

Why Merger Arbitrage Deserves a Spot in All Investor Portfolios

December 10, 2019 Julian Klymochko



Investors are always looking for what I call the "holy grail" investment, meaning a strategy that earns high returns with low volatility and no down years.

Obviously, the expectation of a holy grail portfolio is unreasonable. Markets don't work like that. Risk and return tend to be joined at the hip. Historically, asset classes with higher returns generally come with higher risk, be it measured as volatility or the probability of losing money. A high-returning strategy with no risk is just not realistic and if you find one, it would be best to run away as fast as you can.

How to Measure the Top Performing Strategies

For the past 11 years, global stocks have performed exceptionally well. Being long the broad based index has gone in investors' favour. Not only that, a simple equity index has beaten the vast majority of active long-only mutual funds over both the short and long term.

Passive stock index performance has been so good that index funds have become larger than actively managed mutual funds for the first time ever. This trend will only continue.









Global stocks, as measured by the MSCI All Country World Index (ACWI), have returned about 10% annually since 2009. A 10% annualized return is a great result, enough to double your money after about seven years. The MSCI ACWI's return topped the average hedge fund strategy over the past 11 years, as seen in the chart below.

											2009	-2018
2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	YTD	Ann.	Vol.
Global Equities 35.4%	Global Equities 13.2%	Global Bonds 5.6%	Global Equities 16.8%	Global Equities 23.4%	Global Macro 5.6%	Eq. Market Neutral 4.3%	Distressed	Global Equities 24.6%	Merger Arbitrage 3.3%	Global Equities 16.7%	Global Equities 10.0%	Global Equities 15.6%
Distressed	Distressed	Merger Arbitrage 1.5%	Relative Value 10.6%	Equity Long/Short 14.3%	Global Equities 4.7%	Merger Arbitrage 3.3%	Global Equities 8.5%	Equity Long/Short 13.3%	Relative Value -0.4%	Equity Long/Short 7.8%	Relative Value 6.9%	Equity Long/Short 8.6%
Relative Value 25.8%	Relative Value 11.4%	Relative Value 0.1%	Distressed	Distressed	Relative Value 4.0%	Relative Value - 0.3%	Relative Value 7.7%	HFRI Composite 8.6%	Eq. Market Neutral - 1.0%	HFRI Composite 6.8%	Distressed	Distressed
Equity Long/Short 24.6%	Equity Long/Short 10.5%	Distressed	Equity Long/Short 7.4%	HFRI Composite 9.1%	Eq. Market Neutral 3.1%	Equity Long/Short - 1.0%	Equity Long/Short 5.5%	Global Bonds 7.4%	Global Bonds - 1.2%	Global Macro 6.8%	Equity Long/Short 5.6%	HFRI Composite 6.1%
HFRI Composite 20.0%	HFRI Composite 10.2%	Eq. Market Neutral -2.1%	HFRI Composite 6.4%	Relative Value 7.1%	HFRI Composite 3.0%	HFRI Composite - 1.1%	HFRI Composite 5.4%	Distressed	Distressed	Global Bonds 6.3%	HFRI Composite 4.9%	Global Bonds 5.6%
Merger Arbitrage 11.6%	Global Macro 8.1%	Global Macro -4.2%	Global Bonds 4.3%	Eq. Market Neutral 6.5%	Equity Long/Short 1.8%	Global Macro - 1.3%	Merger Arbitrage 3.6%	Relative Value 5.1%	Global Macro - 4.1%	Relative Value 5.6%	Merger Arbitrage 4.1%	Relative Value 4.8%
Global Bonds 6.9%	Global Bonds 5.5%	HFRI Composite - 5.3%	Eq. Market Neutral 3.0%	Merger Arbitrage 4.7%	Merger Arbitrage 1.7%	Global Equities - 1.8%	Eq. Market Neutral 2.2%	Eq. Market Neutral 4.9%	HFRI Composite -4.7%	Merger Arbitrage 4.3%	Global Bonds 2.5%	Global Macro 3.7%
Global Macro 4.3%	Merger Arbitrage 4.6%	Global Equities - 6.9%	Merger Arbitrage 2.8%	Global Macro - 0.4%	Global Bonds 0.6%	Global Bonds -3.2%	Global Bonds 2.1%	Merger Arbitrage 4.3%	Equity Long/Short -7.1%	Distressed	Eq. Market Neutral 2.5%	Eq. Market Neutral 2.8%
Eq. Market Neutral 1.4%	Eq. Market Neutral 2.9%	Equity Long/Short -8.4%	Global Macro - 0.1%	Global Bonds - 2.6%	Distressed	Distressed	Global Macro 1.0%	Global Macro 2.2%	Global Equities -8.9%	Eq. Market Neutral 1.9%	Global Macro 1.0%	Merger Arbitrage 2.5%

