

## Quant Research Report – Pairs Trading

Data Period: 2018-01-02 to 2025-07-31

Number of Tickers: 10

Cointegrated Pairs Found: 2

Top 5 Pairs by Sharpe Ratio:

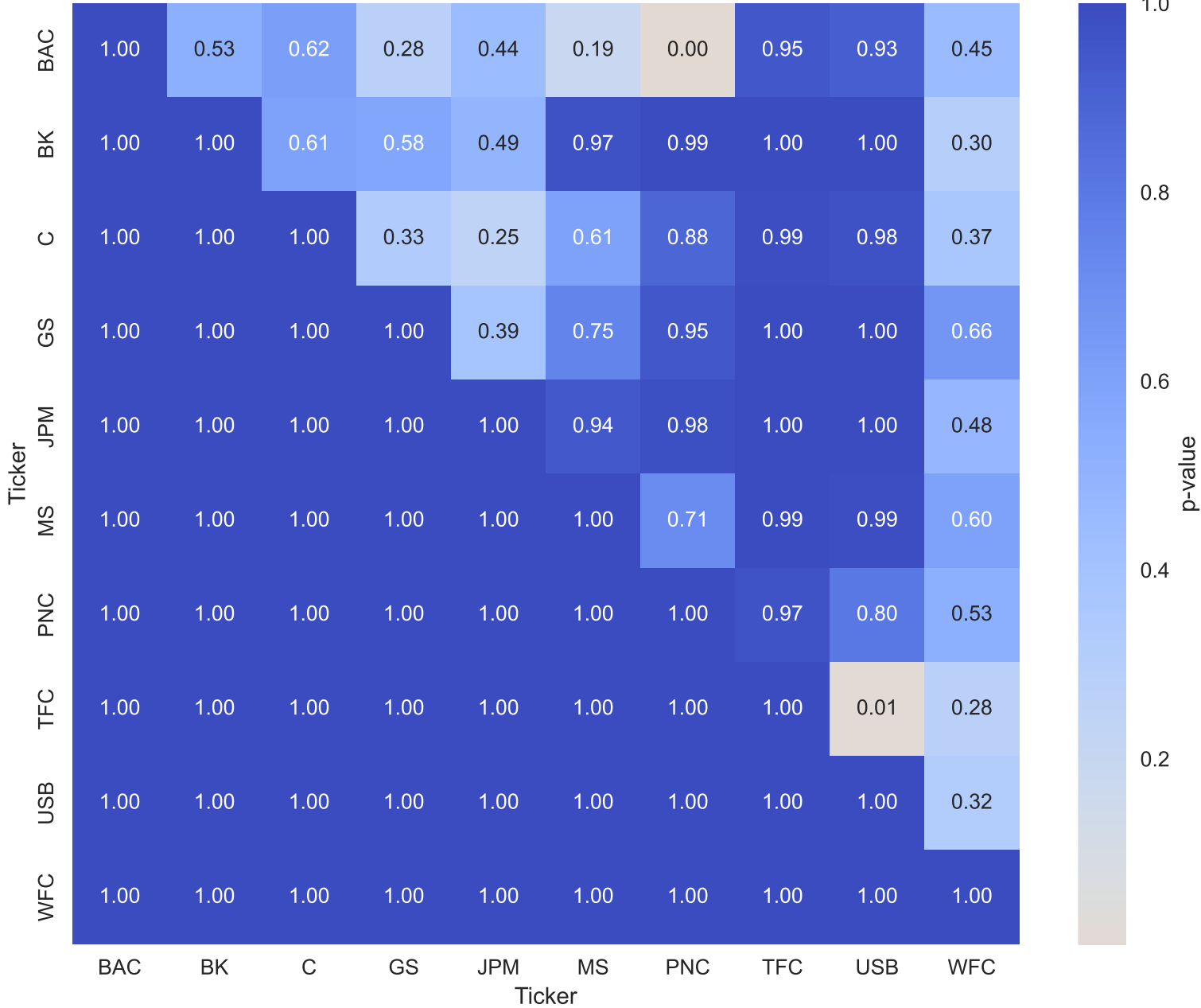
	Sharpe Ratio
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Pair	
