

Frame-by-Frame Correlation: Position in Herd vs. Alignment

Correlation Coefficient

1.00
0.75
0.50
0.25
0.00
-0.25
-0.50
-0.75
-1.00

Frames analyzed: 6294
Significant correlations ($p < 0.05$): 2875 frames (45.7%)
Negative correlations: 2578 frames (41.0%)
Positive correlations: 297 frames (4.7%)

● Significant ($p < 0.05$)
● Not significant
— Moving average (window=314)

Correlation Coefficient
(Distance from Centroid vs. Alignment)

1.00
0.75
0.50
0.25
0.00
-0.25
-0.50
-0.75
-1.00

Strong positive
correlation

Strong negative
correlation

Negative correlation suggests
central zebras are more aligned
with the herd than peripheral ones

Time (seconds)

0

50

100

150

200