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Analyzing Earnings-Based Option Strategies Using Historical Data

Will McBride
Co-founder
Market Chameleon

Dmitry Pargamanik
Co-founder
Market Chameleon

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Analyzing Earnings-Based Option Strategies Using Historical Data

Using Historical Earnings Data to Understand Strategy Behavior, Volatility Shifts & Pricing Tendencies

Why Earnings Strategy Analysis Matters

Earnings events are:

- Scheduled volatility catalysts
- IV expansion → IV contraction events

Key question:

Are we trading direction… or volatility behavior?

Historical data helps answer:

- How options were priced before earnings
- How they reacted after
- Whether premium was historically rich or cheap

What We'll Cover

Earnings volatility dynamics

Strategy behavior patterns across earnings

Using the screener more strategically

Comparing strategies under different entry timing

Interpreting dispersion and outliers

Practical workflow for traders

Understanding Earnings Volatility Behavior

What Actually Drives Earnings Strategy Outcomes?

Three forces:

1. Price move magnitude
2. Implied volatility expansion pre-earnings
3. Post-earnings IV crush

Strategy performance depends on:

- Entry timing
- Structure
- Volatility sensitivity (vega exposure)

IV Expansion vs IV Crush

Before earnings:

- Implied volatility typically rises

After earnings:

- Volatility collapses rapidly

Key insight:

Many strategies fail not because direction was wrong, but because volatility behavior was misunderstood.

Why Entry Timing Changes Everything

Compare:

- 2 weeks before earnings
- 1 week before earnings
- Day before earnings
- Exit day after earnings

Timing impacts:

- Vega exposure
- Theta decay
- Risk profile
- Return dispersion

Using the Earnings Strategy Screener

The Screener as a Research Engine

- Strategy types
- Entry timing
- Exit timing
- Historical earnings events

Metrics include:

- Avg return
- Win rate
- Standard deviation
- Best / Worst cases
- Distribution shape

Comparing Strategy Structures

Compare:

- Straddle vs Long Call
- Long Call vs Vertical

Across:

- Same stock
- Same earnings window

Ask:

Was volatility overpriced or underpriced historically?

Multiple leg strategies, including spreads, will incur multiple transaction costs.

Cross-Stock Comparisons

Example comparison:

- META vs MSFT vs GOOG
- Same strategy
- Same entry timing
- Same holding period

Questions to explore:

- Which stock historically overprices earnings?
- Which shows larger realized moves?
- Which shows more consistent outcomes?

Identifying Patterns & Regimes

Spotting Consistency vs Volatility

Look for:

- Stable return patterns
- High variance setups
- Repeated outliers
- Earnings seasonality

Some stocks:

- Move consistently
- Others show occasional explosive surprises

Understanding Outliers

Outliers matter.

Ask:

- Was performance driven by 1–2 extreme quarters?
- Does removing outliers change the thesis?
- Is tail risk acceptable?

Historical distribution helps quantify this.

Practical Workflow

Practical Research Workflow

Step 1: Choose stock
Step 2: Select strategy
Step 3: Test multiple entry timings
Step 4: Compare across peers
Step 5: Evaluate dispersion, not just averages
Step 6: Overlay current volatility conditions

Answering “What If?” Scenarios

Examples:

- What if I entered earlier?
- What if I exited pre-earnings?
- What if I used a vertical instead of a naked call?
- What if I compared this across tech peers?

The screener allows structured experimentation.

How This Improves Decision Quality

This approach helps:

- Reduce emotional trading
- Avoid blindly chasing IV
- Understand volatility tendencies
- Improve risk awareness
- Make structured comparisons

It turns anecdotal beliefs into measurable insights.

Important Considerations

Past performance ≠ future results

Markets evolve:

- Macro shifts
- Company structure changes
- Liquidity changes
- Volatility regime changes

Use as:

- Context
- Research input
- Decision support tool

Options Risk Reminder

Options involve:

- Leverage
- Volatility risk
- Time decay
- Potential total loss

Risk management is essential.

Final Takeaways

Historical earnings analysis helps you:

- Understand volatility behavior
- Compare strategies objectively
- Evaluate dispersion and risk
- Improve decision structure

It provides context — not certainty.