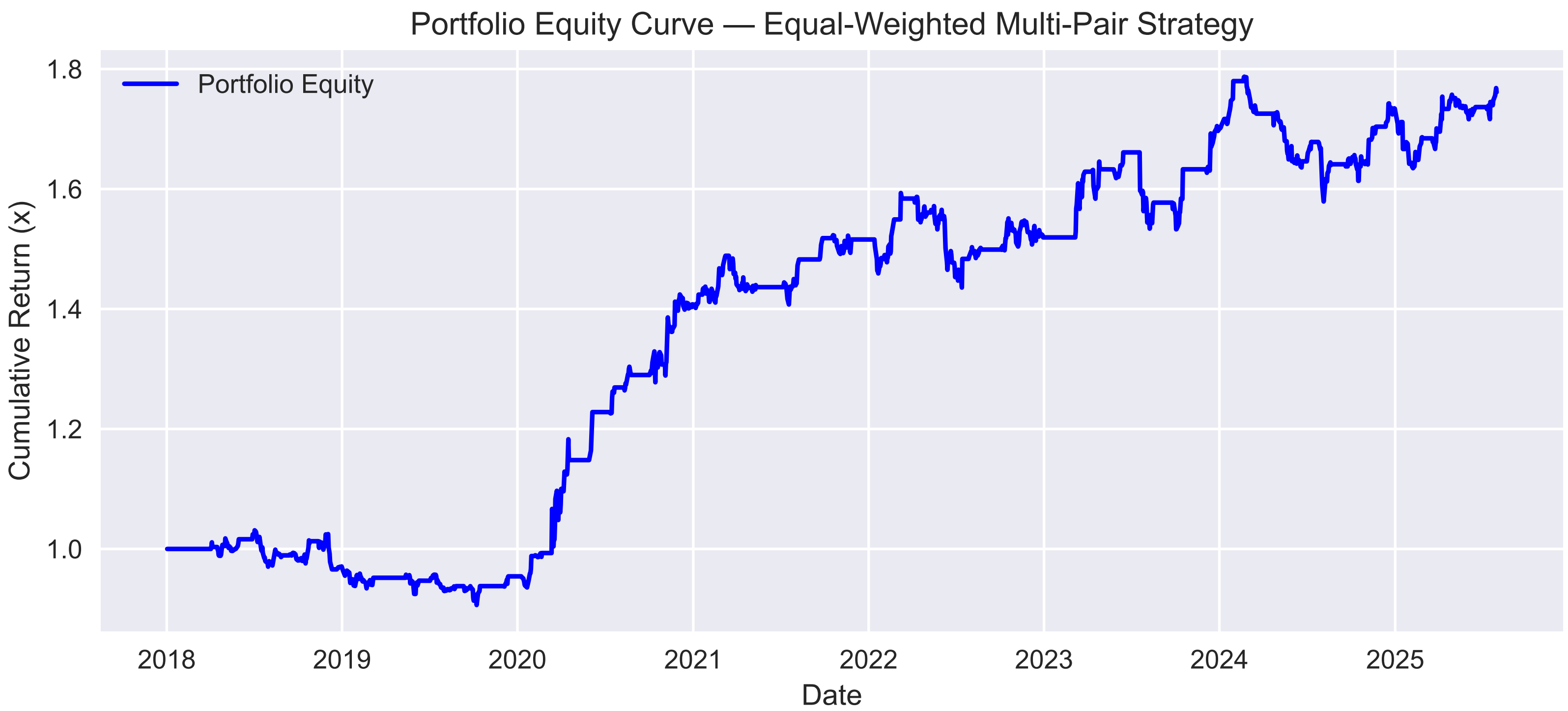
Quant Research Report – Pairs Trading

Data Period: 2018-01-02 to 2025-07-31
Number of Tickers: 10
Cointegrated Pairs Found: 2
Top 5 Pairs by Sharpe Ratio:

