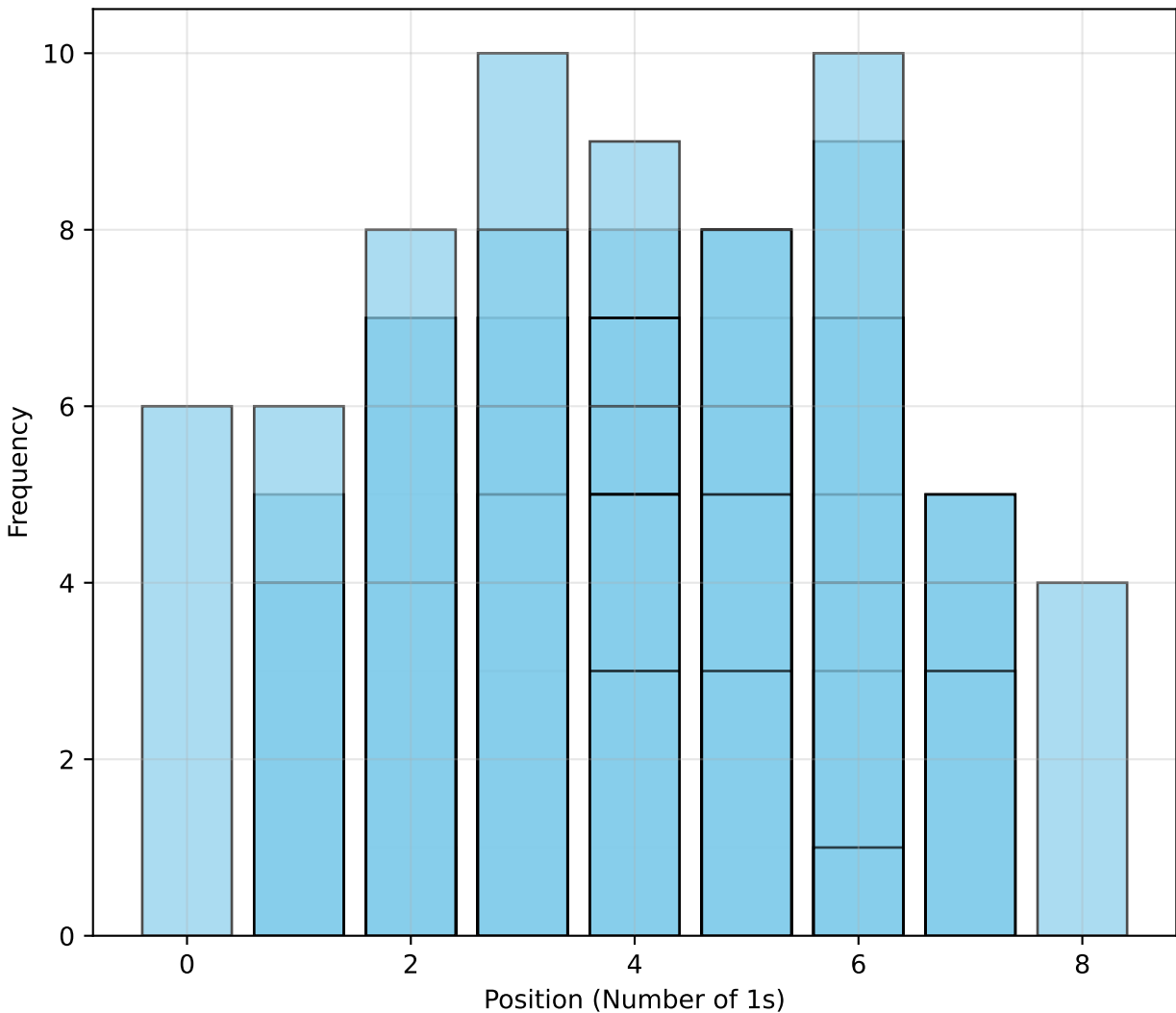
