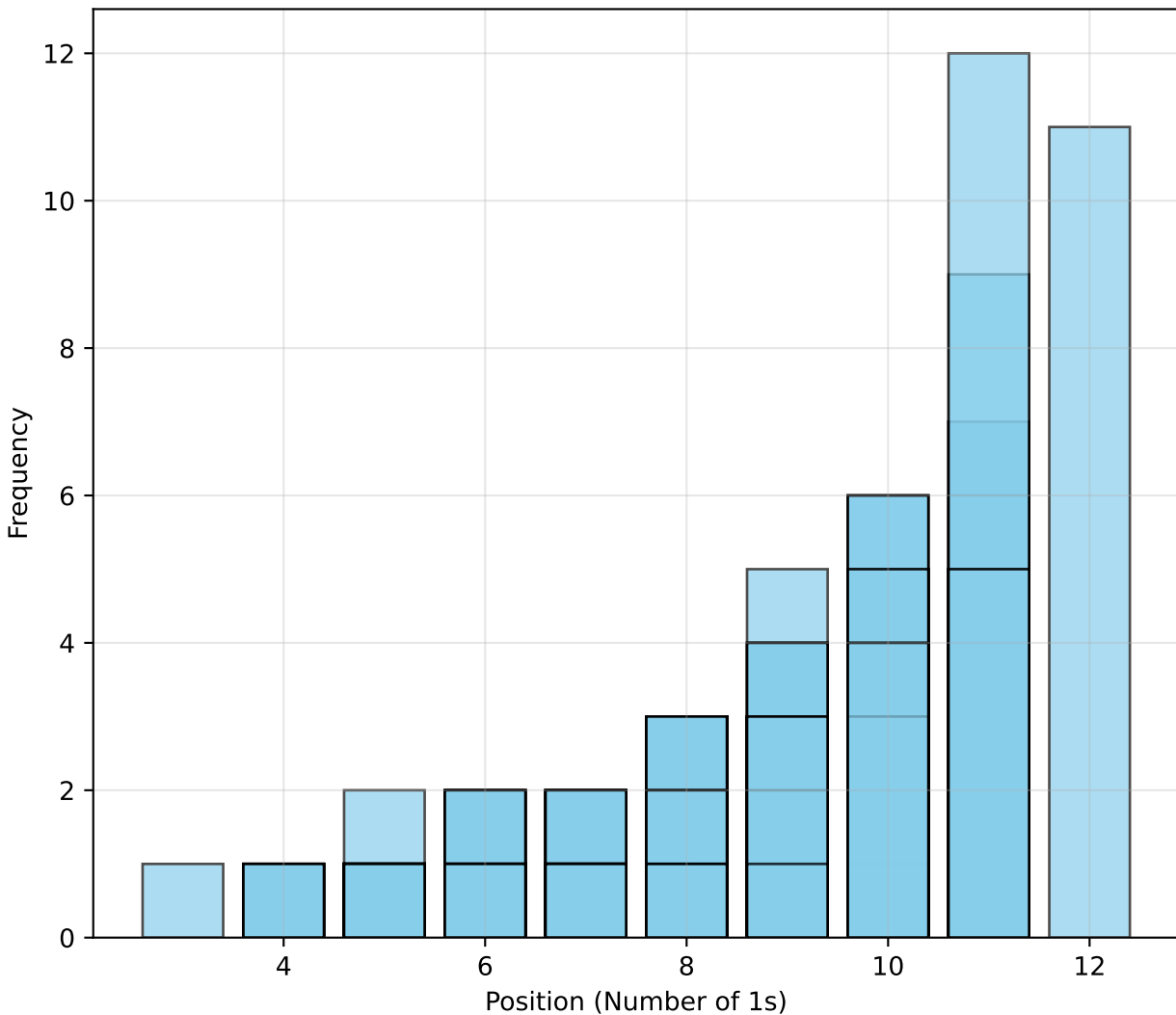
