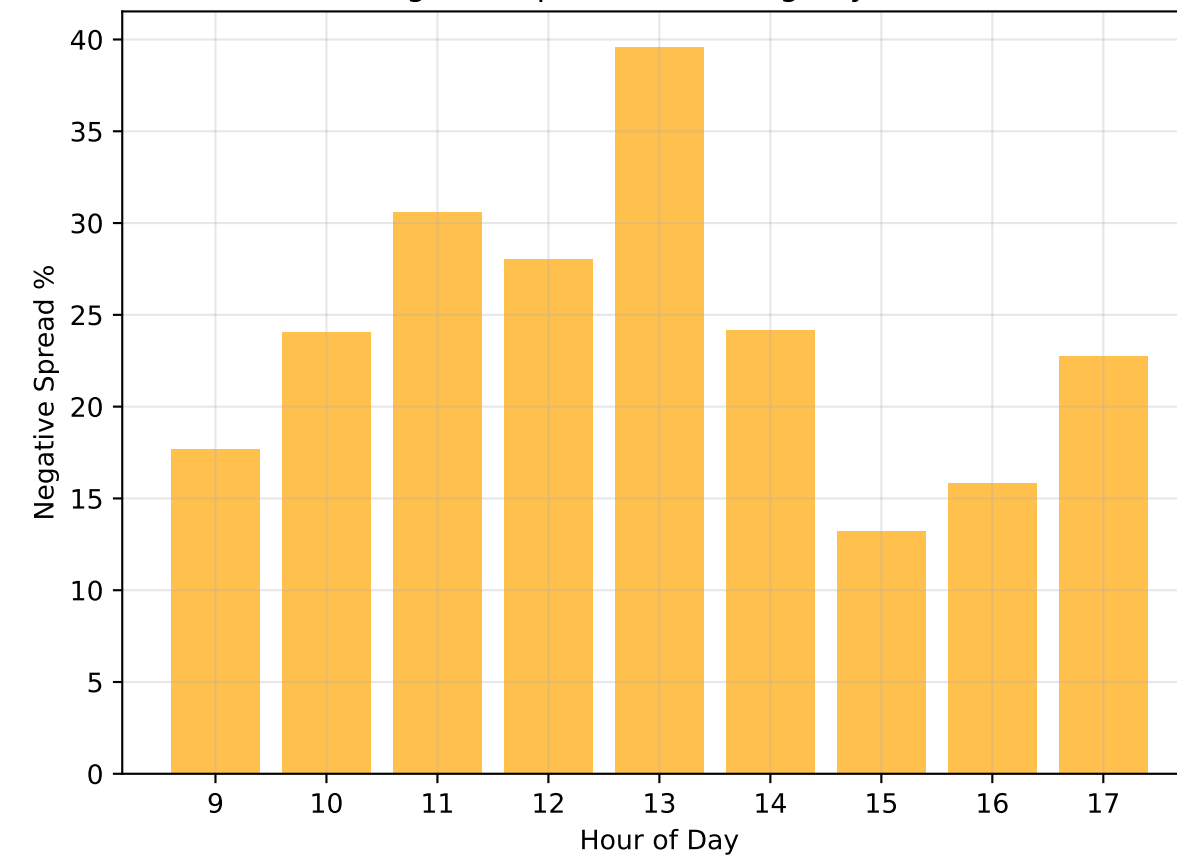


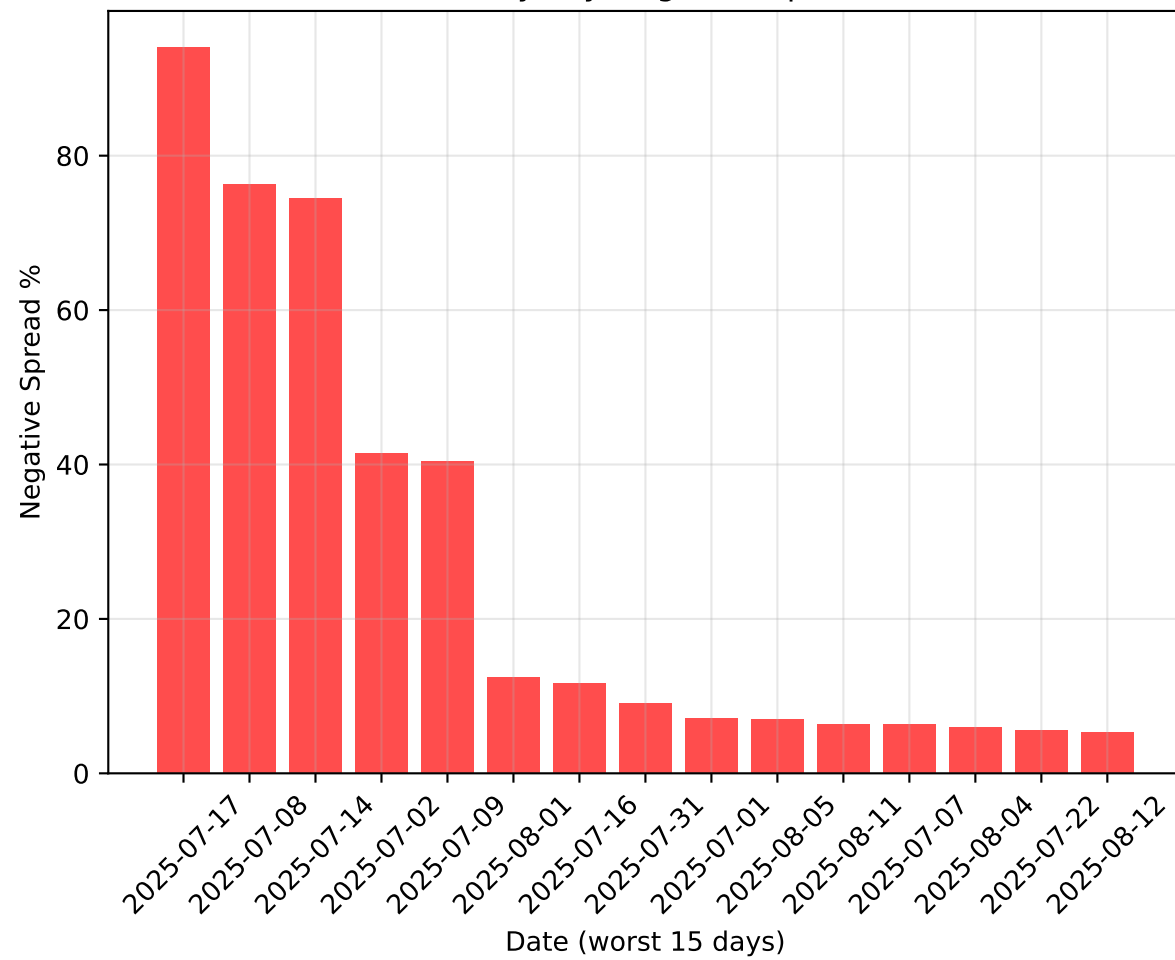
