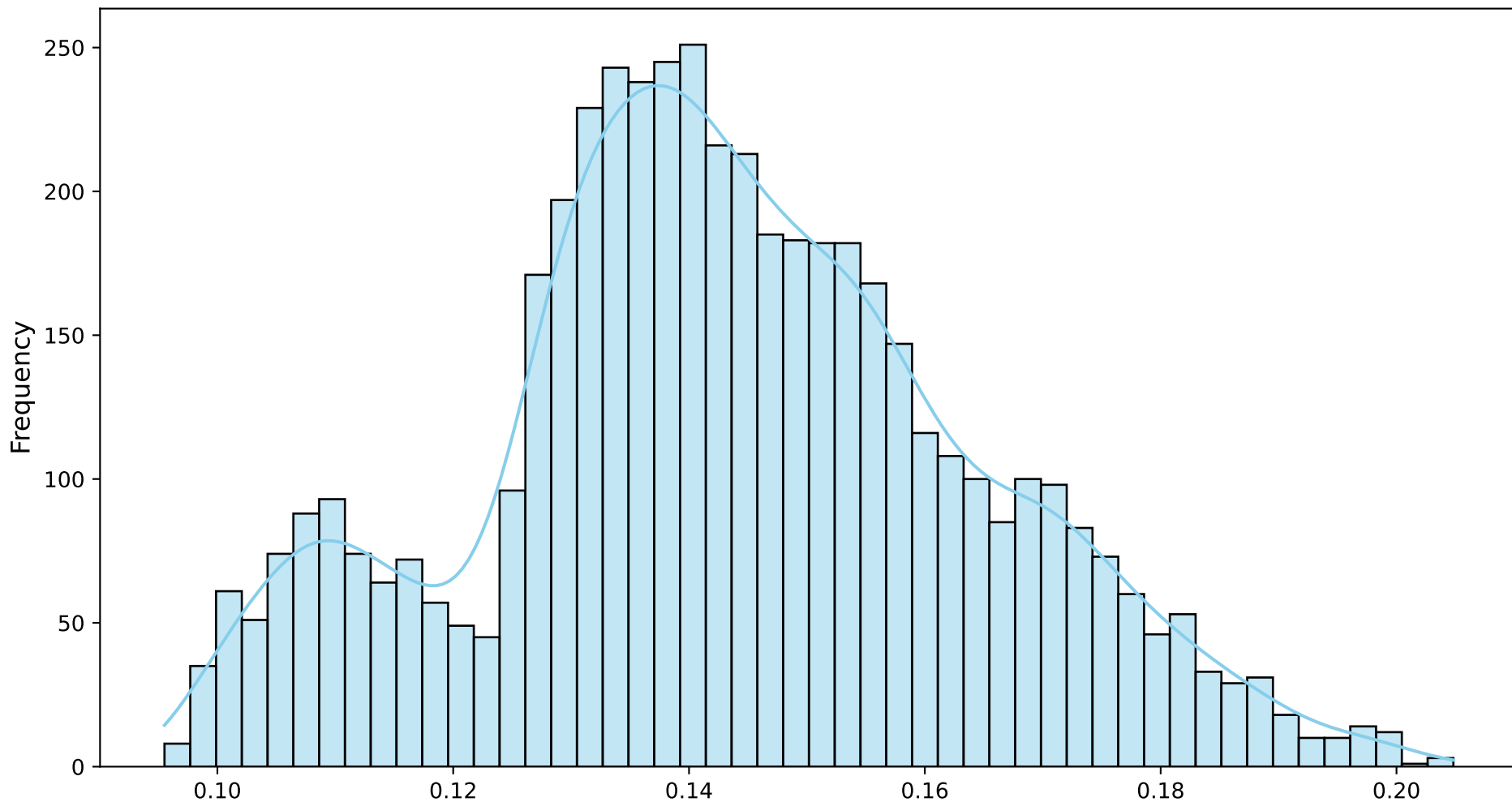


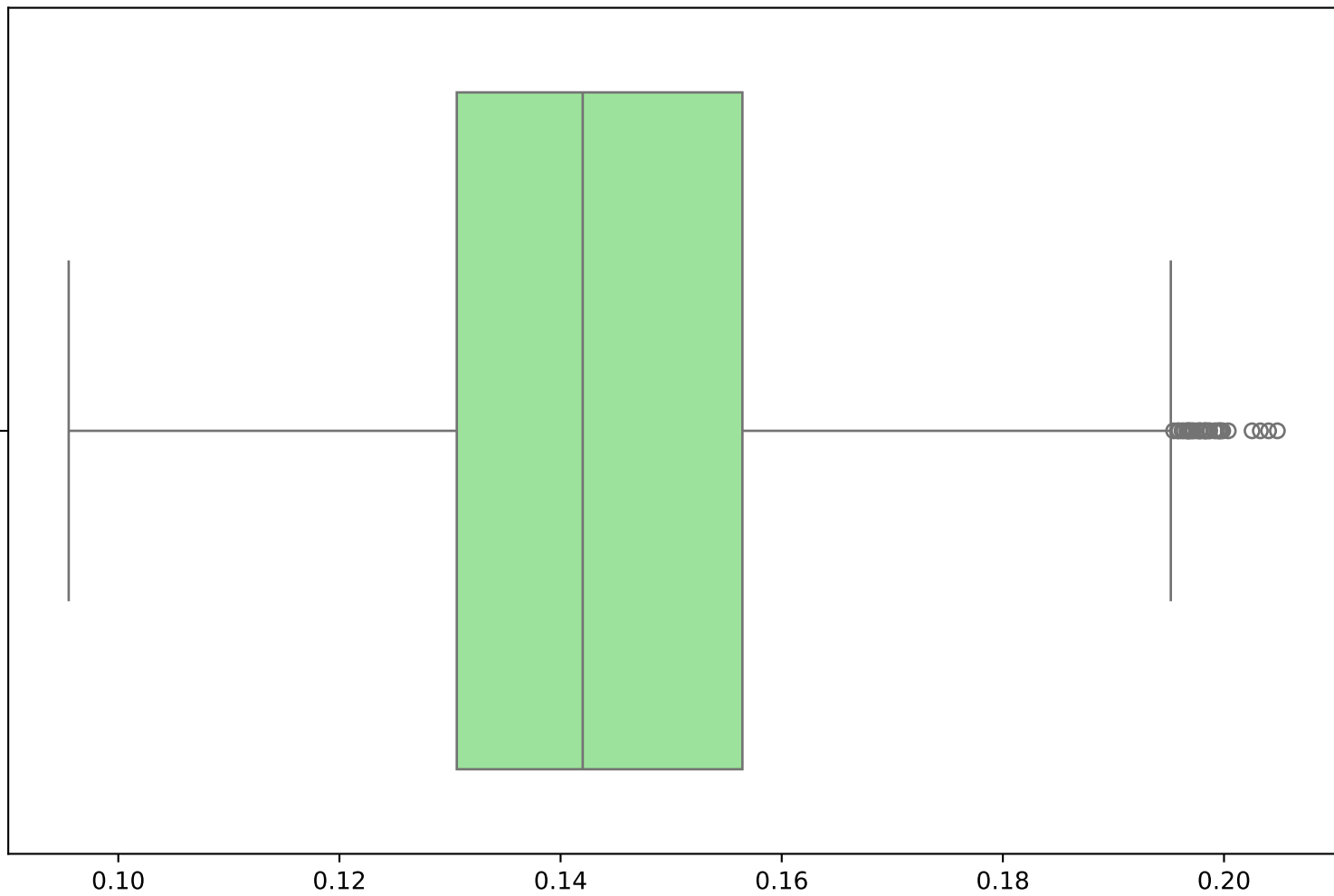
Distribution of Distances Across Permutations



Distance

Histogram showing how distances vary across all permutations.