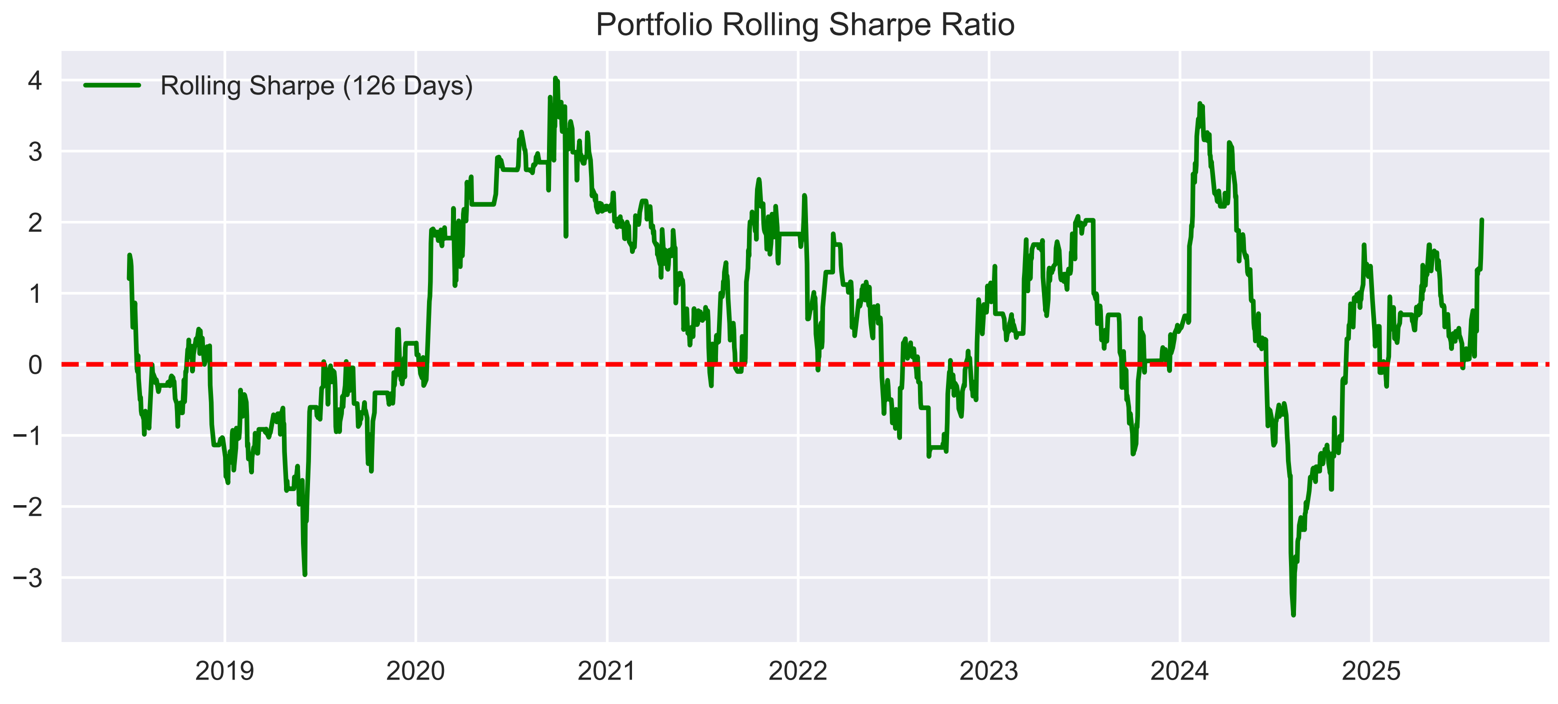
Pair	Sharpe Ratio
TFC-USB	0.613806
BAC-PNC	0.557294