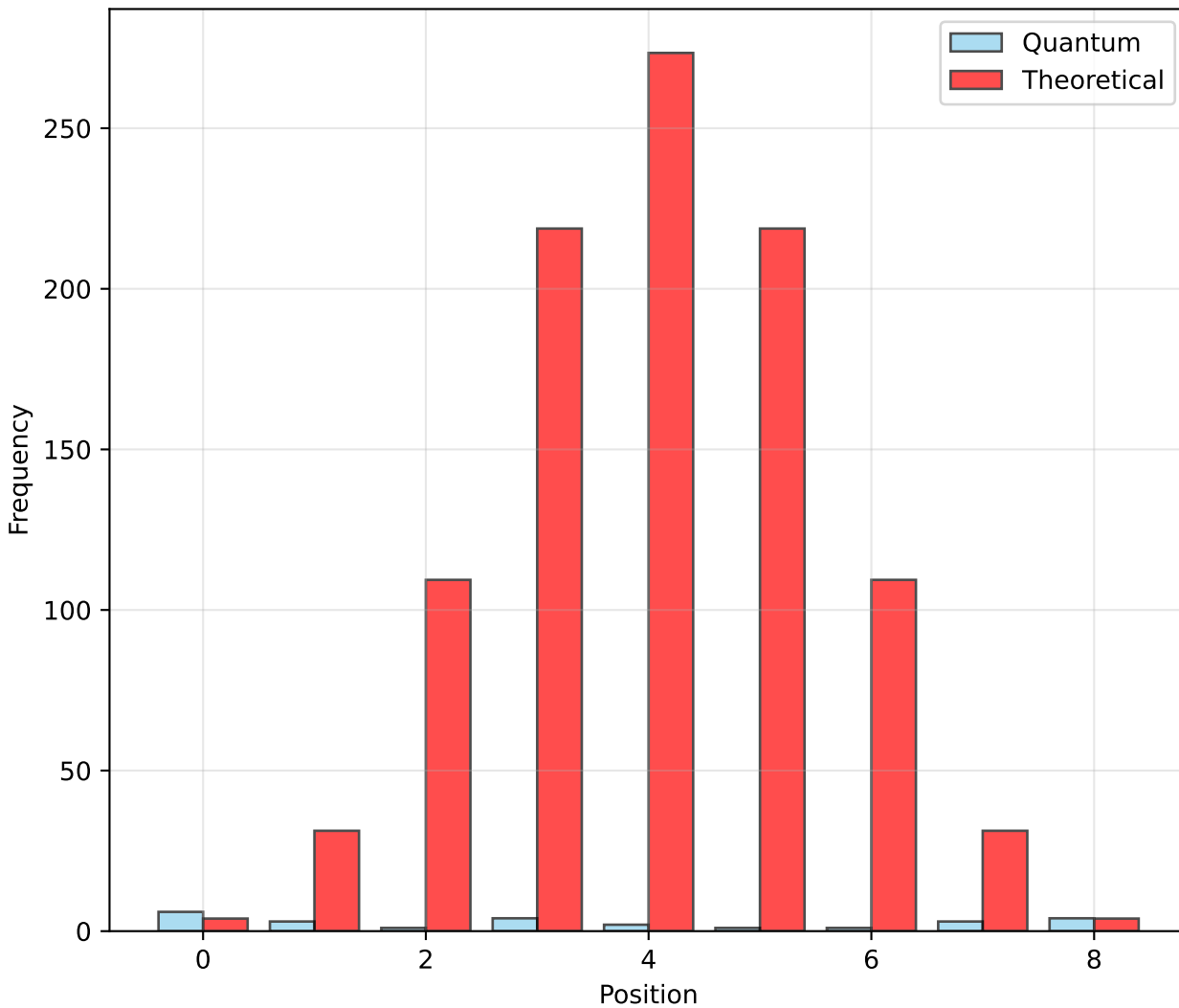


