Distribution of Distances Across Permutations
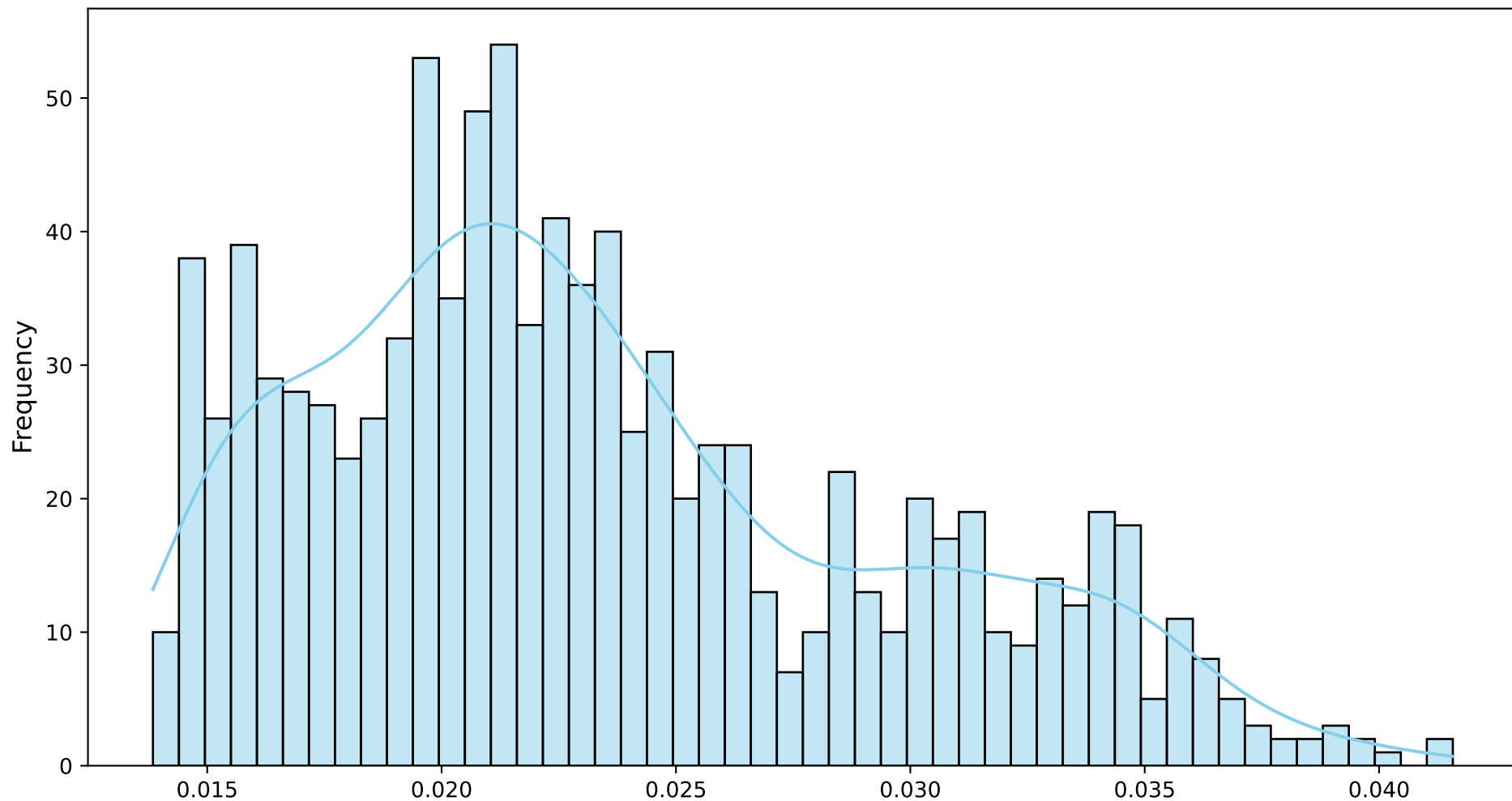