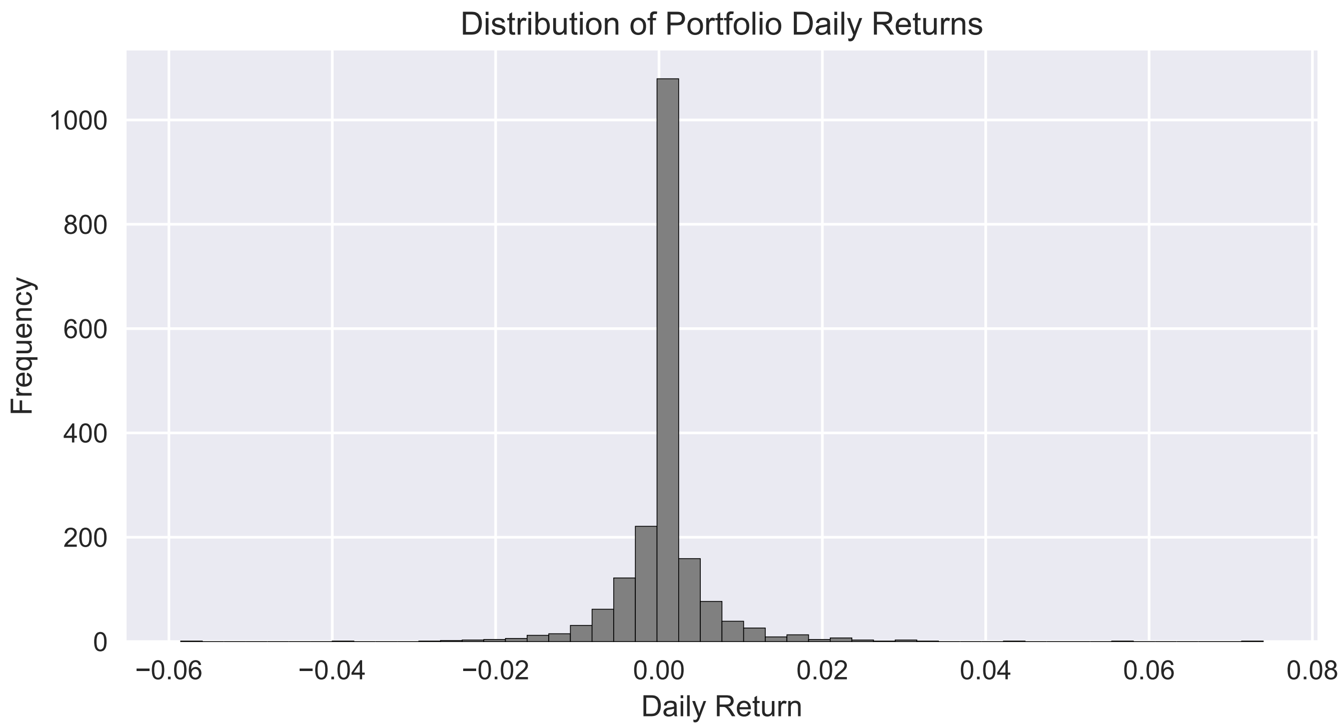
Performance Metrics by Pair

Pair	CAGR	Annualized Mean	Annualized Volatility	Sharpe Ratio	Sortino Ratio	Max Drawdown	Win Rate	p-value
TFC-USB	0.0633	0.0674	0.1097	0.6138	0.9693	-0.1513	0.1816	0.0135
BAC-PNC	0.0808	0.091	0.1633	0.5573	0.8818	-0.1981	0.1522	0.0035



