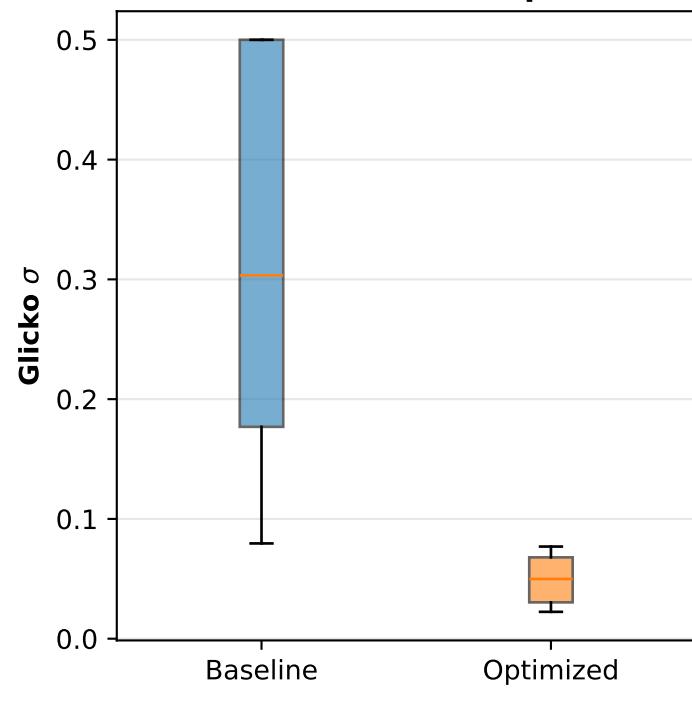
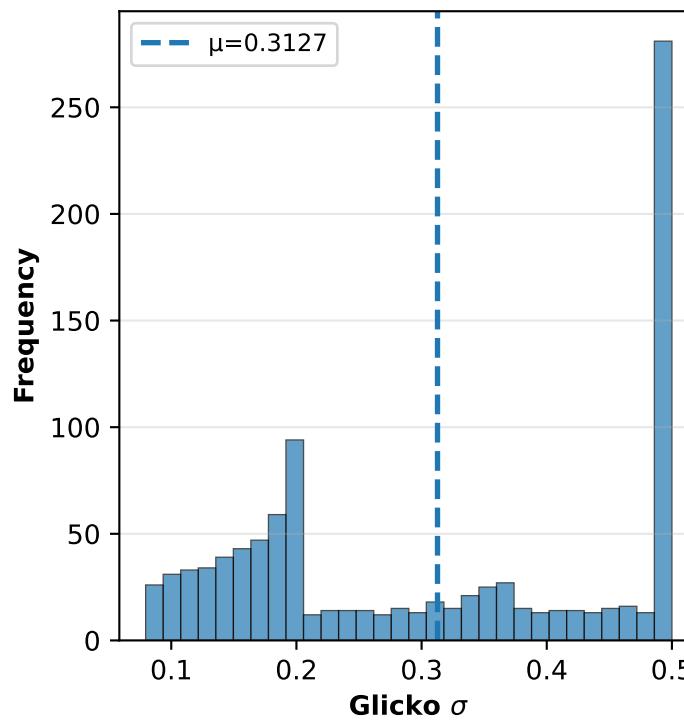