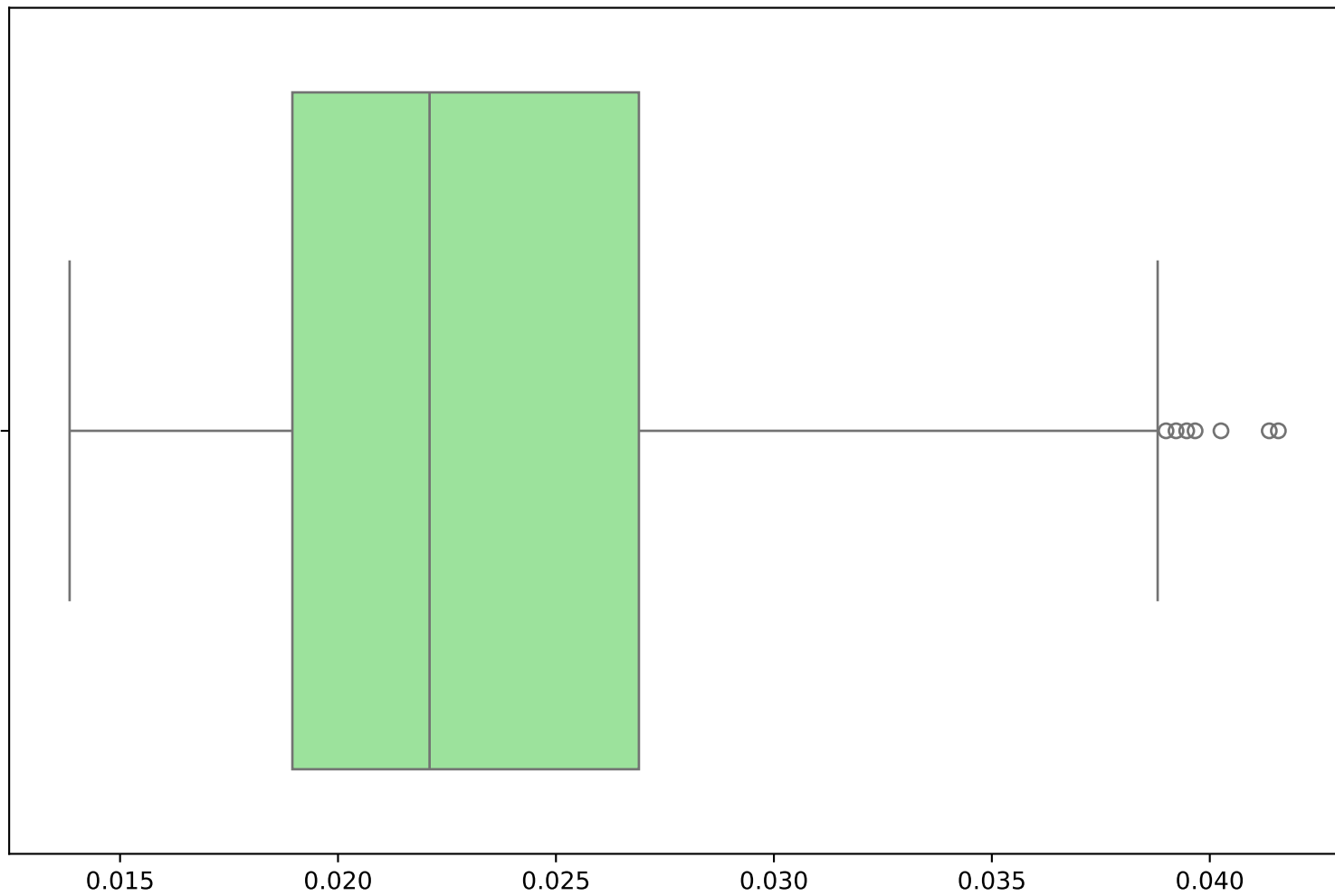
Histogram showing how distances vary across all permutations.
