SIGNAL RESEARCH NOTE

HPCA Residual Momentum 126d Rank

Hierarchical eigenportfolio stat arb evidence across the stated research universe.

Hierarchical Eigenportfolio Stat Arb | Secondary research | 126d preferred horizon

Executive Summary

This note summarizes historical rank evidence for HPCA Residual Momentum 126d Rank. Metrics are reported as research diagnostics under the source-run assumptions and should be read as evidence about ranking behavior, not as a live recommendation.

Preferred horizon	126d
Top-bottom spread	1.39%
Rank IC	0.011
Long-leg return	n/a
Average turnover	34.82%

1. The preferred diagnostic horizon is 126d, where the recorded rank spread is 1.39%.
2. Spread evidence is strongest around the 126d horizon in the available comparison set.
3. Rank IC is positive in the reported research run at 0.011.

Data and Research Setup

UNIVERSE

Broad liquid equity universe used by the source research run.

INPUTS

Daily close prices and dated feature panels available at the research observation date.

CADENCE

Cross-sectional rank review at the reported horizon set.

COMPARISON BASIS

Comparisons use the same universe and source assumptions inside each run. The note omits current constituents, current tickers and live recommendations.

The source files were used for historical research extraction only. This note does not disclose current constituents, current ranks or position-level recommendations.

Signal Methodology

Without disclosing the exact functional, the construction proceeds along three conceptual steps.

1. **Signal measurement.** Measures persistence in relative price or exposure behavior over the research horizon.
2. **Cross-sectional ranking.** Ranks instruments cross-sectionally so stronger persistence can be compared with weaker persistence.
3. **Horizon evaluation.** Evaluates whether the medium-horizon ordering is coherent across adjacent horizons and sample splits.

The description is intentionally conceptual. Formula details, exact construction rules and implementation parameters are not disclosed.

Results and Horizon Context

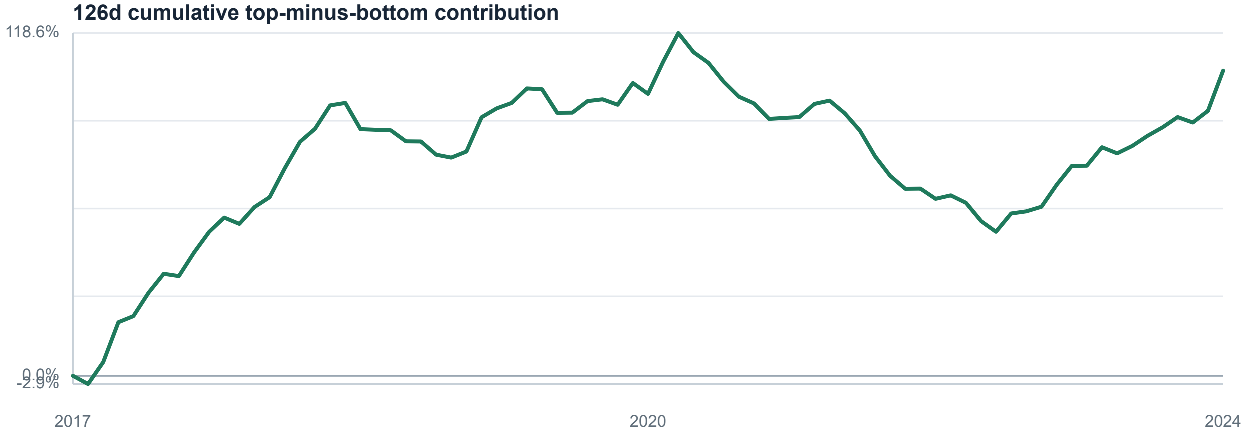

Figure 1. Cumulative 126d top-minus-bottom rank-spread contribution. Long-horizon forward observations can overlap, so the series should be read as a ranking diagnostic, not as a standalone portfolio NAV.