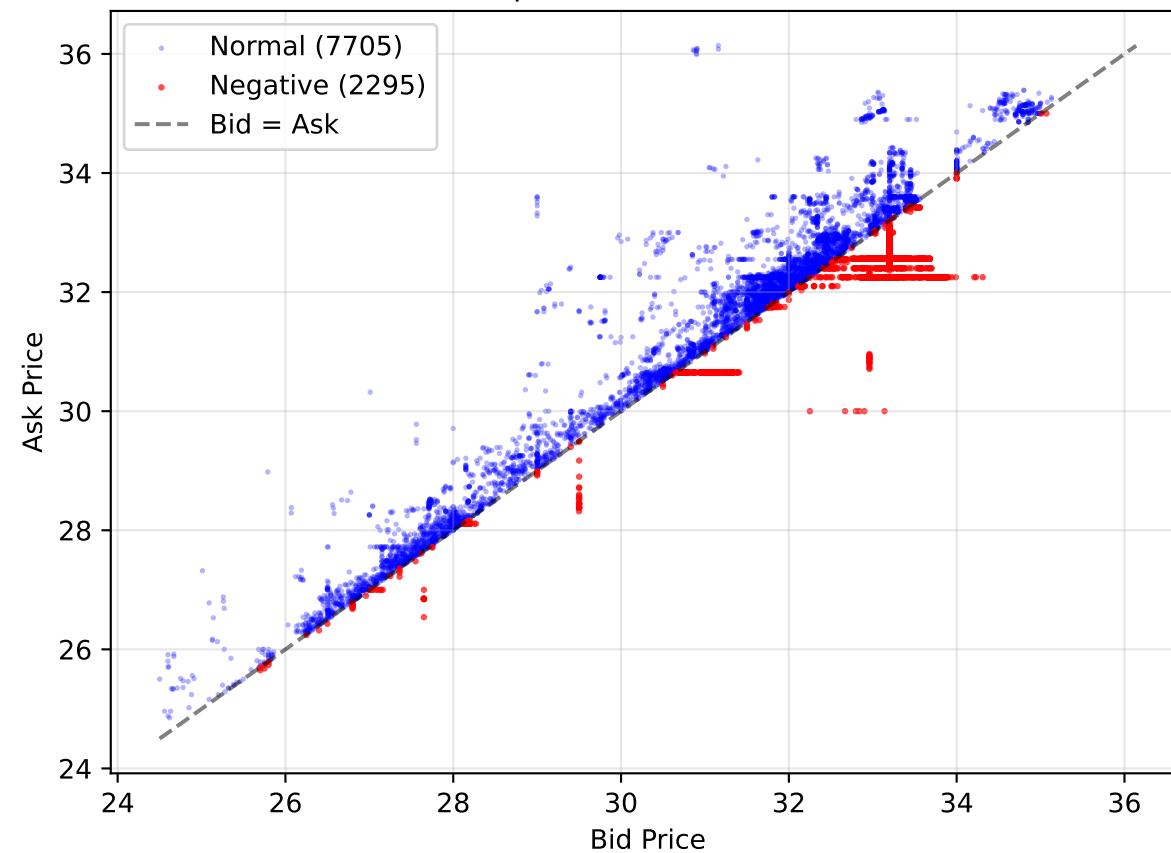
Distribution of Bid-Ask Spreads