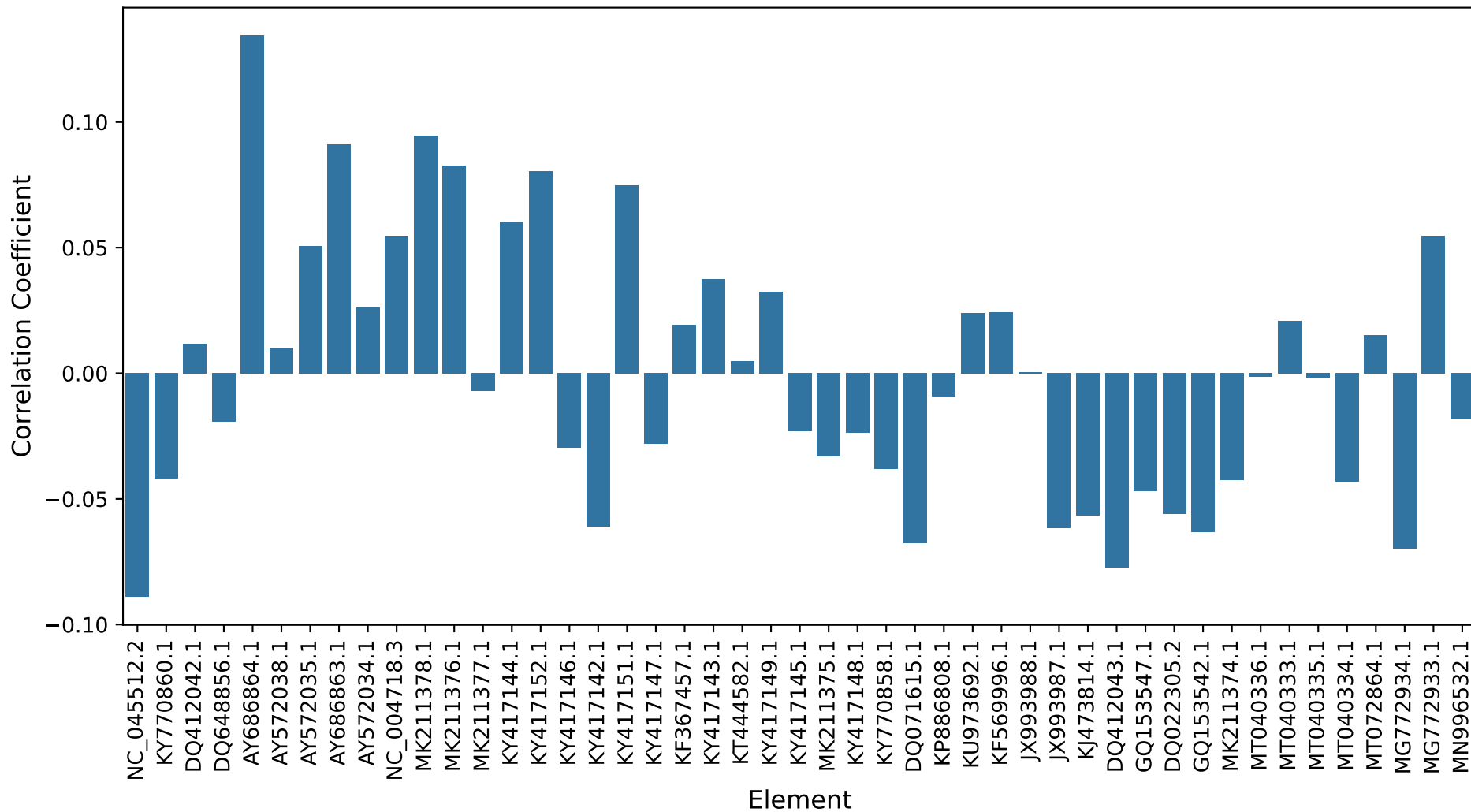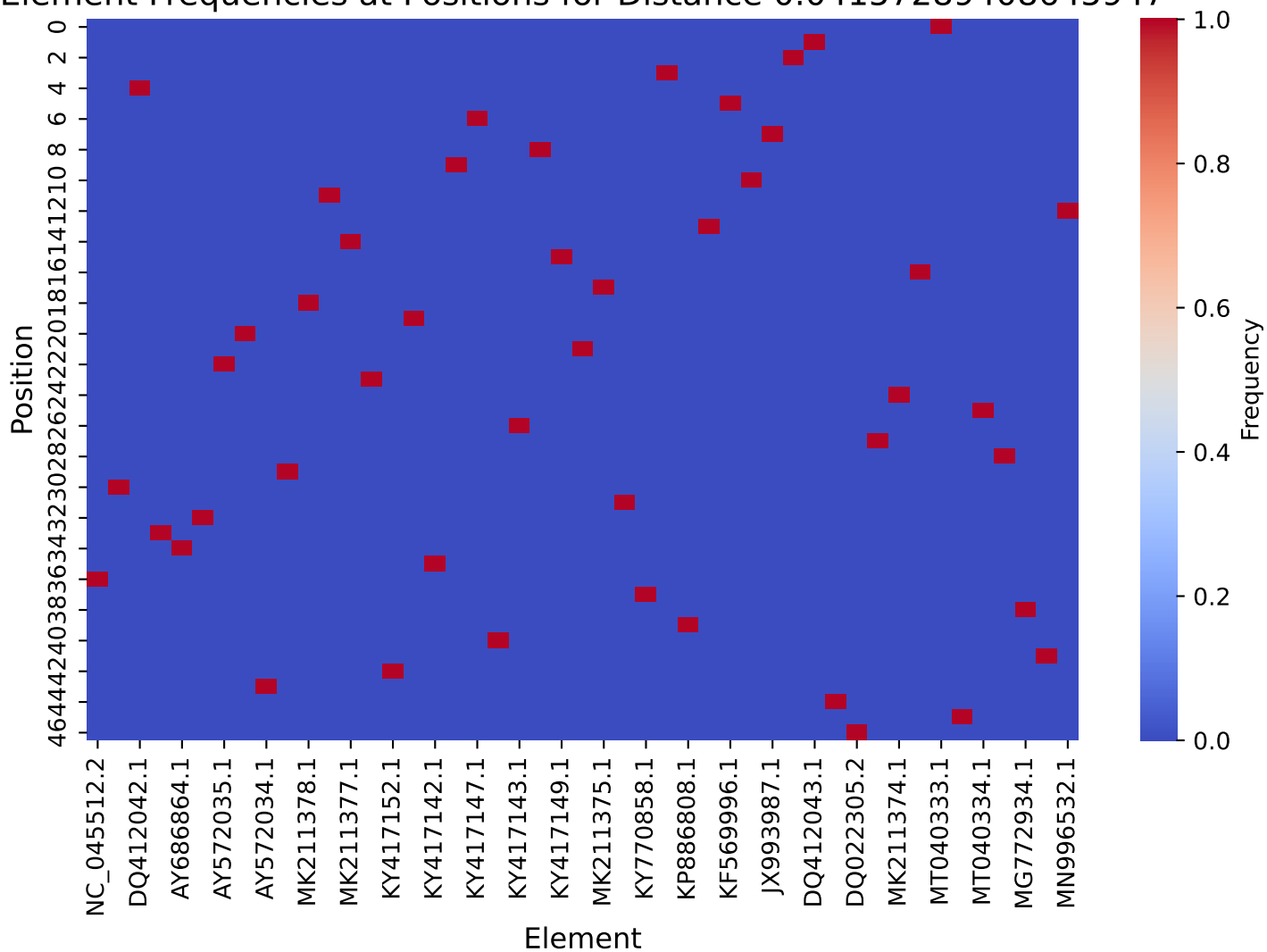
Summary Statistics of Distances