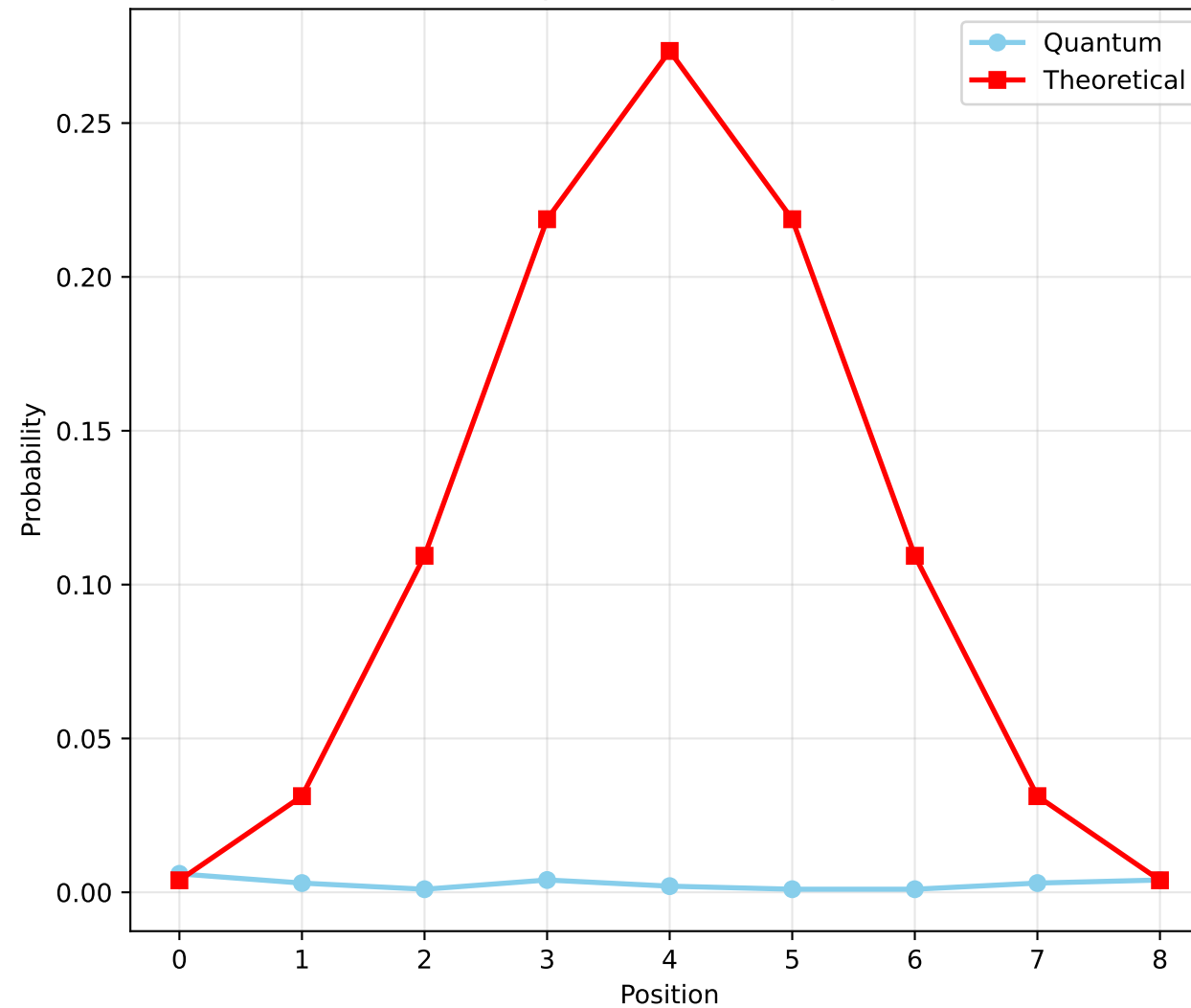
Quantum Simulation Results  
(Shots: 1000)