Distribution of Negative Spreads
(57,969 records)

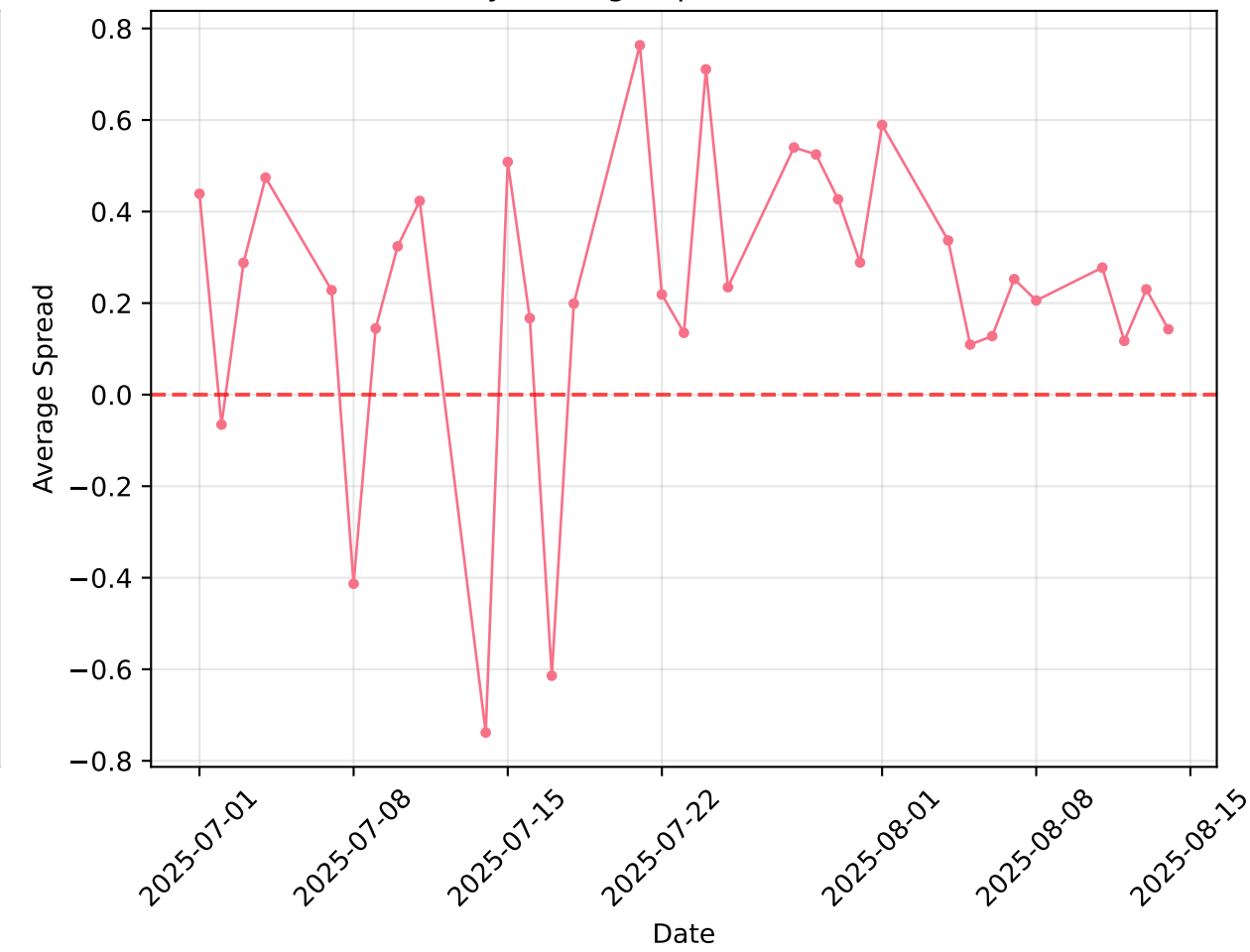