Figure 6: Statistical Validation - Glicko Volatility Distribution

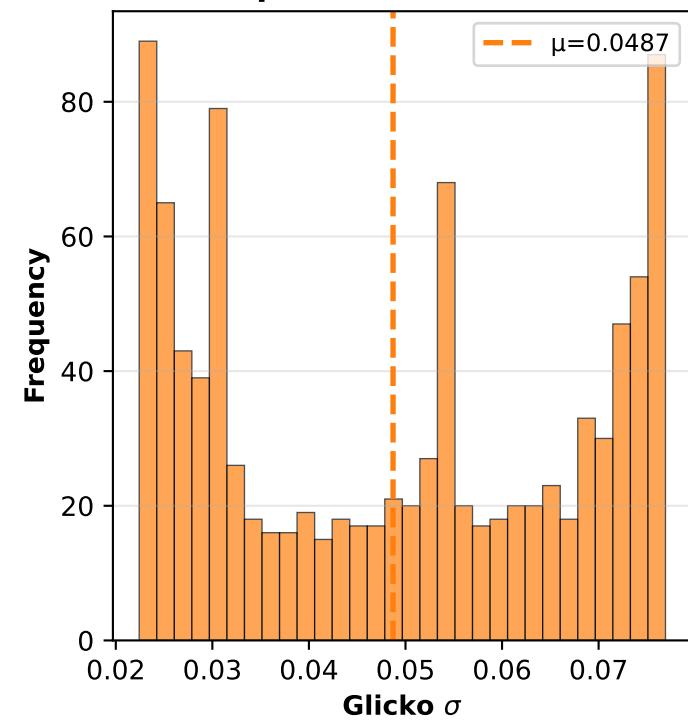
(A) Distribution Comparison



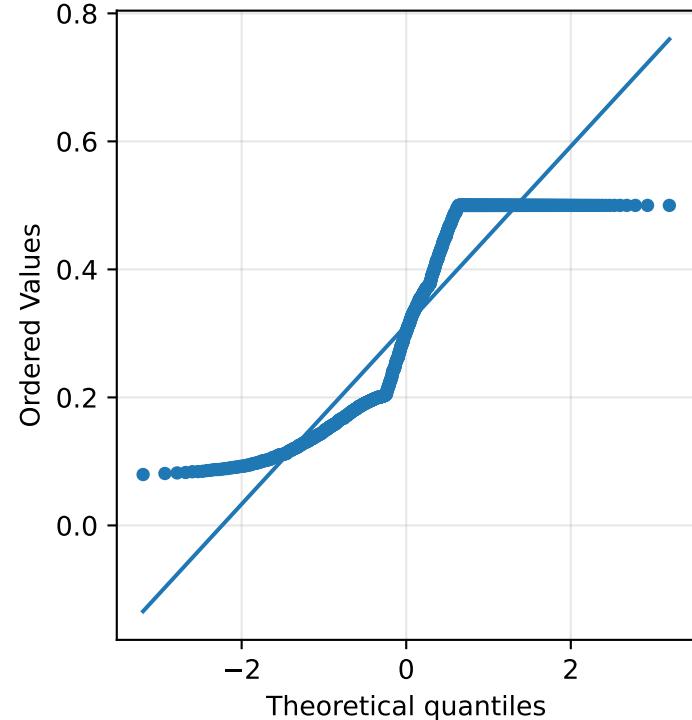
(B) Baseline Distribution



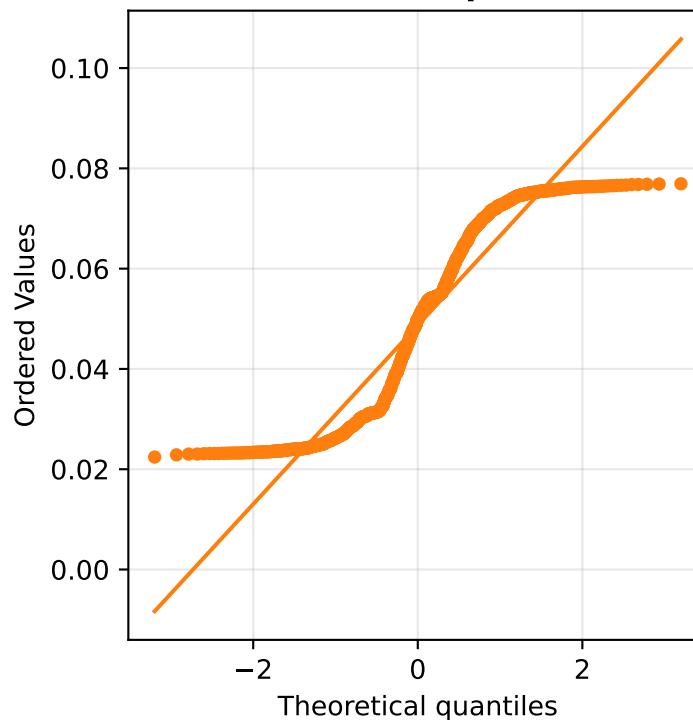
(C) Optimized Distribution



(D) Q-Q Plot Baseline



(E) Q-Q Plot Optimized



HYPOTHESIS TEST RESULTS

Welch's t-test:
 $t = 55.2105$
 $p\text{-value} = 4.34e-310$
Status: ✓ PASS

Cohen's d Effect Size:
 $d = 2.469$
Interpretation: ENORMOUS

Kolmogorov-Smirnov:
 $KS = 1.0000$
 $p\text{-value} = 0.00e+00$

Improvement: 84.4%