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TFC-USB	0.874413
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BAC-PNC	-0.171022
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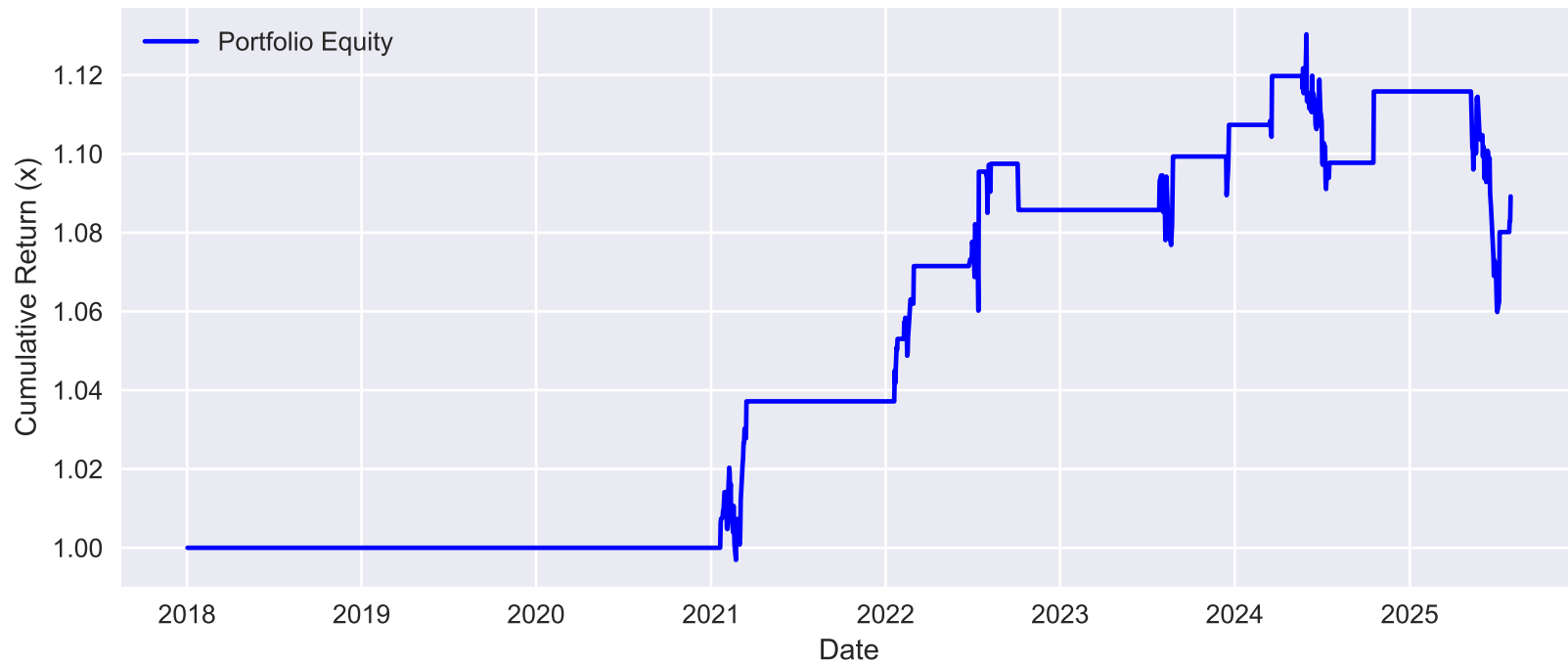
### Cointegration P-Value Heatmap (Engle–Granger)