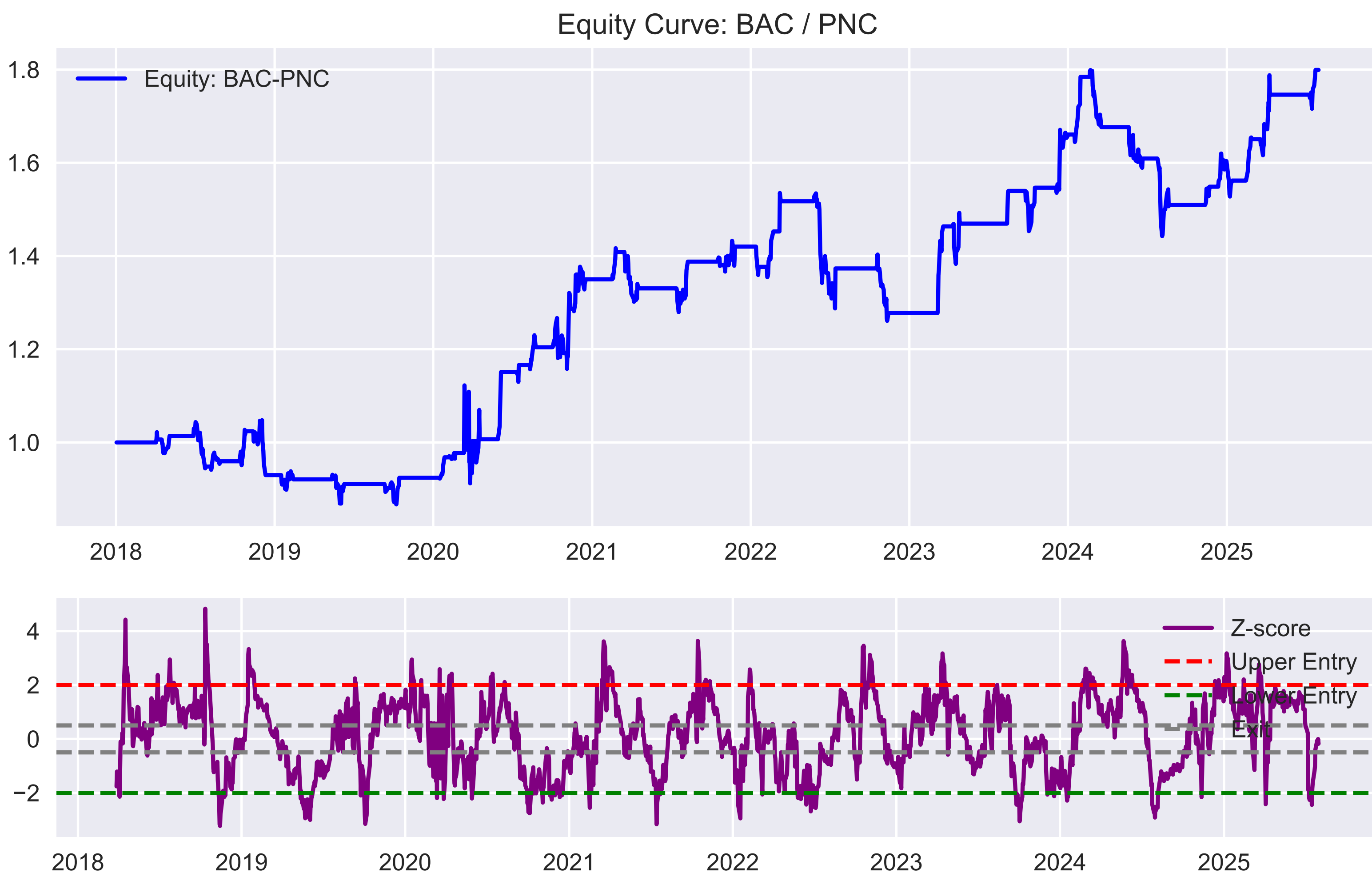
Portfolio Equity Curve — Equal-Weighted Multi-Pair Strategy
Portfolio Equity
Cumulative Return (x)
1.8
1.6
1.4
1.2
1.0
2018
2019
2020
2021
2022
2023
2024
2025
Date


Portfolio Rolling Sharpe Ratio
Rolling Sharpe (126 Days)
4
3
2
1
0
−1
−2
−3
2019
2020
2021
2022
2023
2024
2025