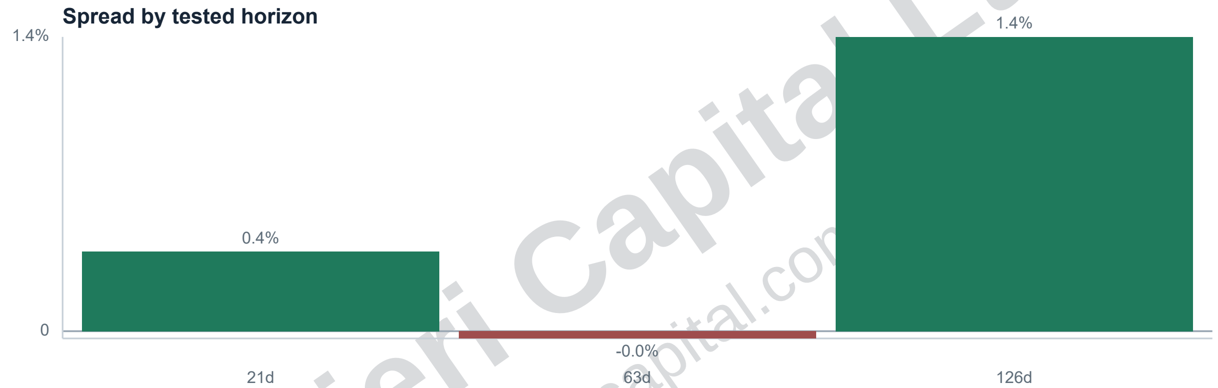

Figure 2. Spread profile across the tested horizons available in the source validation summary.

Horizon	Rank spread	Rank IC	Long-leg return	Turnover
21d	0.37%	0.009	n/a	34.82%
63d	-0.03%	-0.003	n/a	34.82%
126d	**1.37%**	**0.011**	**n/a**	**34.82%**

Stability and Robustness

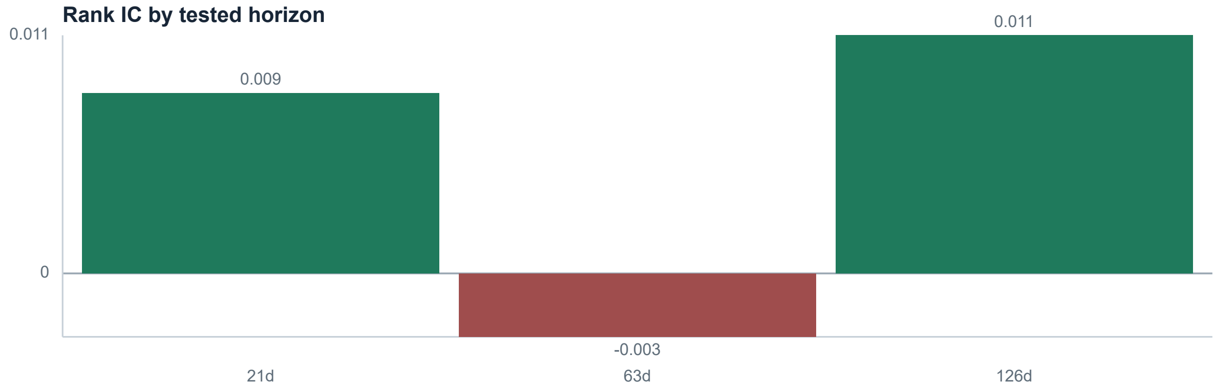

Figure 3. Rank-IC evidence across the available horizon set. Where only one horizon is available, the chart should be read as a compact evidence marker.

The available horizon evidence is coherent enough for a research note.

Positive-year fraction	**n/a**
Universe size	**3,000**
Validation dates	**120**

Research Interpretation

ROLE IN RESEARCH LIBRARY

Cross-sectional research-library ranking component.

WHAT IT CAPTURES

Relative characteristic information under the source-run assumptions.

KNOWN LIMITATIONS

The note reports historical research diagnostics, not a standalone live strategy.

The evidence supports retaining the signal in the research library where it can be compared with related components under the same assumptions.