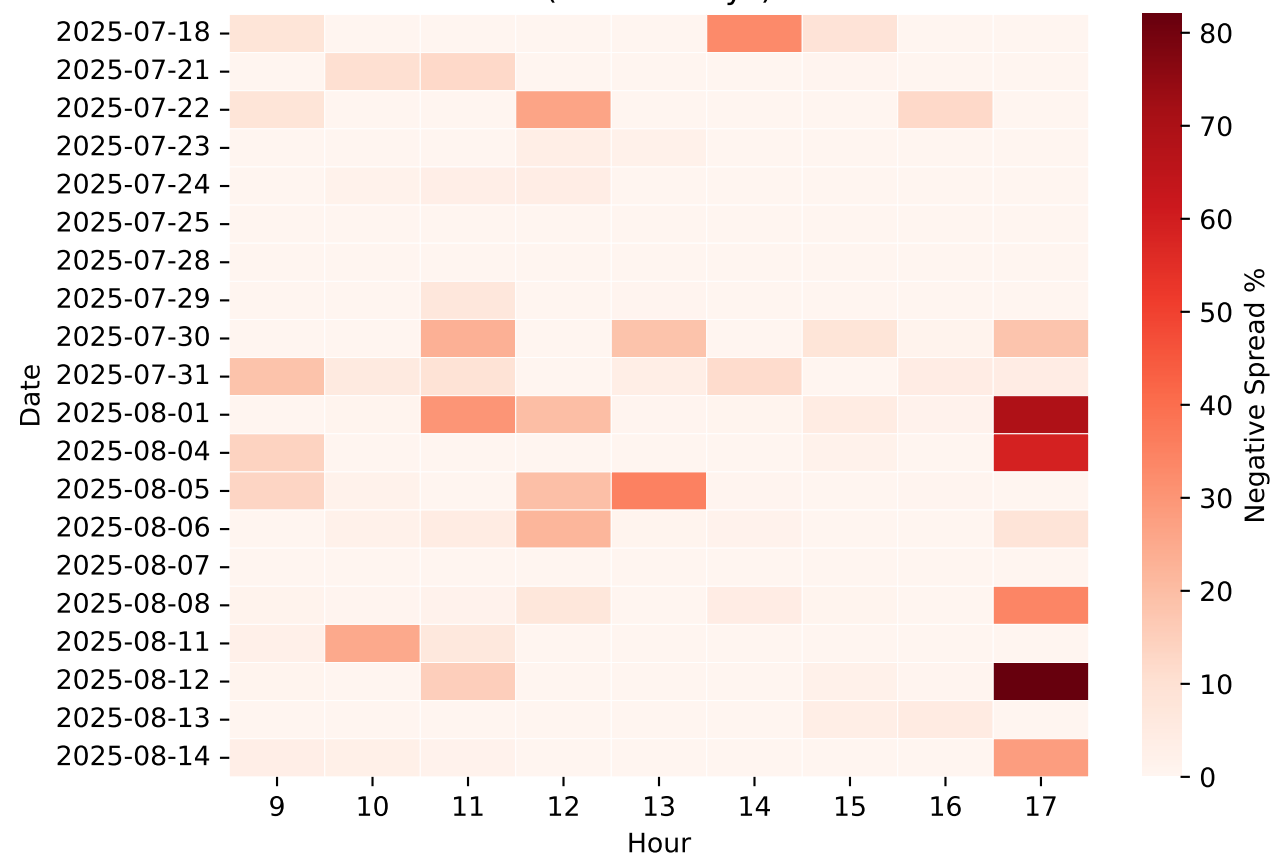
Negative Spread Percentage by Hour