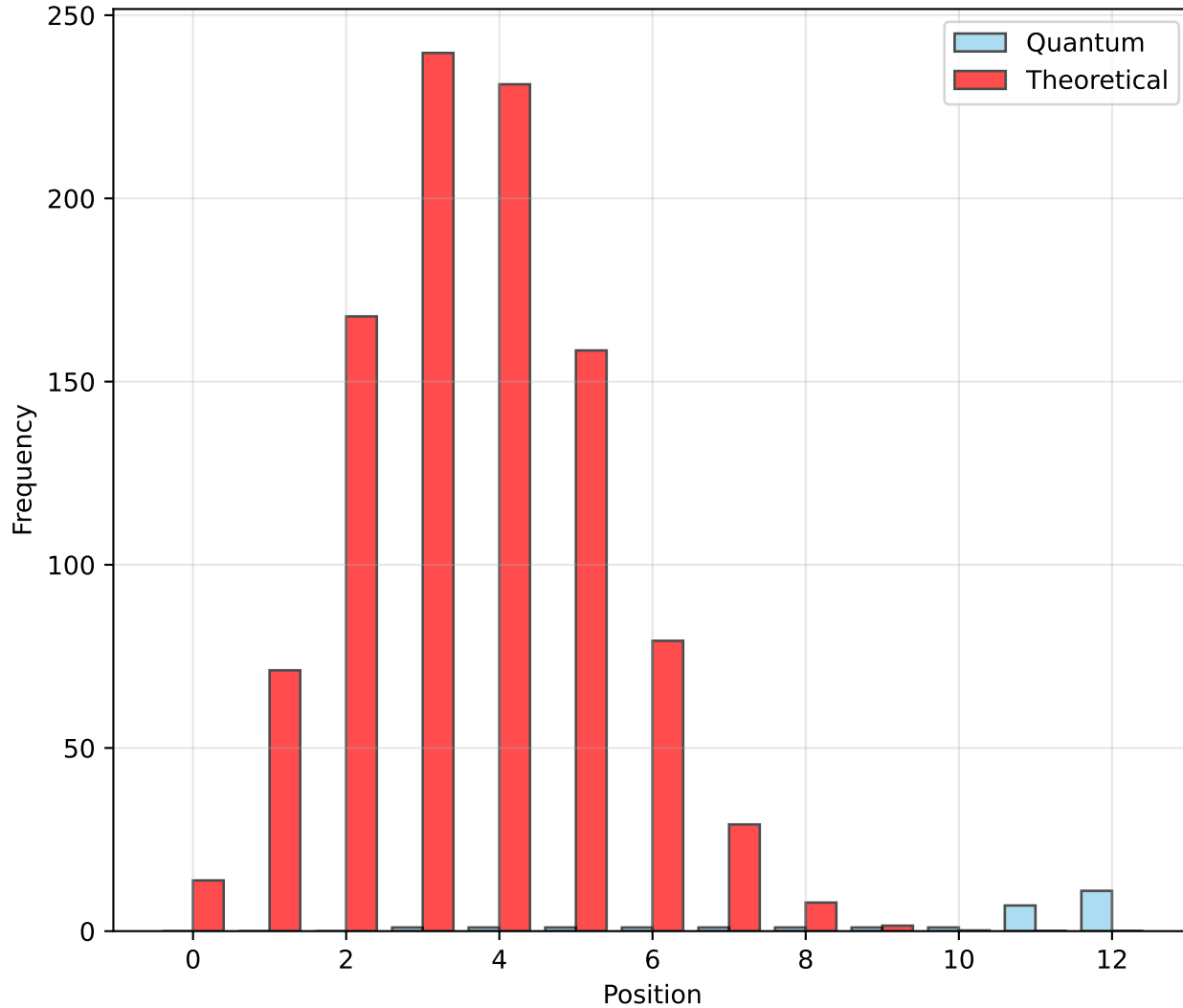


