

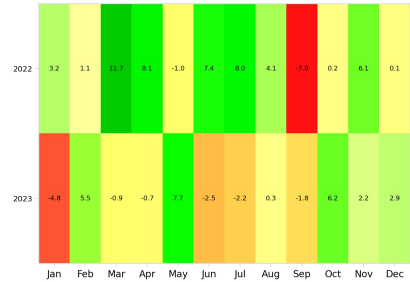
Strategy Description

Weekly statistical arbitrage strategy. PCA is performed on the log prices of technology assets -- selected by volume -- over the past month. Principal components meeting a specified explained variance ratio are retrieved as factors. Assets are regressed against these factors and residuals are measured. A Kalman filter is applied to reduce noise in the residuals and then Z-scores are computed. Reversion signals occur when the absolute value of a Z-score -- with a RSI adjustment for robustness -- exceeds a threshold. EGARCH is used to track the conditional volatility of the industry ETF -- QQQ -- which then serves to dynamically alter the Z-score threshold. The industry regime is detected using ARIMA to ensure that reversion trades are not placed in trending conditions -- long or short QQQ in those instances.

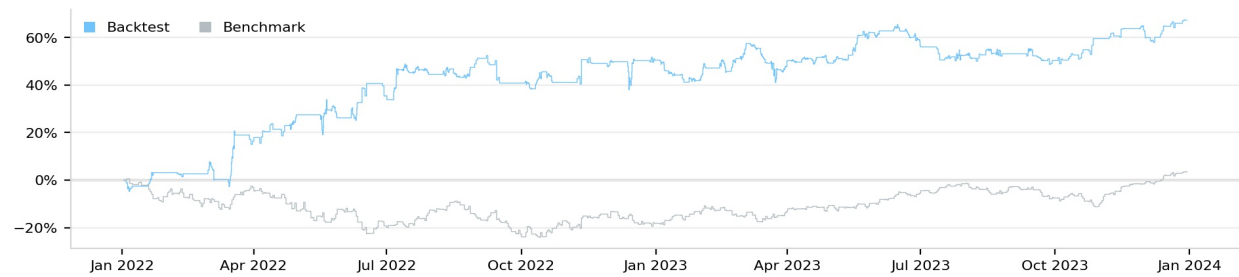
Key Statistics

Runtime Days	728	Drawdown	10.4%
Turnover	21%	Probabilistic SR	59%
CAGR	29.4%	Sharpe Ratio	1.0
Capacity (USD)	200M	Sortino Ratio	1.2
Trades per Day	1.9	Information Ratio	0.8
Drawdown Recovery	187		