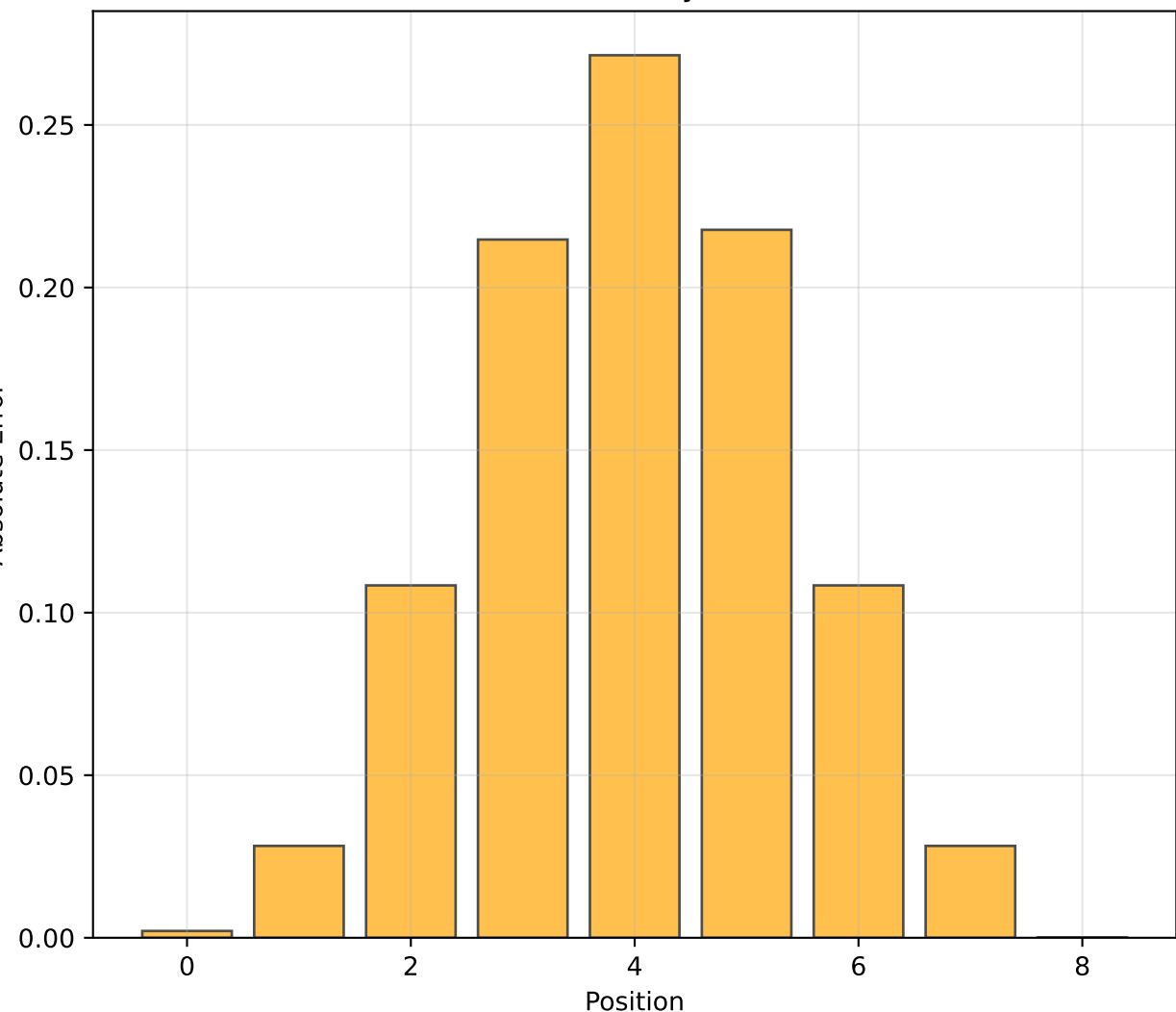
Quantum vs Theoretical Distribution



Probability Distribution Comparison



Error Analysis



Statistics Summary:

Total Shots: 1000  
Mean Position: 4.003  
Theoretical Mean: 4.000  
Variance: 1.999  
Standard Deviation: 1.414  
Theoretical Std Dev: 1.414

Bias Parameter: 0.5  
Number of Levels: 8

Quantum Circuit Info:

Number of Qubits: 8  
Circuit Depth: 8  
Bias Parameter: 0.5

Circuit Operations:  
- RY gates for bias  
- CX gates for entanglement  
- RZ gates for phase  
- Measurement