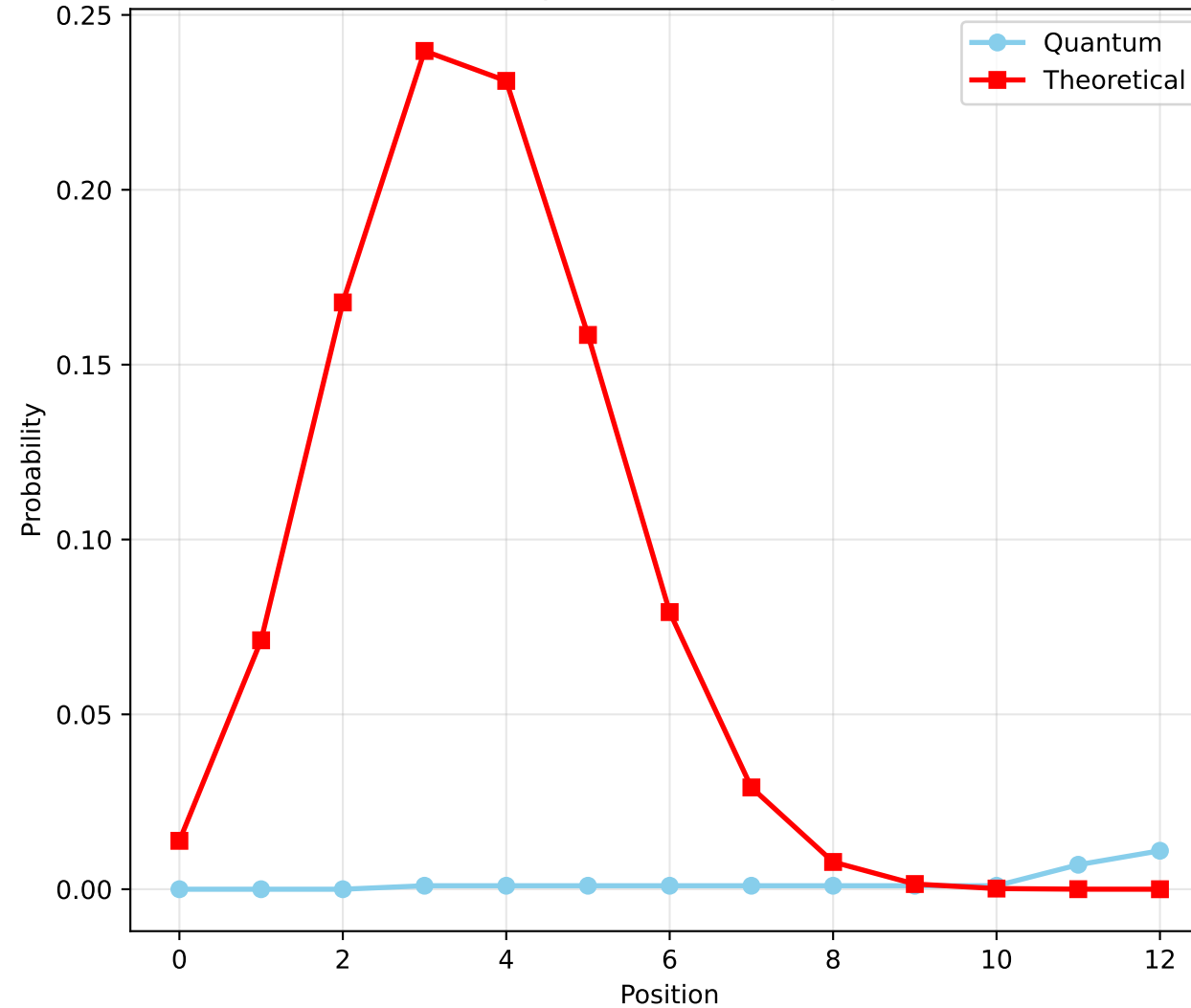
Quantum Simulation Results  
(Shots: 1000)