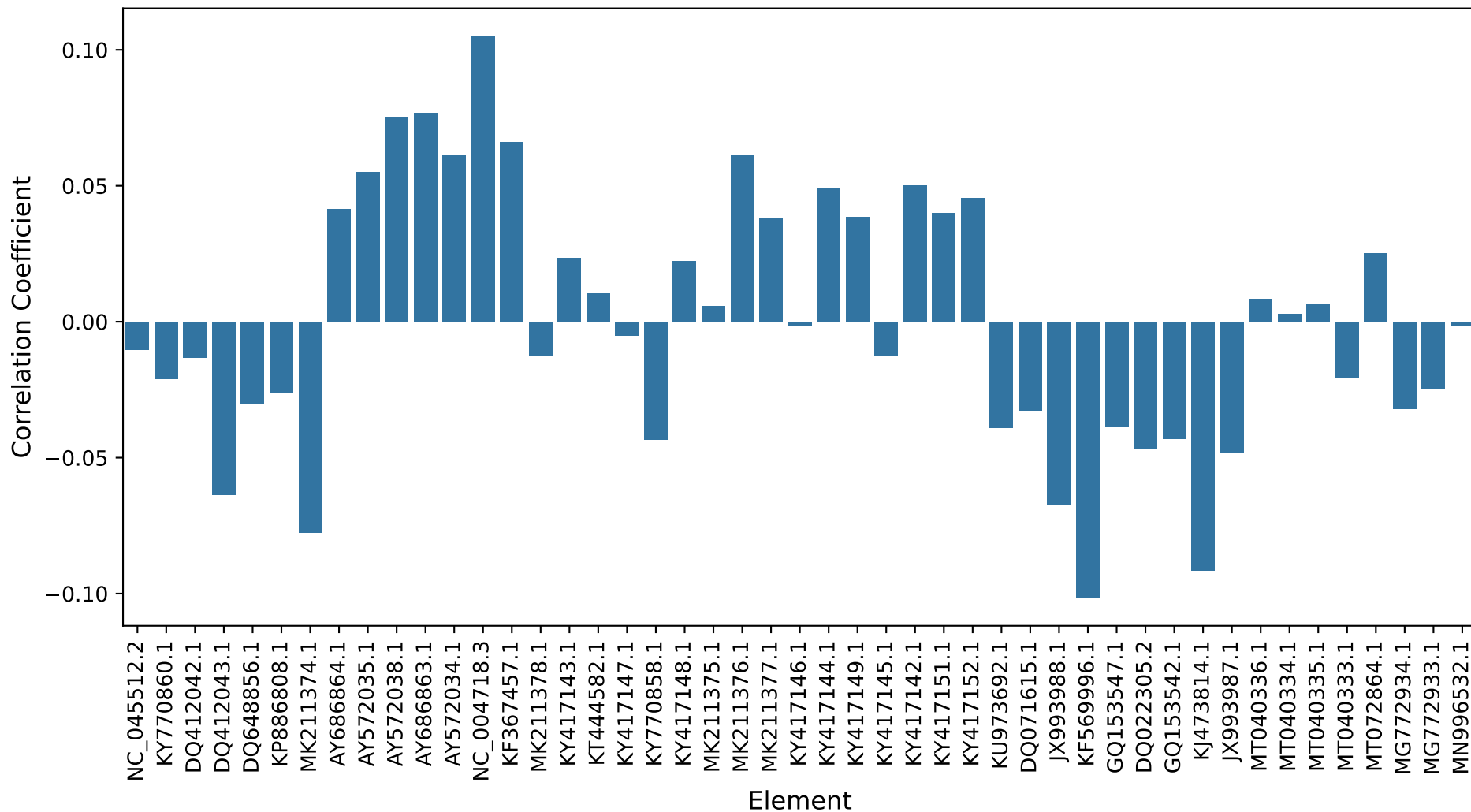
## Summary Statistics of Distances



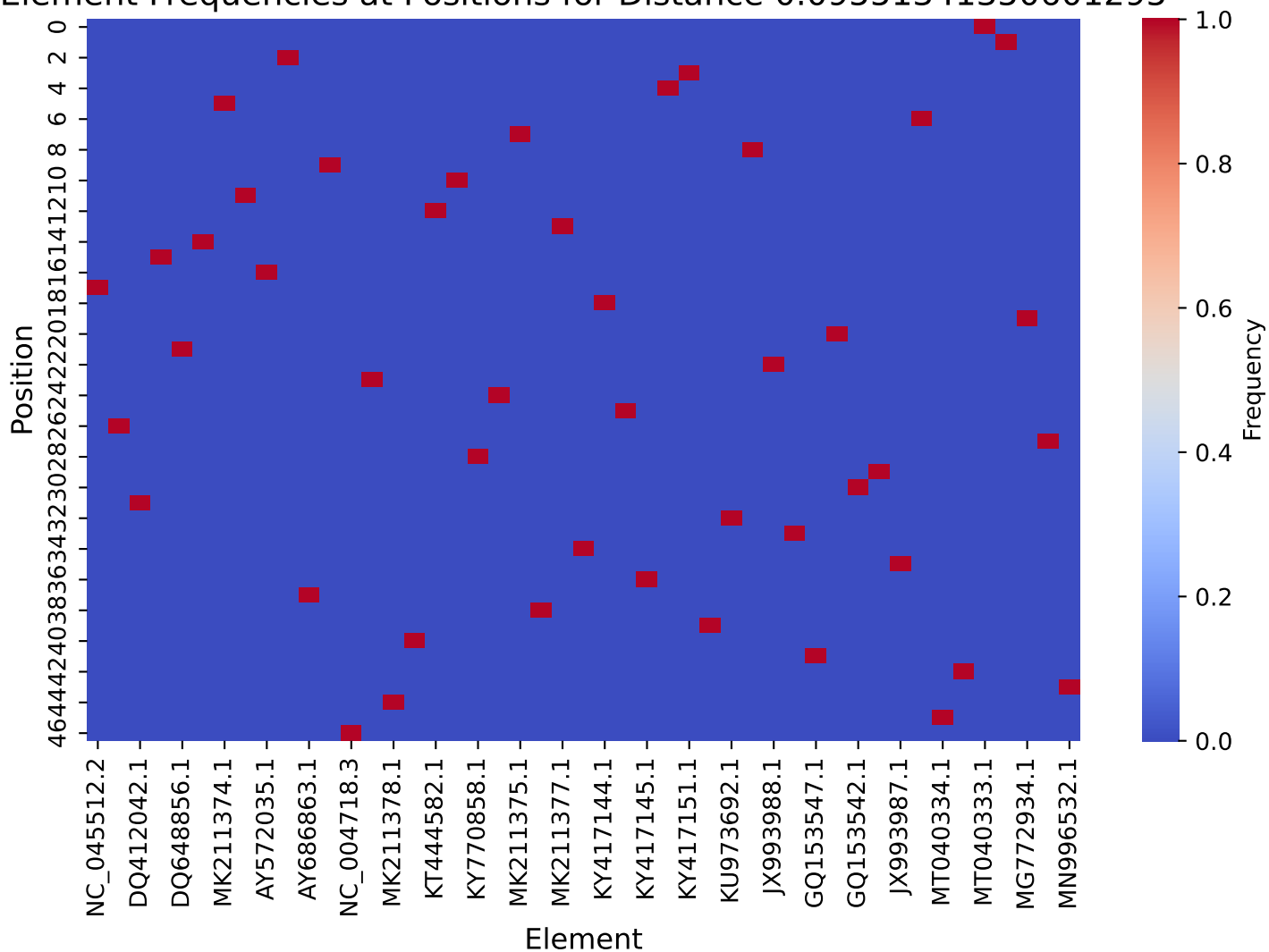
Distance

Boxplot illustrating the central tendency and dispersion of distances.

Correlation between Element Positions and Distance



### Element Frequencies at Positions for Distance 0.09551341350601295





## Statistical Summary of Distances

	Value
Mean	0.143215
Median	0.142002
Standard Deviation	0.020802
Variance	0.000433
Minimum	0.095513
Maximum	0.204826

Shapiro-Wilk Normality Test Results:		
Test	Statistic	p-value
Shapiro-Wilk	0.991556	1.075889e-16

## Permutations with Minimal Distance: 0.09551341350601295

MT040333.1, MT072864.1, AY572038.1, KY417151.1, KY417142.1, MK211374.1,  
MT040336.1, MK211375.1, DQ071615.1, AY572034.1, KY417147.1, AY686864.1,  
KT444582.1, MK211377.1, KP886808.1, DQ412043.1, AY572035.1, NC\_045512.2,  
KY417144.1, MG772934.1, DQ022305.2, DQ648856.1, JX993988.1, KF367457.1,  
