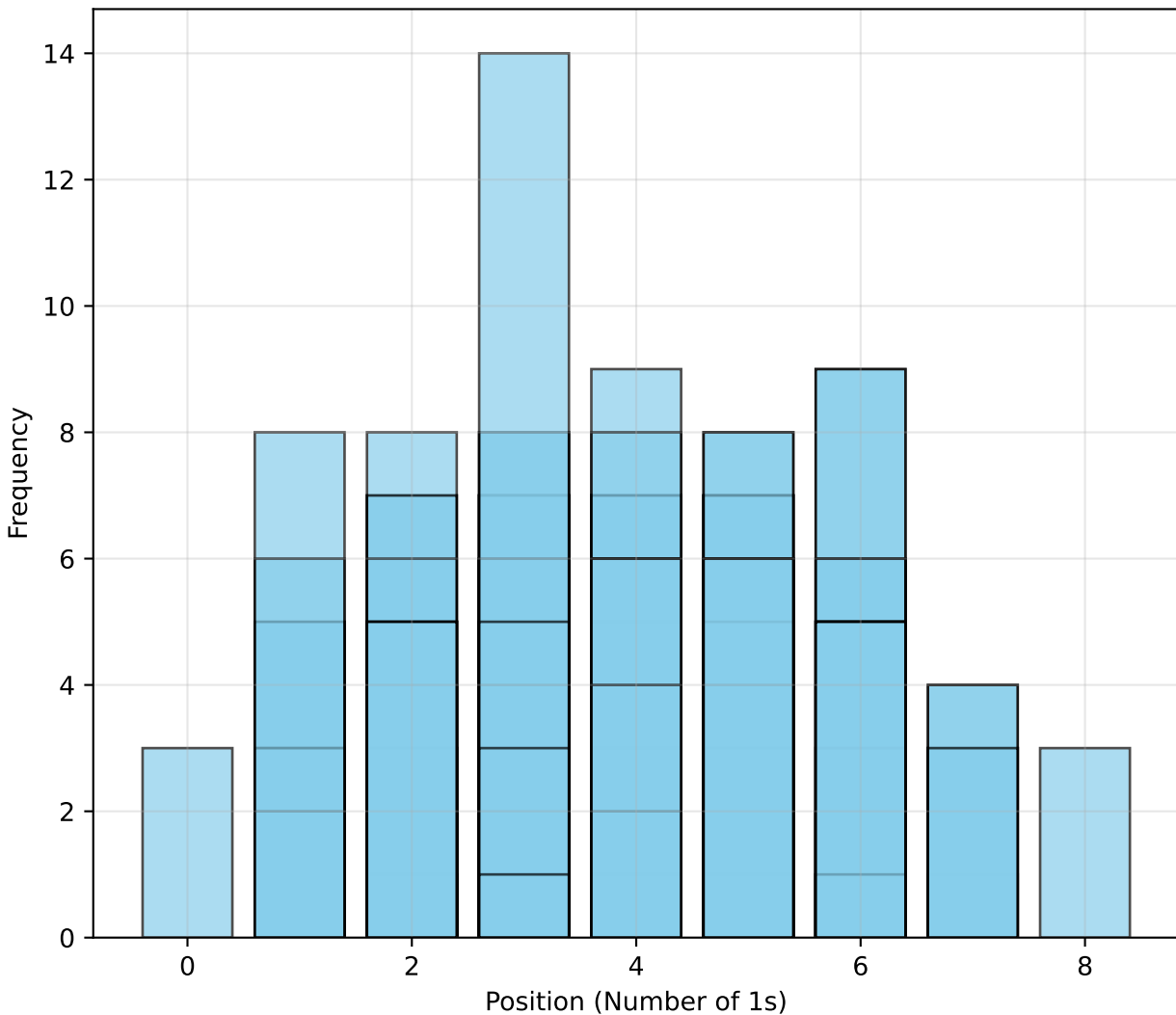
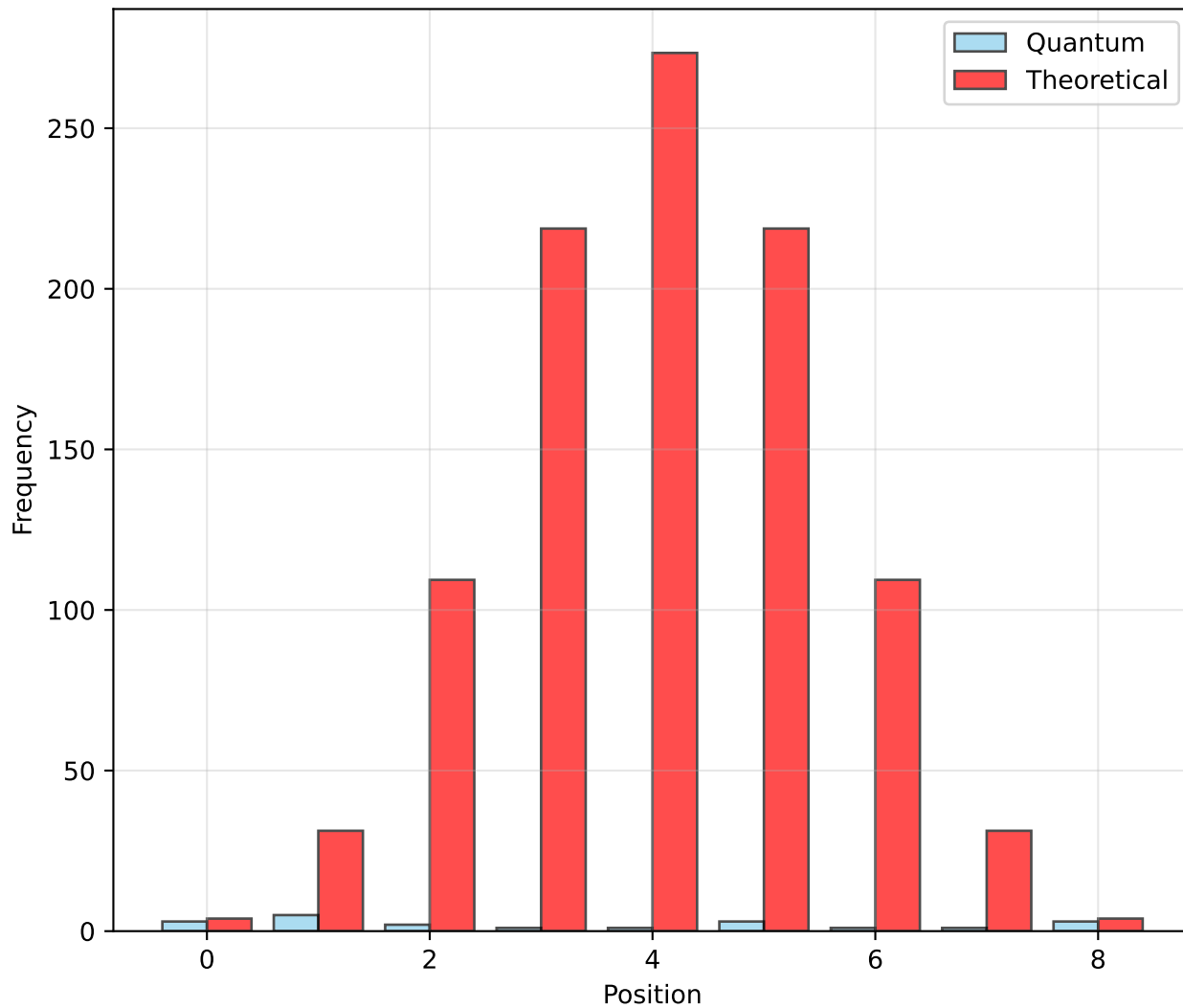


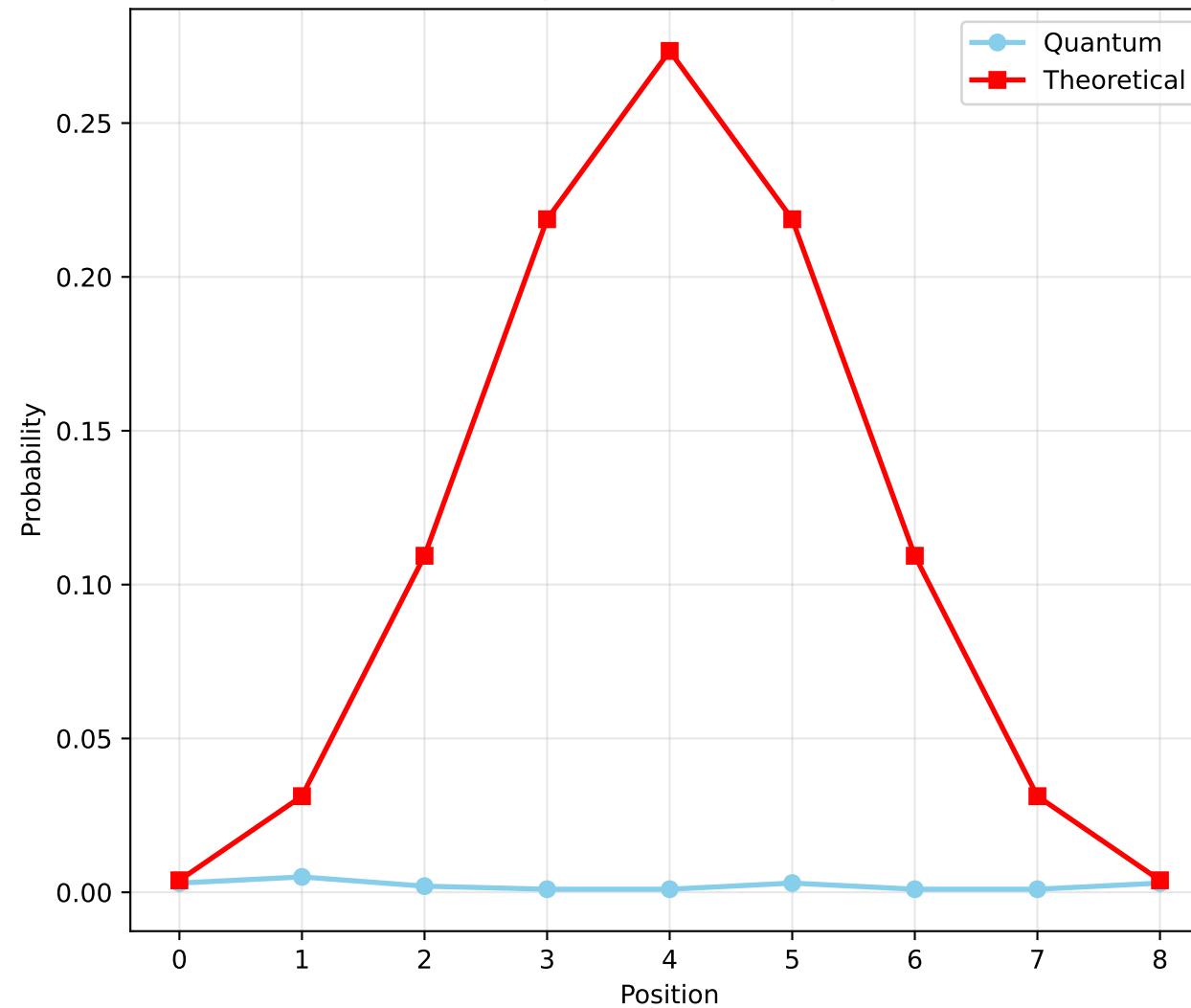