Source: MSCI, Bloomberg Barclays, HFRI, FactSet, J.P. Morgan Asset Management.

Global equities reflect the MSCI AC World Index and global bonds reflect the Bloomberg Barclays Global Aggregate Index. All hedge fund returns are from HFRI. HFRI Composite. HFRI FW Composite Index. Returns may fluctuate as hedge fund reporting occurs on a lag. Please see disclosure pages for index definitions. YTD (year-to-date) returns are through 9/30/2019.

Data is based on availability as of November 30, 2019.

Source: J.P. Morgan Asset Management





That being said, the MSCI ACWI's 10% annual compound growth rate came at a cost, given the significant amount of volatility. Since 2009, the MSCI had an annual standard deviation of nearly 16%. This volatility brought three bear markets (referring to a drop of -20% or greater), in 2011, 2015 and 2018.

Comparing performance across asset classes, global equities did have the highest return. However, it's important to note that the MSCI ACWI did not have the best performance.

Confused? Let me explain.

Given that return and risk are joined at the hip, you cannot look at one without the other. The performance of an investment strategy must be viewed in the context of risk. From a quantitative standpoint, one way to measure risk is the annualized volatility of an investment strategy.

The correct way to measure and compare performance is to look at risk-adjusted performance, meaning the return per unit of risk. For this, we utilize a simple formula called the Sharpe ratio, which looks at annualized return divided by the annualized standard deviation of the investment strategy.

Consistency Matters

Getting back to our "holy grail" portfolio of high returns with low risk, judging by the table of returns above, we realize that it's just not possible with the available asset classes.

Global equities have produced the highest returns since 2009, however, they also had the highest volatility. Global equities suffered declines in three out of eleven years.

One characteristic of the holy grail portfolio is no money-losing years. There was one investment that had positive returns for every year from 2009 to 2019. Was it the supposedly safe global bond portfolio? No, global bonds suffered three down years.

The strategy that was a consistent performer with no down years was merger arbitrage.

Not only did it have the most consistent returns, it actually had the best performance. With an annualized 4.1% return and a 2.5% standard deviation, merger arbitrage had a 1.64 Sharpe ratio, which represents a risk-adjusted return that was 2.5x higher than global equities.



	Annualized Return	Standard Deviation (Risk)	Sharpe Ratio
Merger Arbitrage	4.1%	2.5%	1.64
Relative Value	6.9%	4.8%	1.44
Market Neutral	2.5%	2.8%	0.89
Distressed Debt	6.8%	7.8%	0.87
HFRI Index	4.9%	6.1%	0.80
Long-Short Equity	5.6%	8.6%	0.65
Global Equities	10.0%	15.6%	0.64
Global Bonds	2.5%	5.6%	0.45
Global Macro	1.0%	3.7%	0.27

Source: Accelerate, J.P. Morgan Asset Management



Source: Accelerate, J.P. Morgan Asset Management

While most hedge fund strategies had lower annualized returns than the MSCI ACWI, all hedge fund strategies (except global macro) outperformed both global stocks and global bonds since 2009.

