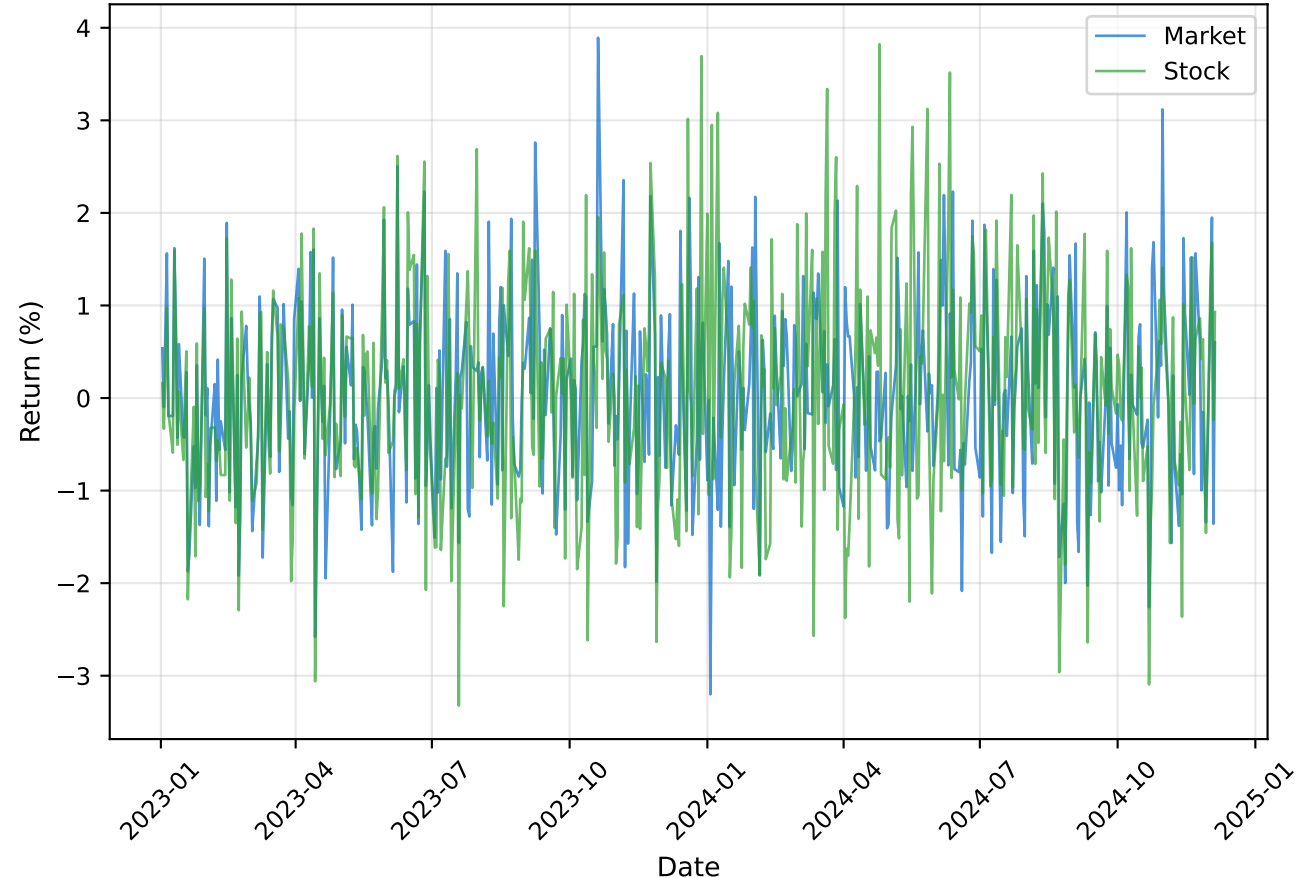
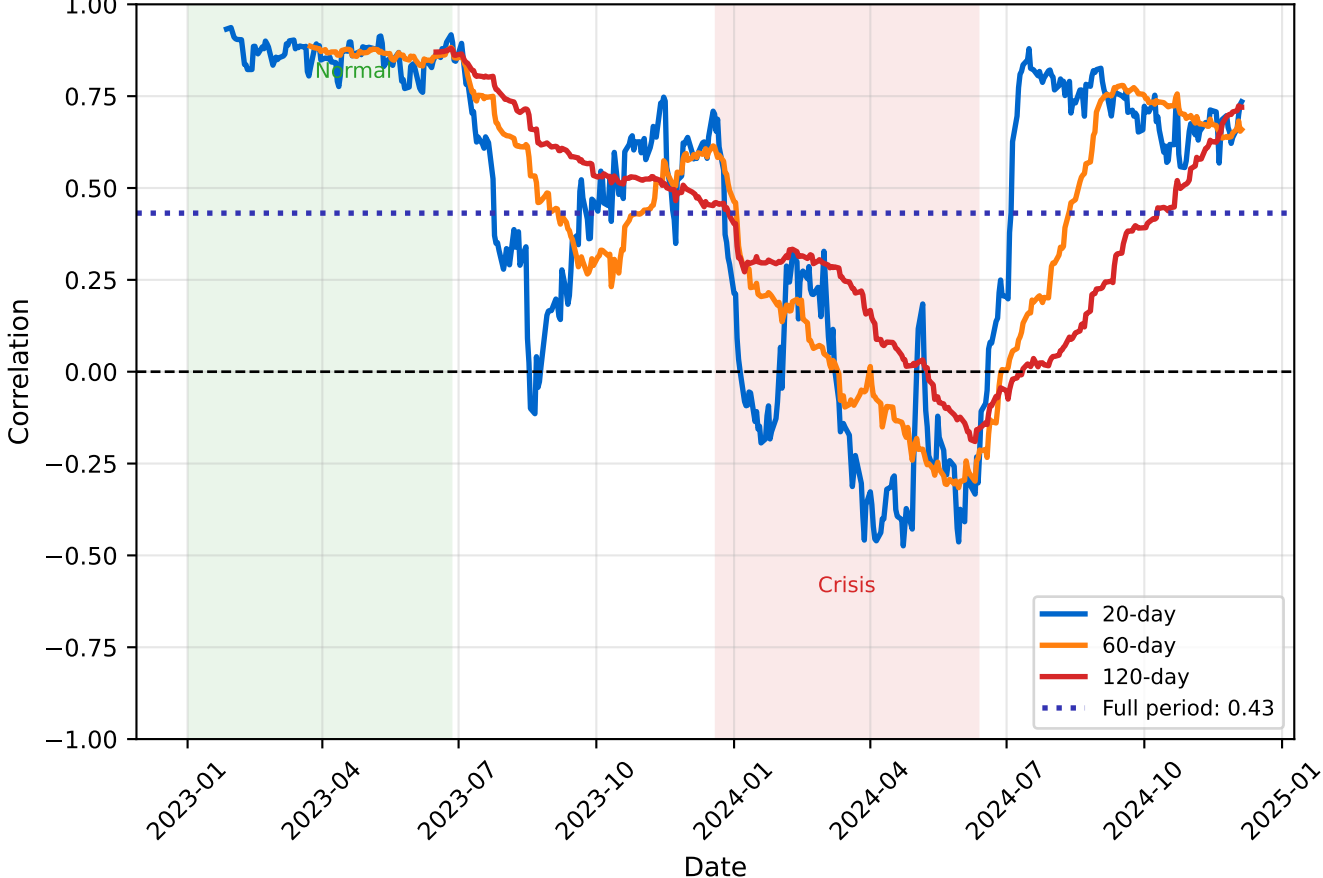


# Rolling Correlation: Time-Varying Relationships

Daily Returns



Rolling Correlation



Scatter by Market Regime



## Why Rolling Correlation Matters

### Correlations Change Over Time

Static correlation masks regime shifts

### Crisis Correlation Spike

Assets become more correlated in crashes

### Diversification Illusion

Low normal correlation may not protect in crisis

### Window Size Matters

Shorter = noisier, Longer = more lag

```
df['A'].rolling(window).corr(df['B'])
```