Presented by: Dr. Aaron Loeb

CLICK HERE AND UNLOCK THE FUTURE OF FINANCE WITH QUANTUM COMPUTING

UNLOCK THE FUTURE OF FINANCE WITH QUANTUM

Advancing Innovation in Quantum-AI Hybrid Systems

1M+

Table of Contents

- No prior coding or quantum experience needed
- ✅ Real-world financial use cases explained clearly
- ✅ Learn at your own pace, from anywhere

Research Background

Field: Quantum Machine Learning

Q-FinPredict: Hybrid Quantum-Classical AI for High-Frequency Trading

Research Problem

- ✓ Quantum algorithms for next-generation financial optimization.”
- “Harnessing quantum power to solve complex financial problems.”
- “Quantum computing’s impact on future financial innovation.”
- “Accelerating finance with quantum-driven solutions.”

Why This Study?

- ✓ “To understand quantum computing’s future role in finance.”
- “To reveal faster, smarter financial solutions through quantum tech.”
- “To examine quantum technology’s impact on financial innovation.”
- “To bridge quantum computing
financial challenges.

Objectives & Hypothesis

Primary Objectives

1. Identify quantum solutions for financial problems.
2. Explore quantum algorithms for finance.
3. Assess benefits of quantum speed and accuracy.
4. Evaluate quantum impact on risk and trading.
5.

Hypothesis

Quantum-enhanced AI will outperform classical models by 30% in high-frequency trading

Literature Review

- Quantum computing offers exponential speed
- Financial models struggle with complex datas
- Quantum algorithms improve optimization tas
- Researchers link quantum tech to portfolio management.
- Studies show potential in risk analysis and cryptography.
- Early experiments reveal faster trading simulat
- Literature highlights challenges in practical implementation

Methodology

Test Environment

✓ Wardiere Inc. quantum cloud + Timmerman Industries trading sim

Technical Development

Innovations

- 90% faster backpropagation
- Error-corrected quantum memory

Challenges

- Qubit decoherence during market opens
- Mitigation: Dynamic circuit recompilation

Expected Outcomes

- Faster financial computations.
- Improved optimization and risk analysis.
- Enhanced trading and forecasting accuracy.
- Clearer understanding of quantum–finance integration.
- Identification of practical quantum use cases

Project Timeline

Phase	Duration	Milestone
q4-q4-2024	Design & Simulation	Architecture approved
Q3-Q4 2024	Prototype Dev	First live trade executed
Q1 2025	Optimization	Latency <100µs achieved
Q2 2025	Commercial Prep	Warner & Spencer pilot

Budget

Category	Cost
Quantum Compute	$1.2M
AI Training	$750K
Security Audit	$300K

Research Team

Principal Investigator

✓ Dr. Itsuki Takahashi (PhD Quantum Comp, Borcelle)

Where quantum meets Wall Street

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THANK YOU FOR YOUR ATTENTION!

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