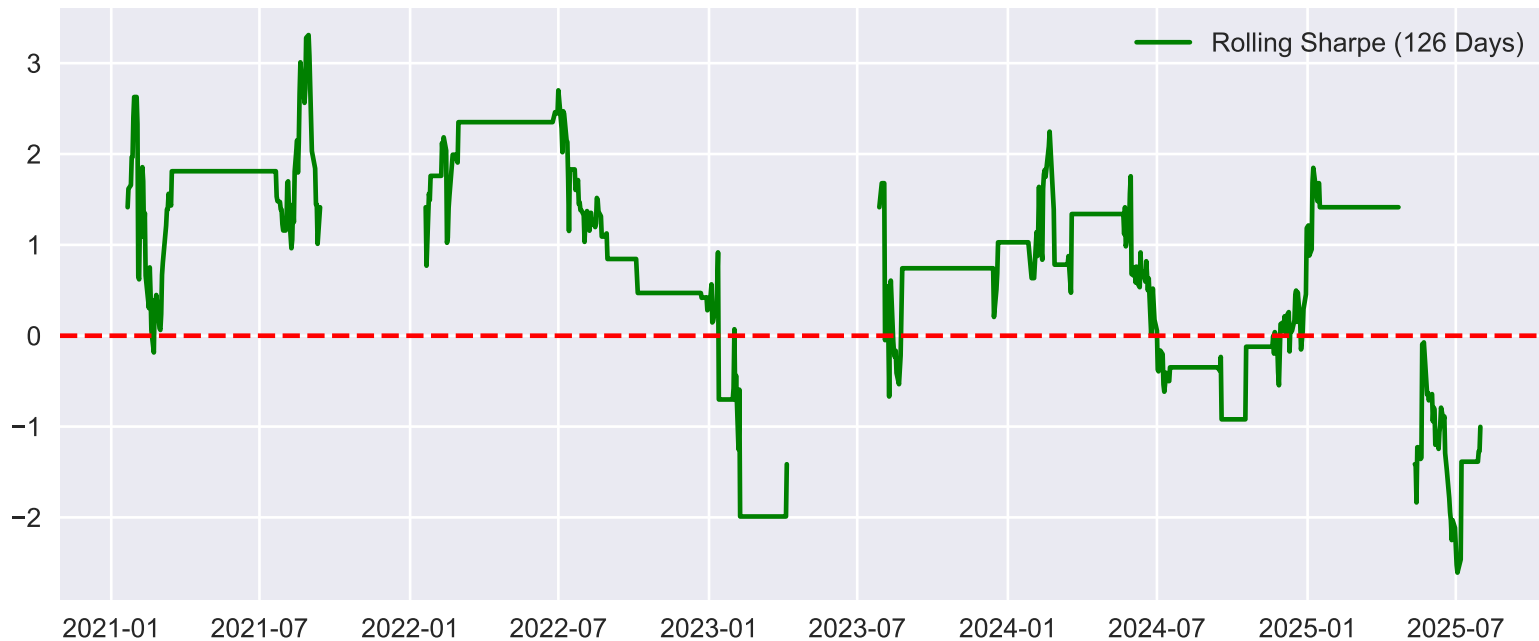
Performance Metrics by Pair

Pair	Annualized Return	Annualized Volatility	Sharpe Ratio	Max Drawdown	Win Rate	p-value
TFC-USB	0.0316	0.0361	0.8744	-0.0456	0.0241	0.0135
BAC-PNC	-0.0076	0.0446	-0.171	-0.1529	0.021	0.0035

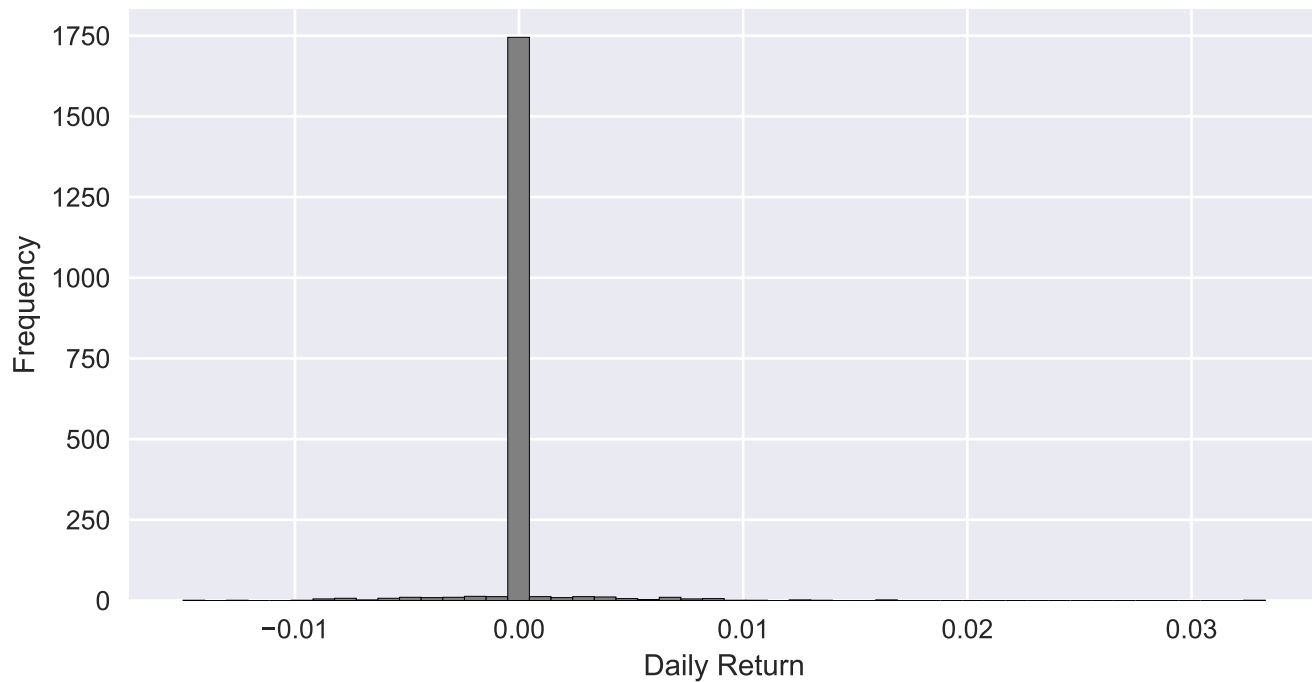
Portfolio Equity Curve — Equal-Weighted Multi-Pair Strategy



