**Introduce yourself / Tell me about your experience / also about your research**

**short pitch that “sells” who you are, what you’ve done, what you would like to do and why. short description of your background**

Come from a mathematic and scientific background.

Current role as a trader at a quantities systematic firm.

Main role is to understand all strategies and driver for the model. Execute all trades.

Also performing research on existing strategies and looking at new models.

Found researching side very rewarding. I love problem solving. I like to furtherer my develop my research ability.

I believe with my mathematical back ground, knowledge learnt from back testing the existing strategies at QM, would be a success at this new role.

**Explain general fund: systematic, we trade market neutral strategies. Part of CV talk.**

Dollar neutral strategy, trade pair of equity index futures. For example, VGES. It’s mean reversion MA model.

Works particularly well during high vol period.

When there is shock in volatility, equity tends to over react. We essentially there to provide liquidity by trading the spread.

Predictive strategies, risk parity trade, VIX short trade and regression PM strategies.

**Quant Research skills – he will be wanting to find out more about your research experience, strategies/signals you’ve looked at and how you look at them, research topics, assets covered, notable achievements, research papers, portfolio optimisation/construction skills.**

**Example of things I did:**

**EoM** Trade: Idea to go long equity at the last week of the month because of institutional buying.

We trade traded with fixed income hedge.

Back test using a correlation filter.

Idea is that is fixed income and equity asset classes are highly correlated, the fixed income does not actually provide a hedge.

Looking at rolling 30 days correlations, split it into three buckets, low corr, med corr and high corr. And looked at returns for each correlation regimes.

The results are whilst med and high corr made no money,

Low corr risk parity makes 16bps daily, but during EoM period makes 34bps daily.

**Example of New things I developed:**

**VIX Trade:**

**Monthly trade, we hold it for 2 – 3 days.**

I read the news on VIX prices is being fixed on vix futures expiry date. Our exit day is often the day before the vix future expiry date. So, I took the is it worth it to hold an extra day.

Result is there is very small increase in mean but very large increase in volatility. We decide not go ahead.

Another observation is on vix trade. In June we usually trade July contract as on the day we enter the trade June contract already expired. But 4 out 12 month, the contract expiry after our trader period. I also did test on that.

During option expiry period it makes 80bps to 1percent daily

**Dax Trade / Regression PM trade:**

We current have a regression PM model. It’s a reversal model on a spread ie VGES. where we regress the spreads overnight return on the daily return and PM return.

Where we split return components to daily return, PM returns and overnight return. Idea is if spreads moves off during pm session because of lack of liquidity, it will give us positive Expected returns and overnight return should be positive.

Paper I read on is a pairwise trading strategy of within a stock index. I tested on dax index.

Where I regress pairwise 5 days return on their past 5 days returns.

I ran the cross-section regression for each day since 2002. And average the get average beta and alpha. Used that to calculated expected returns, tried on fixed threshold of 5bps , 7.5bps and 10bps.

Stats have mean near 0.

**FX Trade:**

**using forwards to trade.**

**MA Models:**

tested MA model using 900mintues moving average. With 3 levels, determined by last 3 days daily range. And 3 different profit takes.

Currently looking at applying Correlation filter on those trades, inter market correlations.

**Advantage of trading experience:**

understand what’s a sensible execution slippage

is model making realistic assumption

understand scalability of model and what model size could possibly be

**Motivations will could likely be asked – it’s always good to have a detailed think about your motivations, needs to sound legitimate, too many times highly qualified candidates don’t show eagerness for the role, and or are moving for reasons that do not suggest longevity – the group want someone to join, be excited and be around for many years.**

Ready to fully engage in research activity.

Exciting work, rewarding and so much to learn.

I have already built a good foundation knowledge on research and ready to really develop / broaden my skill set.

Woking in a research team, asking questions. learning different ways of looking at market data and coming up with new ideas.

**the personality trait: they really like people who are very hungry, curious and with a strong desire to improve, so it's a good idea to come across in these ways even if the interview feels more like a chat than a thorough interrogation**

**Believe in continuous improvement.**

For example, in order to code model updater, read C# book and self-taught to code in C#.

Also realise I was rusty in Matlab after university. Spend extra time online to do Matlab course on course. Got 100% on the course and now in a pretty advanced level on Matlab.

**Current Marker View:**

**read some news today**

**Question to ask**

what type assets classed do you cover and what strategy do you expect me to research?

Now we are in a tightening cycle with fed raising rates and unwinding its balance sheet and EU about to spot their asset purchasing program. Many believe we in a bond bubble and big correction in just around the corner. How is quantPort positioned in such environment and what changes are you making to adapt this new tightening market