Boxplot illustrating the central tendency and dispersion of distances.

Correlation between Element Positions and Distance

Element Frequencies at Positions for Distance 0.0138422902447736846

Element Frequencies at Positions for Distance 0.04157289408645947

Statistical Summary of Distances

	Value
Mean	0.023303
Median	0.022100
Standard Deviation	0.006089
Variance	0.000037
Minimum	0.013842
Maximum	0.041573

Shapiro-Wilk Normality Test Results:

Test	Statistic	p-value
Shapiro-Wilk	0.948599	3.505097e-18

This page summarizes key statistical measures of the distance data.

Permutations with Minimal Distance: 0.013842290244736846

AY686864.1, MK211376.1, KY417142.1, JX993987.1, KY417152.1, MG772933.1, KY417146.1, MT040336.1, KU973692.1, NC_004718.3, MG772934.1, KY417143.1, MT040334.1, KY770860.1, MK211378.1, KP886808.1, KT444582.1, AY572038.1, DQ412043.1, MK211374.1, KY417147.1, KY417148.1, MT040333.1, KY417149.1, DQ071615.1, KY417151.1, JX993988.1, KF569996.1, KF367457.1, KY417145.1, MT072864.1, KY417144.1, MK211375.1, GQ153542.1, MT040335.1, DQ648856.1, DQ412042.1, GQ153547.1, KJ473814.1, DQ022305.2, NC_045512.2, MK211377.1, MN996532.1, AY572034.1, KY770858.1, AY686863.1, AY572035.1

Permutations resulting in the minimal total distance among trees.

Permutations with Maximal Distance: 0.04157289408645947

MT040333.1, DQ412043.1, KJ473814.1, DQ071615.1, DQ412042.1, KF569996.1,
KY417147.1, JX993987.1, KT444582.1, KY417151.1, JX993988.1, MK211376.1,
MN996532.1, KU973692.1, MK211377.1, KY417149.1, MT040336.1, MK211375.1,
MK211378.1, KY417146.1, AY686863.1, KY417145.1, AY572035.1, KY417144.1,
MK211374.1, MT040334.1, KY417143.1, GQ153542.1, MT072864.1, NC_004718.3,
KY770860.1, KY417148.1, AY572038.1, DQ648856.1, AY686864.1, KY417142.1,
NC_045512.2, KY770858.1, MG772934.1, KP886808.1, KF367457.1, MG772933.1,
KY417152.1, AY572034.1, GQ153547.1, MT040335.1, DQ022305.2

Permutations resulting in the maximal total distance among trees.