Quantum Simulation Results
(Shots: 1000)



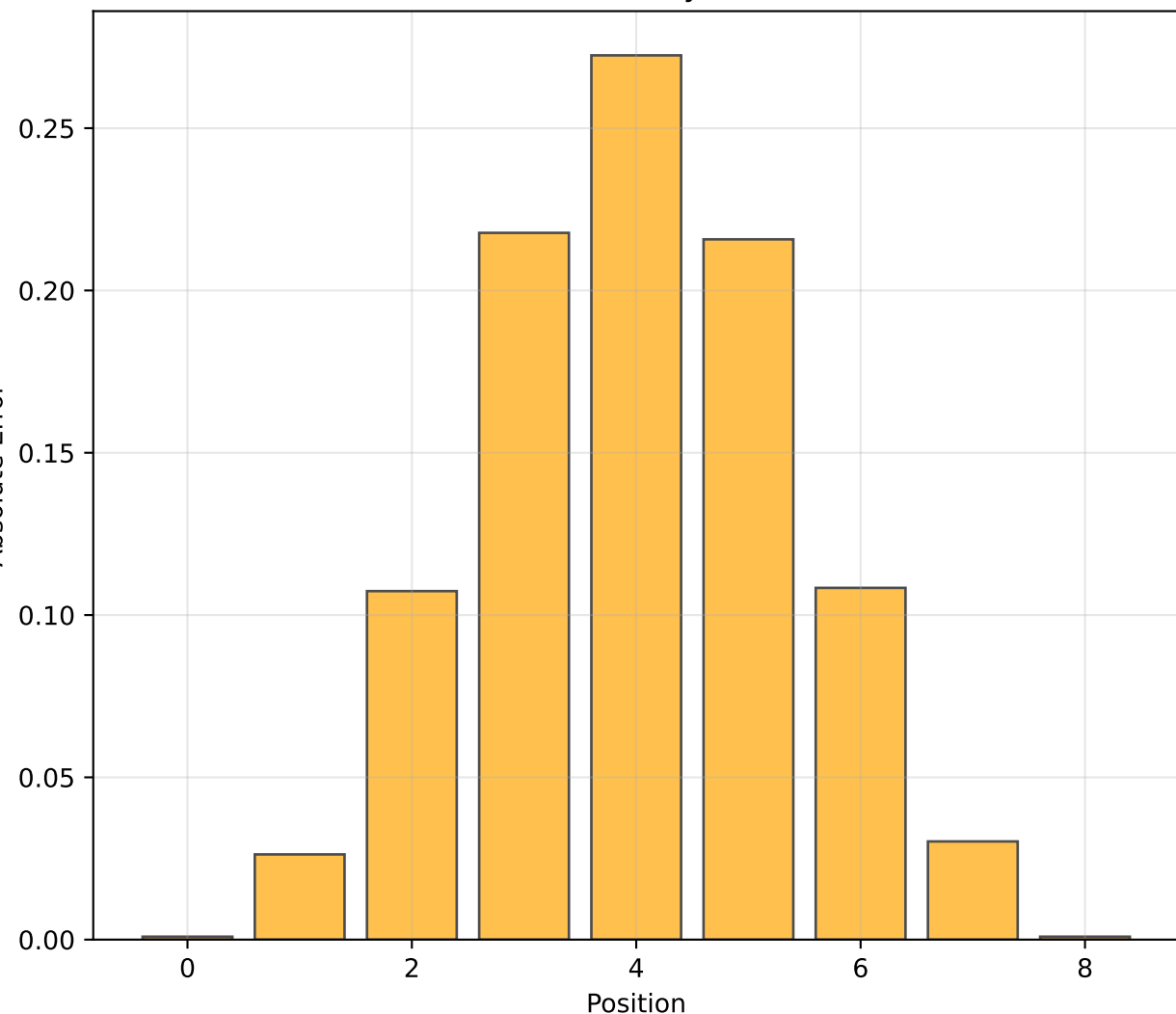
Quantum vs Theoretical Distribution



Probability Distribution Comparison



Error Analysis



Statistics Summary:

Total Shots: 1000
Mean Position: 3.947
Theoretical Mean: 4.000
Variance: 1.826
Standard Deviation: 1.351
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