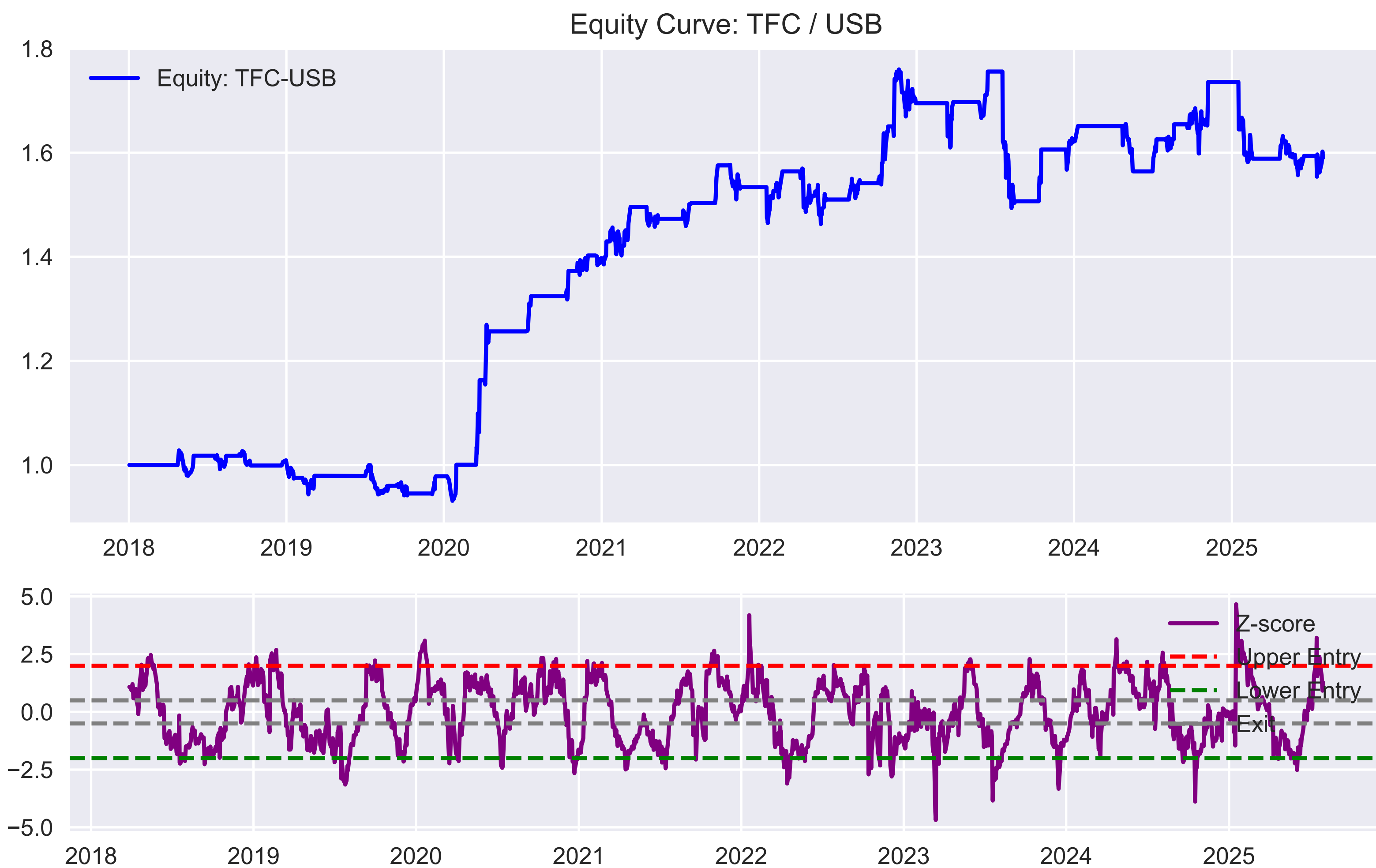

Distribution of Portfolio Daily Returns
Frequency
0
200
400
600
800
1000
−0.06
−0.04
−0.02
0.00
0.02
0.04
0.06
0.08
Daily Return

Portfolio Performance Summary

Metric	Value
CAGR	0.0778
Annualized Mean	0.0792
Annualized Volatility	0.0926
Sharpe Ratio	0.8547
Sortino Ratio	1.4641
Max Drawdown	-0.1208
Win Rate	0.2814



Equity Curve: BAC / PNC
Equity: BAC-PNC
1.8
1.6
1.4
1.2
1.0
2018
2019
2020
2021
2022
2023
2024
2025
Z-score
Upper Entry
Lower Entry
Exit
4
2
0
−2
2018
2019
2020
2021
2022
2023
2024
2025


Equity Curve: TFC / USB
Equity: TFC-USB
1.8
1.6
1.4
1.2
1.0
2018
2019
2020
2021
2022
2023
2024
2025
Z-score
Upper Entry
Lower Entry
Exit
5.0
2.5
0.0
−2.5
−5.0
2018
2019
2020
2021
2022
2023
2024
2025