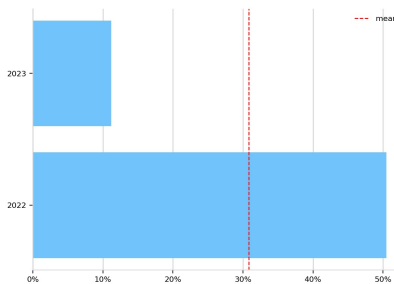
Monthly Returns



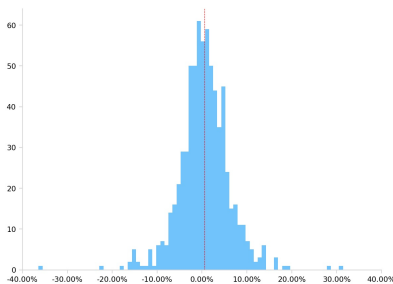
Cumulative Returns



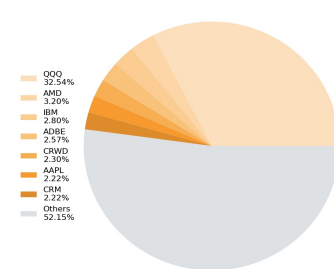
Annual Returns



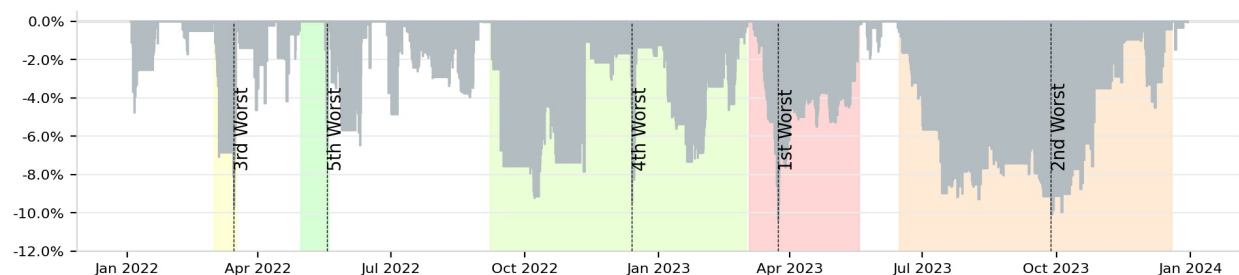
Returns Per Trade



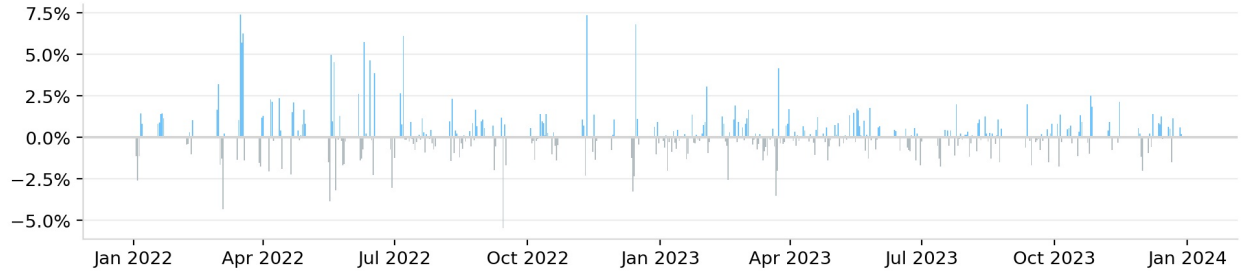
Asset Allocation



Drawdown



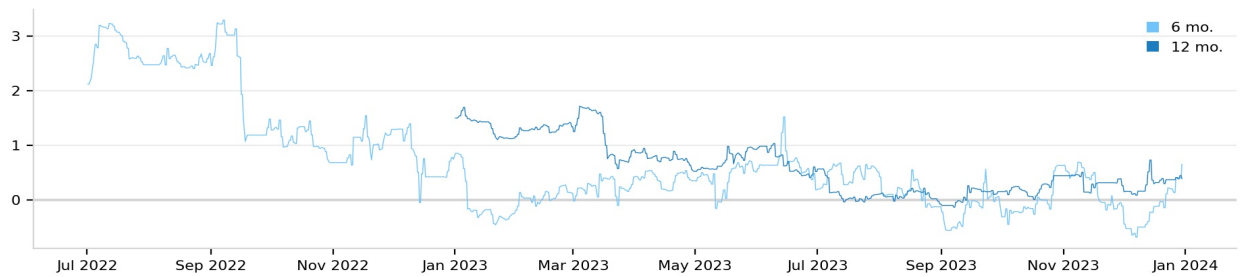
Daily Returns



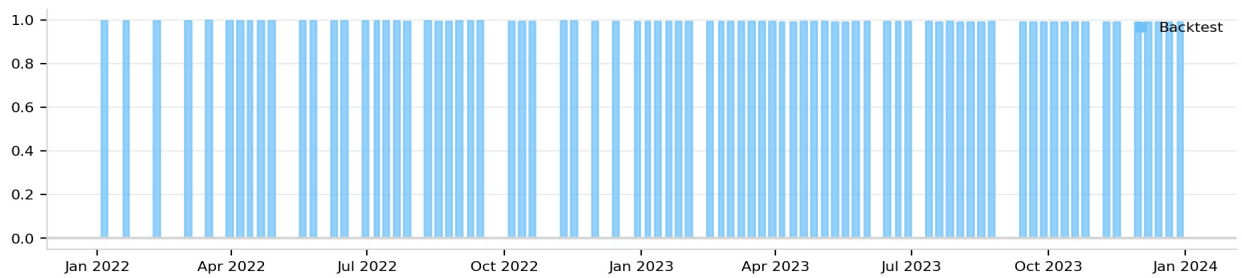
Rolling Portfolio Beta



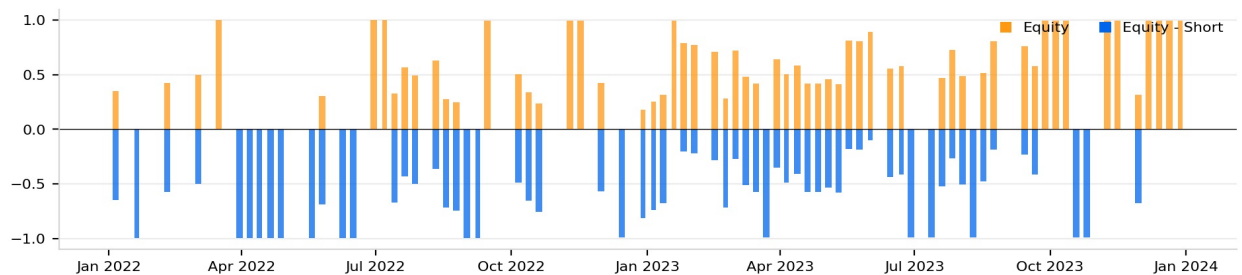
Rolling Sharpe Ratio



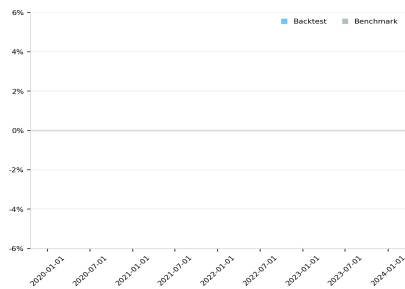
Leverage



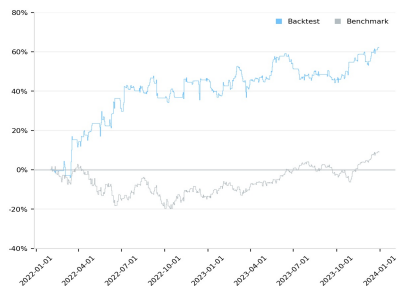
Long-Short Exposure



Post-COVID Run-up 2020-2021



Russia Invades Ukraine 2022-2023



AI Boom 2022-Present