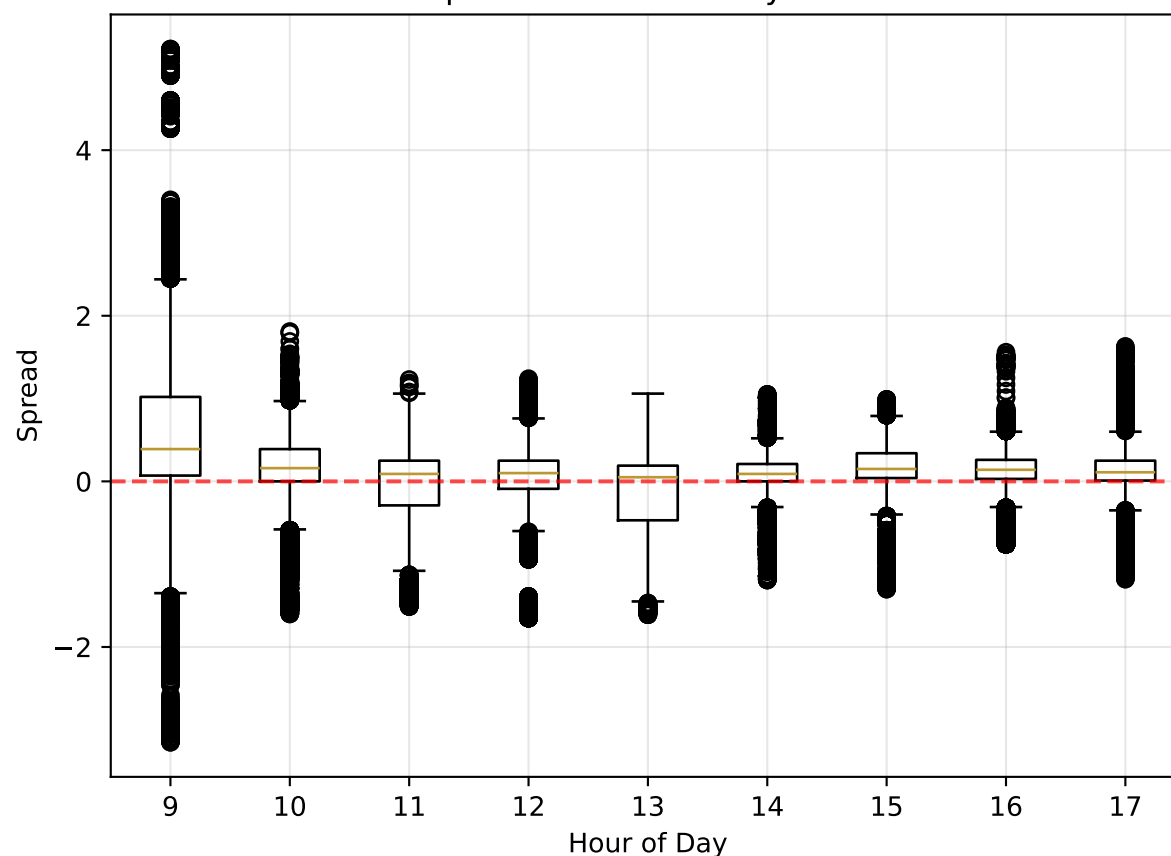
Worst Days by Negative Spread %

Bid vs Ask Prices
(Sample of 10,000 records)

Daily Average Spread Over Time

Negative Spread % Heatmap
(Last 20 days)

Spread Distribution by Hour



Cumulative Distribution of Spreads