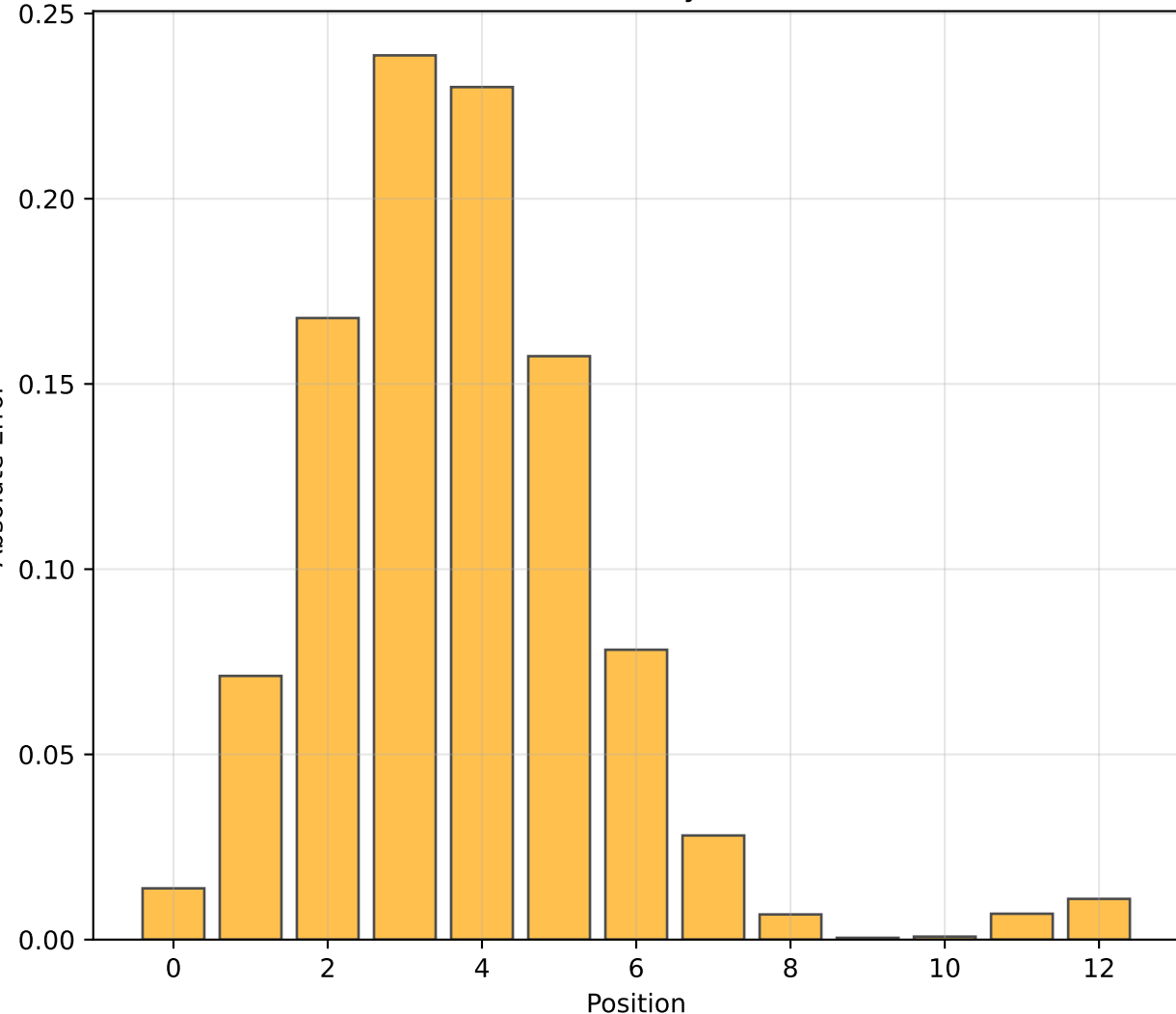
Quantum vs Theoretical Distribution



Probability Distribution Comparison



Error Analysis



Statistics Summary:

Total Shots: 1000  
Mean Position: 8.395  
Theoretical Mean: 3.600  
Variance: 2.487  
Standard Deviation: 1.577  
Theoretical Std Dev: 1.587  
  
Bias Parameter: 0.3  
Number of Levels: 12

Quantum Circuit Info:

Number of Qubits: 12  
Circuit Depth: 12  
Bias Parameter: 0.3  
  
Circuit Operations:  
- RY gates for bias  
- CX gates for entanglement  
- RZ gates for phase  
- Measurement