Portfolio Rolling Sharpe Ratio



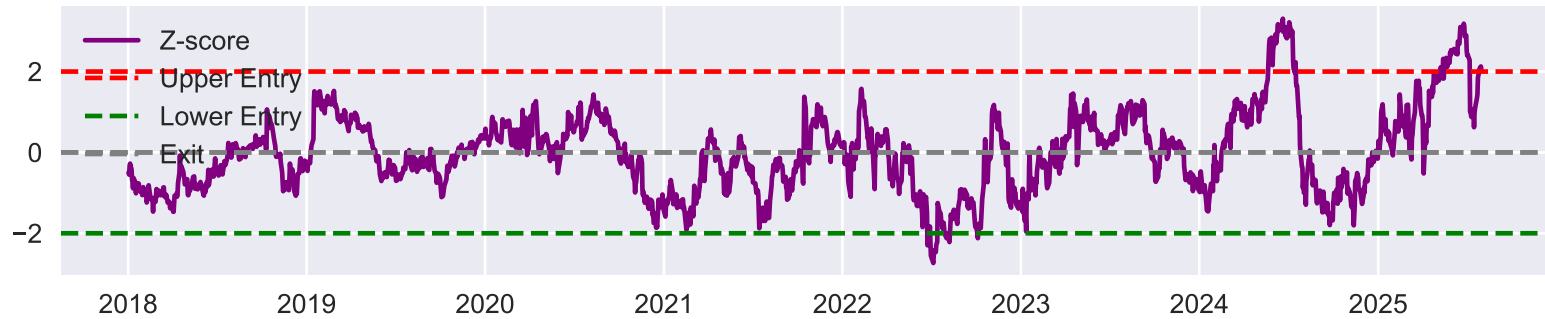
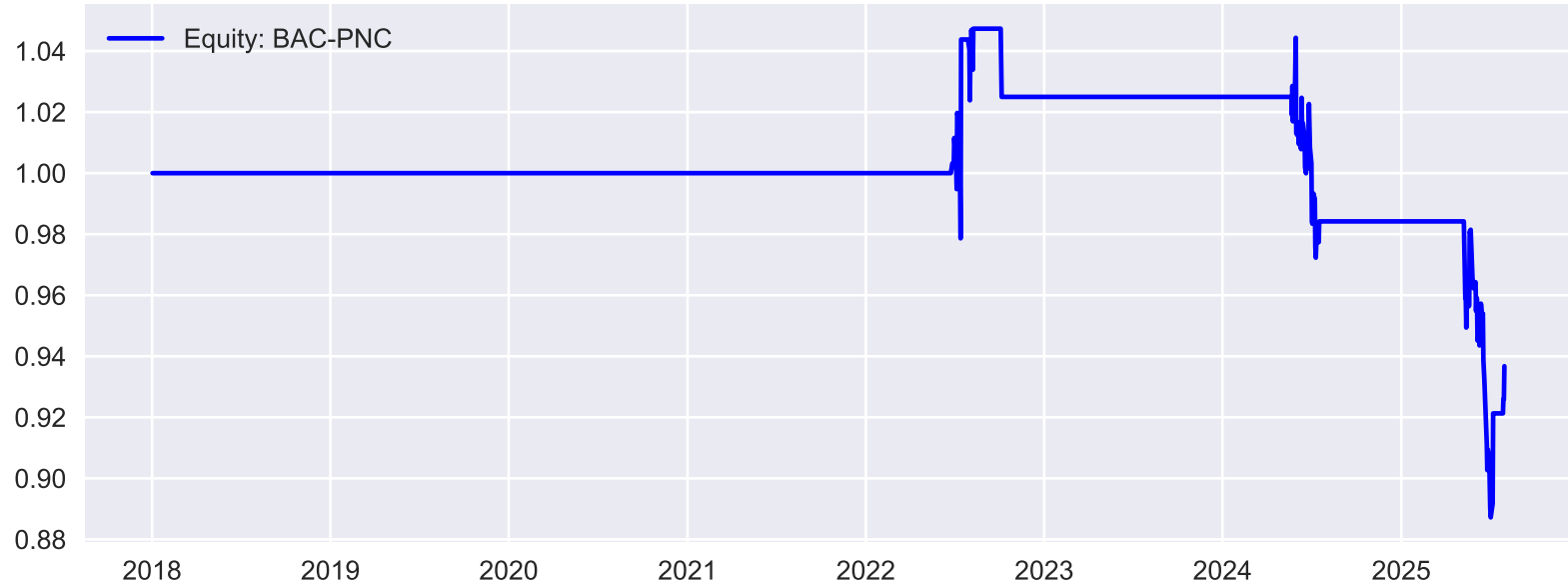
Distribution of Portfolio Daily Returns



## Portfolio Performance Summary

Metric	Value
Annualized Return	0.0118
Annualized Volatility	0.0287
Sharpe Ratio	0.4103
Max Drawdown	-0.0624
Win Rate	0.0451

Equity Curve: BAC / PNC





Equity Curve: TFC / USB