KY417148.1, KY417149.1, KY770860.1, MG772933.1, KY770858.1, KJ473814.1,  
GQ153542.1, DQ412042.1, KU973692.1, KF569996.1, KY417146.1, JX993987.1,  
KY417145.1, AY686863.1, MK211376.1, KY417152.1, KY417143.1, GQ153547.1,  
MT040335.1, MN996532.1, MK211378.1, MT040334.1, NC\_004718.3

## Permutations with Maximal Distance: 0.20482577860006168

KF569996.1, DQ022305.2, DQ071615.1, KY417145.1, KY417147.1, MT040333.1,  
GQ153547.1, MN996532.1, MK211374.1, KY417149.1, MK211376.1, KJ473814.1,  
MG772933.1, DQ648856.1, JX993987.1, GQ153542.1, DQ412042.1, MT040335.1,  
KY417152.1, MG772934.1, MK211378.1, KF367457.1, MT040336.1, AY686863.1,  
KY417148.1, KT444582.1, KY417144.1, KY417142.1, AY686864.1, AY572034.1,  
KY417151.1, MT040334.1, MK211375.1, AY572035.1, NC\_004718.3, AY572038.1,  
KY417146.1, KY417143.1, KU973692.1, MK211377.1, KY770858.1, KY770860.1,  
NC\_045512.2, KP886808.1, MT072864.1, DQ412043.1, JX993988.1