Comparing apples-to-apples across hedge fund strategies, merger arbitrage comes out on top. Its 1.64 Sharpe ratio is over twice as high as the HFRI index, which represents a composite of all hedge fund strategies.





Merger Arbitrage as an Asset Class

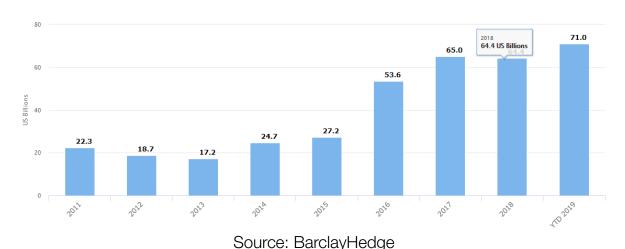
Merger arbitrage has been around since the days of value investing legend Ben Graham's Graham-Newman Partnership, who was practising the niche investment strategy in the 1940's and 1950's.

The strategy didn't begin to generate significant interest among investors until the merger mania of the 1980's. Back then it was the wild west and returns for merger arbitrageurs were very high. Notably, Warren Buffett earned a 53% rate of return from his merger arbitrage investments in 1988.

Over the past few decades, merger arbitrage has become institutionalized and standardized. Assets allocated to the strategy have increased almost 3-fold over the past five years to over \$70 billion in funds focused on the strategy.

Merger Arbitrage

Assets Under Management - Historical Growth of Assets



Active vs Passive

Long-only mutual funds have had notoriously poor relative performance over the short and long-term as compared to the passive benchmark. The vast majority of active long-only mutual funds have underperformed their benchmark.





In contrast to long-only equities, merger arbitrage is an asset class in which most active arbitrageurs beat the passive benchmark.

	S&P Merger Arbitrage Index	HFRI Merger Arbitrage Index	Active Excess Return
Since Inception (January 2006)	3.67%	4.40%	0.73%
10 Years	2.73%	3.62%	0.90%
5 Years	2.44%	4.13%	1.69%
3 Years	4.10%	4.88%	0.78%
1 Year	6.14%	5.72%	-0.42%

Source: Hedge Fund Research, S&P, Bloomberg

Active management pays off in arbitrage, as seen with the medium and long-term outperformance of active merger arbitrage strategies, as represented by the HFRI Merger Arbitrage Index, compared to the passive benchmark, the S&P Merger Arbitrage Index.

A Superior Form of Fixed Income Investing

Investors love fixed income given the stability and reliability of the asset class. Their bond portfolios generate interest payments that combine to form a steady yield.

Zero coupon bonds are bought at a discount and redeemed at par upon maturity (if they don't default). The discount to par is where the yield generation comes from.

Merger arbitrage investments can be viewed from the same perspective as a zero coupon bond. In a merger arb trade, a security is bought at a discount to the deal consideration, and yield is generated once the deal closes and the arbitrageur gets paid (assuming the deal doesn't break).

Both bonds and merger arbitrage investments produce yield for an investor in a similar manner.

The current merger arbitrage universe has an average yield of 5.9%, which compares favourably to the current BBB bond index yield of 3.2%.

On an after-tax basis, the yield from merger arbitrage looks even better on a comparative basis. The reason being is yield from merger arbitrage largely comes in the form of capital gains, versus interest income from fixed income. Generally speaking, capital gains are taxed at half the rate of interest income.





Merger Arbitrage - Earning its Way into Investor Portfolios

The holy grail investment strategy may be unrealistic, however, given its steady and consistent returns with low volatility, merger arbitrage may be the closest thing we have to it.

In addition to its exceptional performance, exceeding that of global stocks by 2.5x since 2009, its stability in providing investors with tax-efficient yield should make merger arbitrage a default allocation in all investor portfolios.



